is available at
https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates
in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007

6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

Appendix C

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STANDARD TERMS AND CONDITIONS APPLICABLE TO GRANT AGREEMENTS

SAMPLE CONSTRUCTION AGREEMENT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
REVISED STANDARD TERMS AND CONDITIONS
APPLICABLE TO GRANT AGREEMENTS

ATTACHMENT 1-A

1. Entire Agreement.
This Grant Agreement, including any Attachments and Exhibits referred to herein and/or attached hereto (Agreement), constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements, whether written or oral, with respect to such subject matter. Any terms and conditions included on Grantee's forms or invoices shall be null and void.

2. Grant Administration.

a. Order of Precedence. If there are conflicting provisions among the documents that make up the Agreement, the order of precedence for interpretation of the Agreement is as follows:
   i. Standard Grant Agreement
   ii. Attachments other than Attachment 1, in numerical order as designated in the Standard Grant Agreement
   iii. Attachment 1, Standard Terms and Conditions
   iv. The Exhibits in the order designated in the Standard Grant Agreement

b. All approvals, written or verbal, and other written communication among the parties, including all notices, shall be obtained by or sent to the parties' Grant Managers. All written communication shall be by electronic mail, U.S. Mail, a courier delivery service, or delivered in person. Notices shall be considered delivered when reflected by an electronic mail read receipt, a courier service delivery receipt, other mail service delivery receipt, or when receipt is acknowledged by recipient. If the notice is delivered in multiple ways, the notice will be considered delivered at the earliest delivery time.

c. If a different Grant Manager is designated by either party after execution of this Agreement, notice of the name and contact information of the new Grant Manager will be submitted in writing to the other party and maintained in the respective parties' records. A change of Grant Manager does not require a formal amendment or change order to the Agreement.

d. This Agreement may be amended, through a formal amendment or a change order, only by a written agreement between both parties. A formal amendment to this Agreement is required for changes which cause any of the following:
   (1) an increase or decrease in the Agreement funding amount;
   (2) a change in Grantee's match requirements;
   (3) a change in the expiration date of the Agreement; and/or
   (4) changes to the cumulative amount of funding transfers between approved budget categories, as defined in Attachment 3, Grant Work Plan, that exceeds or is expected to exceed twenty percent (20%) of the total budget as last approved by Department.
   A change order to this Agreement may be used when:
   (1) task timelines within the current authorized Agreement period change;
   (2) the cumulative transfer of funds between approved budget categories, as defined in Attachment 3, Grant Work Plan, are less than twenty percent (20%) of the total budget as last approved by Department;
   (3) changing the current funding source as stated in the Standard Grant Agreement; and/or
   (4) fund transfers between budget categories for the purposes of meeting match requirements.
   This Agreement may be amended to provide for additional services if additional funding is made available by the Legislature.

e. All days in this Agreement are calendar days unless otherwise specified.

3. Agreement Duration.
The term of the Agreement shall begin and end on the dates indicated in the Standard Grant Agreement, unless extended or terminated earlier in accordance with the applicable terms and conditions. The Grantee shall be eligible for reimbursement for work performed on or after the date of execution through the expiration date of this Agreement, unless otherwise specified in Attachment 2, Special Terms and Conditions. However, work performed prior to the execution of this Agreement may be reimbursable or used for match purposes if permitted by the Special Terms and Conditions.

SAMPLE - CONSTRUCTION AGREEMENT

4. Deliverables.

The Grantee agrees to render the services or other units of deliverables as set forth in Attachment 3, Grant Work Plan. The services or other units of deliverables shall be delivered in accordance with the schedule and at the pricing outlined in the Grant Work Plan. Deliverables may be comprised of activities that must be completed prior to Department making payment on that deliverable. The Grantee agrees to perform in accordance with the terms and conditions set forth in this Agreement and all attachments and exhibits incorporated by the Standard Grant Agreement.

5. Performance Measures.

The Grantee warrants that: (1) the services will be performed by qualified personnel; (2) the services will be of the kind and quality described in the Grant Work Plan; (3) the services will be performed in a professional and workmanlike manner in accordance with industry standards and practices; (4) the services shall not and do not knowingly infringe upon the intellectual property rights, or any other proprietary rights, of any third party; and (5) its employees, subcontractors, and/or subgrantees shall comply with any security and safety requirements and processes, if provided by Department, for work done at the Project Location(s). The Department reserves the right to investigate or inspect at any time to determine whether the services or qualifications offered by Grantee meet the Agreement requirements. Notwithstanding any provisions herein to the contrary, written acceptance of a particular deliverable does not foreclose Department's remedies in the event deficiencies in the deliverable cannot be readily measured at the time of delivery.

6. Acceptance of Deliverables.

a. Acceptance Process. All deliverables must be received and accepted in writing by Department's Grant Manager before payment. The Grantee shall work diligently to correct all deficiencies in the deliverable that remain outstanding, within a reasonable time at Grantee's expense. If Department's Grant Manager does not accept the deliverables within 30 days of receipt, they will be deemed rejected.

b. Rejection of Deliverables. The Department reserves the right to reject deliverables, as outlined in the Grant Work Plan, as incomplete, inadequate, or unacceptable due, in whole or in part, to Grantee's lack of satisfactory performance under the terms of this Agreement. The Grantee's efforts to correct the rejected deliverables will be at Grantee's sole expense. Failure to fulfill the applicable technical requirements or complete all tasks or activities in accordance with the Grant Work Plan will result in rejection of the deliverable and the associated invoice. Payment for the rejected deliverable will not be issued unless the rejected deliverable is made acceptable to Department in accordance with the Agreement requirements. The Department, at its option, may allow additional time within which Grantee may remedy the objections noted by Department. The Grantee's failure to make adequate or acceptable deliverables after a reasonable opportunity to do so shall constitute an event of default.

7. Financial Consequences for Nonperformance.

a. Withholding Payment. In addition to the specific consequences explained in the Grant Work Plan and/or Special Terms and Conditions, the State of Florida (State) reserves the right to withhold payment when the Grantee has failed to perform/comply with provisions of this Agreement. None of the financial consequences for nonperformance in this Agreement as more fully described in the Grant Work Plan shall be considered penalties.

b. Invoice reduction

If Grantee does not meet a deadline for any deliverable, the Department will reduce the invoice by 1% for each day the deadline is missed, unless an extension is approved in writing by the Department.

c. Corrective Action Plan. If Grantee fails to correct all the deficiencies in a rejected deliverable within the specified timeframe, Department may, in its sole discretion, request that a proposed Corrective Action Plan (CAP) be submitted by Grantee to Department. The Department requests that Grantee specify the outstanding deficiencies in the CAP. All CAPs must be able to be implemented and performed in no more than sixty (60) calendar days.

   i. The Grantee shall submit a CAP within ten (10) days of the date of the written request from Department. The CAP shall be sent to the Department's Grant Manager for review and approval. Within ten (10) days of receipt of a CAP, Department shall notify Grantee in writing whether the CAP proposed has been accepted. If the CAP is not accepted, Grantee shall have ten (10) days from receipt of Department letter rejecting the proposal to submit a revised proposed CAP. Failure to obtain Department approval of a CAP as specified above may result in Department's termination of this Agreement for cause as authorized in this Agreement.

   ii. Upon Department's notice of acceptance of a proposed CAP, Grantee shall have ten (10) days to commence implementation of the accepted plan. Acceptance of the proposed CAP by Department

SAMPLE CONSTRUCTION AGREEMENT

does not relieve Grantee of any of its obligations under the Agreement. In the event the CAP fails to correct or eliminate performance deficiencies by Grantee, Department shall retain the right to require additional or further remedial steps, or to terminate this Agreement for failure to perform. No actions approved by Department or steps taken by Grantee shall preclude Department from subsequently asserting any deficiencies in performance. The Grantee shall continue to implement the CAP until all deficiencies are corrected. Reports on the progress of the CAP will be made to Department as requested by Department's Grant Manager.

iii. Failure to respond to a Department request for a CAP or failure to correct a deficiency in the performance of the Agreement as specified by Department may result in termination of the Agreement.

8. Payment.

a. Payment Process. Subject to the terms and conditions established by the Agreement, the pricing per deliverable established by the Grant Work Plan, and the billing procedures established by Department, Department agrees to pay Grantee for services rendered in accordance with section 215.422, Florida Statutes (F.S.).

b. Taxes. The Department is exempted from payment of State sales, use taxes and Federal excise taxes. The Grantee, however, shall not be exempted from paying any taxes that it is subject to, including State sales and use taxes, or for payment by Grantee to suppliers for taxes on materials used to fulfill its contractual obligations with Department. The Grantee shall not use Department's exemption number in securing such materials. The Grantee shall be responsible and liable for the payment of all its FICA/Social Security and other taxes resulting from this Agreement.

c. Maximum Amount of Agreement. The maximum amount of compensation under this Agreement, without an amendment, is described in the Standard Grant Agreement. Any additional funds necessary for the completion of this Project are the responsibility of Grantee.

d. Reimbursement for Costs. The Grantee shall be paid on a cost reimbursement basis for all eligible Project costs upon the completion, submittal, and approval of each deliverable identified in the Grant Work Plan. Reimbursement shall be requested on Exhibit C, Payment Request Summary Form. To be eligible for reimbursement, costs must be in compliance with laws, rules, and regulations applicable to expenditures of State funds, including, but not limited to, the Reference Guide for State Expenditures, which can be accessed at the following web address: https://www.myfloridacfo.com/docs-sf/accounting-and-auditing-libraries/state-agencies/reference-guide-for-state-expenditures.pdf.

e. Rural Communities and Rural Areas of Opportunity. If Grantee is a county or municipality that qualifies as a "rural community" or "rural area of opportunity" (RAO) as defined in subsection 288.0656(2), F.S., such Grantee may request from the Department that all invoice payments under this Agreement be directed to the relevant county or municipality or to the RAO itself. The Department will agree to Grantee's request if:

i. Grantee demonstrates that it is a county or municipality that qualifies as a "rural community" or "rural area of opportunity" under subsection 288.0656(2), F.S.;

ii. Grantee demonstrates current financial hardship using one (1) or more of the "economic distress" factors defined in subsection 288.0656(2)(c), F.S.;

iii. Grantee's performance has been verified by the Department, which has determined that Grantee is eligible for invoice payments and that Grantee's performance has been completed in accordance with this Agreement's terms and conditions; and

iv. Applicable federal and state law(s), rule(s) and regulation(s) allow for such payments.

This subsection may not be construed to alter or limit any other applicable provisions of federal or state law, rule, or regulation. A current list of Florida's designated RAOs can be accessed at the following web address: https://floridajobs.org/community-planning-and-development/rural-community-programs/rural-areas-of-opportunity.

f. Invoice Detail. All charges for services rendered or for reimbursement of expenses authorized by Department pursuant to the Grant Work Plan shall be submitted to Department in sufficient detail for a proper pre-audit and post-audit to be performed. The Grantee shall only invoice Department for deliverables that are completed in accordance with the Grant Work Plan.

g. State Funds Documentation. Pursuant to section 216.1366, F.S., if Contractor meets the definition of a non-profit organization under section 215.97(2)(m), F.S., Contractor must provide the Department with documentation that indicates the amount of state funds:

i. Allocated to be used during the full term of the contract or agreement for remuneration to any member of the board of directors or an officer of Contractor.

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ii. Allocated under each payment by the public agency to be used for remuneration of any member of the board of directors or an officer of the Contractor.

The documentation must indicate the amounts and recipients of the remuneration. Such information must be posted on the State's the contract tracking system and maintained pursuant to section 215.985, F.S., and must be posted on the Contractor's website, if Contractor maintains a website.

h. Interim Payments. Interim payments may be made by Department, at its discretion, if the completion of deliverables to date have first been accepted in writing by Department's Grant Manager.

i. Final Payment Request. A final payment request should be submitted to Department no later than sixty (60) days following the expiration date of the Agreement to ensure the availability of funds for payment. However, all work performed pursuant to the Grant Work Plan must be performed on or before the expiration date of the Agreement.

j. Annual Appropriation Contingency. The State's performance and obligation to pay under this Agreement is contingent upon an annual appropriation by the Legislature. This Agreement is not a commitment of future appropriations. Authorization for continuation and completion of work and any associated payments may be rescinded, with proper notice, at the discretion of Department if the Legislature reduces or eliminates appropriations.

k. Interest Rates. All interest rates charged under the Agreement shall be calculated on the prevailing rate used by the State Board of Administration. To obtain the applicable interest rate, please refer to: https://www.myfloridacfo.com/division/aa/local-governments/judgement-interest-rates.

l. Refund of Payments to the Department. Any balance of unobligated funds that have been advanced or paid must be refunded to Department. Any funds paid in excess of the amount to which Grantee or subgrantee is entitled under the terms of the Agreement must be refunded to Department. If this Agreement is funded with federal funds and the Department is required to refund the federal government, the Grantee shall refund the Department its share of those funds.

9. Documentation Required for Cost Reimbursement Grant Agreements and Match.

If Cost Reimbursement or Match is authorized in Attachment 2, Special Terms and Conditions, the following conditions apply. Supporting documentation must be provided to substantiate cost reimbursement or match requirements for the following budget categories:

a. Salary/Wages. Grantee shall list personnel involved, position classification, direct salary rates, and hours spent on the Project in accordance with Attachment 3, Grant Work Plan in their documentation for reimbursement or match requirements.

b. Overhead/Indirect/General and Administrative Costs. If Grantee is being reimbursed for or claiming match for multipliers, all multipliers used (i.e., fringe benefits, overhead, indirect, and/or general and administrative rates) shall be supported by audit. If Department determines that multipliers charged by Grantee exceeded the rates supported by audit, Grantee shall be required to reimburse such funds to Department within thirty (30) days of written notification. Interest shall be charged on the excessive rate.

c. Contractual Costs (Subcontractors). Match or reimbursement requests for payments to subcontractors must be substantiated by copies of invoices with backup documentation identical to that required from Grantee. Subcontracts which involve payments for direct salaries shall clearly identify the personnel involved, salary rate per hour, and hours spent on the Project. All eligible multipliers used (i.e., fringe benefits, overhead, indirect, and/or general and administrative rates) shall be supported by audit. If Department determines that multipliers charged by any subcontractor exceeded the rates supported by audit, Grantee shall be required to reimburse such funds to Department within thirty (30) days of written notification. Interest shall be charged on the excessive rate. Nonconsumable and/or nonexpendable personal property or equipment costing $5,000 or more purchased for the Project under a subcontract is subject to the requirements set forth in chapters 273 and/or 274, F.S., and Chapter 69I-72, Florida Administrative Code (F.A.C.) and/or Chapter 69I-73, F.A.C., as applicable. The Grantee shall be responsible for maintaining appropriate property records for any subcontracts that include the purchase of equipment as part of the delivery of services. The Grantee shall comply with this requirement and ensure its subcontracts issued under this Agreement, if any, impose this requirement, in writing, on its subcontractors.

i. For fixed-price (vendor) subcontracts, the following provisions shall apply: The Grantee may award, on a competitive basis, fixed-price subcontracts to consultants/contractors in performing the work described in Attachment 3, Grant Work Plan. Invoices submitted to Department for fixed-price subcontracted activities shall be supported with a copy of the subcontractor's invoice and a copy of the tabulation form for the competitive procurement process (e.g., Invitation to Bid, Request for Proposals, or other similar competitive procurement document) resulting in the fixed-price

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subcontract. The Grantee may request approval from Department to award a fixed-price subcontract resulting from procurement methods other than those identified above. In this instance, Grantee shall request the advance written approval from Department's Grant Manager of the fixed price negotiated by Grantee. The letter of request shall be supported by a detailed budget and Scope of Services to be performed by the subcontractor. Upon receipt of Department Grant Manager's approval of the fixed-price amount, Grantee may proceed in finalizing the fixed-price subcontract.

ii. If the procurement is subject to the Consultant's Competitive Negotiation Act under section 287.055, F.S. or the Brooks Act, Grantee must provide documentation clearly evidencing it has complied with the statutory or federal requirements.

d. Travel. All requests for match or reimbursement of travel expenses shall be in accordance with section 112.061, F.S.

e. Direct Purchase Equipment. For the purposes of this Agreement, Equipment is defined as capital outlay costing $5,000 or more. Match or reimbursement for Grantee's direct purchase of equipment is subject to specific approval of Department, and does not include any equipment purchased under the delivery of services to be completed by a subcontractor. Include copies of invoices or receipts to document purchases, and a properly completed Exhibit B, Property Reporting Form**.**

f. Rental/Lease of Equipment. Match or reimbursement requests for rental/lease of equipment must include copies of invoices or receipts to document charges.

g. Miscellaneous/Other Expenses. If miscellaneous or other expenses, such as materials, supplies, non-excluded phone expenses, reproduction, or mailing, are reimbursable or available for match or reimbursement under the terms of this Agreement, the documentation supporting these expenses must be itemized and include copies of receipts or invoices. Additionally, independent of Grantee's contract obligations to its subcontractor, Department shall not reimburse any of the following types of charges: cell phone usage; attorney's fees or court costs; civil or administrative penalties; or handling fees, such as set percent overages associated with purchasing supplies or equipment.

h. Land Acquisition. Reimbursement for the costs associated with acquiring interest and/or rights to real property (including access rights through ingress/egress easements, leases, license agreements, or other site access agreements; and/or obtaining record title ownership of real property through purchase) must be supported by the following, as applicable: Copies of Property Appraisals, Environmental Site Assessments, Surveys and Legal Descriptions, Boundary Maps, Acreage Certification, Title Search Reports, Title Insurance, Closing Statements/Documents, Deeds, Leases, Easements, License Agreements, or other legal instrument documenting acquired property interest and/or rights. If land acquisition costs are used to meet match requirements, Grantee agrees that those funds shall not be used as match for any other Agreement supported by State or Federal funds.

10. Status Reports.

The Grantee shall submit status reports quarterly, unless otherwise specified in the Attachments, on Exhibit A, Progress Report Form**,** to Department's Grant Manager describing the work performed during the reporting period, problems encountered, problem resolutions, scheduled updates, and proposed work for the next reporting period. Quarterly status reports are due no later than twenty (20) days following the completion of the quarterly reporting period. For the purposes of this reporting requirement, the quarterly reporting periods end on March 31, June 30, September 30 and December 31. The Department will review the required reports submitted by Grantee within thirty (30) days.

11. Retainage.

The following provisions apply if Department withholds retainage under this Agreement:

a. The Department reserves the right to establish the amount and application of retainage on the work performed under this Agreement up to the maximum percentage described in Attachment 2, Special Terms and Conditions. Retainage may be withheld from each payment to Grantee pending satisfactory completion of work and approval of all deliverables.

b. If Grantee fails to perform the requested work or fails to perform the work in a satisfactory manner, Grantee shall forfeit its right to payment of the retainage associated with the work. Failure to perform includes, but is not limited to, failure to submit the required deliverables or failure to provide adequate documentation that the work was actually performed. The Department shall provide written notification to Grantee of the failure to perform that shall result in retainage forfeiture. If the Grantee does not correct the failure to perform within the timeframe stated in Department's notice, the retainage will be forfeited to Department.

c. No retainage shall be released or paid for incomplete work while this Agreement is suspended.

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d. Except as otherwise provided above, Grantee shall be paid the retainage associated with the work, provided Grantee has completed the work and submits an invoice for retainage held in accordance with the invoicing procedures under this Agreement.

12. Insurance.

a. Insurance Requirements for Sub-Grantees and/or Subcontractors. The Grantee shall require its sub-grantees and/or subcontractors, if any, to maintain insurance coverage of such types and with such terms and limits as described in this Agreement. The Grantee shall require all its sub-grantees and/or subcontractors, if any, to make compliance with the insurance requirements of this Agreement a condition of all contracts that are related to this Agreement. Sub-grantees and/or subcontractors must provide proof of insurance upon request.

b. Deductibles. The Department shall be exempt from, and in no way liable for, any sums of money representing a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Grantee providing such insurance.

c. Proof of Insurance. Upon execution of this Agreement, Grantee shall provide Department documentation demonstrating the existence and amount for each type of applicable insurance coverage ***prior to*** performance of any work under this Agreement. Upon receipt of written request from Department, Grantee shall furnish Department with proof of applicable insurance coverage by standard form certificates of insurance, a self-insured authorization, or other certification of self-insurance.

d. Duty to Maintain Coverage. In the event that any applicable coverage is cancelled by the insurer for any reason, or if Grantee cannot get adequate coverage, Grantee shall immediately notify Department of such cancellation and shall obtain adequate replacement coverage conforming to the requirements herein and provide proof of such replacement coverage within ten (10) days after the cancellation of coverage.

e. Insurance Trust. If the Grantee's insurance is provided through an insurance trust, the Grantee shall instead add the Department of Environmental Protection, its employees, and officers as an additional covered party everywhere the Agreement requires them to be added as an additional insured.

13. Termination.

a. Termination for Convenience. When it is in the State's best interest, Department may, at its sole discretion, terminate the Agreement in whole or in part by giving 30 days' written notice to Grantee. The Department shall notify Grantee of the termination for convenience with instructions as to the effective date of termination or the specific stage of work at which the Agreement is to be terminated. The Grantee must submit all invoices for work to be paid under this Agreement within thirty (30) days of the effective date of termination. The Department shall not pay any invoices received after thirty (30) days of the effective date of termination.

b. Termination for Cause. The Department may terminate this Agreement if any of the events of default described in the Events of Default provisions below occur or in the event that Grantee fails to fulfill any of its other obligations under this Agreement. If, after termination, it is determined that Grantee was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of Department. The rights and remedies of Department in this clause are in addition to any other rights and remedies provided by law or under this Agreement.

c. Grantee Obligations upon Notice of Termination. After receipt of a notice of termination or partial termination unless as otherwise directed by Department, Grantee shall not furnish any service or deliverable on the date, and to the extent specified, in the notice. However, Grantee shall continue work on any portion of the Agreement not terminated. If the Agreement is terminated before performance is completed, Grantee shall be paid only for that work satisfactorily performed for which costs can be substantiated. The Grantee shall not be entitled to recover any cancellation charges or lost profits.

d. Continuation of Prepaid Services. If Department has paid for any services prior to the expiration, cancellation, or termination of the Agreement, Grantee shall continue to provide Department with those services for which it has already been paid or, at Department's discretion, Grantee shall provide a refund for services that have been paid for but not rendered.

e. Transition of Services Upon Termination, Expiration, or Cancellation of the Agreement. If services provided under the Agreement are being transitioned to another provider(s), Grantee shall assist in the smooth transition of Agreement services to the subsequent provider(s). This requirement is at a minimum an affirmative obligation to cooperate with the new provider(s), however additional requirements may be outlined in the Grant Work Plan. The Grantee shall not perform any services after Agreement expiration or termination, except as necessary to complete the transition or continued portion of the Agreement, if any.

14. Notice of Default.

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If Grantee defaults in the performance of any covenant or obligation contained in the Agreement, including, any of the events of default, Department shall provide notice to Grantee and an opportunity to cure that is reasonable under the circumstances. This notice shall state the nature of the failure to perform and provide a time certain for correcting the failure. The notice will also provide that, should the Grantee fail to perform within the time provided, Grantee will be found in default, and Department may terminate the Agreement effective as of the date of receipt of the default notice.

15. Events of Default.

Provided such failure is not the fault of Department or outside the reasonable control of Grantee, the following non-exclusive list of events, acts, or omissions, shall constitute events of default:

a. The commitment of any material breach of this Agreement by Grantee, including failure to timely deliver a material deliverable, failure to perform the minimal level of services required for a deliverable, discontinuance of the performance of the work, failure to resume work that has been discontinued within a reasonable time after notice to do so, or abandonment of the Agreement;
b. The commitment of any material misrepresentation or omission in any materials, or discovery by the Department of such, made by the Grantee in this Agreement or in its application for funding;
c. Failure to submit any of the reports required by this Agreement or having submitted any report with incorrect, incomplete, or insufficient information;
d. Failure to honor any term of the Agreement;
e. Failure to abide by any statutory, regulatory, or licensing requirement, including an entry of an order revoking the certificate of authority granted to the Grantee by a state or other licensing authority;
f. Failure to pay any and all entities, individuals, and furnishing labor or materials, or failure to make payment to any other entities as required by this Agreement;
g. Employment of an unauthorized alien in the performance of the work, in violation of Section 274 (A) of the Immigration and Nationality Act;
h. Failure to maintain the insurance required by this Agreement;
i. One or more of the following circumstances, uncorrected for more than thirty (30) days unless, within the specified 30-day period, Grantee (including its receiver or trustee in bankruptcy) provides to Department adequate assurances, reasonably acceptable to Department, of its continuing ability and willingness to fulfill its obligations under the Agreement:
    i. Entry of an order for relief under Title 11 of the United States Code;
    ii. The making by Grantee of a general assignment for the benefit of creditors;
    iii. The appointment of a general receiver or trustee in bankruptcy of Grantee's business or property; and/or
    iv. An action by Grantee under any state insolvency or similar law for the purpose of its bankruptcy, reorganization, or liquidation.

16. Suspension of Work.

The Department may, in its sole discretion, suspend any or all activities under the Agreement, at any time, when it is in the best interest of the State to do so. The Department shall provide Grantee written notice outlining the particulars of suspension. Examples of reasons for suspension include, but are not limited to, budgetary constraints, declaration of emergency, or other such circumstances. After receiving a suspension notice, Grantee shall comply with the notice. Within 90 days, or any longer period agreed to by the parties, Department shall either: (1) issue a notice authorizing resumption of work, at which time activity shall resume; or (2) terminate the Agreement. If the Agreement is terminated after 30 days of suspension, the notice of suspension shall be deemed to satisfy the thirty (30) days' notice required for a notice of termination for convenience. Suspension of work shall not entitle Grantee to any additional compensation.

17. Force Majeure.

The Grantee shall not be responsible for delay resulting from its failure to perform if neither the fault nor the negligence of Grantee or its employees or agents contributed to the delay and the delay is due directly to acts of God, wars, acts of public enemies, strikes, fires, floods, or other similar cause wholly beyond Grantee's control, or for any of the foregoing that affect subcontractors or suppliers if no alternate source of supply is available to Grantee. In case of any delay Grantee believes is excusable, Grantee shall notify Department in writing of the delay or potential delay and describe the cause of the delay either (1) within ten days after the cause that creates or will create the delay first arose, if Grantee could reasonably foresee that a delay could occur as a result; or (2) if delay is not reasonably foreseeable, within five days after the date Grantee first had reason to believe that a delay could result. **THE FOREGOING SHALL CONSTITUTE THE GRANTEE'S SOLE REMEDY OR EXCUSE WITH RESPECT**

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TO DELAY. Providing notice in strict accordance with this paragraph is a condition precedent to such remedy. No claim for damages, other than for an extension of time, shall be asserted against Department. The Grantee shall not be entitled to an increase in the Agreement price or payment of any kind from Department for direct, indirect, consequential, impact or other costs, expenses or damages, including but not limited to costs of acceleration or inefficiency, arising because of delay, disruption, interference, or hindrance from any cause whatsoever. If performance is suspended or delayed, in whole or in part, due to any of the causes described in this paragraph, after the causes have ceased to exist Grantee shall perform at no increased cost, unless Department determines, in its sole discretion, that the delay will significantly impair the value of the Agreement to Department, in which case Department may: (1) accept allocated performance or deliveries from Grantee, provided that Grantee grants preferential treatment to Department with respect to products subjected to allocation; (2) contract with other sources (without recourse to and by Grantee for the related costs and expenses) to replace all or part of the products or services that are the subject of the delay, which purchases may be deducted from the Agreement quantity; or (3) terminate Agreement in whole or in part.

18. Indemnification.

a. The Grantee shall be fully liable for the actions of its agents, employees, partners, or subcontractors and shall fully indemnify, defend, and hold harmless Department and its officers, agents, and employees, from suits, actions, damages, and costs of every name and description arising from or relating to:
    i. personal injury and damage to real or personal tangible property alleged to be caused in whole or in part by Grantee, its agents, employees, partners, or subcontractors; provided, however, that Grantee shall not indemnify for that portion of any loss or damages proximately caused by the negligent act or omission of Department;
    ii. the Grantee's breach of this Agreement or the negligent acts or omissions of Grantee.

b. The Grantee's obligations under the preceding paragraph with respect to any legal action are contingent upon Department giving Grantee: (1) written notice of any action or threatened action; (2) the opportunity to take over and settle or defend any such action at Grantee's sole expense; and (3) assistance in defending the action at Grantee's sole expense. The Grantee shall not be liable for any cost, expense, or compromise incurred or made by Department in any legal action without Grantee's prior written consent, which shall not be unreasonably withheld.

c. Notwithstanding sections a. and b. above, the following is the sole indemnification provision that applies to Grantees that are governmental entities: Each party hereto agrees that it shall be solely responsible for the negligent or wrongful acts of its employees and agents. However, nothing contained herein shall constitute a waiver by either party of its sovereign immunity or the provisions of section 768.28, F.S. Further, nothing herein shall be construed as consent by a state agency or subdivision of the State to be sued by third parties in any matter arising out of any contract or this Agreement.

d. No provision in this Agreement shall require Department to hold harmless or indemnify Grantee, insure or assume liability for Grantee's negligence, waive Department's sovereign immunity under the laws of Florida, or otherwise impose liability on Department for which it would not otherwise be responsible. Any provision, implication or suggestion to the contrary is null and void.

19. Limitation of Liability.

The Department's liability for any claim arising from this Agreement is limited to compensatory damages in an amount no greater than the sum of the unpaid balance of compensation due for goods or services rendered pursuant to and in compliance with the terms of the Agreement. Such liability is further limited to a cap of $100,000.

20. Remedies.

Nothing in this Agreement shall be construed to make Grantee liable for force majeure events. Nothing in this Agreement, including financial consequences for nonperformance, shall limit Department's right to pursue its remedies for other types of damages under the Agreement, at law or in equity. The Department may, in addition to other remedies available to it, at law or in equity and upon notice to Grantee, retain such monies from amounts due Grantee as may be necessary to satisfy any claim for damages, penalties, costs and the like asserted by or against it.

21. Waiver.

The delay or failure by Department to exercise or enforce any of its rights under this Agreement shall not constitute or be deemed a waiver of Department's right thereafter to enforce those rights, nor shall any single or partial exercise of any such right preclude any other or further exercise thereof or the exercise of any other right.

22. Statutory Notices Relating to Unauthorized Employment and Subcontracts.

a. The Department shall consider the employment by any Grantee of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If Grantee/subcontractor knowingly employs unauthorized

SAMPLE CONSTRUCTION AGREEMENT

aliens, such violation shall be cause for unilateral cancellation of this Agreement. The Grantee shall be responsible for including this provision in all subcontracts with private organizations issued as a result of this Agreement.

b. Pursuant to sections 287.133, 287.134, and 287.137 F.S., the following restrictions apply to persons placed on the convicted vendor list, discriminatory vendor list, or the antitrust violator vendor list:

i. Public Entity Crime. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a Grantee, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in section 287.017, F.S., for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

ii. Discriminatory Vendors. An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.

iii. Antitrust Violator Vendors. A person or an affiliate who has been placed on the antitrust violator vendor list following a conviction or being held civilly liable for an antitrust violation may not submit a bid, proposal, or reply on any contract to provide any good or services to a public entity; may not submit a bid, proposal, or reply on any contract with a public entity for the construction or repair of a public building or public work; may not submit a bid, proposal, or reply on leases of real property to a public entity; may not be awarded or perform work as a Grantee, supplier, subcontractor, or consultant under a contract with a public entity; and may not transact new business with a public entity.

iv. Notification. The Grantee shall notify Department if it or any of its suppliers, subcontractors, or consultants have been placed on the convicted vendor list, the discriminatory vendor list, or antitrust violator vendor list during the life of the Agreement. The Florida Department of Management Services is responsible for maintaining the discriminatory vendor list and the antitrust violator vendor list and posts the list on its website. Questions regarding the discriminatory vendor list or antitrust violator vendor list may be directed to the Florida Department of Management Services, Office of Supplier Diversity, at (850) 487-0915.

23. Compliance with Federal, State and Local Laws.

a. The Grantee and all its agents shall comply with all federal, state and local regulations, including, but not limited to, nondiscrimination, wages, social security, workers' compensation, licenses, and registration requirements. The Grantee shall include this provision in all subcontracts issued as a result of this Agreement.

b. No person, on the grounds of race, creed, color, religion, national origin, age, gender, or disability, shall be excluded from participation in; be denied the proceeds or benefits of; or be otherwise subjected to discrimination in performance of this Agreement.

c. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida.

d. Any dispute concerning performance of the Agreement shall be processed as described herein. Jurisdiction for any damages arising under the terms of the Agreement will be in the courts of the State, and venue will be in the Second Judicial Circuit, in and for Leon County. Except as otherwise provided by law, the parties agree to be responsible for their own attorney fees incurred in connection with disputes arising under the terms of this Agreement.

24. Build America, Buy America Act (BABA) - Infrastructure Projects with Federal Funding.
This provision does not apply to Agreements that are wholly funded by Coronavirus State and Local Fiscal Recovery Funds under the American Rescue Plan Act. Also, this provision does not apply where there is a valid waiver in place. However, the provision may apply to funds expended before the waiver or after expiration of the waiver.

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If applicable, Recipients or Subrecipients of an award of Federal financial assistance from a program for infrastructure are required to comply with the Build America, Buy America Act (BABA), including the following provisions:

a. All iron and steel used in the project are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;

b. All manufactured products used in the project are produced in the United States-this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and

c. All construction materials are manufactured in the United States-this means that all manufacturing processes for the construction material occurred in the United States.

The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

25. Investing in America

Grantees of an award for construction projects in whole or in part by the Bipartisan Infrastructure Law or the Inflation Reduction Act, including the following provision:

a. Signage Requirements

a. Investing in America Emblem: The recipient will ensure that a sign is placed at construction sites supported in whole or in part by this award displaying the official Investing in America emblem and must identify the project as a "project funded by President Biden's Bipartisan Infrastructure Law" or "project funded by President Biden's Inflation Reduction Act" as applicable. The sign must be placed at construction sites in an easily visible location that can be directly linked to the work taking place and must be maintained in good condition throughout the construction period.

The recipient will ensure compliance with the guidelines and design specifications provided by EPA for using the official Investing in America emblem available at: https://www.epa.gov/invest/investing-america-signage.

b. Procuring Signs: Consistent with section 6002 of RCRA, 42 U.S.C. 6962, and 2 CFR 200.323, recipients are encouraged to use recycled or recovered materials when procuring signs. Signage costs are considered an allowable cost under this assistance agreement provided that the costs associated with signage are reasonable. Additionally, to increase public awareness of projects serving communities where English is not the predominant language, recipients are encouraged to translate the language on signs (excluding the official Investing in America emblem or EPA logo or seal) into the appropriate non-English language(s). The costs of such translation are allowable, provided the costs are reasonable.

26. Scrutinized Companies.

a. Grantee certifies that it is not on the Scrutinized Companies that Boycott Israel List or engaged in a boycott of Israel. Pursuant to section 287.135, F.S., the Department may immediately terminate this Agreement at its sole option if the Grantee is found to have submitted a false certification; or if the Grantee is placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of the Agreement.

b. If this Agreement is for more than one million dollars, the Grantee certifies that it is also not on the Scrutinized Companies with Activities in Sudan, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria as identified in section 287.135, F.S. Pursuant to section 287.135, F.S., the Department may immediately terminate this Agreement at its sole option if the Grantee is found to have submitted a false certification; or if the Grantee is placed on the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria during the term of the Agreement.

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c. As provided in subsection 287.135(8), F.S., if federal law ceases to authorize these contracting prohibitions, then they shall become inoperative.

27. Lobbying and Integrity.

The Grantee agrees that no funds received by it under this Agreement will be expended for the purpose of lobbying the Legislature or a State agency pursuant to section 216.347, F.S., except that pursuant to the requirements of section 287.058(6), F.S., during the term of any executed agreement between Grantee and the State, Grantee may lobby the executive or legislative branch concerning the scope of services, performance, term, or compensation regarding that agreement. The Grantee shall comply with sections 11.062 and 216.347, F.S.

28. Record Keeping.

The Grantee shall maintain books, records and documents directly pertinent to performance under this Agreement in accordance with United States generally accepted accounting principles (US GAAP) consistently applied. The Department, the State, or their authorized representatives shall have access to such records for audit purposes during the term of this Agreement and for five (5) years following the completion date or termination of the Agreement. In the event that any work is subcontracted, Grantee shall similarly require each subcontractor to maintain and allow access to such records for audit purposes. Upon request of Department's Inspector General, or other authorized State official, Grantee shall provide any type of information the Inspector General deems relevant to Grantee's integrity or responsibility. Such information may include, but shall not be limited to, Grantee's business or financial records, documents, or files of any type or form that refer to or relate to Agreement. The Grantee shall retain such records for the longer of: (1) three years after the expiration of the Agreement; or (2) the period required by the General Records Schedules maintained by the Florida Department of State (available at: http://dos.myflorida.com/library-archives/records-management/general-records-schedules/).

29. Audits.

a. Inspector General. The Grantee understands its duty, pursuant to section 20.055(5), F.S., to cooperate with the inspector general in any investigation, audit, inspection, review, or hearing. The Grantee will comply with this duty and ensure that its sub-grantees and/or subcontractors issued under this Agreement, if any, impose this requirement, in writing, on its sub-grantees and/or subcontractors, respectively.

b. Physical Access and Inspection. Department personnel shall be given access to and may observe and inspect work being performed under this Agreement, with reasonable notice and during normal business hours, including by any of the following methods:
   i. Grantee shall provide access to any location or facility on which Grantee is performing work, or storing or staging equipment, materials or documents;
   ii. Grantee shall permit inspection of any facility, equipment, practices, or operations required in performance of any work pursuant to this Agreement; and,
   iii. Grantee shall allow and facilitate sampling and monitoring of any substances, soils, materials or parameters at any location reasonable or necessary to assure compliance with any work or legal requirements pursuant to this Agreement.

c. Special Audit Requirements. The Grantee shall comply with the applicable provisions contained in Attachment 5, Special Audit Requirements. Each amendment that authorizes a funding increase or decrease shall include an updated copy of Exhibit 1, to Attachment 5. If Department fails to provide an updated copy of Exhibit 1 to include in each amendment that authorizes a funding increase or decrease, Grantee shall request one from the Department's Grants Manager. The Grantee shall consider the type of financial assistance (federal and/or state) identified in Attachment 5, Exhibit 1 and determine whether the terms of Federal and/or Florida Single Audit Act Requirements may further apply to lower tier transactions that may be a result of this Agreement. For federal financial assistance, Grantee shall utilize the guidance provided under 2 CFR §200.331 for determining whether the relationship represents that of a subrecipient or vendor. For State financial assistance, Grantee shall utilize the form entitled "Checklist for Nonstate Organizations Recipient/Subrecipient vs Vendor Determination" (form number DFS-A2-NS) that can be found under the "Links/Forms" section appearing at the following website: https:\\apps.fldfs.com\fsaa.

d. Proof of Transactions. In addition to documentation provided to support cost reimbursement as described herein, Department may periodically request additional proof of a transaction to evaluate the appropriateness of costs to the Agreement pursuant to State guidelines (including cost allocation guidelines) and federal, if applicable. Allowable costs and uniform administrative requirements for federal programs can be found under 2 CFR 200. The Department may also request a cost allocation plan in support of its multipliers (overhead, indirect, general administrative costs, and fringe benefits). The Grantee must provide the additional proof within thirty (30) days of such request.

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e. No Commingling of Funds. The accounting systems for all Grantees must ensure that these funds are not commingled with funds from other agencies. Funds from each agency must be accounted for separately. Grantees are prohibited from commingling funds on either a program-by-program or a project-by-project basis. Funds specifically budgeted and/or received for one project may not be used to support another project. Where a Grantee's, or subrecipient's, accounting system cannot comply with this requirement, Grantee, or subrecipient, shall establish a system to provide adequate fund accountability for each project it has been awarded.

i. If Department finds that these funds have been commingled, Department shall have the right to demand a refund, either in whole or in part, of the funds provided to Grantee under this Agreement for non-compliance with the material terms of this Agreement. The Grantee, upon such written notification from Department shall refund, and shall forthwith pay to Department, the amount of money demanded by Department. Interest on any refund shall be calculated based on the prevailing rate used by the State Board of Administration. Interest shall be calculated from the date(s) the original payment(s) are received from Department by Grantee to the date repayment is made by Grantee to Department.

ii. In the event that the Grantee recovers costs, incurred under this Agreement and reimbursed by Department, from another source(s), Grantee shall reimburse Department for all recovered funds originally provided under this Agreement and interest shall be charged for those recovered costs as calculated on from the date(s) the payment(s) are recovered by Grantee to the date repayment is made to Department.

iii. Notwithstanding the requirements of this section, the above restrictions on commingling funds do not apply to agreements where payments are made purely on a cost reimbursement basis.

30. Conflict of Interest.

The Grantee covenants that it presently has no interest and shall not acquire any interest which would conflict in any manner or degree with the performance of services required.

31. Independent Contractor.

The Grantee is an independent contractor and is not an employee or agent of Department.

32. Subcontracting.

a. Unless otherwise specified in the Special Terms and Conditions, all services contracted for are to be performed solely by Grantee.

b. The Department may, for cause, require the replacement of any Grantee employee, subcontractor, or agent. For cause, includes, but is not limited to, technical or training qualifications, quality of work, change in security status, or non-compliance with an applicable Department policy or other requirement.

c. The Department may, for cause, deny access to Department's secure information or any facility by any Grantee employee, subcontractor, or agent.

d. The Department's actions under paragraphs b. or c. shall not relieve Grantee of its obligation to perform all work in compliance with the Agreement. The Grantee shall be responsible for the payment of all monies due under any subcontract. The Department shall not be liable to any subcontractor for any expenses or liabilities incurred under any subcontract and Grantee shall be solely liable to the subcontractor for all expenses and liabilities incurred under any subcontract.

e. The Department will not deny Grantee's employees, subcontractors, or agents access to meetings within the Department's facilities, unless the basis of Department's denial is safety or security considerations.

f. The Department supports diversity in its procurement program and requests that all subcontracting opportunities afforded by this Agreement embrace diversity enthusiastically. The award of subcontracts should reflect the full diversity of the citizens of the State. A list of minority-owned firms that could be offered subcontracting opportunities may be obtained by contacting the Office of Supplier Diversity at (850) 487-0915.

g. The Grantee shall not be liable for any excess costs for a failure to perform, if the failure to perform is caused by the default of a subcontractor at any tier, and if the cause of the default is completely beyond the control of both Grantee and the subcontractor(s), and without the fault or negligence of either, unless the subcontracted products or services were obtainable from other sources in sufficient time for Grantee to meet the required delivery schedule.

33. Guarantee of Parent Company.

If Grantee is a subsidiary of another corporation or other business entity, Grantee asserts that its parent company will guarantee all of the obligations of Grantee for purposes of fulfilling the obligations of Agreement. In the event Grantee is sold during the period the Agreement is in effect, Grantee agrees that it will be a requirement of sale that the new parent company guarantee all of the obligations of Grantee.

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34. Survival.
The respective obligations of the parties, which by their nature would continue beyond the termination or expiration of this Agreement, including without limitation, the obligations regarding confidentiality, proprietary interests, and public records, shall survive termination, cancellation, or expiration of this Agreement.

35. Third Parties.
The Department shall not be deemed to assume any liability for the acts, failures to act or negligence of Grantee, its agents, servants, and employees, nor shall Grantee disclaim its own negligence to Department or any third party. This Agreement does not and is not intended to confer any rights or remedies upon any person other than the parties. If Department consents to a subcontract, Grantee will specifically disclose that this Agreement does not create any third-party rights. Further, no third parties shall rely upon any of the rights and obligations created under this Agreement.

36. Severability.
If a court of competent jurisdiction deems any term or condition herein void or unenforceable, the other provisions are severable to that void provision, and shall remain in full force and effect.

37. Grantee's Employees, Subcontractors and Agents.
All Grantee employees, subcontractors, or agents performing work under the Agreement shall be properly trained technicians who meet or exceed any specified training qualifications. Upon request, Grantee shall furnish a copy of technical certification or other proof of qualification. All employees, subcontractors, or agents performing work under Agreement must comply with all security and administrative requirements of Department and shall comply with all controlling laws and regulations relevant to the services they are providing under the Agreement.

38. Assignment.
The Grantee shall not sell, assign, or transfer any of its rights, duties, or obligations under the Agreement, or under any purchase order issued pursuant to the Agreement, without the prior written consent of Department. In the event of any assignment, Grantee remains secondarily liable for performance of the Agreement, unless Department expressly waives such secondary liability. The Department may assign the Agreement with prior written notice to Grantee of its intent to do so.

39. Compensation Report.
If this Agreement is a sole-source, public-private agreement or if the Grantee, through this agreement with the State, annually receive 50% or more of their budget from the State or from a combination of State and Federal funds, the Grantee shall provide an annual report, including the most recent IRS Form 990, detailing the total compensation for the entities' executive leadership teams. Total compensation shall include salary, bonuses, cashed-in leave, cash equivalents, severance pay, retirement benefits, deferred compensation, real-property gifts, and any other payout. The Grantee must also inform the Department of any changes in total executive compensation between the annual reports. All compensation reports must indicate what percent of compensation comes directly from the State or Federal allocations to the Grantee.

40. Disclosure of Gifts from Foreign Sources.
If the value of the grant under this Agreement is $100,000 or more, Grantee shall disclose to Department any current or prior interest of, any contract with, or any grant or gift received from a foreign country of concern, as defined in section 286.101, F.S., if such interest, contract, or grant or gift has a value of $50,000 or more and such interest existed at any time or such contract or grant or gift was received or in force at any time during the previous 5 years. Such disclosure shall include the name and mailing address of the disclosing entity, the amount of the contract or grant or gift or the value of the interest disclosed, the applicable foreign country of concern and, if applicable, the date of termination of the contract or interest, the date of receipt of the grant or gift, and the name of the agent or controlled entity that is the source or interest holder. If the disclosure requirement is applicable as described above, then within 1 year before applying for any grant, Grantee must also provide a copy of such disclosure to the Department of Financial Services.

41. Food Commodities.
To the extend authorized by federal law, the Department, its grantees, contractors and subcontractors shall give preference to food commodities grown or produced in this state when purchasing food commodities, including farm products as defined in section 823.14, F.S., of any class, variety, or use thereof in their natural state or as processed by a farm operation or processor for the purpose of marketing such product.

42. Anti-human Trafficking.
If the Grantee is a nongovernmental entity, the Grantee must provide the Department with an affidavit signed by an officer or a representative of the Grantee under penalty of perjury attesting that the Grantee does not use coercion for labor or services as defined in section 787.06, F.S.

43. Iron and Steel for Public Works Projects.

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If this Agreement funds a "public works project" as defined in section 255.0993, F.S., or the purchase of materials to be used in a public works project, any iron or steel permanently incorporated in the Project must be "produced in the United States," as defined in section 255.0993, F.S. This requirement does not apply if the Department determines that any of the following circumstances apply to the Project:

(1) iron or steel products produced in the United States are not produced in sufficient quantities, reasonably available, or of satisfactory quality;

(2) the use of iron or steel products produced in the United States will increase the total cost of the project by more than twenty percent (20%); or

(3) complying with this requirement is inconsistent with the public interest.

Further, this requirement does not prevent the Contractor's minimal use of foreign steel and iron materials if:

(1) such materials are incidental or ancillary to the primary product and are not separately identified in the project specifications; and

(2) the "cost" of such materials, as defined in section 255.0993, F.S., does not exceed one-tenth of one percent (1%) of the total Project Cost under this Agreement or $2,500, whichever is greater.

Electrical components, equipment, systems, and appurtenances, including supports, covers, shielding, and other appurtenances related to an electrical system that are necessary for operation or concealment (excepting transmission and distribution poles) are not considered to be iron or steel products and are, therefore, exempt from the requirements of this paragraph.

This provision shall be applied in a manner consistent with and may not be construed to impair the state's obligations under any international agreement.

44. Execution in Counterparts and Authority to Sign.

This Agreement, any amendments, and/or change orders related to the Agreement, may be executed in counterparts, each of which shall be an original and all of which shall constitute the same instrument. In accordance with the Electronic Signature Act of 1996, electronic signatures, including facsimile transmissions, may be used and shall have the same force and effect as a written signature. Each person signing this Agreement warrants that he or she is duly authorized to do so and to bind the respective party to the Agreement.

SAMPLE CONSTRUCTION AGREEMENT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Revised Special Terms and Conditions
AGREEMENT NO. 22FRP119

ATTACHMENT 2-A

These Special Terms and Conditions shall be read together with general terms outlined in the Standard Terms and Conditions, Attachment 1. Where in conflict, these more specific terms shall apply.

1. Scope of Work.
The Project funded under this Agreement is City of Fort Lauderdale Progresso Stormwater Improvements. The Project is defined in more detail in Attachment 3, Grant Work Plan.

2. Duration.
a. Reimbursement Period. The reimbursement period for this Agreement is the same as the term of the Agreement.
b. Extensions. There are extensions available for this Project.
c. Service Periods. Additional service periods may be added in accordance with 2.a above and are contingent upon proper and satisfactory technical and administrative performance by the Grantee and the availability of funding.

3. Payment Provisions.
a. Compensation. This is a cost reimbursement Agreement. The Grantee shall be compensated under this Agreement as described in Attachment 3.
b. Invoicing. Invoicing will occur as indicated in Attachment 3.
c. Advance Pay. Advance Pay is not authorized under this Agreement.

4. Cost Eligible for Reimbursement or Matching Requirements.
Reimbursement for costs or availability for costs to meet matching requirements shall be limited to the following budget categories, as defined in the Reference Guide for State Expenditures, as indicated:

Reimbursement	Match	Category
☐	☐	Salaries/Wages
		Overhead/Indirect/General and Administrative Costs:
☐	☐	a. Fringe Benefits, N/A.
☐	☐	b. Indirect Costs, N/A.
☒	☒	Contractual (Subcontractors)
☐	☐	Travel, in accordance with Section 112, F.S.
☐	☐	Equipment
☐	☐	Rental/Lease of Equipment
☐	☐	Miscellaneous/Other Expenses
☐	☐	Land Acquisition

5. Equipment Purchase.
No Equipment purchases shall be funded under this Agreement.

6. Land Acquisition.
There will be no Land Acquisitions funded under this Agreement.

7. Match Requirements
The Agreement requires at least a 50% match on the part of the Grantee. Therefore, the Grantee is responsible for providing $13,495,743 through cash or third party in-kind towards the work funded under this Agreement.

The Grantee may claim allowable project expenditures made Choose an item or after for purposes of meeting its match requirement as identified above.

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Each payment request submitted shall document all matching funds and/or match efforts (i.e., in-kind services) provided during the period covered by each request. For agreements funded solely with state funding or non-American Rescue Plan Act federal funding, the final payment will not be processed until the match requirement has been met.

If this Agreement is funded with any amount of federal American Rescue Plan Act funding, the Department may require that such federal funding be fully expended prior to utilizing requisite matching funds for Project costs. In such instance, Grantees subject to match requirements must demonstrate to the Department that the Grantee has designated the necessary amount of funds as match, which the Grantee certifies will be available for use in later phases of the Project, either after all federal funding has been expended or the federal deadline for expending American Rescue Plan Act funding has passed.

If, upon completion of this Project, actual Project costs are less than the total estimated Project costs, and there are no pending payment requests, the Grantee's required match may be reduced proportionately, as long as at least a 50% match of the actual total cost of the Project is provided by the Grantee and the reduced amount satisfies statutory and program requirements.

8. Insurance Requirements

Required Coverage. At all times during the Agreement the Grantee, at its sole expense, shall maintain insurance coverage of such types and with such terms and limits described below. The limits of coverage under each policy maintained by the Grantee shall not be interpreted as limiting the Grantee's liability and obligations under the Agreement. Grantee shall provide coverage through a self-insurance program established and operating under the laws of Florida. Additional insurance requirements for this Agreement may be required elsewhere in this Agreement, however the minimum insurance requirements applicable to this Agreement are:

a. Comprehensive General Liability Insurance.
The Grantee shall provide adequate comprehensive general liability insurance coverage and hold such liability insurance at all times during the Agreement. The minimum limits shall be $200,000 for each person and $300,000 per occurrence.

b. Commercial Automobile Insurance.
If the Grantee's duties include the use of a commercial vehicle, the Grantee shall maintain automobile liability, bodily injury, and property damage coverage. Insuring clauses for both bodily injury and property damage shall provide coverage on an occurrence basis. The minimum limits shall be as follows:

$200,000/300,000	Automobile Liability for Company-Owned Vehicles, if applicable
$200,000/300,000	Hired and Non-owned Automobile Liability Coverage

c. Workers' Compensation.
The Grantee shall comply with the workers' compensation requirements of Chapter 440, F.S.

d. Other Insurance. None.

9. Quality Assurance Requirements.

There are no special Quality Assurance requirements under this Agreement.

10. Retainage.

No retainage is required under this Agreement.

11. Subcontracting.

The Grantee may subcontract work under this Agreement without the prior written consent of the Department's Grant Manager except for certain fixed-price subcontracts pursuant to this Agreement, which require prior approval. The Grantee shall submit a copy of the executed subcontract to the Department prior to submitting any invoices for subcontracted work. Regardless of any subcontract, the Grantee is ultimately responsible for all work to be performed under this Agreement.

12. State-owned Land.

The work will not be performed on State-owned land.

SAMPLE CONSTRUCTION AGREEMENT

13. Office of Policy and Budget Reporting.
There are no special Office of Policy and Budget reporting requirements for this Agreement.

14. Common Carrier.

a. Applicable to contracts with a common carrier – firm/person/corporation that as a regular business transports people or commodities from place to place. If applicable, Contractor must also fill out and return PUR 1808 before contract execution. If Contractor is a common carrier pursuant to section 908.111(1)(a), Florida Statutes, the Department will terminate this contract immediately if Contractor is found to be in violation of the law or the attestation in PUR 1808.

b. Applicable to solicitations for a common carrier – Before contract execution, the winning Contractor(s) must fill out and return PUR 1808, and attest that it is not willfully providing any service in furtherance of transporting a person into this state knowing that the person unlawfully present in the United States according to the terms of the federal Immigration and Nationality Act, 8 U.S.C. ss. 1101 et seq. The Department will terminate a contract immediately if Contractor is found to be in violation of the law or the attestation in PUR 1808.

15. Financial Assistance and Payment of Invoices to Rural Communities or Rural Areas of Opportunity
This agreement does not provide federal or state financial assistance to a county or municipality that is a rural community or rural area of opportunity as those terms are defined in s. 288.0656(2).

16. Additional Terms.

a. Paragraph 8.j. of Attachment 1 is deleted and replaced with a new paragraph 8.j.:

A final payment request should be submitted to the Department no later than sixty (60) days following the expiration date of the Agreement to ensure the availability of funds for payment. However, if full or partial funding for this Project is provided by the federal American Rescue Plan Act (State and Local Fiscal Recovery Funds), as administered by the United States Department of the Treasury, a final payment request for any American Rescue Plan Act funding provided by this Agreement shall be submitted to the Department no later than October 31, 2026, unless an extension is granted by the Department in writing, to ensure the availability of funds and adequate time to process payment requests. If the Agreement or Task End Date is extended at any time, this payment request deadline shall still apply. All federal American Rescue Plan Act funds must be fully expended and reimbursed to Grantee Name no later than December 31, 2026, as the funds will no longer be available to the Department after that date. All work performed pursuant to the Grant Work Plan must be performed on or before the expiration date of this Agreement.

b. Paragraph 8.i. of Attachment 1 is deleted.

SAMPLE CONSTRUCTION AGREEMENT

ATTACHMENT 8-A
Revised Contract Provisions for Coronavirus State and Local Fiscal Recovery Funds (SLFRF) Agreements

The Department, as a Non-Federal Entity as defined by 2 CFR §200.69, shall comply with the following provisions, where applicable. For purposes of this Grant Agreement between the Department and the Grantee, the term "Recipient" shall mean "Grantee."

Further, the Department, as a pass-through entity, also requires the Grantee to pass on these requirements to all lower tier subrecipients/contractors, and to comply with the provisions of the award, the SLFRF implementing regulation, including applicable provisions of the OMB Uniform Guidance (2 CFR Part 200), and all associated terms and conditions. Therefore, Grantees must include these requirements in all related subcontracts and/or sub-awards. Grantees can include these requirements by incorporating this Attachment in the related subcontract and/or sub-awards, however for all such subcontracts and sub-awards, the Grantee shall assume the role of the Non-Federal Entity and the subrecipients shall assume the role of the Recipient.

2 CFR PART 200 APPENDIX 2 REQUIREMENTS

1. Administrative, Contractual, and Legal Remedies

The following provision is required if the Agreement is for more than $150,000. In addition to any of the remedies described elsewhere in the Agreement, if the Recipient materially fails to comply with the terms and conditions of this Contract, including any Federal or State statutes, rules, or regulations, applicable to this Contract, the Non-Federal Entity may take one or more of the following actions.

A. Temporarily withhold payments pending correction of the deficiency by the Recipient.
B. Disallow (that is, deny both use of funds and any applicable matching credit for) all or part of the cost of the activity or action not in compliance.
C. Wholly or partly suspend or terminate this Contract.
D. Take other remedies that may be legally available.

The remedies identified above, do not preclude the Recipient from being subject to debarment and suspension under Presidential Executive Orders 12549 and 12689. The Non-Federal entity shall have the right to demand a refund, either in whole or part, of the funds provided to the Recipient for noncompliance with the terms of this Agreement.

2. Termination for Cause and Convenience

Termination for Cause and Convenience are addressed elsewhere in the Agreement.

3. Equal Opportunity Clause

The following provision applies if the agreement meets the definition of "federally assisted construction contract" as defined by 41 CFR Part 60-1.3:

During the performance of this Agreement, the Recipient agrees as follows:

A. The Recipient will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Recipient will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:
   i. Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Recipient agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
B. The Recipient will, in all solicitations or advertisements for employees placed by or on behalf of the Recipient, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
C. The Recipient will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's

SAMPLE CONSTRUCTION AGREEMENT

essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Recipient's legal duty to furnish information.

D. The Recipient will send to each labor union or representative of workers with which he has a collective bargaining agreement or other Agreement or understanding, a notice to be provided advising the said labor union or workers' representatives of the Recipient's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

E. The Recipient will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

F. The Recipient will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

G. In the event of the Recipient's noncompliance with the nondiscrimination clauses of this Agreement or with any of the said rules, regulations, or orders, this Agreement may be canceled, terminated, or suspended in whole or in part and the Recipient may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

H. The Recipient will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Recipient will take such action with respect to any subcontractor purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

4. Contract Work Hours and Safety Standards Act

Where applicable, if the Agreement is in excess of $100,000 and involves the employment of mechanics or laborers, the Recipient must comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each Recipient must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

5. Rights to Inventions Made Under Agreement

If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the Non- Federal Entity or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the Non-Federal Entity or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

6. Clean air Act (42 U.S. C. 7401-7671q.), the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), and EPA Regulations

If the Agreement is in excess of $100,000, the Recipient shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control

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Act as amended (33 U.S.C. 1251-1387), and by the EPA (40 CFR Part 15). Violations must be reported to the Federal Awarding Agency and the Regional Office of the Environmental Protection Agency (EPA).

i. The Grantee shall include these requirements for the Clean Air Act and the Federal Water Pollution Act in each subcontract exceeding $100,000 financed in whole or in part with SLFRF funds.

7. Debarment and Suspension (Executive Orders 12549 and 12689)

The Recipient certifies that it is not listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 and 2 CF 1200 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension."

8. Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

The Recipient certifies that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. If applicable, the Recipient shall disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award, using form SF-LLL, available at: https://apply07.grants.gov/apply/forms/sample/SFLLL_1_2_P-V1.2.pdf.

i. Grantees who apply or bid for an award of $100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier, up to the recipient.

9. Procurement of Recovered Materials

The Recipient must comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act as described in 2 CFR part 200.322.

10. Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment

The Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to procure or obtain; extend or renew a contract to procure or obtain; or enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as partof any system. See Section 889 of Public Law 115-232 (National Defense Authorization Act 2019). Also, see 2 CFR 200.216 and 200.471.

11. Domestic Preferences for Procurement

The Recipients and subrecipients must, to the greatest extent practical, give preference to the purchase, acquisition, or use of goods, products, or materials produced in the United States in accordance with 2 CFR 200.322.

ADMINISTRATIVE

1. General Federal Regulations

Recipients shall comply with the regulations listed in 2 CFR 200, 48 CFR 31, and 40 U.S.C. 1101 *et seq.*

2. Rights to Patents and Inventions Made Under a Contract or Agreement

Rights to inventions made under this assistance agreement are subject to federal patent and licensing regulations, which are codified at Title 37 CFR Part 401 and Title 35 U.S.C. 200 through 212.

3. Compliance with the Trafficking Victims Protection Act of 2000 (2 CFR Part 175)

Recipients, their employees, subrecipients under this award, and subrecipients' employees may not:

A. Engage in severe forms of trafficking in persons during the period of time that the award is in effect;
B. Procure a commercial sex act during the period of time that the award is in effect; or
C. Use forced labor in the performance of the award or subawards under the award.

4. Whistleblower Protection

Recipients shall comply with U.S.C. §4712, Enhancement of Recipient and Subrecipient Employee Whistleblower Protection. This requirement applies to all awards issued after July 1, 2013 and effective December 14, 2016 has been permanently extended (Public Law (P.L.) 114-261).

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A. This award, related subawards, and related contracts over the simplified acquisition threshold and all employees working on this award, related subawards, and related contracts over the simplified acquisition threshold are subject to the whistleblower rights and remedies in the pilot program on award recipient employee whistleblower protections established at 41 U.S.C. 4712 by section 828 of the National Defense Authorization Act for Fiscal Year 2013 (P.L. 112-239).

B. Recipients, their subrecipients, and their contractors awarded contracts over the simplified acquisition threshold related to this award, shall inform their employees in writing, in the predominant language of the workforce, of the employee whistleblower rights and protections under 41 U.S.C. 4712.

C. The Recipient shall insert this clause, including this paragraph C, in all subawards and in contracts over the simplified acquisition threshold related to this award; best efforts should be made to include this clause, including this paragraph C in any subawards and contracts awarded prior to the effective date of this provision.

5. Notification of Termination (2 CFR § 200.340)

In accordance with 2 CFR § 200.340, in the event that the Agreement is terminated prior to the end of the period of performance due to the Recipient's or subcontractor's material failure to comply with Federal statutes, regulations or the terms and conditions of this Agreement or the Federal award, the termination shall be reported to the Office of Management and Budget (OMB)-designated integrity and performance system, accessible through System for Award Management (SAM) currently the Federal Awardee Performance and Integrity Information System (FAPIIS). The Non-Federal Entity will notify the Recipient of the termination and the Federal requirement to report the termination in FAPIIS. See 2 CFR § 200.340 for the requirements of the notice and the Recipient's rights upon termination and following termination.

6. Additional Lobbying Requirements

A. The Recipient certifies that no funds provided under this Agreement have been used or will be used to engage in the lobbying of the Federal Government or in litigation against the United States unless authorized under existing law.

B. The Lobbying Disclosure Act of 1995, as amended (2 U.S.C. §1601 et seq.), prohibits any organization described in Section 501(c)(4) of the Internal Revenue Code, from receiving federal funds through an award, grant (and/or subgrant) or loan unless such organization warrants that it does not, and will not engage in lobbying activities prohibited by the Act as a special condition of such an award, grant (and/or subgrant), or loan. This restriction does not apply to loans made pursuant to approved revolving loan programs or to contracts awarded using proper procurement procedures.

C. Pursuant to 2 CFR §200.450 and 2 CFR §200.454(e), the Recipient is hereby prohibited from using funds provided by this Agreement for membership dues to any entity or organization engaged in lobbying activities.

7. Increasing Seat Belt Use in the United States

Pursuant to Executive Order 13043, 62 FR 19217 (Apr. 18, 1997), Grantee is encouraged to adopt and enforce on-the-job seat belt policies and programs for its employees when operating company-owned, rented or personally owned vehicles.

8. Reducing Text Messaging While Driving

Pursuant to Executive Order 13513, 74 FR 51225 (Oct. 6, 2009), Grantee is encouraged to adopt and enforce policies that ban text messaging while driving and establish workplace safety policies to decrease accidents caused by distracted drivers.

9. Uniform Relocation Assistance and Real Property Acquisitions Act of 1970

Where applicable, 42 U.S.C. §§ 4601-4655 and implementing regulations apply to this Agreement.

COMPLIANCE WITH ASSURANCES

1. Assurances

Recipients shall comply with all applicable assurances made by the Department or the Recipient to the Federal Government during the Grant application process.

FEDERAL REPORTING REQUIREMENTS

1. FFATA

Grant Recipients awarded a new Federal grant greater than or equal to $30,000 awarded on or after October1, 2015, are subject to the FFATA the Federal Funding Accountability and Transparency Act ("FFATA") of 2006. The FFATA legislation requires that information on federal awards (federal financial assistance and expenditures) be made available to the public via a single, searchable website, which is www.USASpending.gov.

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The Grantee agrees to provide the information necessary, within one (1) month of execution, for the Department to comply with this requirement.

DEPARTMENT OF TREASURY-SPECIFIC

1. Civil Rights Compliance

Recipients of Federal financial assistance from the Treasury are required to meet legal requirements relating to nondiscrimination and nondiscriminatory use of Federal funds. Those requirements include ensuring that entities receiving Federal financial assistance from the Treasury do not deny benefits or services or otherwise discriminate on the basis of race, color, national origin, (including limited English proficiency), disability, age, or sex (including sexual orientation and gender identity), in accordance with the following: Title VI of Civil Rights Acts of 1973 (Section 504), Public Law 93-112, as amended by Public Law 93-516, 29 U.S.C. 794; Title IX of the Education Amendments of 1972 (Title IX), 20 U.S.C. 1681 et seq., and the Department's implementing regulations, 31 CFR 28; Age Discrimination Act of 1975, Public Law 94-135, 42 U.S.C. 6101 et seq., and the Department of Treasury implementing regulations at 31 CFR part 23.

The Department of Treasury will request information on recipients' compliance with Title VI of the Civil Rights Act of 1964, as applicable, on an annual basis. This information may include a narrative descripting the recipient's compliance with Title VI, along with other questions and assurances.

SLFRF-SPECIFIC

1. Period of Performance

The Department must obligate all funds from SLFRF by December 31, 2024, and all such obligated funds must be expended by December 31, 2026. As such, the Contractor must submit all invoices by September 30, 2026, unless approved in writing by the Department.

2. Equipment and Real Property Management

Any purchase of equipment or real property with SLFRF funds must be consistent with the Uniform Guidance at 2 CFR Part 200, Subpart D. Equipment and real property acquired under this program must be used for the originally authorized purpose. Consistent with 2 CFR 200.311 and 2 CFR 200.313, any equipment or real property acquired using SLFRF funds shall vest in the non-Federal entity. Any acquisition and maintenance of equipment or real property must also be in compliance with relevant laws and regulations.

SLFRF INFRASTRUCTURE PROJECTS

For all infrastructure projects, the Grantee shall provide the following project information on a quarterly basis to the Department:

i. Projected/actual construction start date (month/year)
ii. Projected/actual initiation of operation date (month/year)
iii. Location details

SLFRF INFRASTRUCTURE PROJECTS OVER $10 MILLION

For infrastructure projects over $10 million, the following provisions apply:

1. Wage Certification

Grantees may provide a certification that all laborers and mechanics employed by Grantee in the performance of such project are paid wages at the rates not less than those prevailing, as determined by the U.S. Secretary of Labor in accordance with the Davis-Bacon Act, for the corresponding classes of laborers and mechanics employed projected of a character similar to the contract work in the civil subdivision of Florida in which the work is to be performed. If the Grantee does not provide such certification, the Grantee must provide a project employment and local impact report detailing:

i. The number of employees of contractors and sub-contractors working on the project;
ii. The number of employees on the project hired directly and hired through a third party;
iii. The wages and benefits of workers on the project by classification; and
iv. Whether those wages are at rates less than those prevailing.

Grantee must maintain sufficient records to substantiate this information upon request.

2. Project Labor Agreements

Grantees may provide a certification that the project includes a project labor agreement, meaning a pre-hire

SAMPLE CONSTRUCTION AGREEMENT

collective bargaining agreement consistent with the section 8(f) of the National Labor Relations Act (29 U.S.C. 158(f)). If the Grantee does not provide such certification, the Grantee must provide a project workforce continuity plan, detailing:

i. How the Grantee will ensure the project has ready access to a sufficient supply of appropriately skilled and unskilled labor to ensure high-quality construction throughout the life of the project;
ii. How the Grantee will minimize risks of labor disputes and disruptions that would jeopardize timeliness and cost-effectiveness of the project;
iii. How the Grantee will provide a safe and healthy workplace that avoids delays and costs associatedwith workplace illnesses, injuries, and fatalities;
iv. Whether workers on the project will receive wages and benefits that will secure and appropriately skilled workforce in the context of the local or regional labor market; and
v. Whether the project has completed a labor agreement.

3. Other Reporting Requirements

Grantees must report whether the project prioritizes local hires and whether the project has Community Benefit Agreement, with a description of any such agreement, if applicable.

SLFRF WATER & SEWER PROJECTS

For water and sewer projects, Grantees shall provide the following information to the Department once the project starts, as appliable:

i. National Pollutant Discharge Elimination System (NPDES) Permit Number, for projects aligned with the Clean Water State Revolving Fund

ii. Public Water System (PWS) ID number, for projects aligned with the Drinking Water State Revolving Fund.

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CITY OF FORT LAUDERDALE

PROJECT # 12082

VICTORIA PARK STORMWATER IMPROVEMENTS

FORT LAUDERDALE, FLORIDA

MARCH 2025
FINAL BID SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

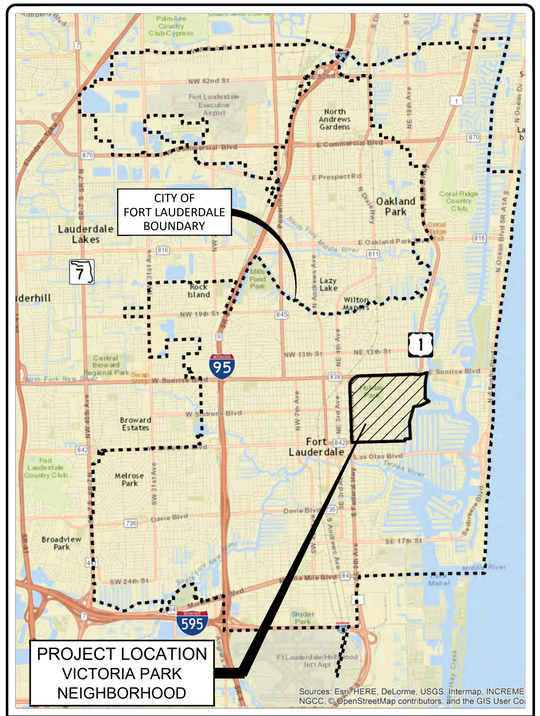
cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!



LOCATION SKETCH

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS	MAYOR
JOHN HERBST	COMMISSIONER - DISTRICT I
STEVEN GLASSMAN	COMMISSIONER - DISTRICT II
PAMELA BEASLEY-PITTMAN	COMMISSIONER - DISTRICT III
BEN SORENSEN	COMMISSIONER - DISTRICT IV

PROJECT MANAGER	JOB TITLE	PHONE NO.
DEBORAH CUEVA, PE, MPA	PROJECT MANAGER II	954-828-5807

DATE: 03/25/25

CAD FILE: 12082-GN-00

DRAWING FILE No.: 4-144-88

ISSUED FOR BID

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LIST OF DRAWINGS

SHEET NO. GN-01
SHT # 2
TOTAL: 233
CAD FILE: 12082-MULTI-GENL
DRAWING FILE NO. 4-144-88

ABBREVIATIONS

VALVE AND FITTING ABBREVIATIONS:

ARV	AIR RELIEF VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BV	BALL VALVE
CO	CLEAN OUT
CPLG	COUPLING
CV	CHECK VALVE
DV	DIAPHRAGM VALVE
EXP JT	EXPANSION JOINT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FLG	FLANGE
FS	FLOOR SINK
GV	GATE VALVE
HB	HOSE BIBB
HD	HUB DRAIN
ICV	IRRIGATION CONTROL VALVE
LR	LONG RADIUS
MJ	MECHANICAL JOINT
NPT	NATIONAL PIPE THREAD
PE	PLAIN END
PV	PLUG VALVE
PRV	PRESSURE RELIEF VALVE
RED	REDUCER
SOV	SOLENOID OPERATED VALVE
THD	THREADED
VAC	VACUUM

PIPING:

CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CU	COPPER OR CUBIC
DIP	DUCTILE IRON PIPE
GIP	GALVANIZED PIPE
GSP	GALVANIZED STEEL PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
IP	IRON PIPE
PCCP	PRECAST CONCRETE CYLINDER PIPE
PVC	POLYVINYLCHLORIDE
RCP	REINFORCED CONCRETE PIPE
SCP	SECONDARY CONTAINMENT PIPE
SS	STAINLESS STEEL PIPE

GENERAL

A	ARC DISTANCE
AB	ANCHOR BOLT
A/C	AIR CONDITIONER
ACU	AIR CONDENSATE UNIT
AL, ALUM	ALUMINUM
∝	ANGLE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BOTT	BOTTOM
BOW	BACK OF WALK
BP	BID PACKAGE
CA	CENTRAL ANGLE
CB	CATCH BASIN
CC	CENTER TO CENTER
CHK'D	CHECKERED
C.I.	CURB INLET
CJ	CONSTRUCTION JOINT
CL, ℄	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
COL	COLUMN
CO	COMPANY
CONC, C	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CP	CONCRETE POST
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISDIR	DIRECTION
CH	DISCHARGE
DMH	DRAIN MANHOLE
DN	DOWN
DR	DRAIN
DWL	DOWEL
DWG	DRAWING
EA	EACH
ECC	ECCENTRIC
EE	EACH END
EF	EACH FACE
EL, ELEV	ELEVATION
ELEC	ELECTRIC
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EQUIP	EQUIPMENT

GENERAL CONT.

ES	ELECTRICAL SERVICE
ESC	EROSION AND SEDIMENT CONTROL
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FDR	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FL	FLOOR
FM	FORCE MAIN
FND	FOUND
FP	FLAG POLE
FT	FOOT OR FEET
FTG	FOOTING OR FITTING
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GR	GRADE
H	HIGH
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH SERVICE
HWL	HIGH WATER LEVEL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
INFL	INFLUENT
INJ	INJECTION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IRRIG	IRRIGATION
IR	IRON ROD
ISO	ISOLATION
JCT	JUNCTION
JT	JOINT
LBS/FT	POUNDS PER FOOT
LG	LONG
LN	LINE
LP	LOW POINT OR LIGHT POLE
LR	LONG RADIUS
LWL	LOW WATER LEVEL
MANUF	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
MGD	MILLION GALLONS PER DAY

GENERAL CONT.

MH	MANHOLE
MIN	MINIMUM
MO	MASONRY OPENING
MOV	MOTOR OPERATED VALVE
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHW	OVERHEAD WIRES
OPNG	OPENING
P/L	PROPERTY LINE
PRB	POLLUTION RETARDANT BAFFLE
PS	PUMP STATION
PT	PRESSURE TREATED
R	RIM
RAD, R	RADIUS
RECIR	RECIRCULATION
RE	RIM ELEVATION
REHAB	REHABILITATION
REINF	REINFORCING
REQ'D	REQUIRED
R/W,	ROW RIGHT OF WAY
SECT, SEC	SECTION
SHT	SHEET
SLB	SIGNAL LIGHT BOX
SMH	STORMWATER MANHOLE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STIN	STORM INLET
STMH	STORM MANHOLE
STL	STEEL
STRUC	STRUCTURAL
SYMM	SYMMETRICAL
TBD	TO BE DETERMINED
TEMP	TEMPORARY
THK	THICK
TI	TEMPERATURE INDICATOR
TO	THROUGHOUT
TOB	TOP OF BANK
TOC	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOP	TOP OF PIPE
TOS	TOP OF SLAB
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UNK	UNKNOWN

GENERAL CONT.

V	VENT
VERT	VERTICAL
VP	VENT PIPE
VTR	VENT THROUGH ROOF
W	WIDE
W/	WITH
WATR	WATER
WGR	WOOD GUARDRAIL
W/L	WATER LEVEL
W/O	WITH OUT
WWF	WELDED WIRE FABRIC
WUP	WOOD UTILITY POLE

FLOWSTREAM IDENTIFICATION:

ED	EQUIPMENT DRAIN
FM	FORCE MAIN
FR	FUEL RETURN
FS	FUEL SUPPLY
OF	OVERFLOW
PW	POTABLE WATER
RD	ROOF DRAIN
SA	SAMPLE
SAN	SANITARY SEWER
SPD	SUMP PUMP DISCHARGE
STRM	STORMWATER
WM	WATER MAIN

SURVEY IDENTIFICATION:

BH	BUD HEIGHT
C&G	CURB AND GUTTER
CALC	CALCULATED
ELLIP	ELLIPTICAL
FND	FOUND
LB	LICENSED BUSINESS
MEAS	MEASURED
ORB	OFFICIAL RECORDS BOOK
PB.	PLAT BOOK
PG.	PAGE
PRM	PERMANENT REFERENCE MONUMENT
Pt	POINT
V.M.	VINYL FENCE
W.I.F.	WROUGHT IRON FENCE
W.F.	WOOD FENCE

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

ABBREVIATIONS

SHEET NO. GN-02
SHT # 3
TOTAL: 233
CAD FILE: 12082–MULTI–GENL
DRAWING FILE NO. 4–144–88

LEGEND

STORM DRAINAGE

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED PIPE FLOW
- PROPOSED PLUG
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED YARD DRAIN
- PROPOSED ENDWALL OR HEADWALL
- EX SD — EXISTING STORM DRAIN PIPE
- ABAN SD — ABANDONED STORM DRAIN PIPE
- FUTURE STORM DRAIN PIPE
- EXISTING PIPE FLOW
- EXISTING CATCH BASIN OR INLET
- EXISTING STORM MANHOLE
- EXISTING YARD DRAIN
- EXISTING ENDWALL OR HEADWALL

PAVING AND GRADING

- 00.00 — PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SIDE SLOPE
- PROPOSED ASPHALT
- PROPOSED ASPHALT MILL & RESURFACING
- PROPOSED CONCRETE
- BENCHMARK
- TH01 — TEST HOLE
- BH01 — SOIL BORE HOLE
- 100.00 — EXISTING ELEVATION
- EXISTING SIDE SLOPE
- EXISTING WHEEL STOP

WATER DISTRIBUTION / TRANSMISSION

- WM — PROPOSED WATER MAIN
- FIRE — PROPOSED FIRE LINE
- PROPOSED WATER METER AND SERVICE LATERAL
- PROPOSED FITTINGS
- PROPOSED CAP
- PROPOSED PLUG
- PROPOSED FLUSHING VALVE OUTLET OR BLOWOFF
- PROPOSED FIRE HYDRANT
- PROPOSED SIAMESE OR FIRE DEPARTMENT CONNECTION
- PROPOSED REDUCER
- PROPOSED REDUCER (20"Ø AND LARGER)
- PROPOSED TAP SLEEVE AND VALVE
- PROPOSED GATE VALVE
- EX WM — EXISTING WATER MAIN
- ABAN WM — ABANDONED WATER MAIN
- W — EXISTING WATER METER AND SERVICE LATERAL
- EXISTING FITTINGS
- EXISTING CAP
- EXISTING PLUG
- EXISTING FIRE HYDRANT
- EXISTING SIAMESE OR FIRE DEPARTMENT CONNECTION
- EXISTING REDUCER
- V — EXISTING GATE VALVE
- V — EXISTING BUTTERFLY VALVE
- ARV — EXISTING AIR RELEASE VALVE
- DCCV — EXISTING DETECTOR DOUBLE CHECK VALVE
- BFP — EXISTING BACKFLOW PREVENTER

SANITARY SEWER

- S — PROPOSED SANITARY LATERAL
- EX SAN — EXISTING SANITARY SEWER MAIN
- ABAN SAN — ABANDONED SANITARY SEWER MAIN
- S — EXISTING SERVICE LATERAL INCLUDING PLUG AND CLEANOUT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PIPE FLOW
- EXISTING PLUG
- EXISTING CAP

FORCE MAIN COLLECTION / TRANSMISSION

- EX FM — EXISTING FORCE MAIN
- ABAN FM — ABANDONED FORCE MAIN
- EXISTING PIPE FLOW
- EXISTING FITTINGS
- EXISTING PLUG
- EXISTING CAP
- EXISTING FLUSH VALVE ASSEMBLY
- EXISTING REDUCER
- V — EXISTING GATE VALVE
- EXISTING CHECK VALVE
- EXISTING BALL VALVE
- EXISTING PLUG VALVE
- ARV — EXISTING AIR RELEASE VALVE

SIGNS AND PAVEMENT MARKINGS

- PROPOSED STREET SIGN AND POST
- PROPOSED DELINEATOR POST
- PROPOSED REFLECTIVE PAVEMENT MARKER
- EXISTING STREET SIGN AND POST
- EXISTING DELINEATOR POST
- EXISTING REFLECTIVE PAVEMENT MARKER

DEMOLITION

- MILL ASPHALT
- REMOVE STRUCTURE
- REMOVE ITEM
- ABANDON ITEM
- TEST HOLE

OTHER UTILITIES

- 00 — PIPE CROSSING TAG
- EX O/W — EXISTING OVERHEAD WIRE
- EX OE — EXISTING OVERHEAD ELECTRIC
- EX BE — EXISTING BURIED ELECTRIC
- EX COMM — EXISTING COMMUNICATIONS CABLE OR DUCT
- EX CATV — EXISTING TELEVISION CABLE OR DUCT
- EX BTV — EXISTING BURIED CABLE TELEVISION
- EX OTV — EXISTING OVERHEAD CABLE TELEVISION
- EX BFO — EXISTING BURIED FIBER OPTICS
- EX OFO — EXISTING OVERHEAD FIBER OPTICS
- EX BT — EXISTING BURIED TELEPHONE
- EX OT — EXISTING OVERHEAD TELEPHONE
- EX GAS — EXISTING GAS PIPE
- EXISTING ELECTRIC MANHOLE
- EXISTING ELECTRIC METER
- EXISTING UTILITY POLE
- EXISTING TELEPHONE POLE
- EXISTING GUY WIRE WITH ANCHOR
- EXISTING POWER POLE
- EXISTING COMMUNICATIONS MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING GAS MANHOLE
- GM — EXISTING GAS METER
- GAS — EXISTING GAS VALVE

SITE FEATURES

- PROPOSED GRASS
- PROPOSED BOLLARD
- PROPOSED CONCRETE WALL
- EXISTING CONCRETE WALL
- EXISTING WOOD FENCE
- EXISTING CHAIN OR WIRE FENCE
- EXISTING WATER'S EDGE
- EXISTING TREE LINE
- EXISTING CANOPY TREE
- EXISTING CONIFER TREE
- EXISTING ACCENT TREE
- EXISTING SMALL PALM
- EXISTING LARGE PALM

COORDINATE GEOMETRY

- RIGHT-OF-WAY LINE
- PARCEL BOUNDARY
- LOT OR PROPERTY LINE
- CENTER LINE
- EASEMENT LINE

SURVEY LEGEND

- AIR RELEASE VALVE MANHOLE
- ANCHOR
- BFP — BACK FLOW PREVENTER
- BOLLARD
- CABLE / FIBER OPTIC PEDESTAL
- CACTUS
- CB — CATCH BASIN
- CITRUS TREE
- CO — CLEAN OUT
- CONCRETE LIGHT POLE
- CONCRETE POST
- CONCRETE POWER POLE
- CONCRETE TELEPHONE POLE
- CURB INLET
- DECORATIVE LIGHT POLE
- DDCV — DETECTOR CHECK VALVE
- DOUBLE DETECTOR CHECK VALVE
- ELECTRICAL / CABLE PULL BOX
- E — ELECTRICAL MANHOLE
- ELECTRICAL METER
- ELECTRICAL OUTLET
- FIBER OPTIC PEDESTAL / PULLBOX
- FIRE HYDRANT
- HANDICAP SPOT
- KEYPAD
- MAILBOX
- MAIL DROP BOX
- METAL LIGHT POLE
- METAL POST / PIPE
- METAL POWER / TELEPHONE POLE
- PALM TREE
- PARK BENCH
- PARKING LIGHT SQUARE BULB
- PEDESTRIAN SIGNAL
- PINE TREE
- PIPE PLUG / STORM OUTFALL
- SANITARY MANHOLE
- SHADE TREE
- SIAMESE VALVE
- SIGN (DOUBLE POST)
- SIGN (SINGLE POST)
- SPOT / FLOOD LIGHT
- SQUARE COLUMN
- STORM MANHOLE
- TELEPHONE MANHOLE
- TRAFFIC POLE
- TRAFFIC PULL BOX
- TRANSFORMER PAD
- V — UTILITY VAULT
- WATER METER
- WATER WELL
- WOOD LIGHT POLE
- WOOD POST
- WOOD POWER / TELEPHONE POLE
- YARD DRAIN
- ALUMINIUM FENCE
- CHAIN LINK FENCE
- SS — GRAVITY MAIN
- STM — STORM LINE
- VINYL / WOOD FENCE
- WROGHT IRON FENCE
- OHW — OVER HEAD WIRES

CONTROL LEGEND

- IRON PIPE
- IRON ROD
- MAG NAIL & DISC
- PERMANENT REFERENCE MONUMENT NAIL & DISC
- QUARTER SECTION CORNER
- SECTION CORNER

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ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
SYMBOLS

SHEET NO. GN-03 | SHT # 4
TOTAL: 233
CAD FILE: 12082-MULTI-GENL
DRAWING FILE NO. 4-144-88

GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
2. REFER TO SPECIFICATION SECTION 01001 AND 01520 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
3. SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED BY CRAVEN THOMPSON & ASSOCIATES, INC., DATED 7/25/2024.
4. HORIZONTAL CONTROL IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
5. RECORD DRAWINGS USED FOR EXISTING FEATURES: OBTAINED FROM CITY GIS. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
7. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
8. ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
9. THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
10. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
11. CONTRACTOR SHALL REPLACE SURROUNDING LAND COVER AFFECTED BY CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, PAVERS, SIDEWALK, SOD, AND LANDSCAPING, TO EXISTING OR BETTER CONDITIONS.
12. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.
14. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
15. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
17. FOR REFERENCE MONUMENTS, SEE SURVEY DRAWING.
18. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
19. THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
20. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
21. ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.
22. PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WHERE SHOWN ON THE PLANS OR AS OTHERWISE SPECIFICALLY SPECIFIED IN THE CONTRACT DRAWINGS.
23. RESILIENT SEATED GATE VALVES WITH BEVEL TYPE GEAR SHALL BE INSTALLED IN HORIZONTAL ORIENTATION WHEN LESS THAN 7-FEET OF COVER FROM TOP OF PIPE IS PRESENT OR AS OTHERWISE SPECIFICALLY SPECIFIED IN THE CONTRACT DRAWINGS.
24. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
26. THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.
27. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
28. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
29. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
30. ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
31. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
32. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
33. STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
34. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
35. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
36. CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
37. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
38. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
39. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
40. CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAYED WITH ASPHALT.
41. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.
42. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
43. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W's WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
44. ALL STORM PIPE SMALLER THAN 60-INCH DIAMETER AND INDICATED IN THE PLANS TO BE REINFORCED CONCRETE PIPE (RCP) CAN BE EXCHANGED TO HIGH-PERFORMANCE POLYPROPYLENE PIPE (HP-PP), UNLESS INDICATED OTHERWISE IN THE PLANS. THE STORM PIPE MATERIAL SHALL BE SELECTED BY THE CONTRACTOR AT THE BID SUBMITTAL.

GAS NOTES:

1. PRE-CONSTRUCTION MEETING WITH GAS COMPANY IS REQUIRED TO ADDRESS GAS MAIN CROSSINGS.
2. ON-SITE MONITORING BY GAS CO. PERSONNEL MAY BE REQUIRED DURING EXCAVATION OF GAS MAIN CROSSINGS.
3. ALL GAS MAIN CROSSINGS MUST BE HAND DUG TO VERIFY LOCATIONS AND DEPTHS.
4. PRECAUTIONS MUST BE TAKEN TO PROTECT GAS MAINS COATINGS FORM DAMAGE DURING EXCAVATION AND BACKFILLING.
5. PROVIDE APPROPRIATE SUPPORT OF GAS MAINS DURING BACKFILLING AND TAMPING.
6. PROVIDE SAND PADDING AROUND ALL GAS MAINS.
7. GAS RELOCATIONS, IF REQUIRED WILL BE COMPLETED BY THE UTILITY COMPANY. THE CONTRACTOR WILL BE REQUIRED TO PAY FOR THE GAS RELOCATION AS A PASS THROUGH, THE COST OF WHICH SHALL BE REIMBURSED BY THE CITY AND PAID UNDER THE UNDEFINED CONDITIONS ALLOWANCE. ANY TIME OR EFFORT REQUIRED TO COORDINATE AND OR SCHEDULE THE RELOCATION ON THE CONTRACTORS PART SHALL BE CONSIDERED INCIDENTAL AND NOT SUBJECT TO REIMBURSEMENT. REFER TO THE MEASUREMENT AND PAYMENT SPECIFICATION SECTION FOR MORE INFORMATION.

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FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

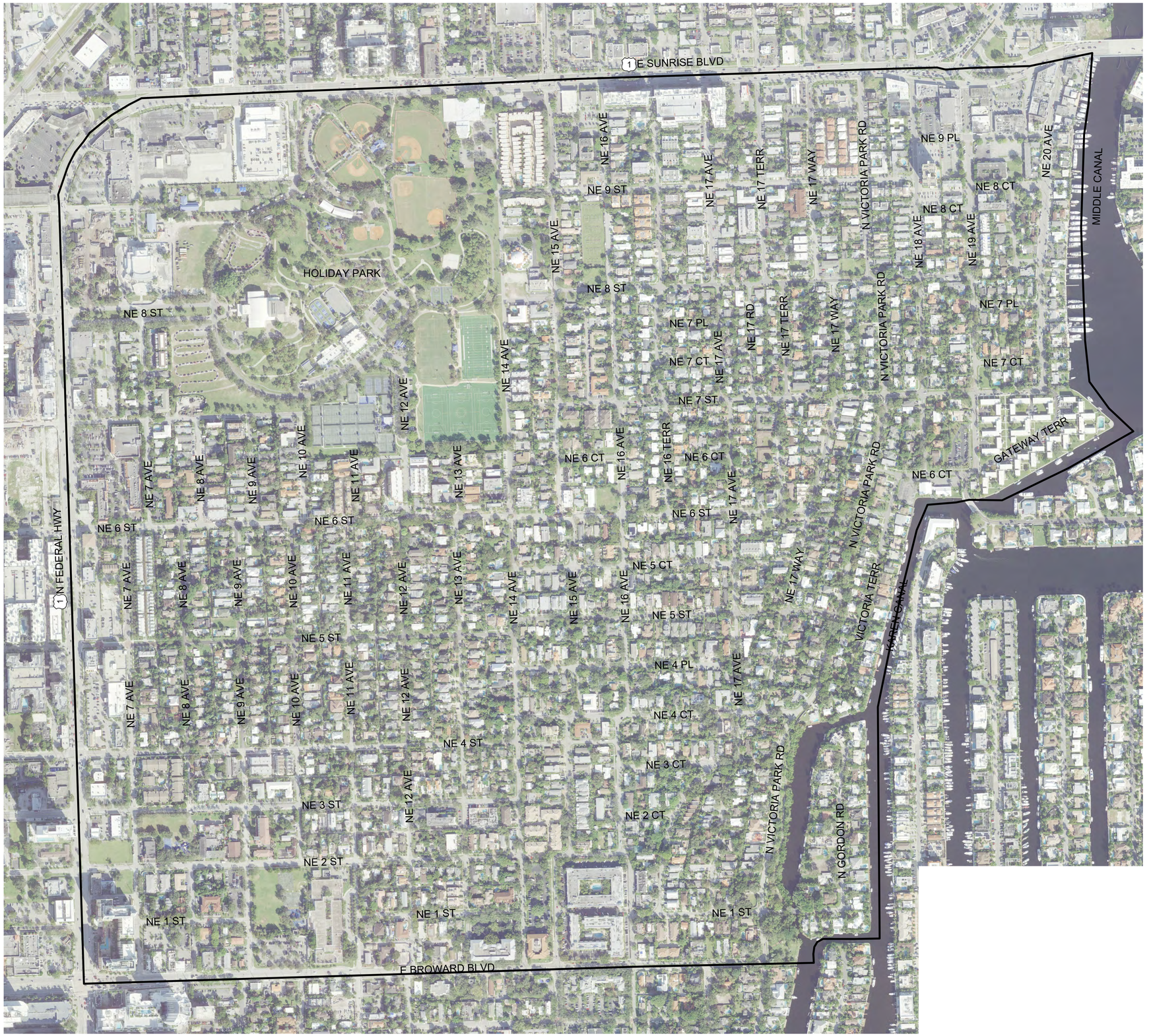
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

GENERAL NOTES

SHEET NO. GN-04 | SHT # 5
TOTAL: 233
CAD FILE: 12082-MULTI-GENL
DRAWING FILE NO. 4-144-88



0 300' 600'

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REVISIONS

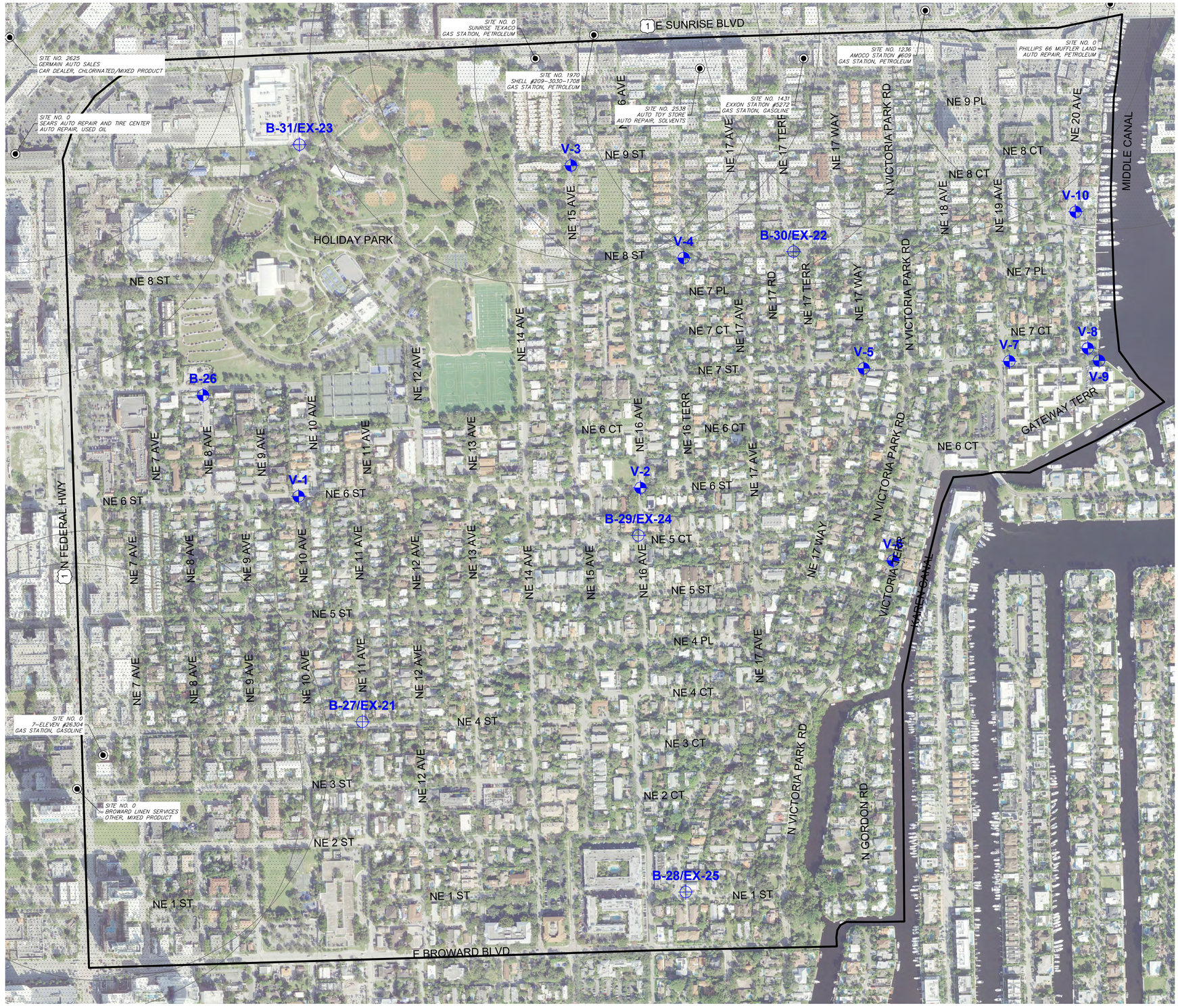
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PROJECT LOCATION MAP

SHEET NO.	SHT #
GN-05	6
TOTAL:	233
CAD FILE: 12082–MULTI–KMAP	
DRAWING FILE NO. 4–144–88	



NOTES:

1. REFER TO GEOTECHNICAL SERVICES REPORT COMPLETED BY RADISE INTERNATIONAL ON 2/8/2018 FOR ADDITIONAL SUBSOIL INFORMATION, INCLUDING BUT NOT LIMITED TO SUBSURFACE STRATIGRAPHY, PHYSICAL SOIL PROPERTIES, AND GROUNDWATER LEVELS.

LEGEND:

- STANDARD PENETRATION TEST (SPT) SOIL BORING
- COMBINATION SPT AND OPEN HOLE EXFILTRATION TEST
- CONTAMINATED SITES
- 0.25 MILE RADIUS

ISSUED FOR BID

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DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SOIL BORINGS AND CONTAMINATED SITES

SHEET NO. GN-06
SHT # 7
TOTAL: 233
CAD FILE: 12082-MULTI-KMAP
DRAWING FILE NO. 4-144-88

0 300' 600'

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CHECKED BY:	FIELD BOOK:
JJM	

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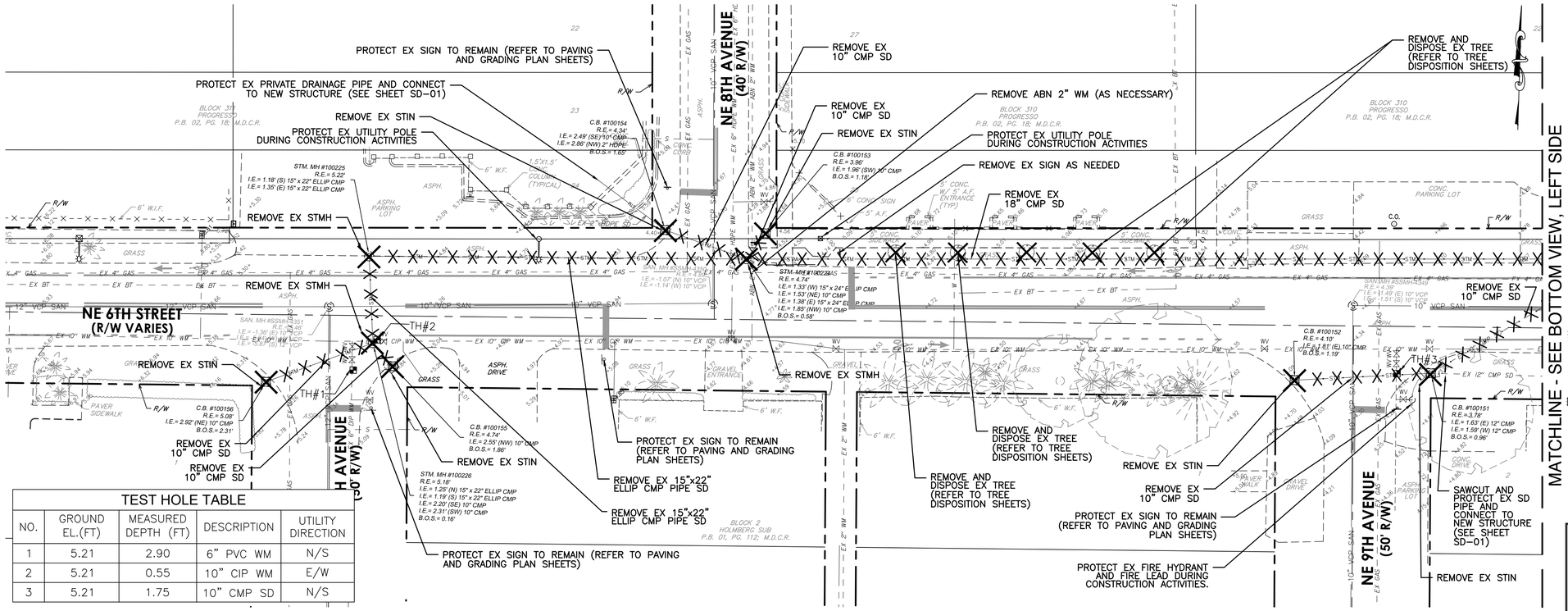
REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

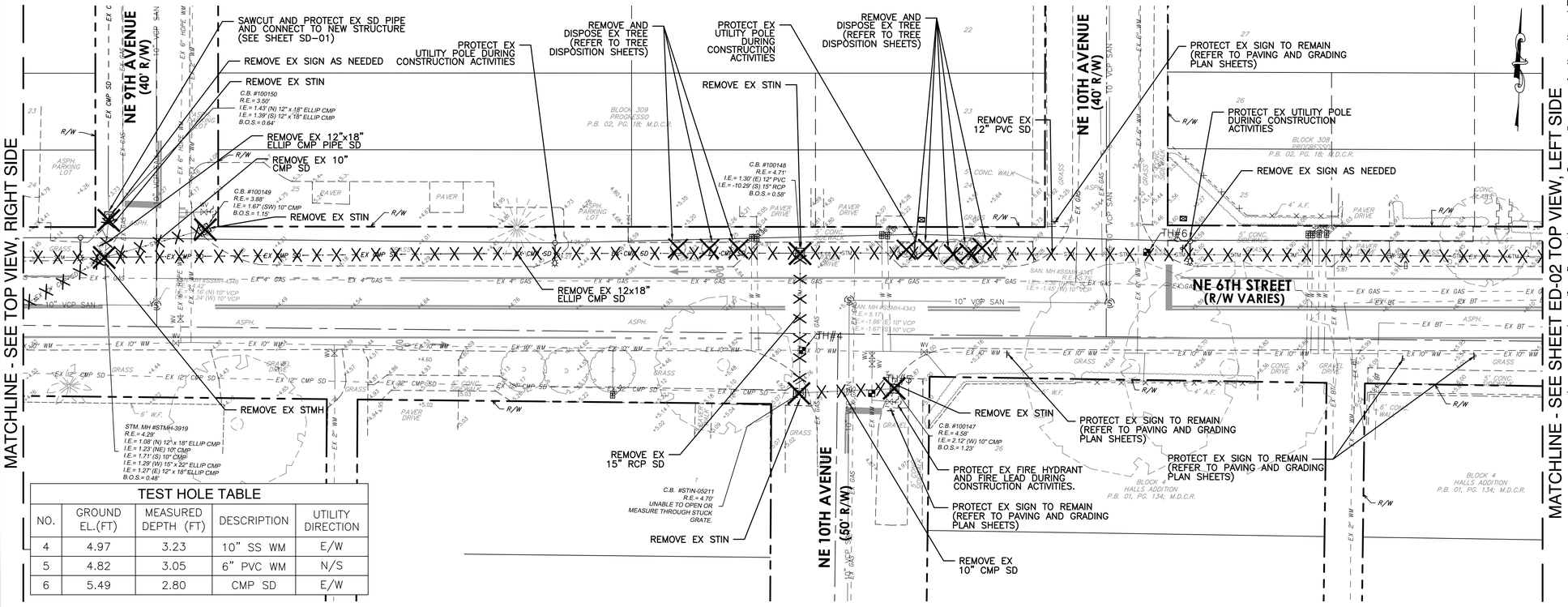
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION KEY MAP

SHEET NO.	SHT #
ED-00	8
TOTAL:	233
CAD FILE: 12082-ED-00	
DRAWING FILE NO. 4-144-88	





NOTES:

1. WATER VALVES, ELECTRICAL BOXES, AND OTHER FEATURES AT GRADE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED IN THIS PLAN.
2. CONTRACTOR TO REMOVE AND REPLACE ALL MAILBOXES AS APPLICABLE AND COORDINATE WITH THE POST OFFICE FOR DELIVERY IN THE WORK ZONE.
3. CONTRACTOR TO SAWCUT AT LIMITS OF CONCRETE SIDEWALK AND CURB REMOVAL.
4. CONTRACTOR IS ADVISED THAT DISCREPANCIES MAY EXIST BETWEEN THE SURVEY DATA AND TEST HOLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, WHETHER SHOWN ON THE PLANS OR NOT, AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR SHALL FIELD MEASURE ALL EXISTING STORM PIPE DIAMETERS AND VERIFY PIPE MATERIAL PRIOR TO ORDERING THE MATERIALS. PIPE DIMENSIONS SHOWN WHERE OBTAINED FORM CITY GEODATABASE AND SURVEY INFORMATION.
6. FOR ALL CATCH BASINS TO BE REPLACED, CONTRACTOR SHALL REMOVE EXISTING PIPE AS NECESSARY FOR DEMOLITIONS/REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH PROPOSED STRUCTURE AS SHOWN ON PLANS. REMOVAL OF EXISTING PIPE SHALL BE AS TO ALLOW FOR WATER TIGHT CONNECTION TO REMAINING PIPELINE AND PROPOSED STRUCTURE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. CONTRACTOR SHALL REPAIR/REPLACE SURROUNDING GROUND AFFECTED BY CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: PAVERS, SIDEWALKS, SOD, LANDSCAPING AND BRING IT TO EXISTING OR BETTER CONDITIONS.
8. CONTRACTOR TO PROVIDE, REPLACE AND MAINTAIN TREE PROTECTION BARRICADES DURING CONSTRUCTION FOR ALL EXISTING TREES TO REMAIN.
9. TREES TO BE REMOVED, RELOCATED OR REPLACED WITH THE PROJECT AREA SHALL BE SPECIFICALLY DESIGNATED IN THE FIELD AS THE PROJECT PROGRESSES. REFER TO SPECIFICATIONS.
10. CONTRACTOR SHALL BE ADVISED AS TO THE POSSIBLE PRESENCE OF ASBESTOS CEMENT PIPE (ACP) WITHIN AND IMMEDIATELY BEYOND THE PROJECT LIMITS. AS SUCH CONTRACTOR SHALL IN THE COURSE OF PERFORMING HIS WORK, TAKE NECESSARY PRECAUTIONS AS TO NOT DISTURB BREAK OR OTHERWISE DAMAGE ACP. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITH ACP BEFORE BEGINNING WORK.
11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

ISSUED FOR BID

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DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

KEY MAP

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

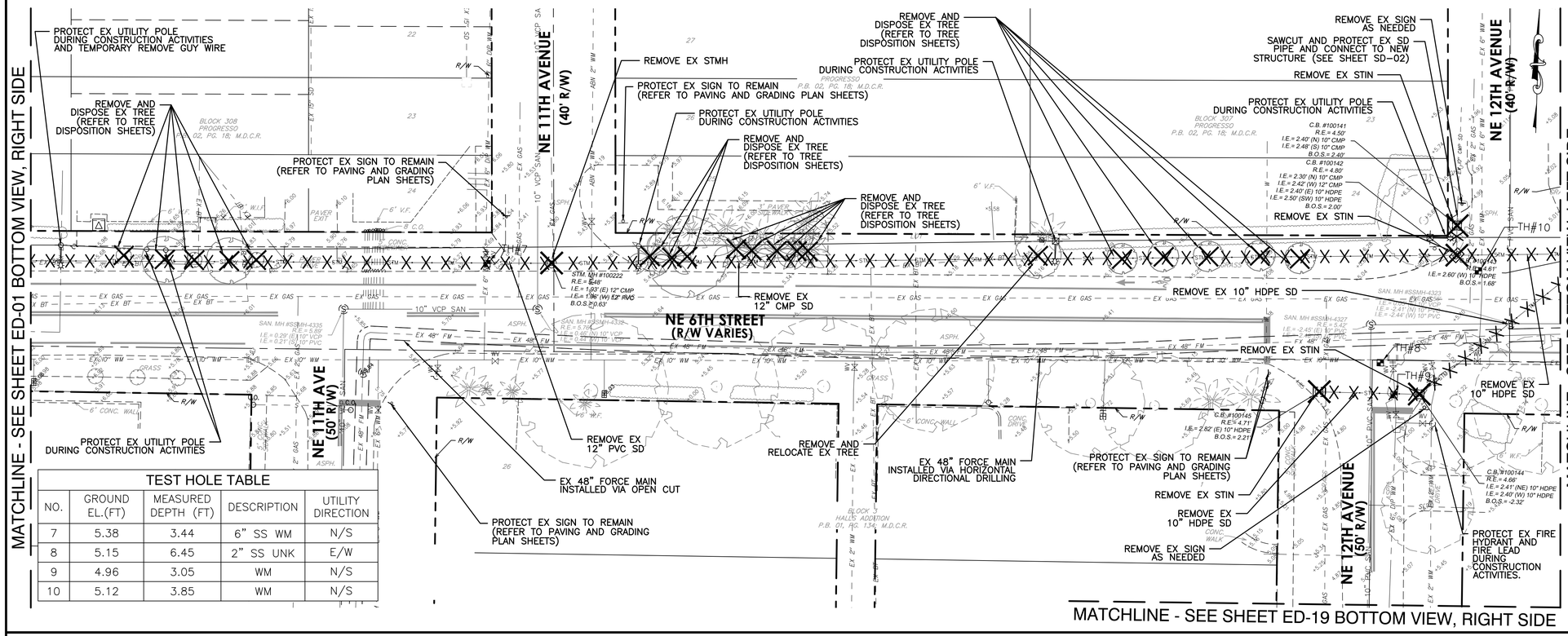
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

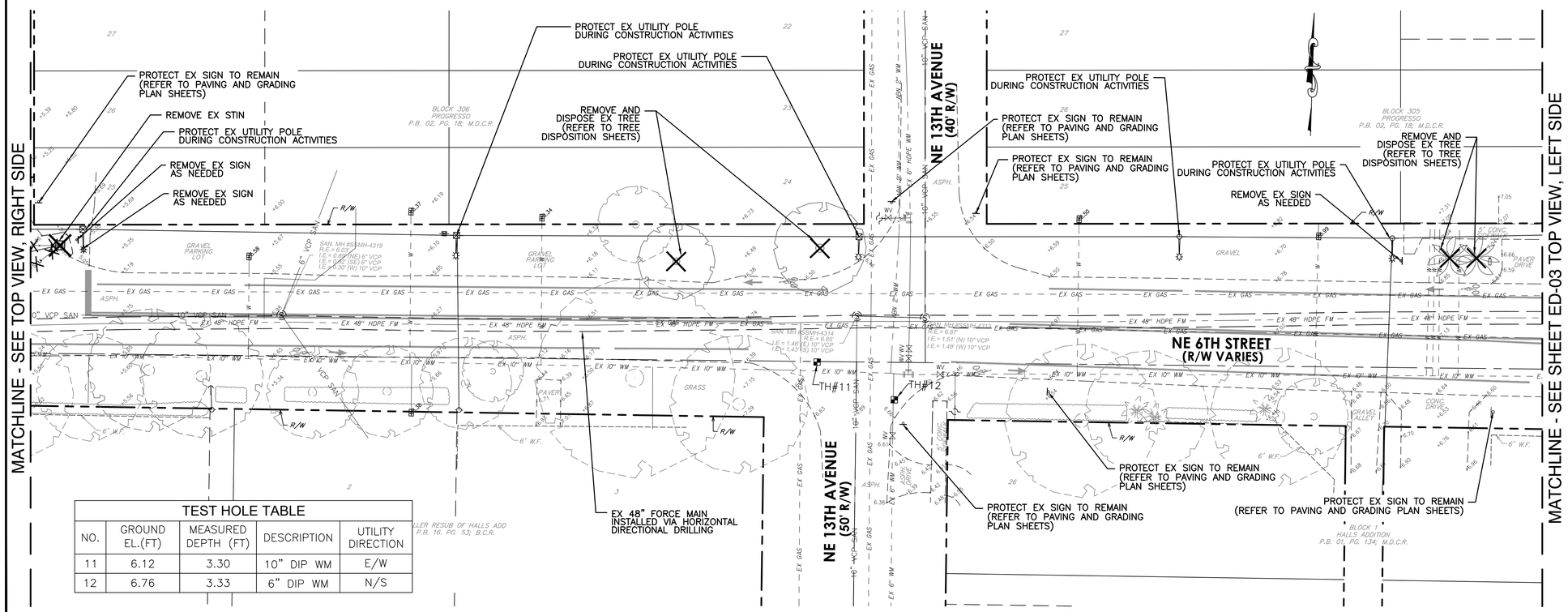
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-01 | SHT # 9
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
7	5.38	3.44	6" SS WM	N/S
8	5.15	6.45	2" SS UNK	E/W
9	4.96	3.05	WM	N/S
10	5.12	3.85	WM	N/S



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
11	6.12	3.30	10" DIP WM	E/W
12	6.76	3.33	6" DIP WM	N/S

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11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

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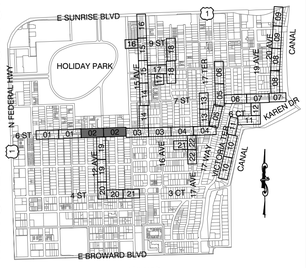

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-02 | SHT # 10
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET ED-14 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET ED-02 BOTTOM VIEW, RIGHT SIDE

PROTECT EX UTILITY POLE DURING CONSTRUCTION ACTIVITIES

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE EX STIN

REMOVE EX STIN

C.B. #100140 R.E.= 6.28' I.E.= 4.18' (N) 10" CMP I.E.= 4.26' (S) 10" CMP B.O.S.= 4.18'

C.I. #100020 R.E.= 7.81 I.E.= 1.75' (W) 15" HDPE B.O.S.= 0.16'

NE 12TH AVENUE (40' R/W)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE EX SIGN AS NEEDED

REMOVE AND DISPOSE EX TREE (REFER TO TREE DISPOSITION SHEETS)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE AND DISPOSE EX TREE (REFER TO TREE DISPOSITION SHEETS)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

NE 15TH AVENUE (R/W VARIES)

PROTECT EX UTILITY POLE DURING CONSTRUCTION ACTIVITIES

REMOVE AND DISPOSE EX TREE (REFER TO TREE DISPOSITION SHEETS)

TH#13

TH#14

TH#15

NE 6TH STREET (R/W VARIES)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

CITY 48" FORCE MAIN REHABILITATION PROJECT. CONTRACTOR TO COORDINATE SEQUENCE OF CONSTRUCTION ACTIVITIES.

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

EX 48" FORCE MAIN INSTALLED VIA HORIZONTAL DIRECTIONAL DRILLING

EX 48" FORCE MAIN INSTALLED VIA OPEN CUT

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE EX SIGN AS NEEDED

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

MATCHLINE - SEE SHEET ED-14 TOP VIEW, LEFT SIDE

TEST HOLE TABLE

NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
13	7.44	3.14	10" DIP WM	E/W
14	7.50	2.10	6" DIP WM	N/S
15	7.83	2.98	10" DIP WM	E/W

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
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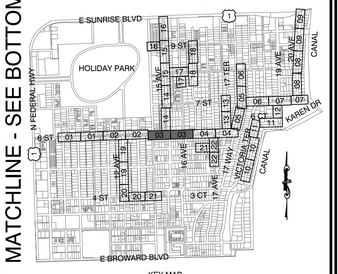

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

MATCHLINE - SEE SHEET ED-03 BOTTOM VIEW, RIGHT SIDE

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE EX SIGN AS NEEDED

REMOVE EX SIGN AS NEEDED

NE 16TH AVENUE (R/W VARIES)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

NE 6TH STREET (50' R/W)

TH#16

REMOVE EX SIGN AS NEEDED

NE 16TH AVENUE (50' R/W)

PROTECT EX SIGN TO REMAIN (REFER TO PAVING AND GRADING PLAN SHEETS)

REMOVE AND DISPOSE EX TREE (REFER TO TREE DISPOSITION SHEETS)

MATCHLINE - SEE SHEET ED-04 TOP VIEW, LEFT SIDE

TEST HOLE TABLE

NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
16	7.67	3.45	8" DIP WM	N/S

NOTES:

1. WATER VALVES, ELECTRICAL BOXES, AND OTHER FEATURES AT GRADE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED IN THIS PLAN.
2. CONTRACTOR TO REMOVE AND REPLACE ALL MAILBOXES AS APPLICABLE AND COORDINATE WITH THE POST OFFICE FOR DELIVERY IN THE WORK ZONE.
3. CONTRACTOR TO SAWCUT AT LIMITS OF CONCRETE SIDEWALK AND CURB REMOVAL.
4. CONTRACTOR IS ADVISED THAT DISCREPANCIES MAY EXIST BETWEEN THE SURVEY DATA AND TEST HOLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, WHETHER SHOWN ON THE PLANS OR NOT, AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR SHALL FIELD MEASURE ALL EXISTING STORM PIPE DIAMETERS AND VERIFY PIPE MATERIAL PRIOR TO ORDERING THE MATERIALS. PIPE DIMENSIONS SHOWN WHERE OBTAINED FROM CITY GEODATABASE AND SURVEY INFORMATION.
6. FOR ALL CATCH BASINS TO BE REPLACED, CONTRACTOR SHALL REMOVE EXISTING PIPE AS NECESSARY FOR DEMOLITIONS/REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH PROPOSED STRUCTURE AS SHOWN ON PLANS. REMOVAL OF EXISTING PIPE SHALL BE AS TO ALLOW FOR WATER TIGHT CONNECTION TO REMAINING PIPELINE AND PROPOSED STRUCTURE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
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11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
BASIS: No. 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

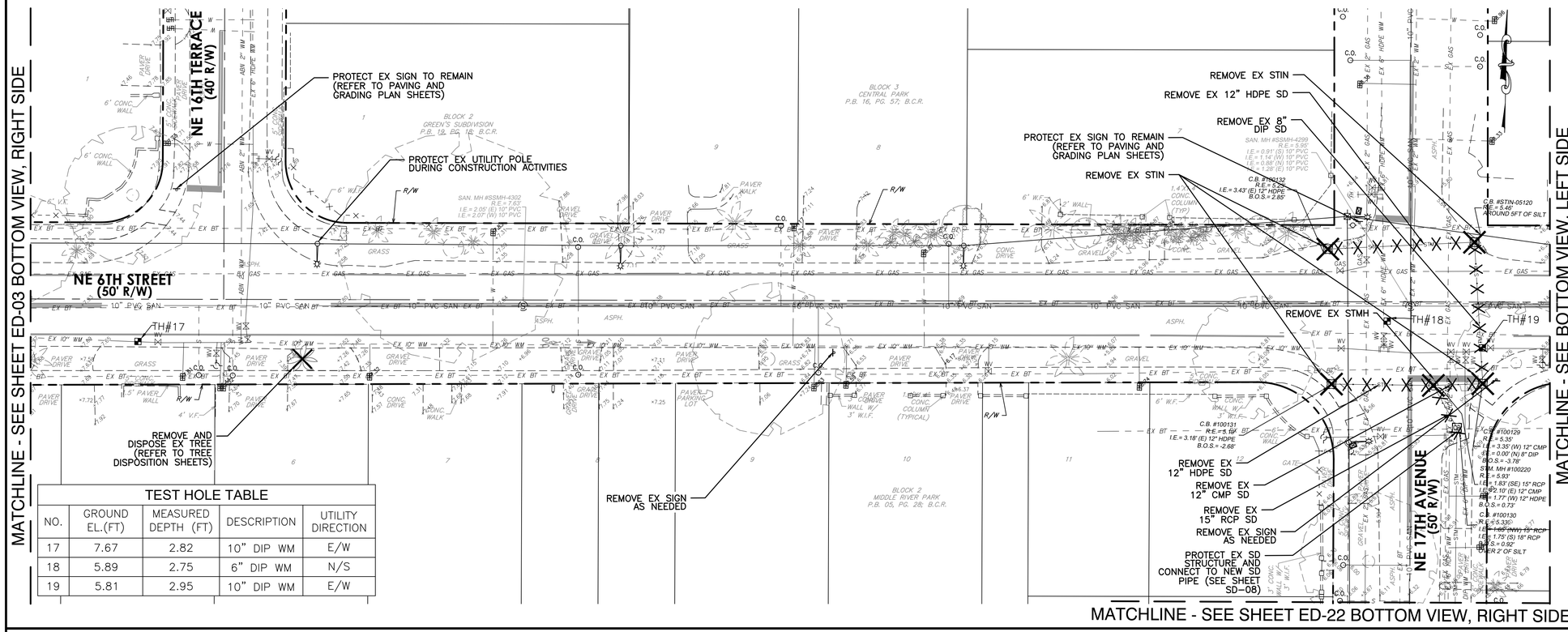
SHEET NO. ED-03 | SHT # 11

TOTAL: 233

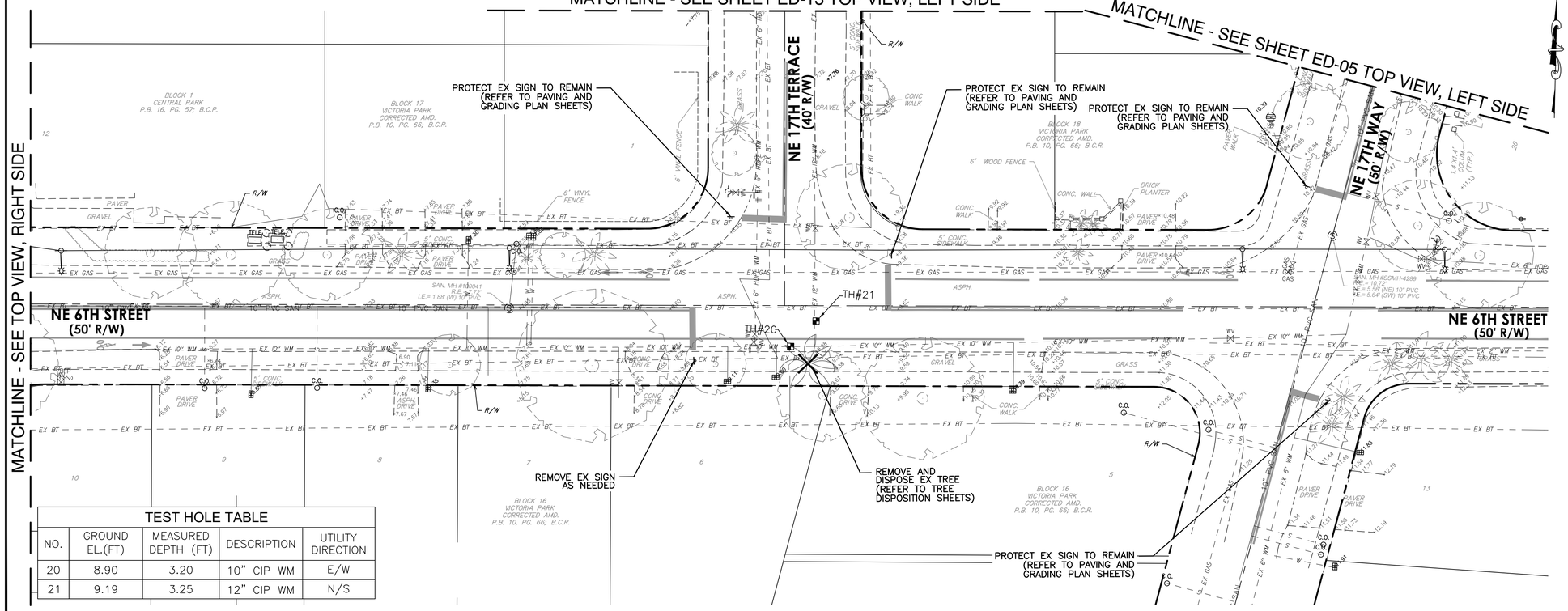
CAD FILE: 12082-MULTI-DEMO

DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1738 of 2050



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
17	7.67	2.82	10" DIP WM	E/W
18	5.89	2.75	6" DIP WM	N/S
19	5.81	2.95	10" DIP WM	E/W



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
20	8.90	3.20	10" CIP WM	E/W
21	9.19	3.25	12" CIP WM	N/S

NOTES:

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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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500 West Cypress Creek Road,
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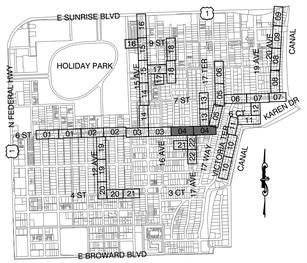

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25 | FIELD BOOK:
DESIGNED BY: DECF | SCALE: AS SHOWN | CHECKED BY: JJM

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-04 | SHT # 12
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1739 of 2050

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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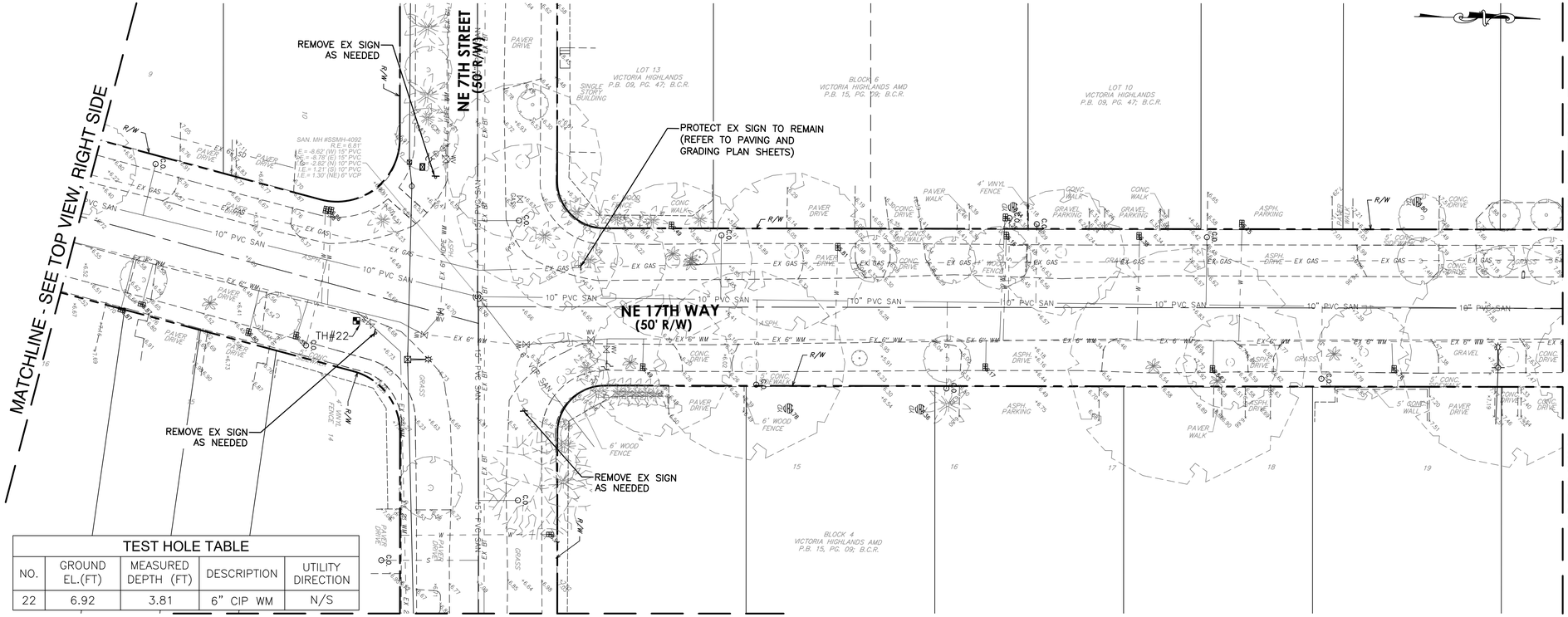

TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
22	6.92	3.81	6" CIP WM	N/S

MATCHLINE - SEE SHEET ED-06 BOTTOM VIEW, LEFT SIDE

NOTES:

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11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

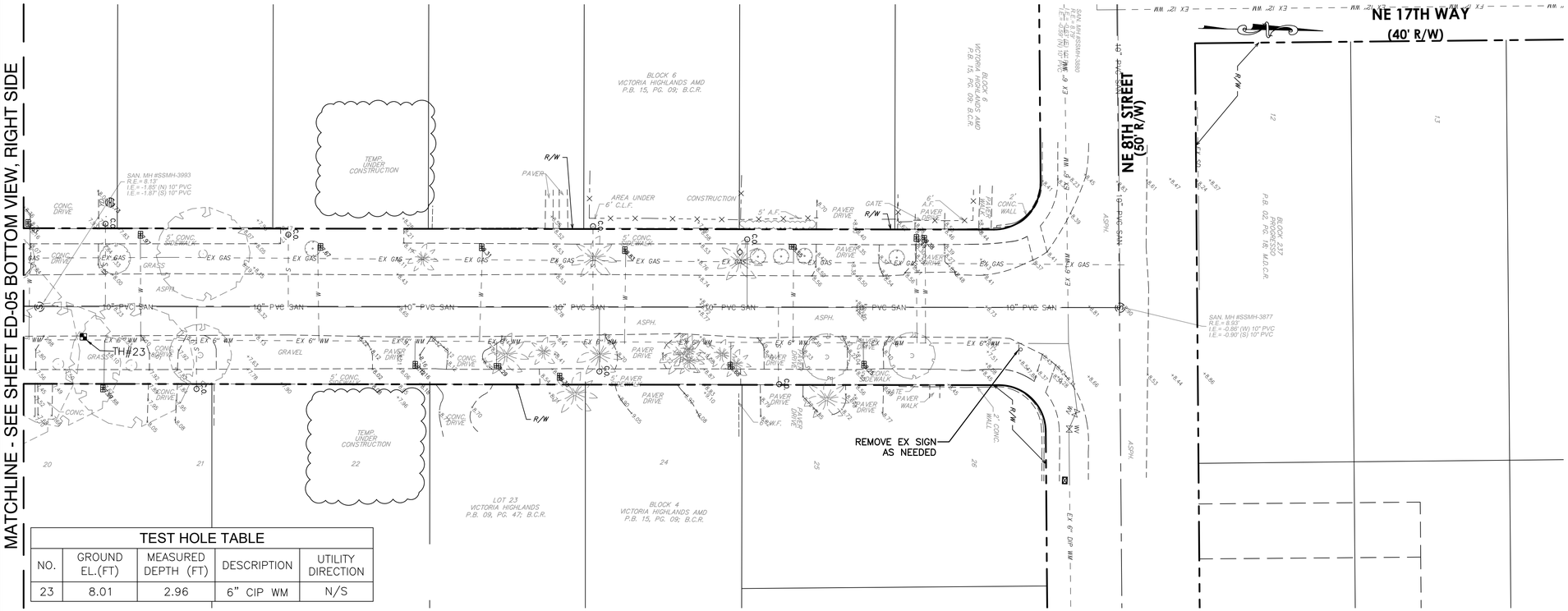
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-05
SHT # 13
TOTAL: 233
CAD FILE: 12082–MULTI–DEMO
DRAWING FILE NO. 4–144–88

MATCHLINE - SEE SHEET ED-05 BOTTOM VIEW, RIGHT SIDE



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
23	8.01	2.96	6" CIP WM	N/S

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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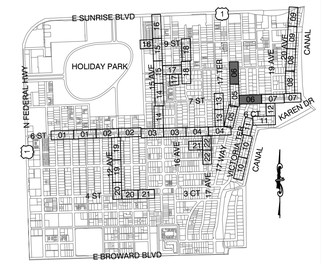

KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

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DRAWN BY: JLS | DATE: 03/25/25
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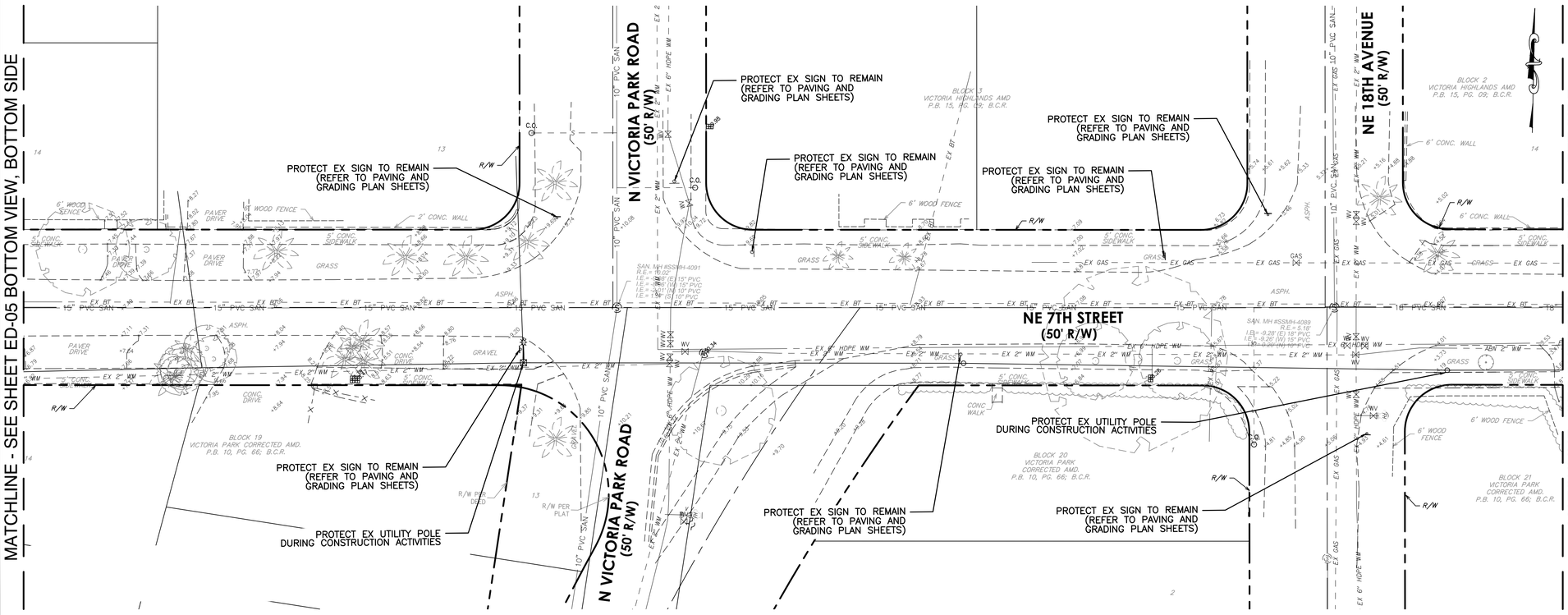
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

MATCHLINE - SEE SHEET ED-05 BOTTOM VIEW, BOTTOM SIDE



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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

MATCHLINE - SEE SHEET ED-07 TOP VIEW, LEFT SIDE

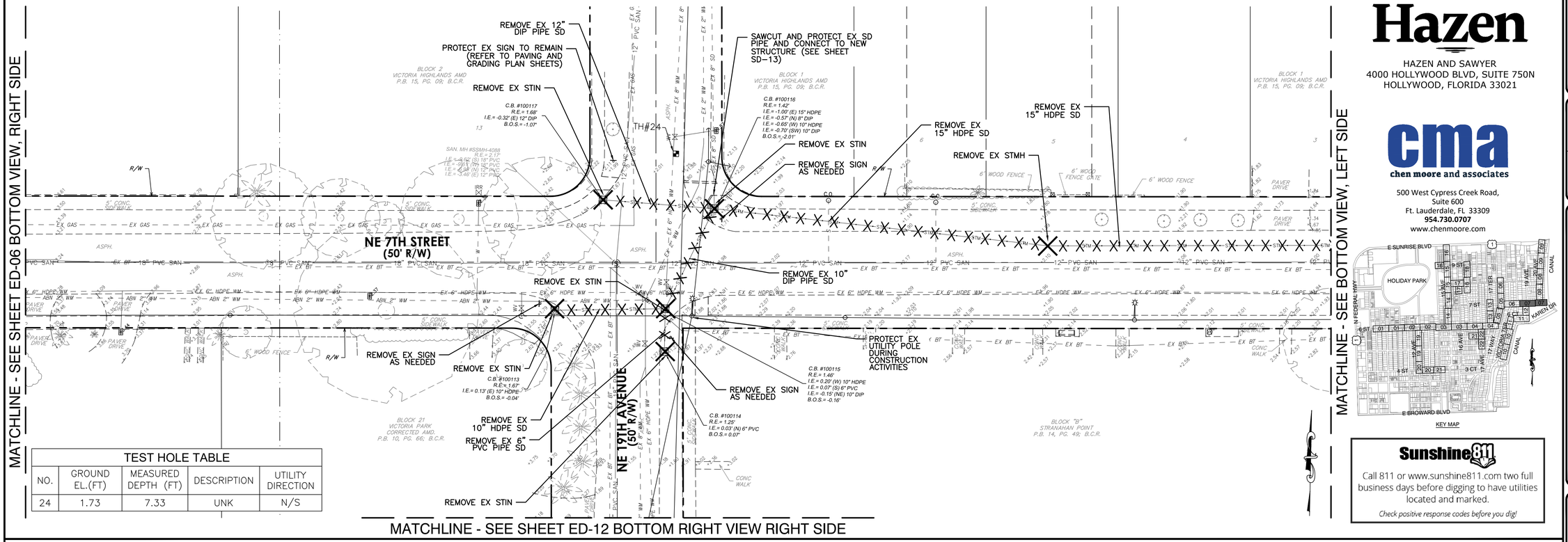
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

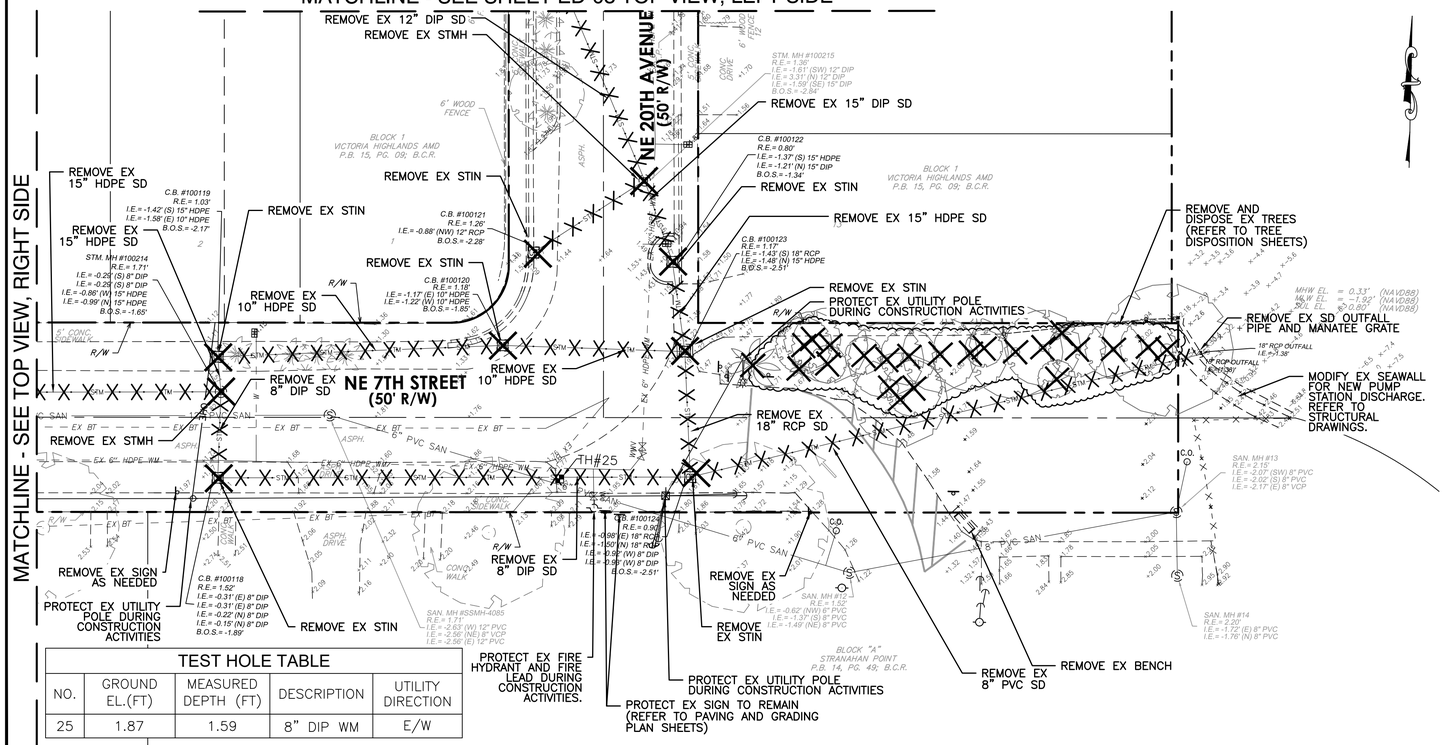
EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-06	14
TOTAL:	233
CAD FILE: 12082-MULTI-DEMO	
DRAWING FILE NO. 4-144-88	

CAM #25-0925
Exhibit 1F
Page 1741 of 2050



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
24	1.73	7.33	UNK	N/S



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
25	1.87	1.59	8" DIP WM	E/W

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6. FOR ALL CATCH BASINS TO BE REPLACED, CONTRACTOR SHALL REMOVE EXISTING PIPE AS NECESSARY FOR DEMOLITIONS/REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH PROPOSED STRUCTURE AS SHOWN ON PLANS. REMOVAL OF EXISTING PIPE SHALL BE AS TO ALLOW FOR WATER TIGHT CONNECTION TO REMAINING PIPELINE AND PROPOSED STRUCTURE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

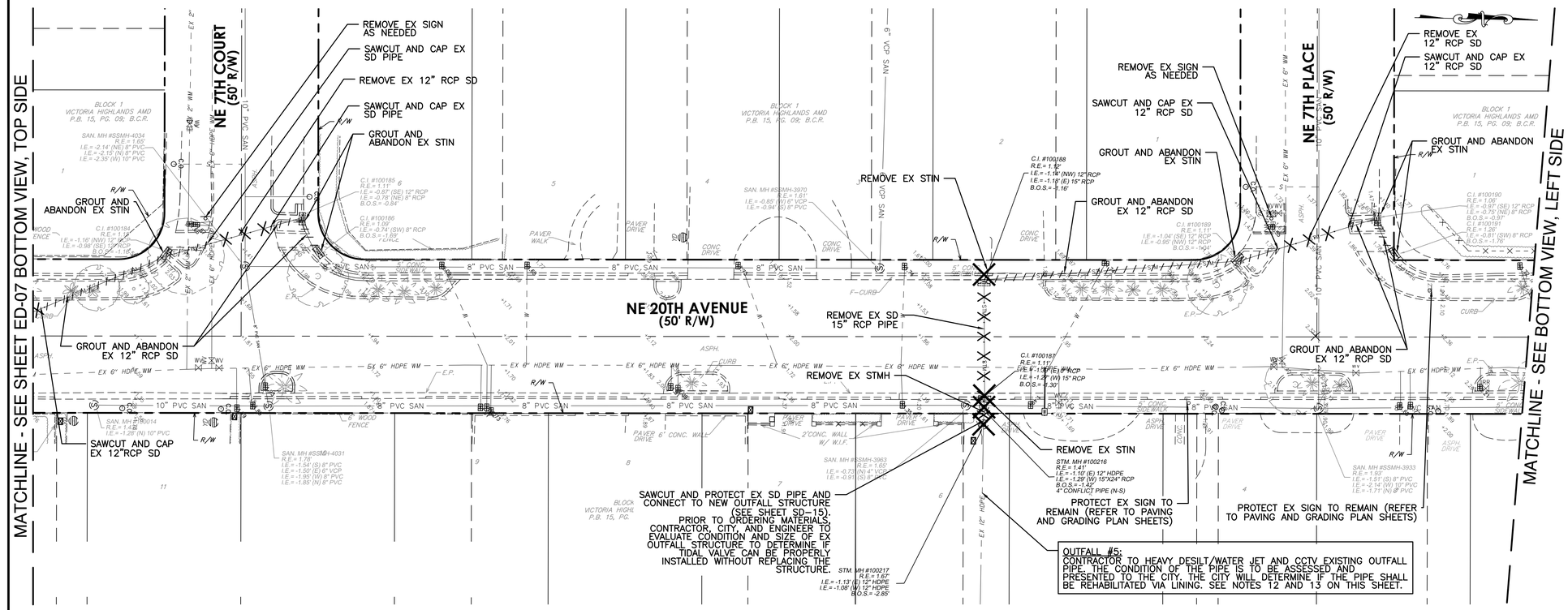
REVISIONS

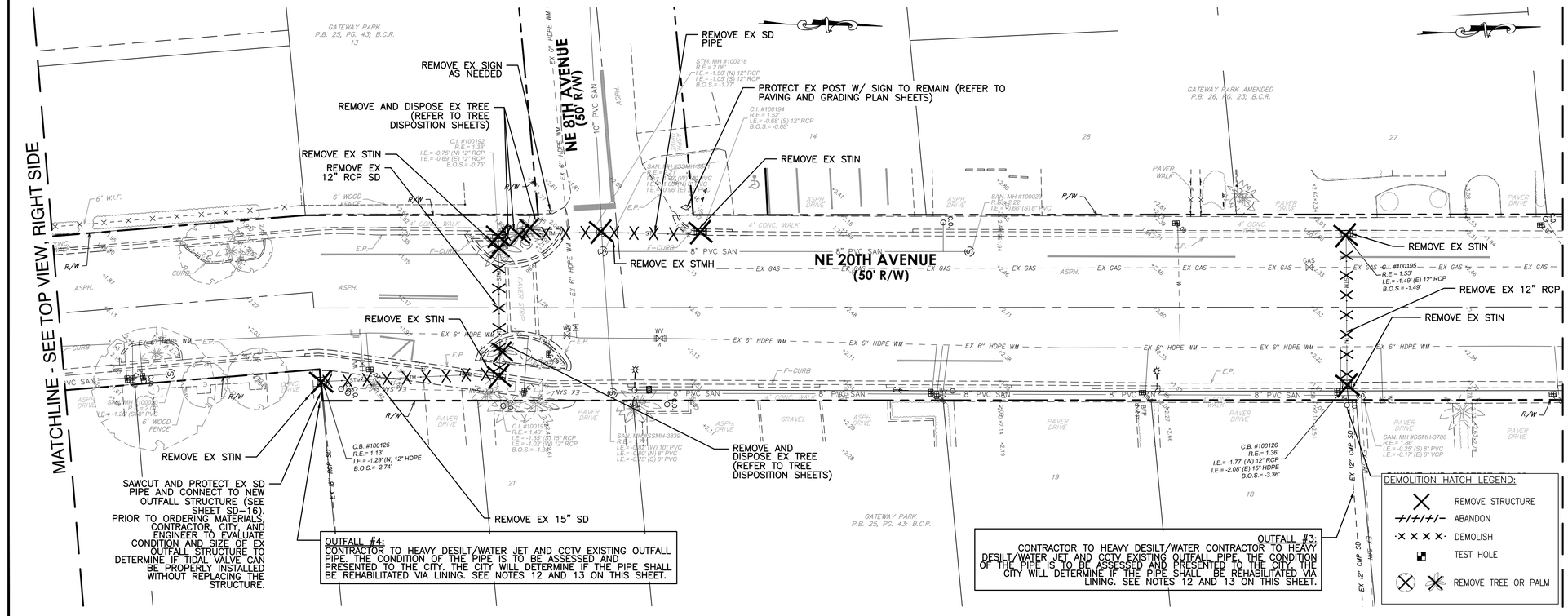
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-07 | SHT # 15
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88





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0 20' 40'

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HOLLYWOOD, FLORIDA 33021

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
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REVISIONS

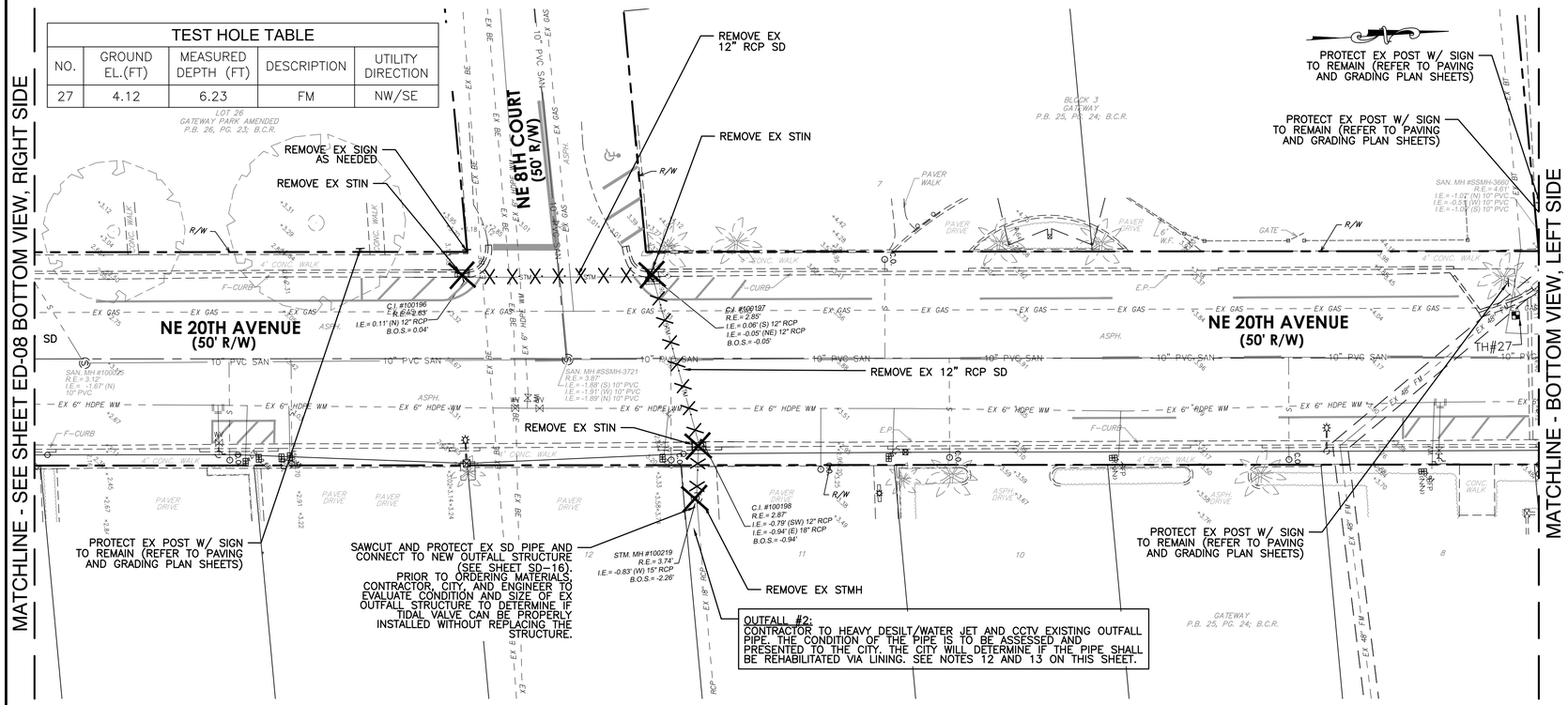
NO.	DATE	BY	CHK'D	DESCRIPTION

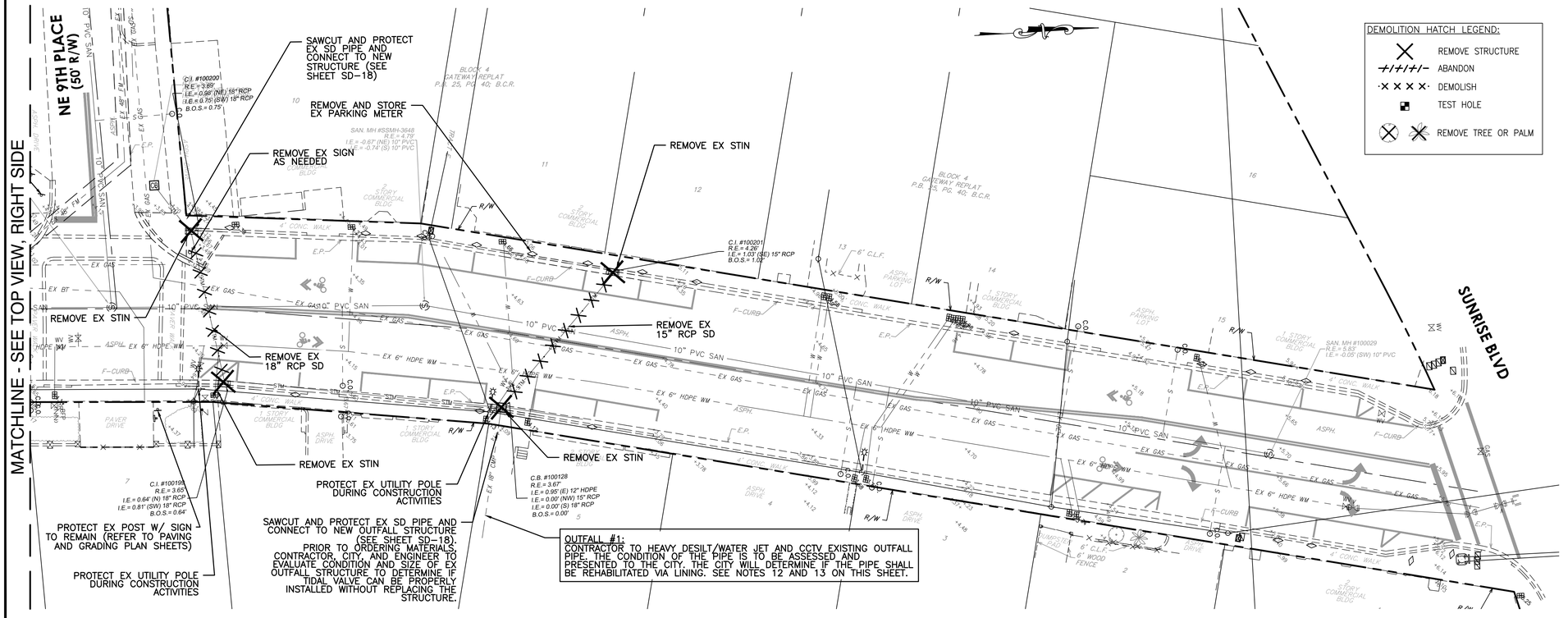
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-08 | SHT # 16
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
27	4.12	6.23	FM	NW/SE





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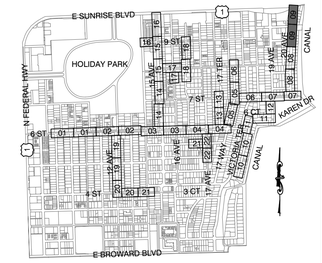

KEY MAP

Sunshine811
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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

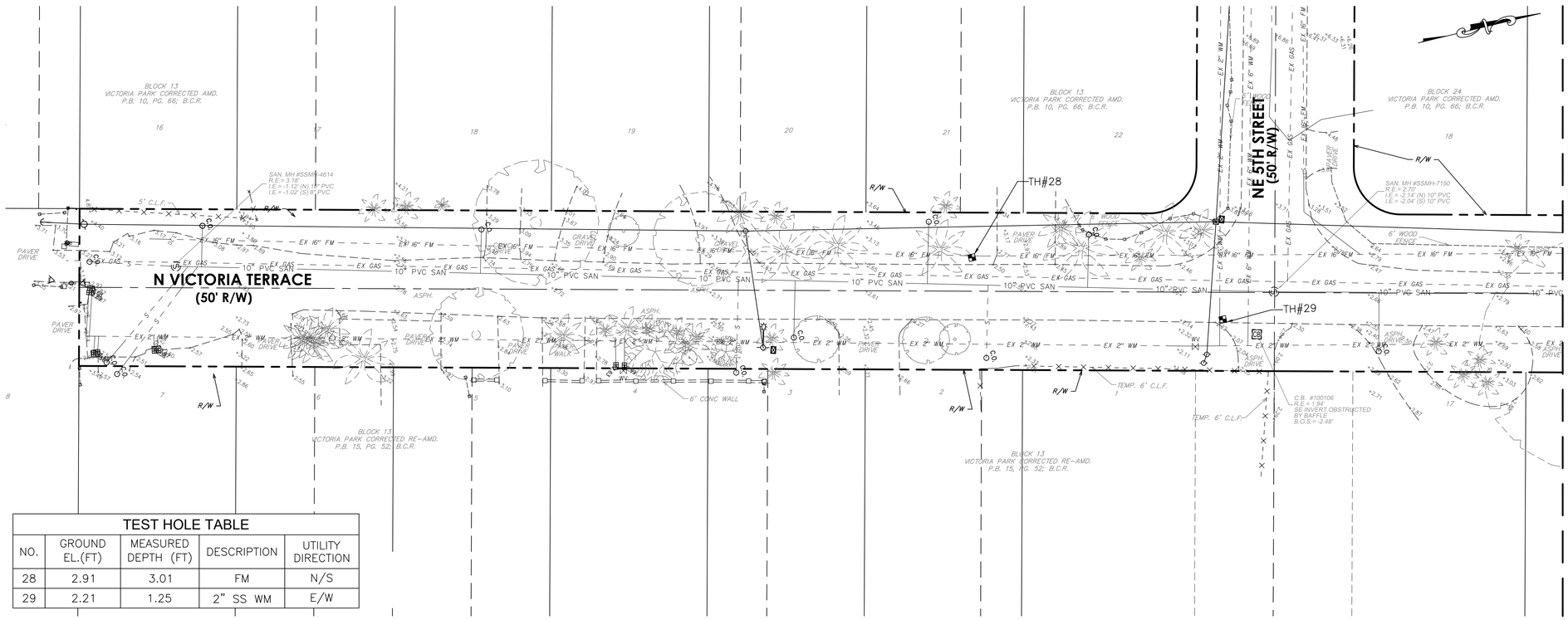
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

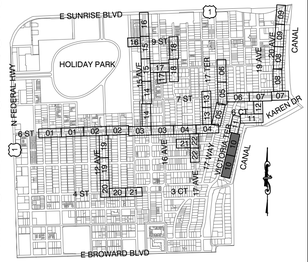
EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-09	17
TOTAL:	233

CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
28	2.91	3.01	FM	N/S
29	2.21	1.25	2" SS WM	E/W



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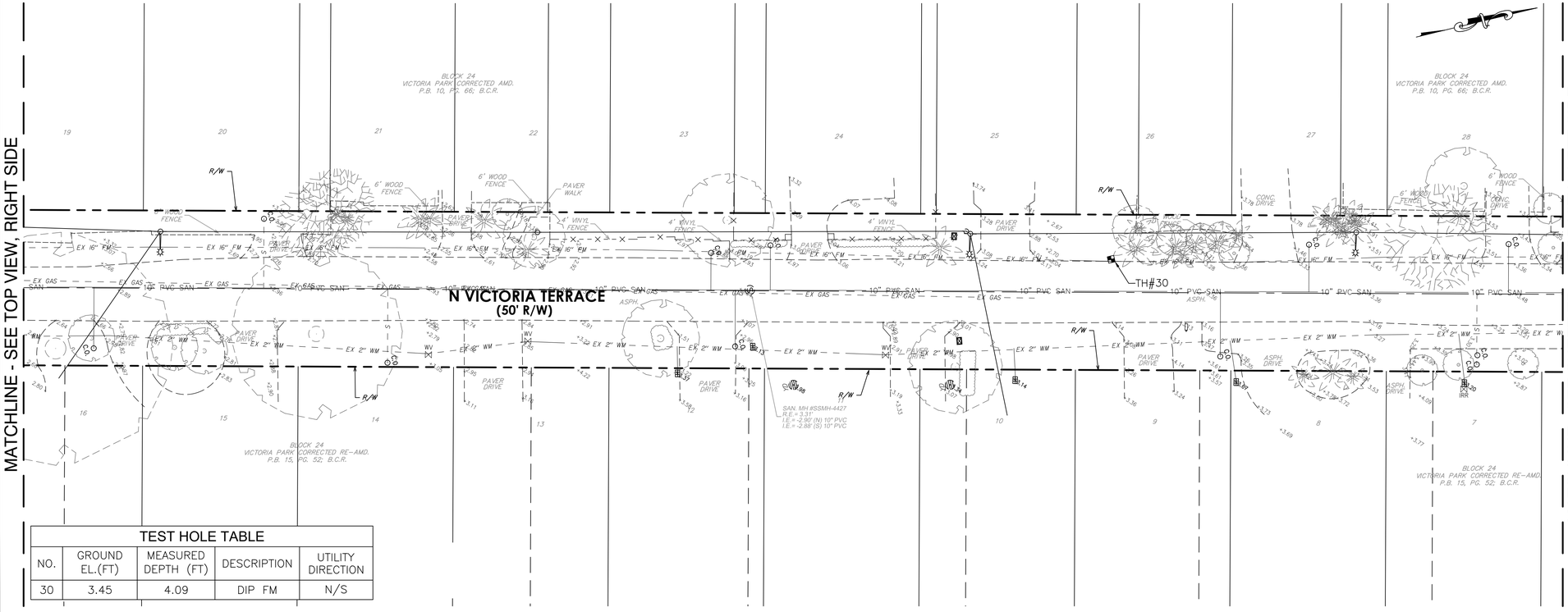
MATCHLINE - SEE TOP VIEW, RIGHT SIDE



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
30	3.45	4.09	DIP FM	N/S

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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
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ENGINEER:
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REG. No: 65558
DATE:
TEL: 954.730.0707
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DRAWN BY: JLS
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CHECKED BY: JJM
FIELD BOOK:

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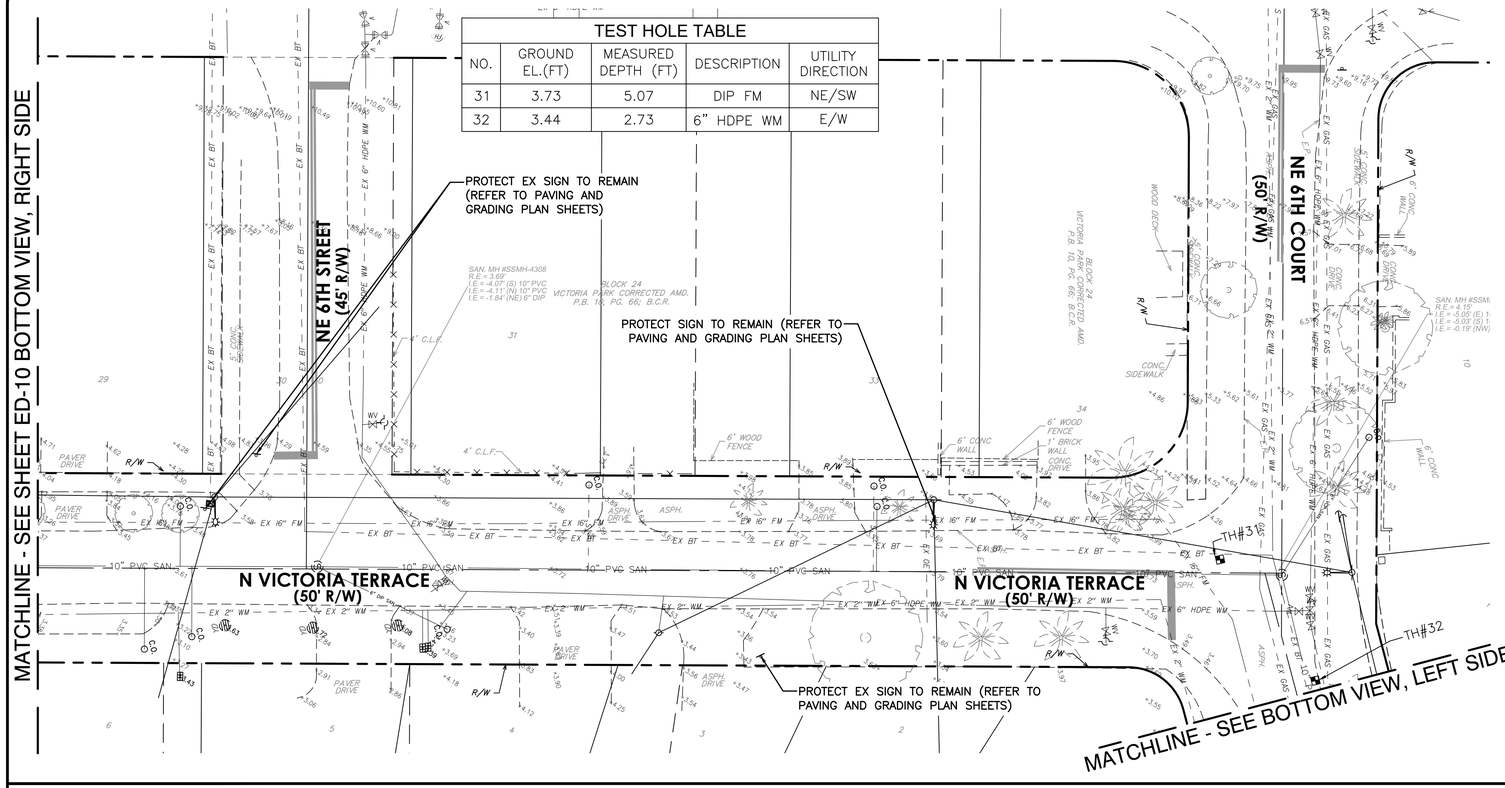
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-10
SHT # 18
TOTAL: 233
CAD FILE: 12082–MULTI–DEMO
DRAWING FILE NO. 4–144–88



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
31	3.73	5.07	DIP FM	NE/SW
32	3.44	2.73	6" HDPE WM	E/W

DEMOLITION HATCH LEGEND:

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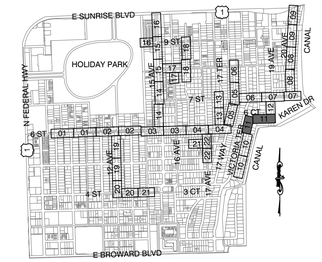

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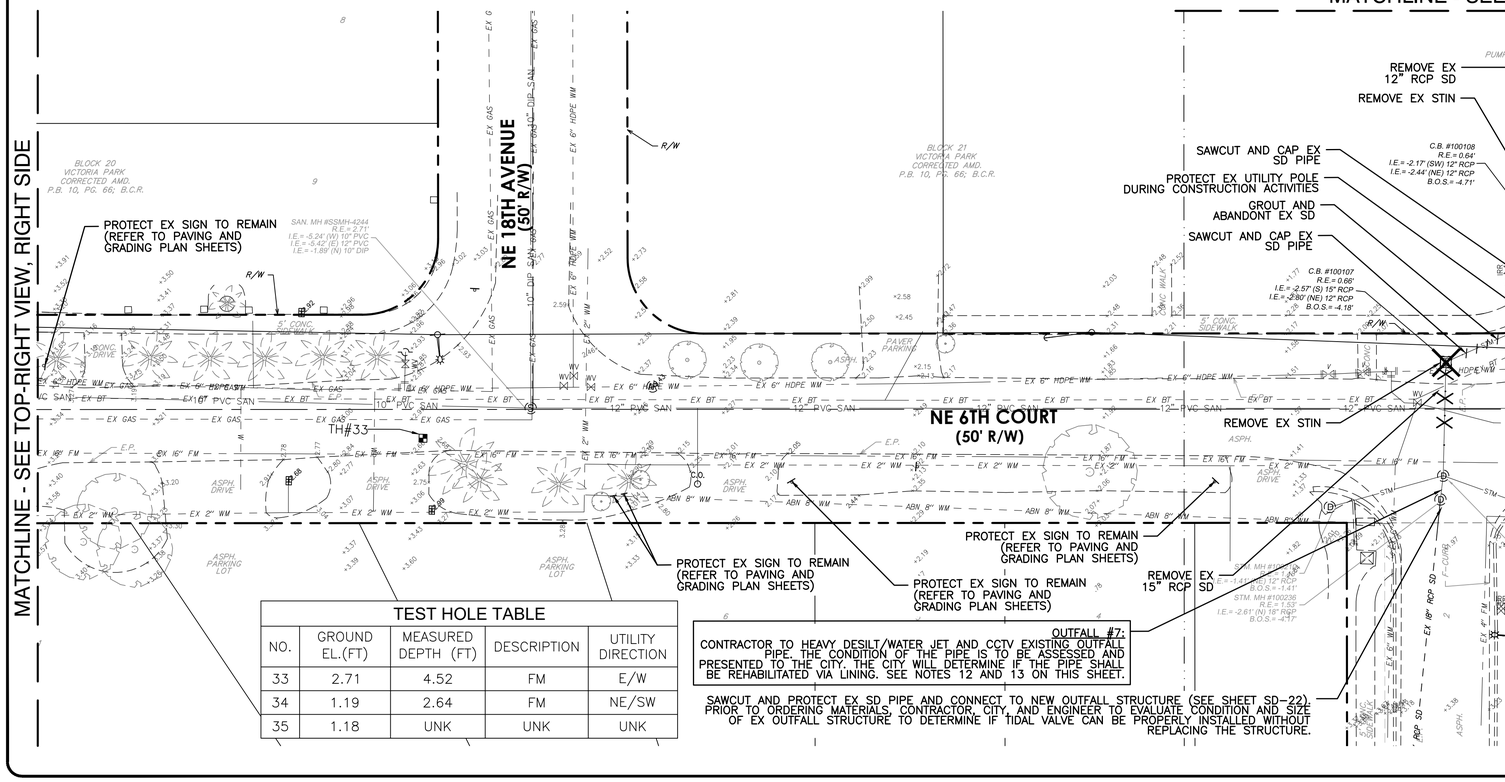


TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
33	2.71	4.52	FM	E/W
34	1.19	2.64	FM	NE/SW
35	1.18	UNK	UNK	UNK

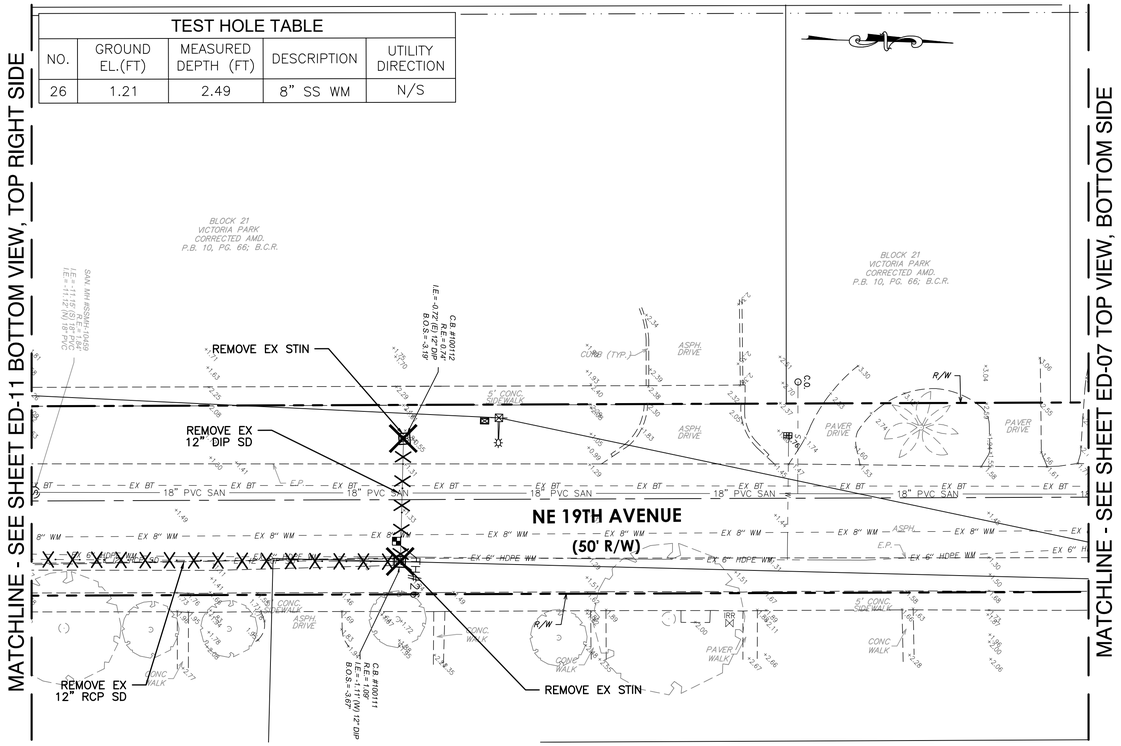
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-11 | SHT # 19
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

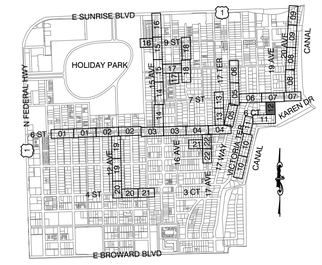
TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
26	1.21	2.49	8" SS WM	N/S



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

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2. CONTRACTOR TO REMOVE AND REPLACE ALL MAILBOXES AS APPLICABLE AND COORDINATE WITH THE POST OFFICE FOR DELIVERY IN THE WORK ZONE.
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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

THIS SPACE WAS INTENTIONALLY LEFT BLANK

ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

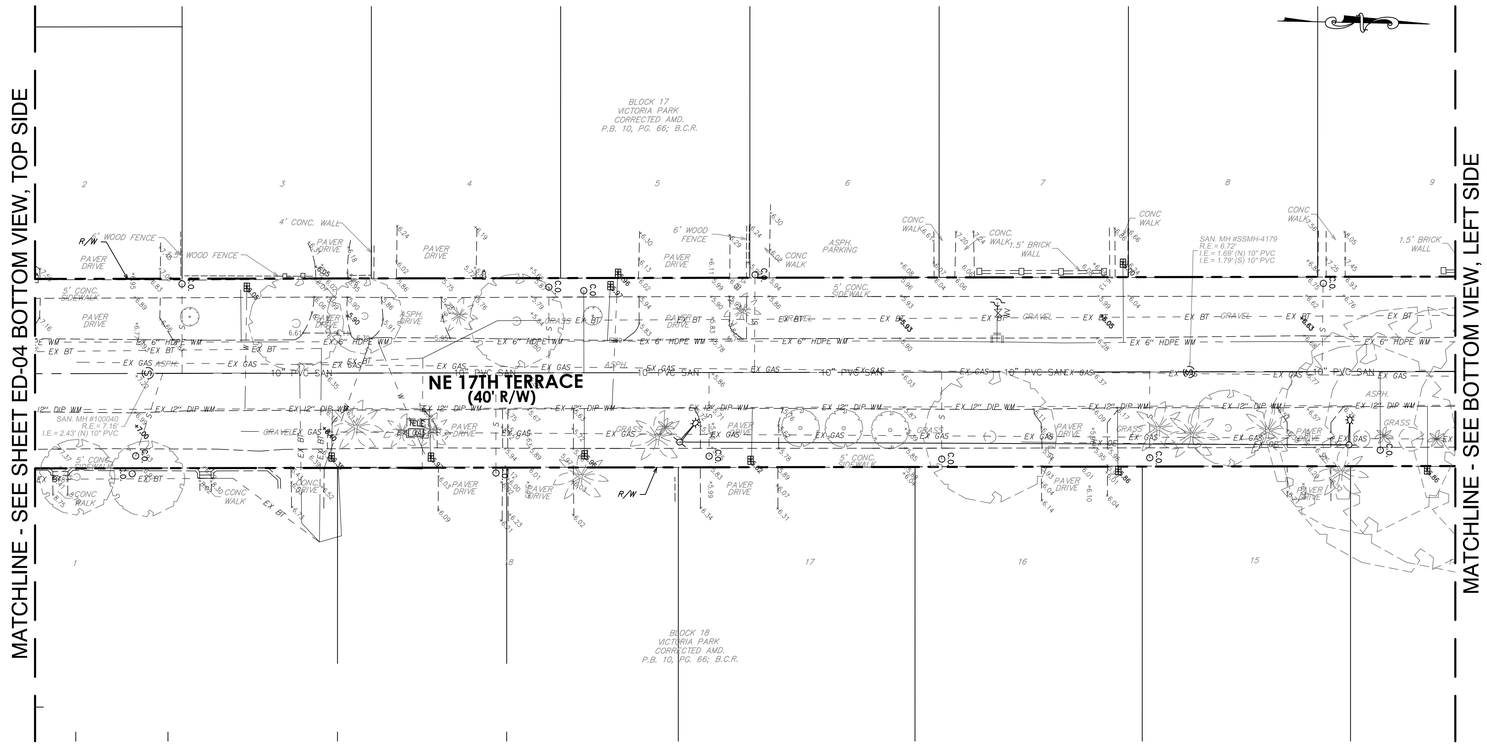
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

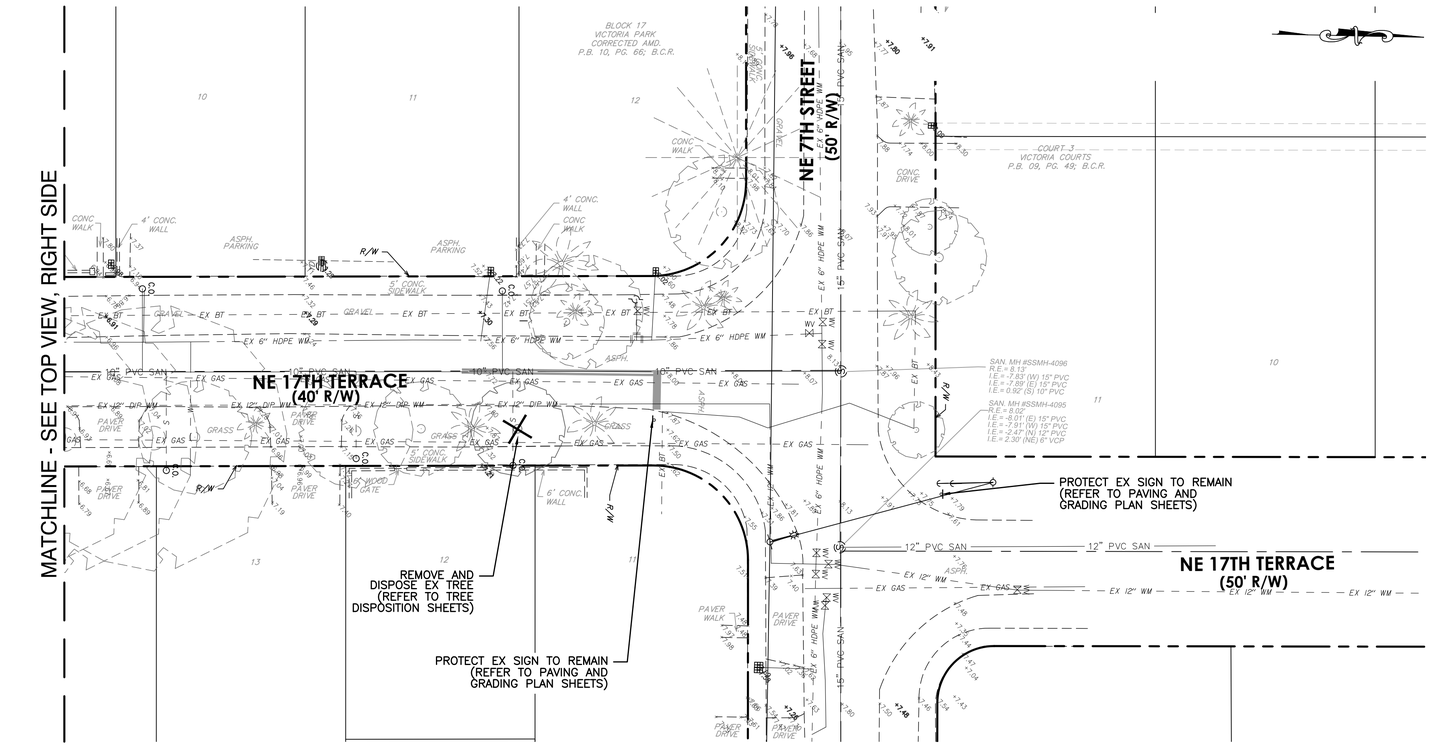
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-12 | SHT # 20
TOTAL: 233
CAD FILE: 12082–MULTI–DEMO
DRAWING FILE NO. 4–144–88



KEY MAP



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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

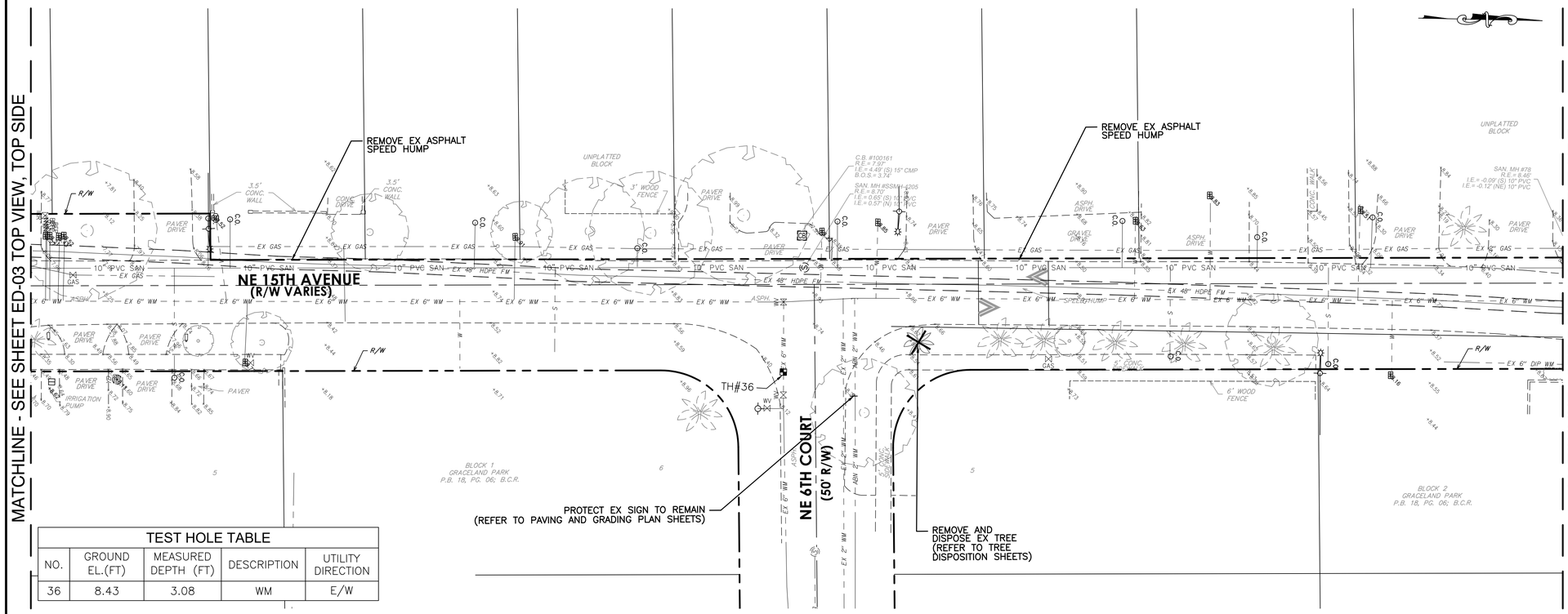
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

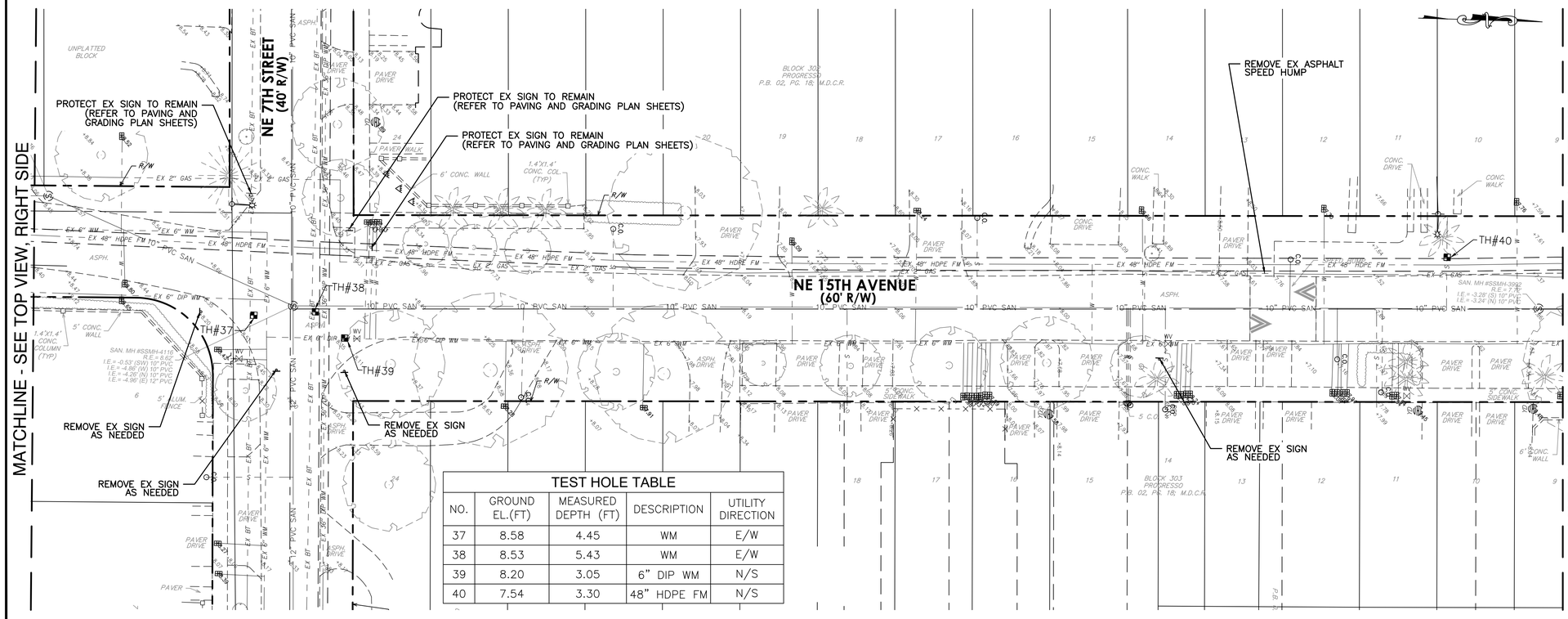
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-13 | SHT # 21
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1748 of 2050



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
36	8.43	3.08	WM	E/W



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
37	8.58	4.45	WM	E/W
38	8.53	5.43	WM	E/W
39	8.20	3.05	6" DIP WM	N/S
40	7.54	3.30	48" HDPE FM	N/S

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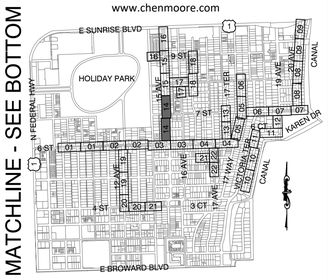

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

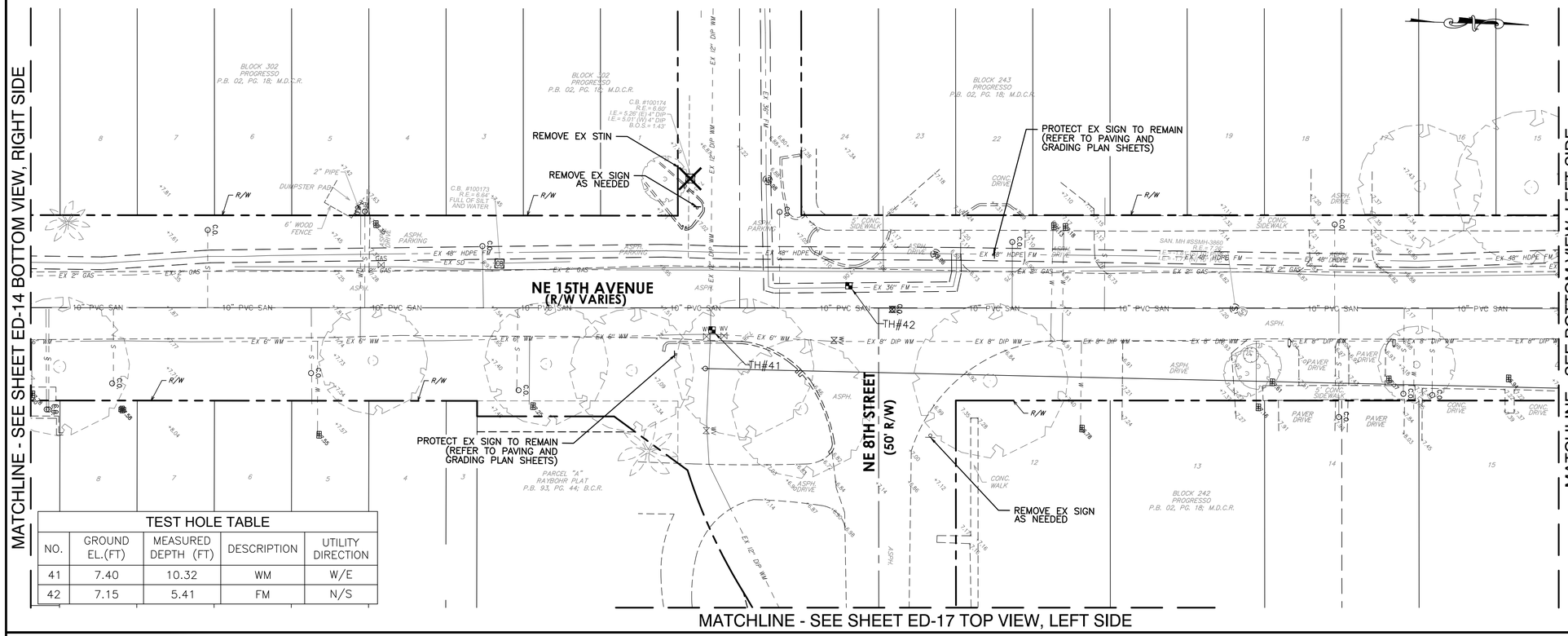
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

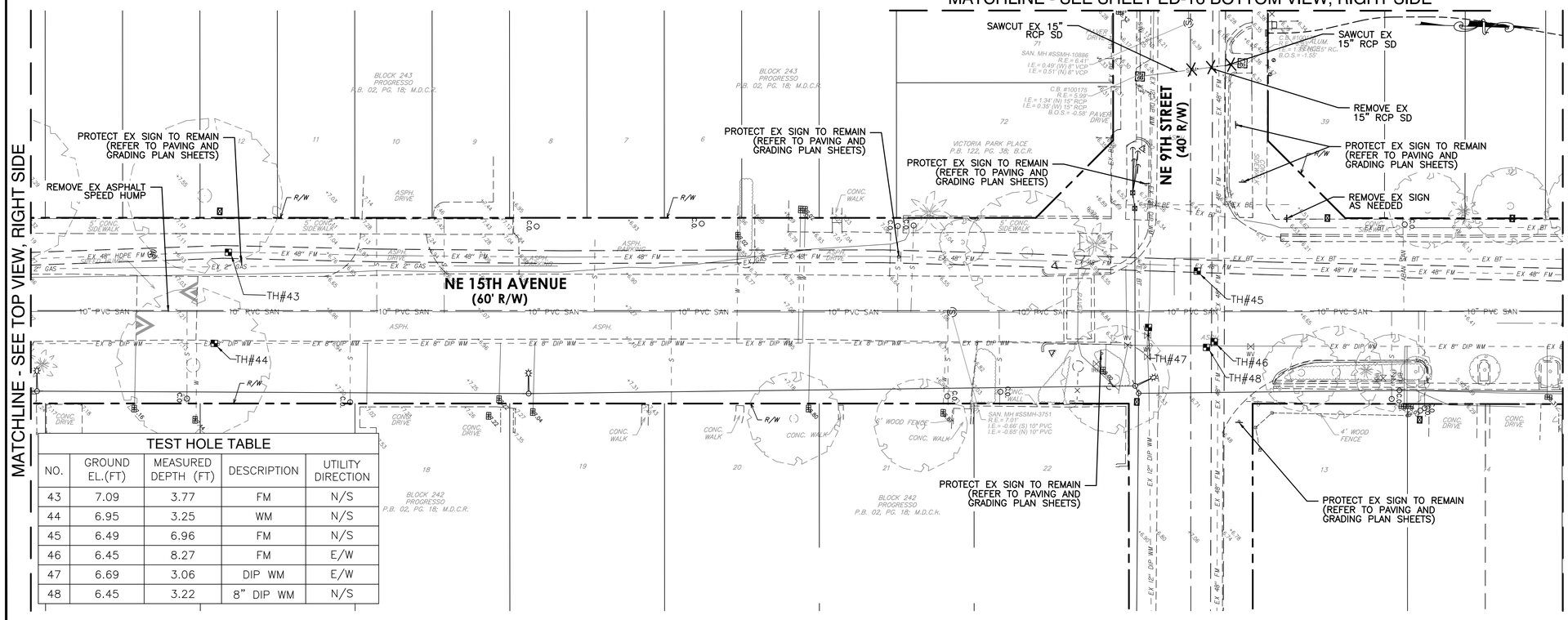
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-14
SHT # 22
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1749 of 2050



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
41	7.40	10.32	WM	W/E
42	7.15	5.41	FM	N/S



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
43	7.09	3.77	FM	N/S
44	6.95	3.25	WM	N/S
45	6.49	6.96	FM	N/S
46	6.45	8.27	FM	E/W
47	6.69	3.06	DIP WM	E/W
48	6.45	3.22	8" DIP WM	N/S

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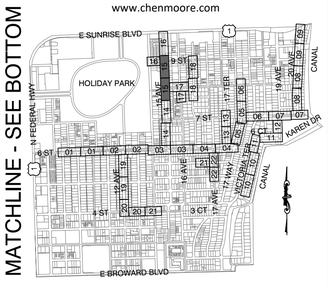

KEY MAP

Sunshine811

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

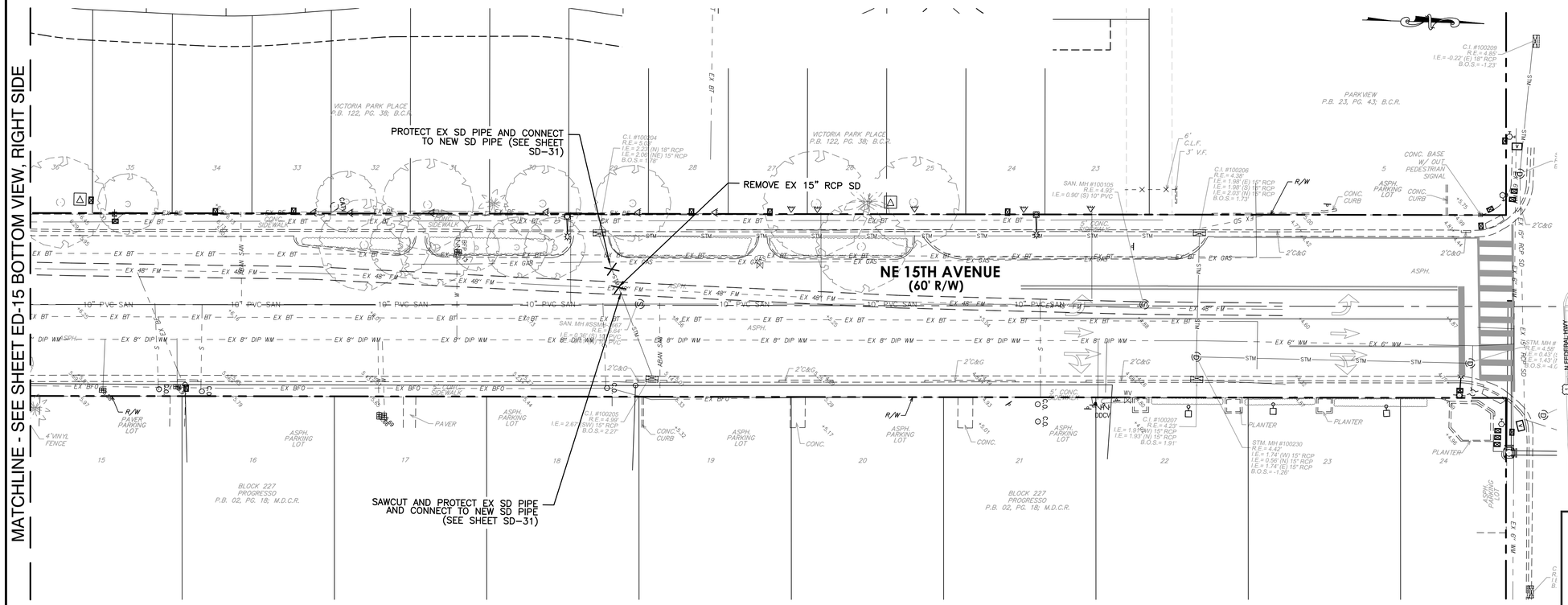
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

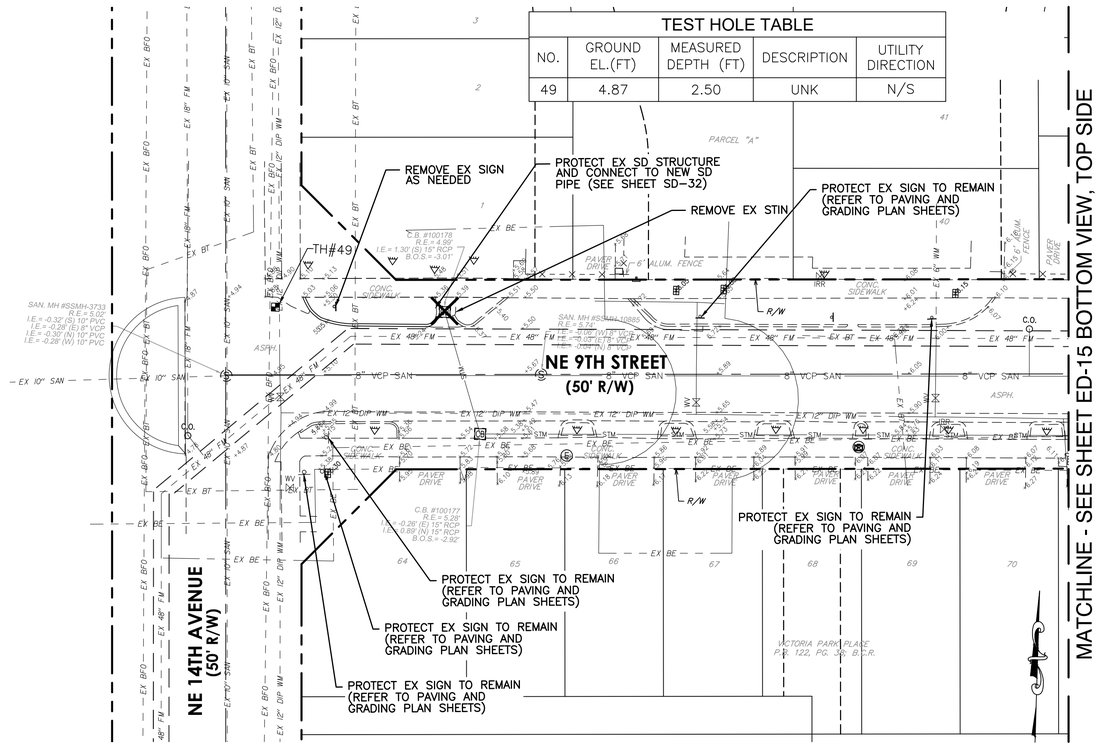
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-15 | SHT # 23
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88





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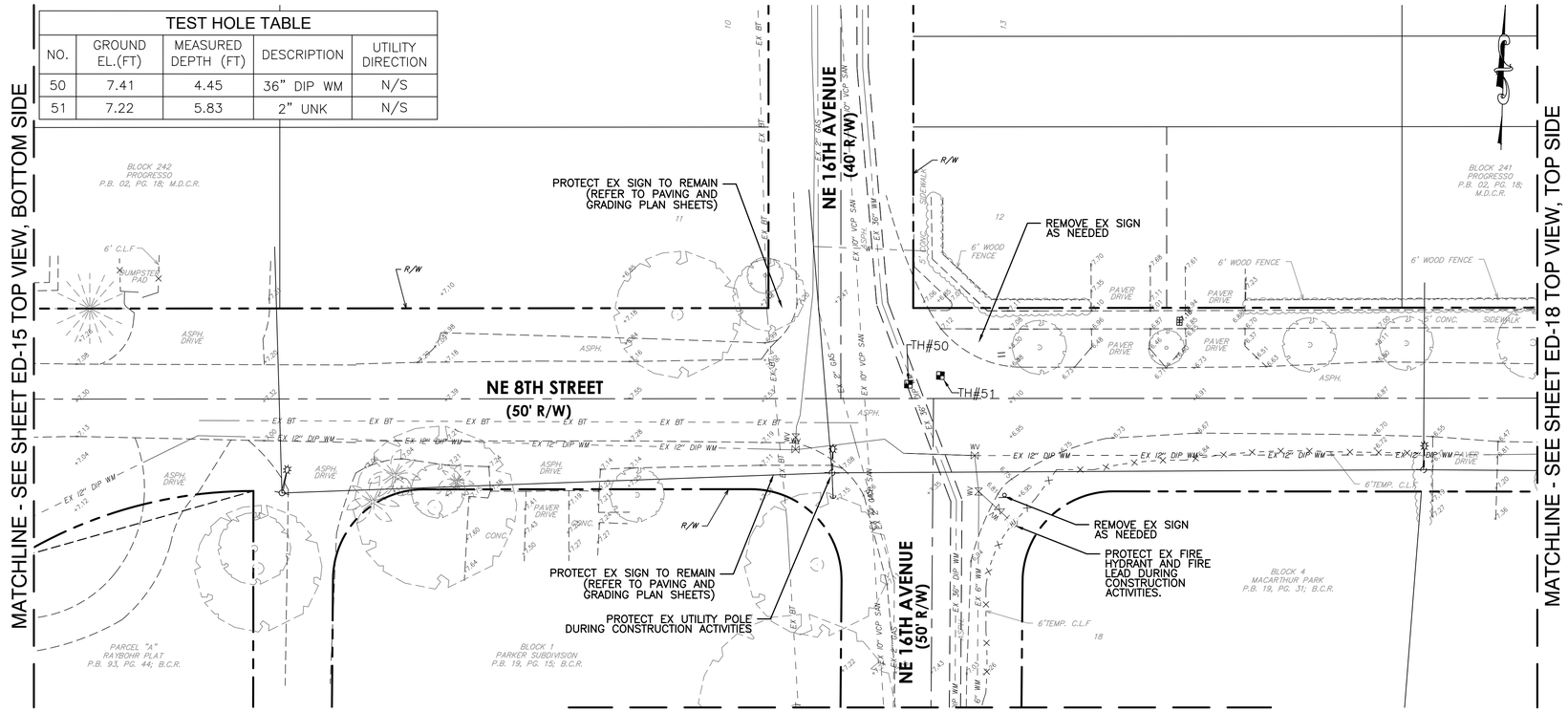
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

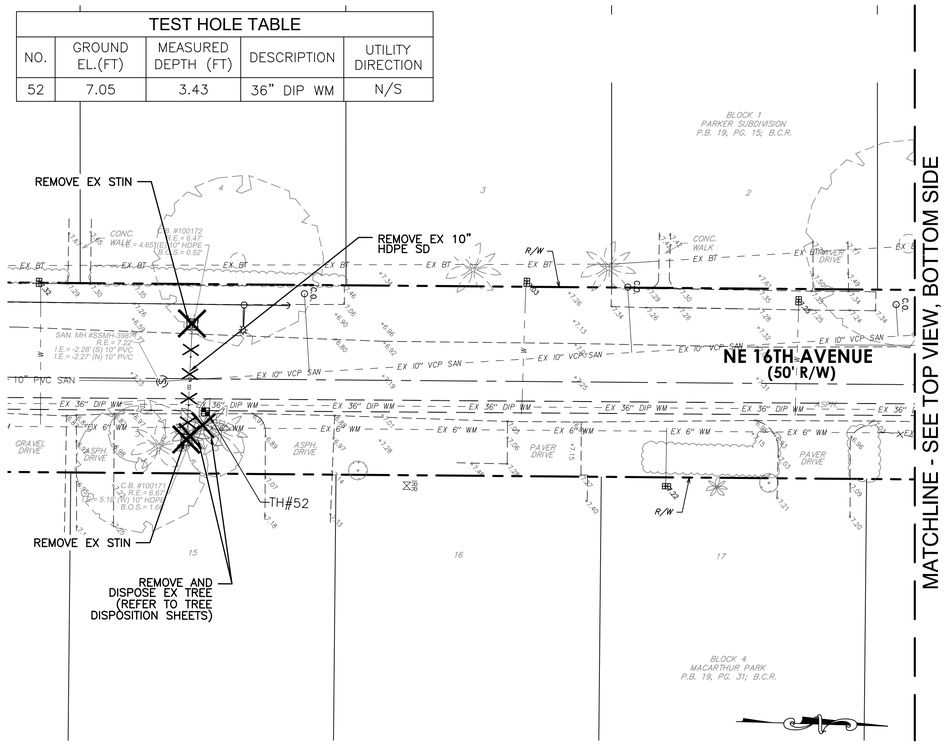
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-16 | SHT # 24
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88

TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
50	7.41	4.45	36" DIP WM	N/S
51	7.22	5.83	2" UNK	N/S



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
52	7.05	3.43	36" DIP WM	N/S



NOTES:

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3. CONTRACTOR TO SAWCUT AT LIMITS OF CONCRETE SIDEWALK AND CURB REMOVAL.
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11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

DEMOLITION HATCH LEGEND:

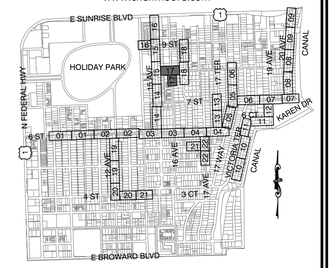
- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

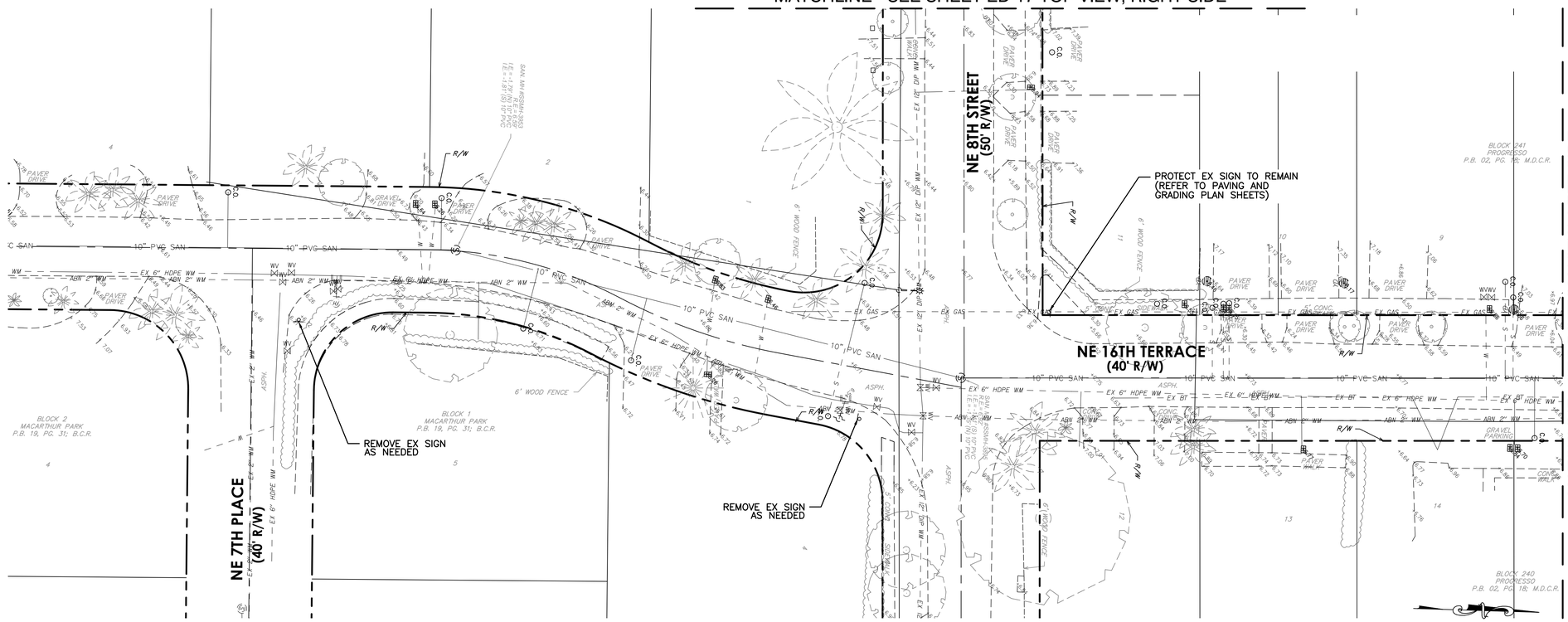
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-17	25
TOTAL:	233
CAD FILE: 12082–MULTI–DEMO	
DRAWING FILE NO. 4–144–88	

CAM #25-0925
Exhibit 1F
Page 1752 of 2050

MATCHLINE - SEE SHEET ED-17 TOP VIEW, RIGHT SIDE



MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

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Suite 600
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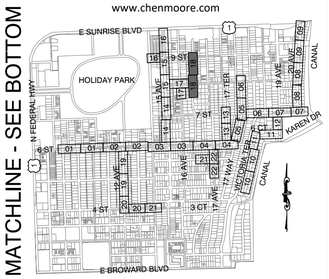

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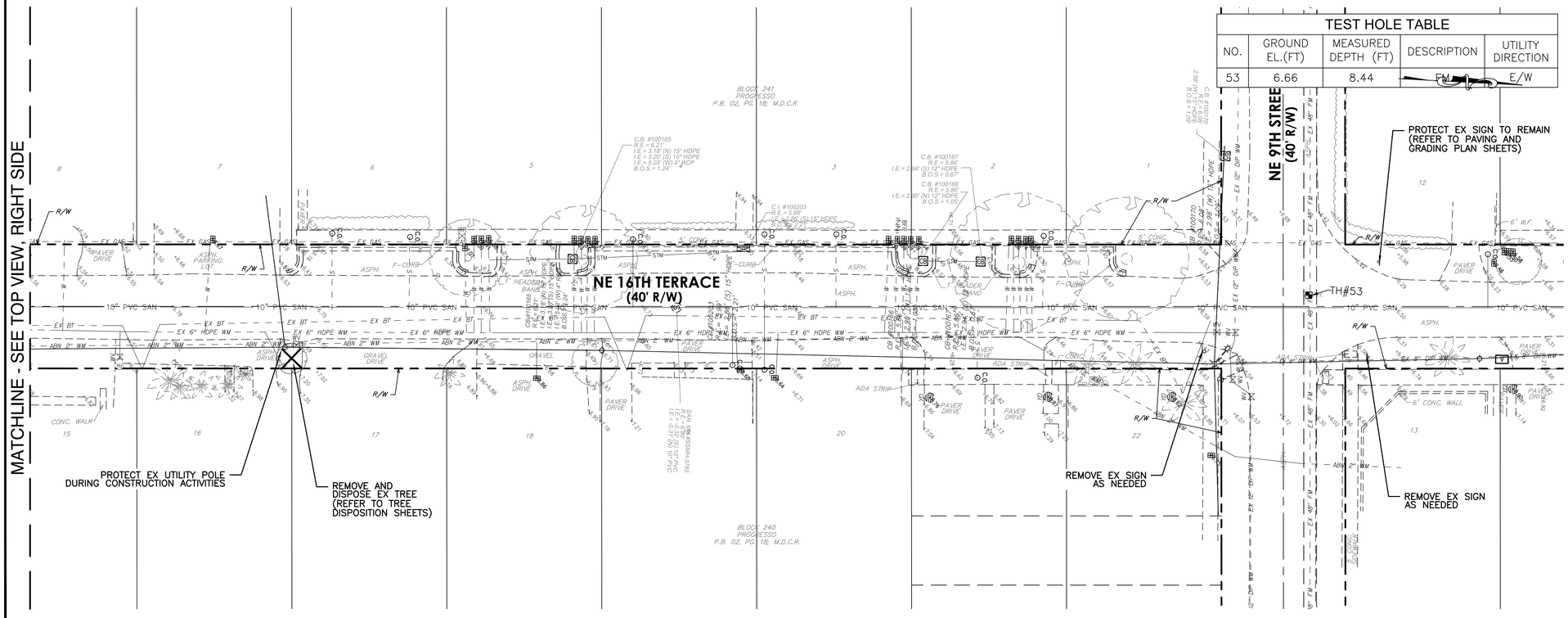

TEST HOLE TABLE

NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
53	6.66	8.44	FM	E/W

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0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

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FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
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CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

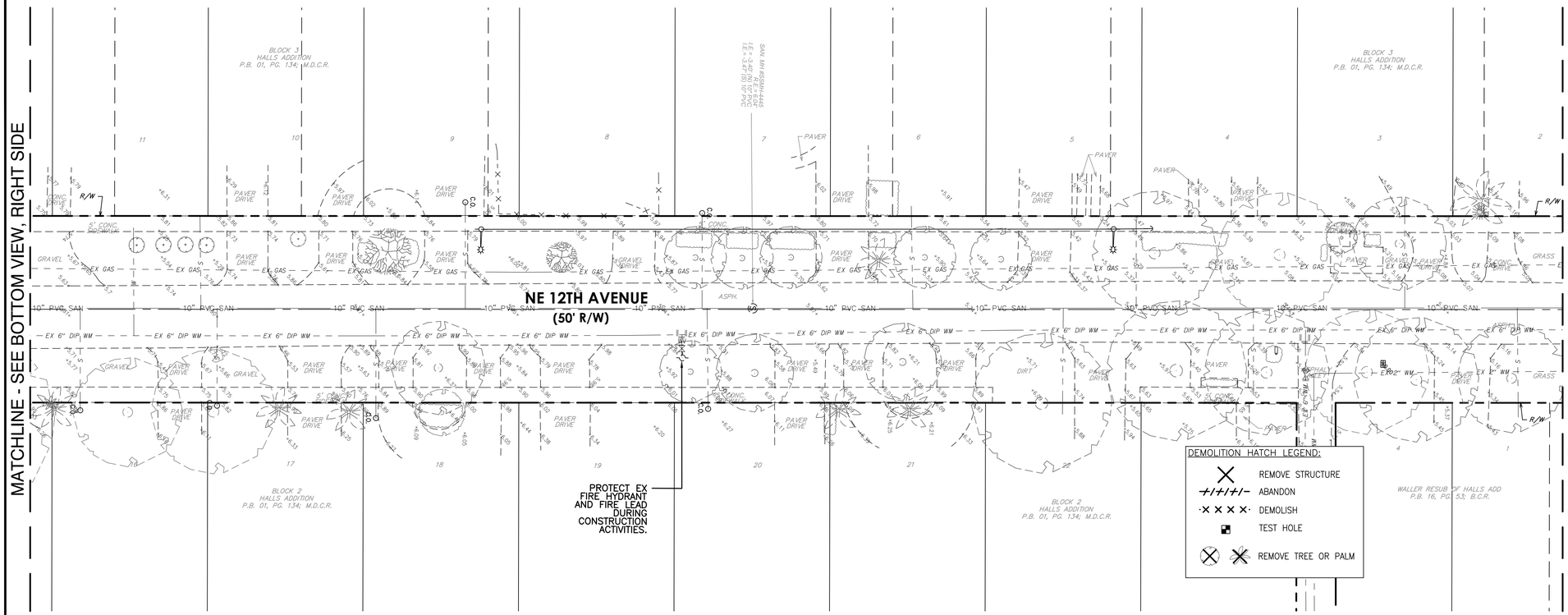
EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-18	26
TOTAL:	233

CAD FILE: 12082–MULTI–DEMO

DRAWING FILE NO. 4–144–88

MATCHLINE - SEE BOTTOM VIEW, RIGHT SIDE



MATCHLINE - SEE SHEET ED-02 TOP VIEW, BOTTOM SIDE

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
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- DEMOLISH
- TEST HOLE
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Hazen

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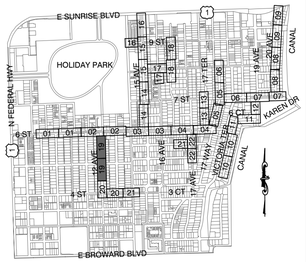

KEY MAP

Sunshine811
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ENGINEER:
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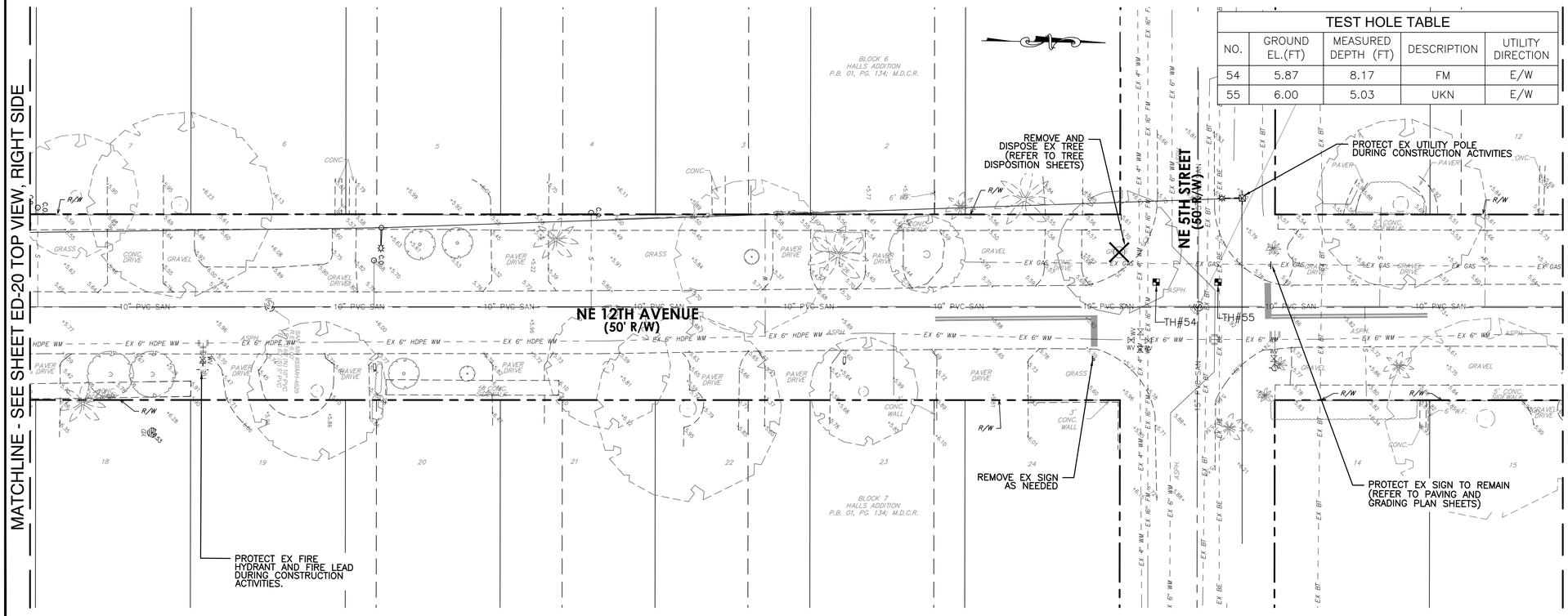
DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

MATCHLINE - SEE SHEET ED-20 TOP VIEW, RIGHT SIDE



TEST HOLE TABLE

NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
54	5.87	8.17	FM	E/W
55	6.00	5.03	UKN	E/W

MATCHLINE - SEE TOP VIEW, LEFT SIDE

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
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0 20' 40'

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ISSUED FOR BID

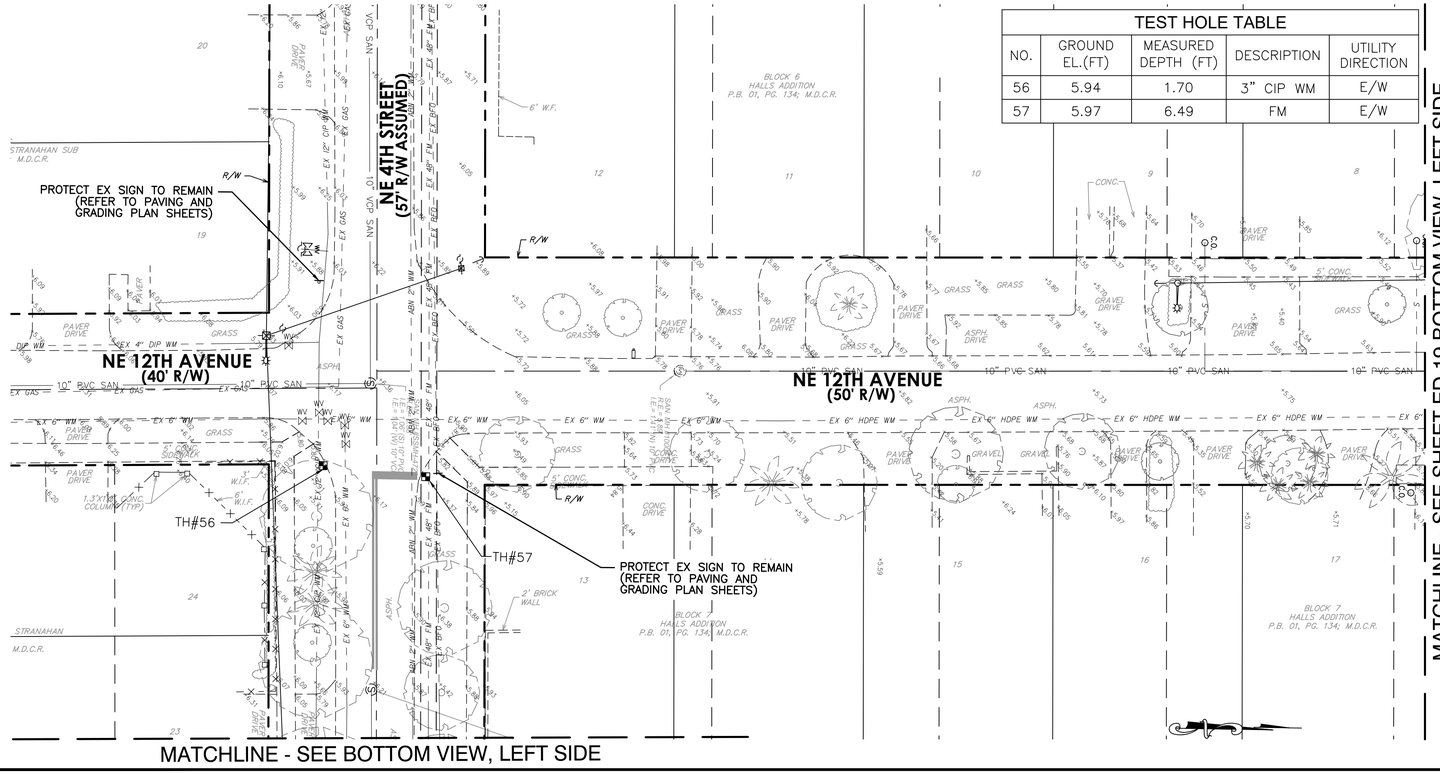
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

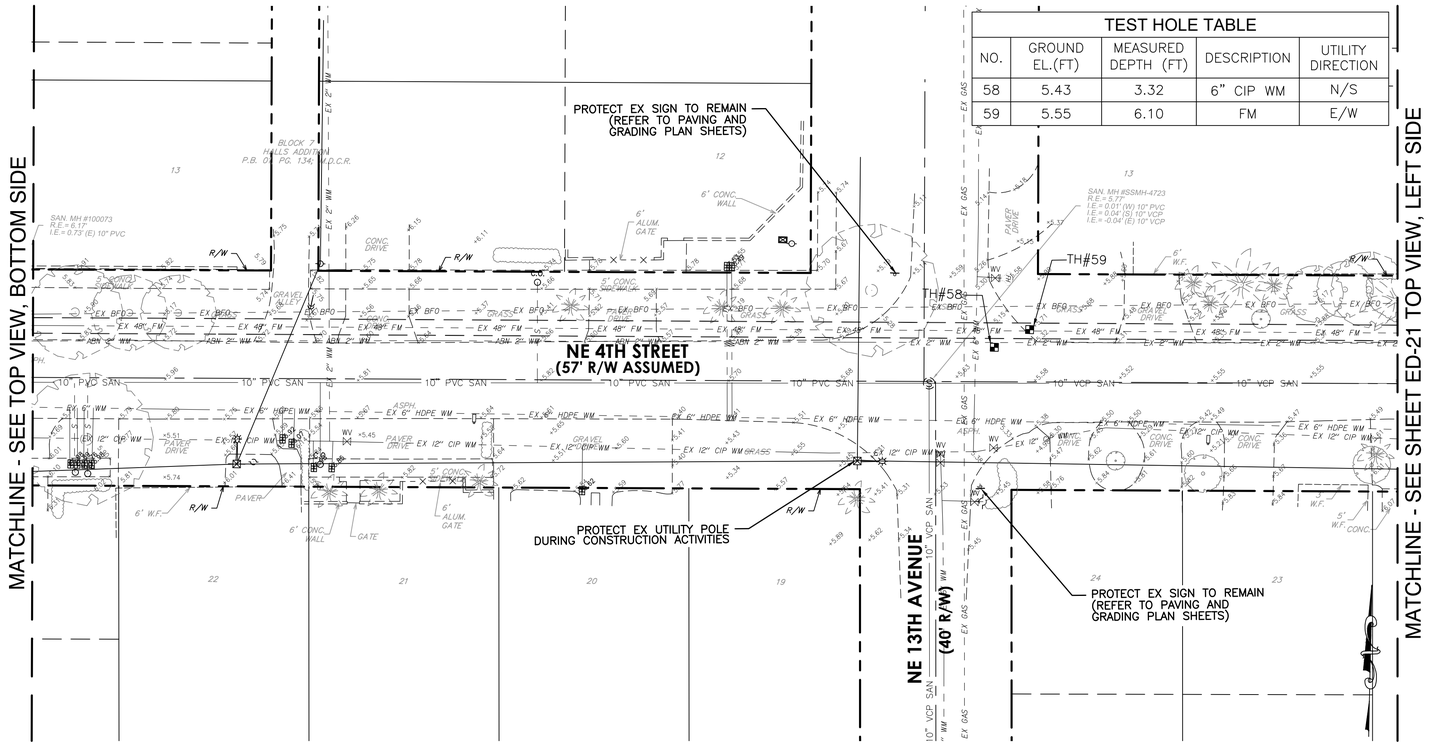
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-19	27
TOTAL:	233
CAD FILE: 12082–MULTI–DEMO	
DRAWING FILE NO. 4–144–88	



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
56	5.94	1.70	3" CIP WM	E/W
57	5.97	6.49	FM	E/W



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
58	5.43	3.32	6" CIP WM	N/S
59	5.55	6.10	FM	E/W

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0 20' 40'

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- REMOVE TREE OR PALM

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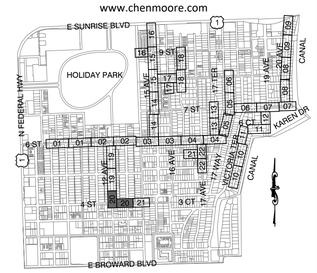

KEY MAP

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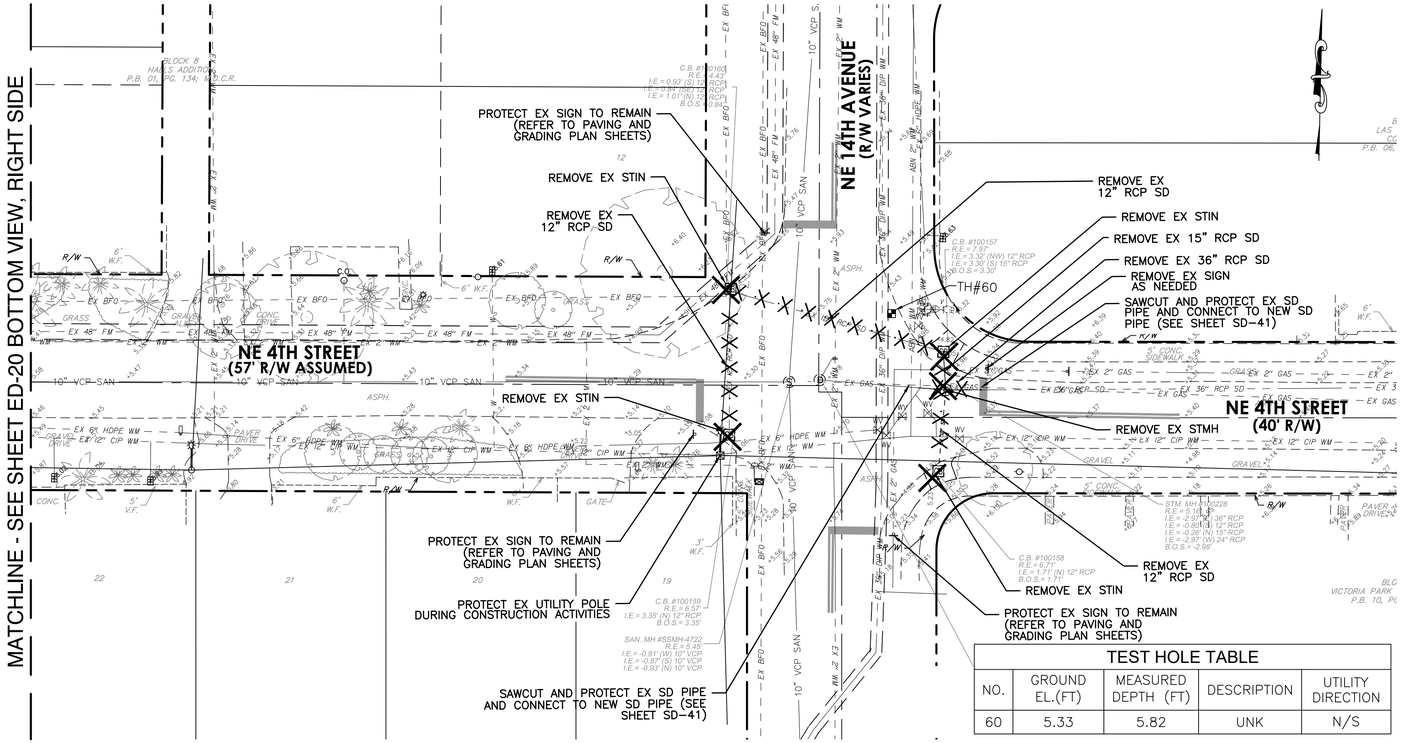
REVISIONS

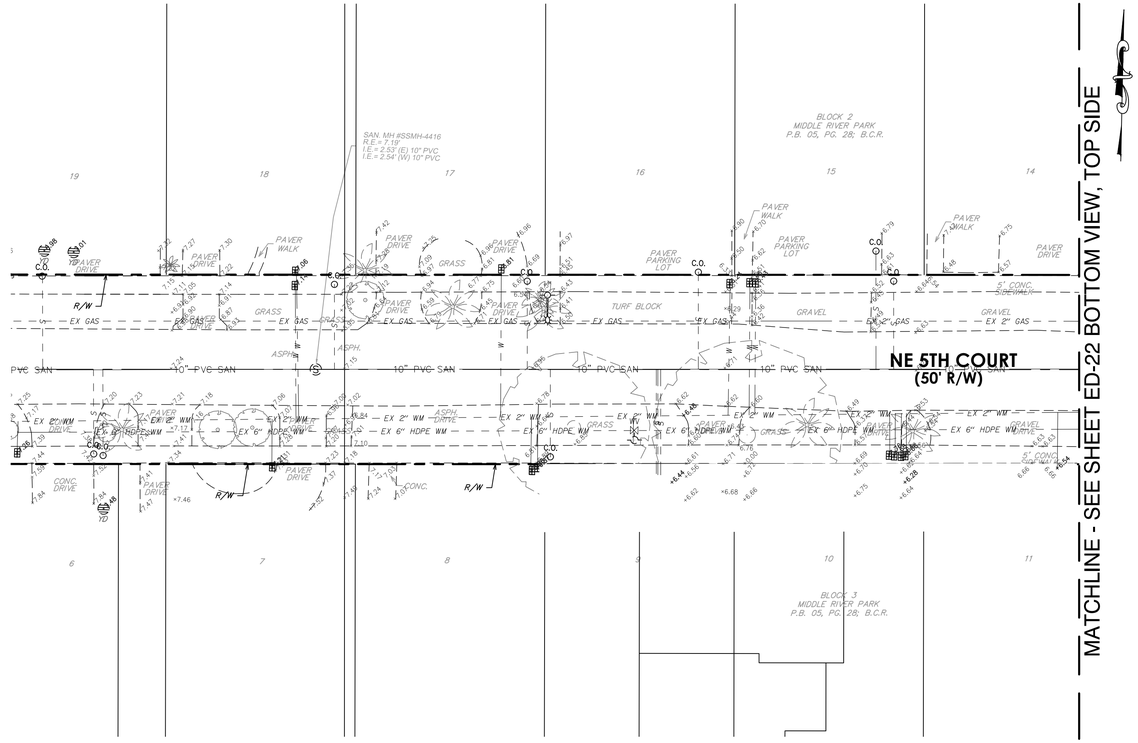
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-20	28
TOTAL:	233

CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88



TEST HOLE TABLE				
NO.	GROUND EL.(FT)	MEASURED DEPTH (FT)	DESCRIPTION	UTILITY DIRECTION
60	5.33	5.82	UNK	N/S

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0 20' 40'

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- ABANDON
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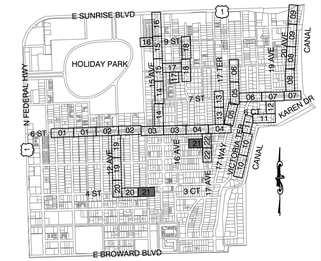
www.chenmoore.com



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

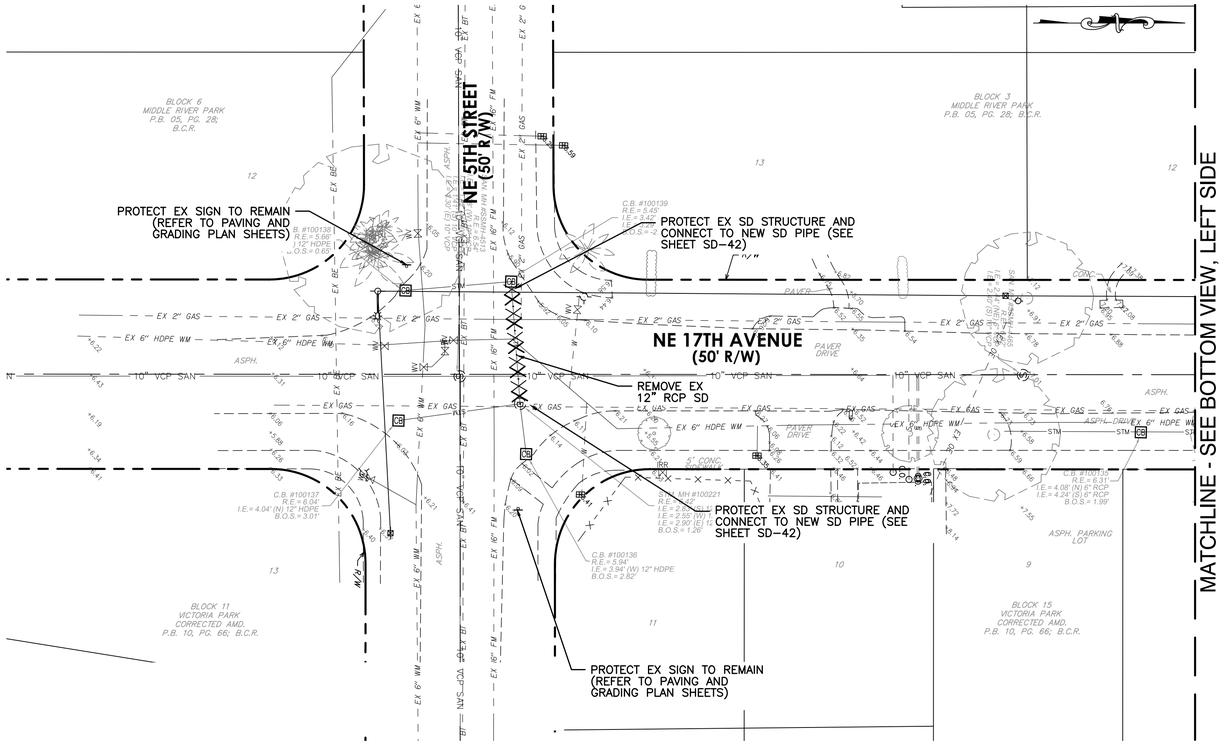
NO.	DATE	BY	CHK'D	DESCRIPTION

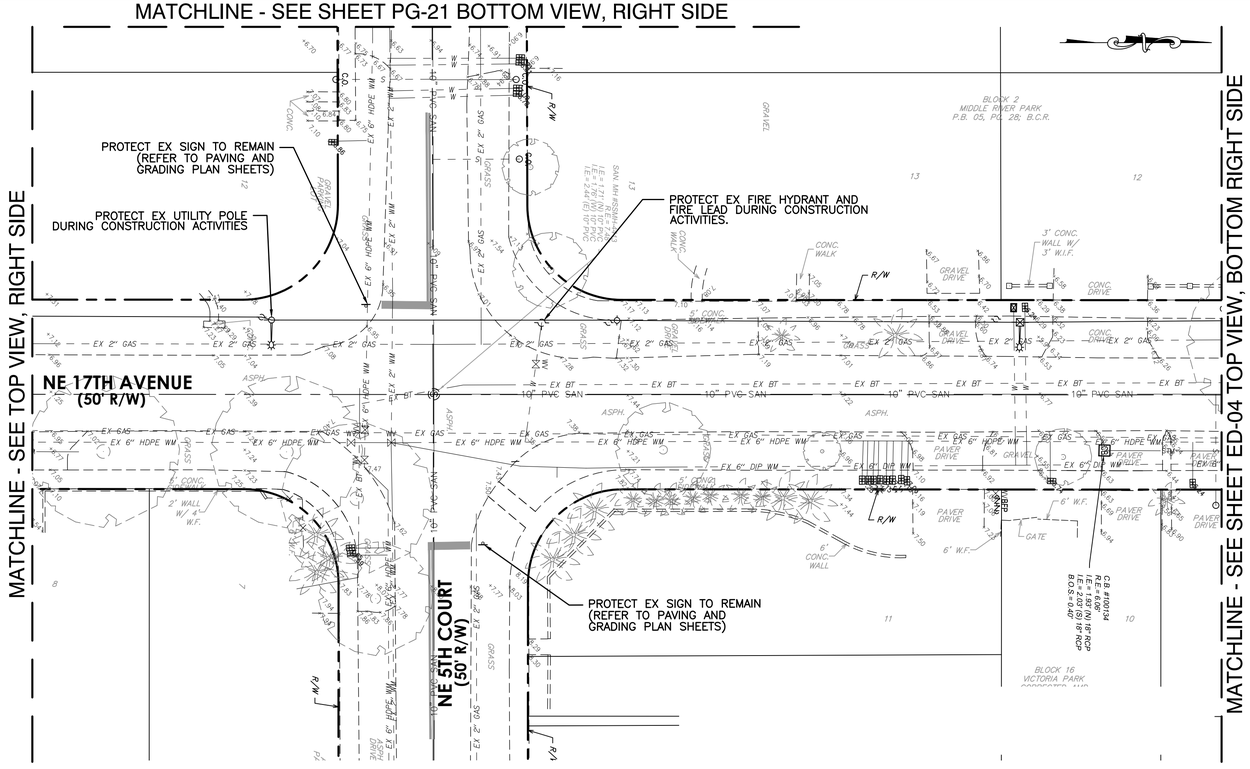
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO.	SHT #
ED-21	29
TOTAL:	233

CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88





Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
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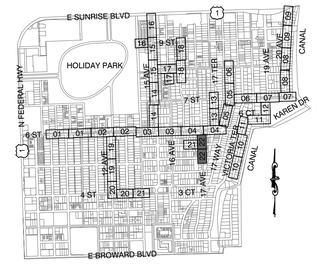

KEY MAP

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NOTES:

1. WATER VALVES, ELECTRICAL BOXES, AND OTHER FEATURES AT GRADE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED IN THIS PLAN.
2. CONTRACTOR TO REMOVE AND REPLACE ALL MAILBOXES AS APPLICABLE AND COORDINATE WITH THE POST OFFICE FOR DELIVERY IN THE WORK ZONE.
3. CONTRACTOR TO SAWCUT AT LIMITS OF CONCRETE SIDEWALK AND CURB REMOVAL.
4. CONTRACTOR IS ADVISED THAT DISCREPANCIES MAY EXIST BETWEEN THE SURVEY DATA AND TEST HOLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, WHETHER SHOWN ON THE PLANS OR NOT, AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR SHALL FIELD MEASURE ALL EXISTING STORM PIPE DIAMETERS AND VERIFY PIPE MATERIAL PRIOR TO ORDERING THE MATERIALS. PIPE DIMENSIONS SHOWN WHERE OBTAINED FORM CITY GEODATABASE AND SURVEY INFORMATION.
6. FOR ALL CATCH BASINS TO BE REPLACED, CONTRACTOR SHALL REMOVE EXISTING PIPE AS NECESSARY FOR DEMOLITIONS/REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH PROPOSED STRUCTURE AS SHOWN ON PLANS. REMOVAL OF EXISTING PIPE SHALL BE AS TO ALLOW FOR WATER TIGHT CONNECTION TO REMAINING PIPELINE AND PROPOSED STRUCTURE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. CONTRACTOR SHALL REPAIR/REPLACE SURROUNDING GROUND AFFECTED BY CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: PAVERS, SIDEWALKS, SOD, LANDSCAPING AND BRING IT TO EXISTING OR BETTER CONDITIONS.
8. CONTRACTOR TO PROVIDE, REPLACE AND MAINTAIN TREE PROTECTION BARRICADES DURING CONSTRUCTION FOR ALL EXISTING TREES TO REMAIN.
9. TREES TO BE REMOVED, RELOCATED OR REPLACED WITH THE PROJECT AREA SHALL BE SPECIFICALLY DESIGNATED IN THE FIELD AS THE PROJECT PROGRESSES. REFER TO SPECIFICATIONS.
10. CONTRACTOR SHALL BE ADVISED AS TO THE POSSIBLE PRESENCE OF ASBESTOS CEMENT PIPE (ACP) WITHIN AND IMMEDIATELY BEYOND THE PROJECT LIMITS. AS SUCH CONTRACTOR SHALL IN THE COURSE OF PERFORMING HIS WORK, TAKE NECESSARY PRECAUTIONS AS TO NOT DISTURB BREAK OR OTHERWISE DAMAGE ACP. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITH ACP BEFORE BEGINNING WORK.
11. CONTRACTOR TO REMOVE AND CAREFULLY STORE FOR FUTURE REINSTALLATION, EXISTING BRICK PAVERS OF IMPACTED DRIVEWAYS AND WALKWAYS

0 20' 40'

DEMOLITION HATCH LEGEND:

- REMOVE STRUCTURE
- ABANDON
- DEMOLISH
- TEST HOLE
- REMOVE TREE OR PALM

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

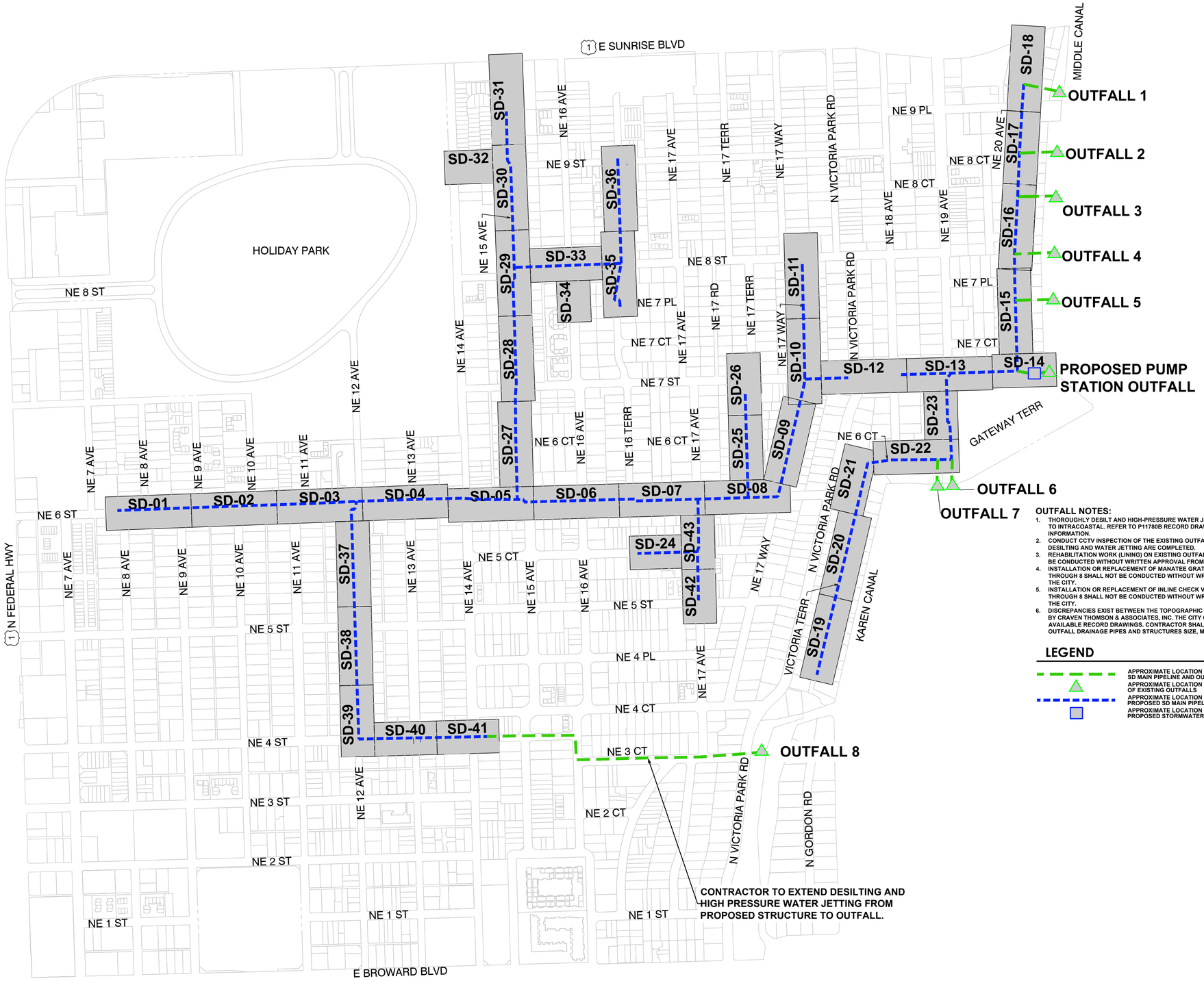
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

EXISTING SITE AND DEMOLITION PLAN

SHEET NO. ED-22 | SHT # 30
TOTAL: 233
CAD FILE: 12082-MULTI-DEMO
DRAWING FILE NO. 4-144-88



OUTFALL NOTES:

1. THOROUGHLY DESILT AND HIGH-PRESSURE WATER JET EXISTING OUTFALL(S) TO INTRACOASTAL. REFER TO P117808 RECORD DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONDUCT CCTV INSPECTION OF THE EXISTING OUTFALL SYSTEMS AFTER DESILTING AND WATER JETTING ARE COMPLETED.
3. REHABILITATION WORK (LINING) ON EXISTING OUTFALL SYSTEM(S) SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
4. INSTALLATION OR REPLACEMENT OF MANATEE GRATES ON OUTFALLS 1 THROUGH 8 SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
5. INSTALLATION OR REPLACEMENT OF INLINE CHECK VALVE ON OUTFALLS 1 THROUGH 8 SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
6. DISCREPANCIES EXIST BETWEEN THE TOPOGRAPHIC SITE SURVEY PREPARED BY CRAVEN THOMSON & ASSOCIATES, INC. THE CITY GIS ATLAS, AND THE AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING OUTFALL DRAINAGE PIPES AND STRUCTURES SIZE, MATERIAL, AND LOCATION.

LEGEND

- APPROXIMATE LOCATION OF EXISTING SD MAIN PIPELINE AND OUTFALL PIPES
- APPROXIMATE LOCATION OF EXISTING OUTFALLS
- APPROXIMATE LOCATION OF PROPOSED SD MAIN PIPELINE
- APPROXIMATE LOCATION OF PROPOSED STORMWATER OUTFALL

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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500 West Cypress Creek Road,
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ENGINEER: DAVID E. CASTRO FELIU, P.E.
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

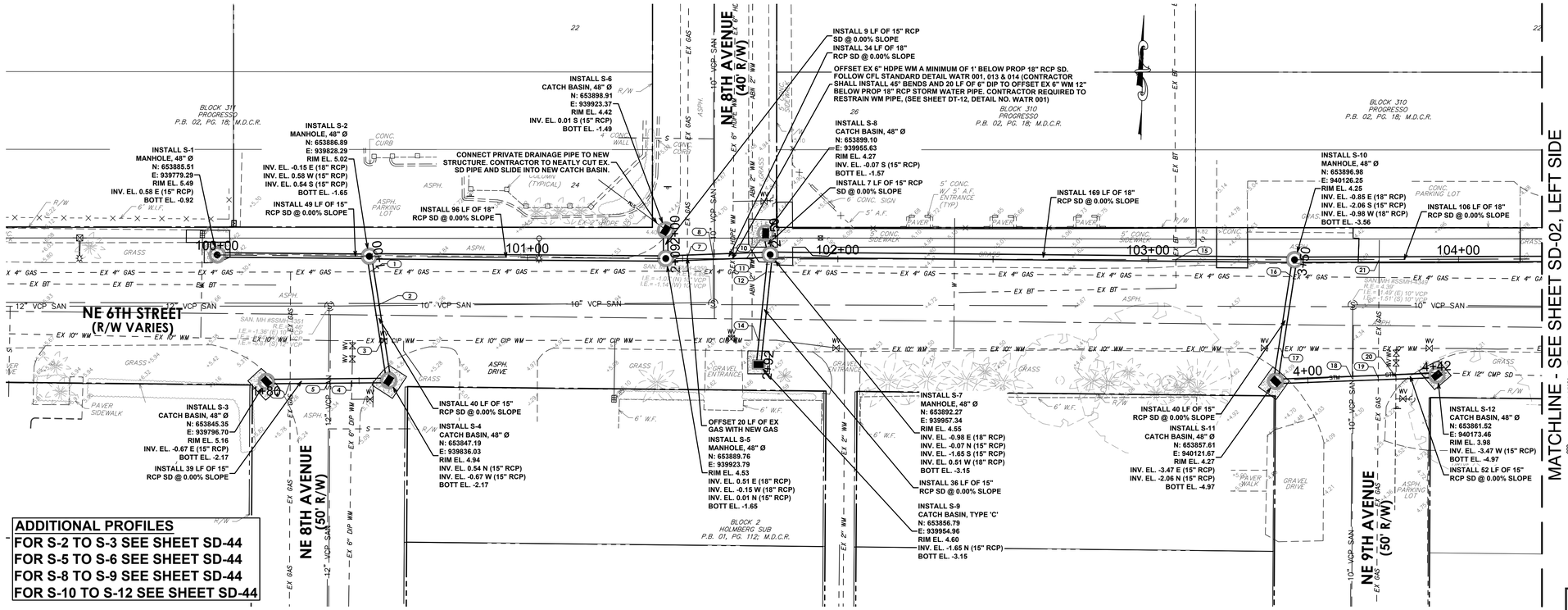
REVISIONS

NO.	DATE	BY	DESCRIPTION	CHK'D

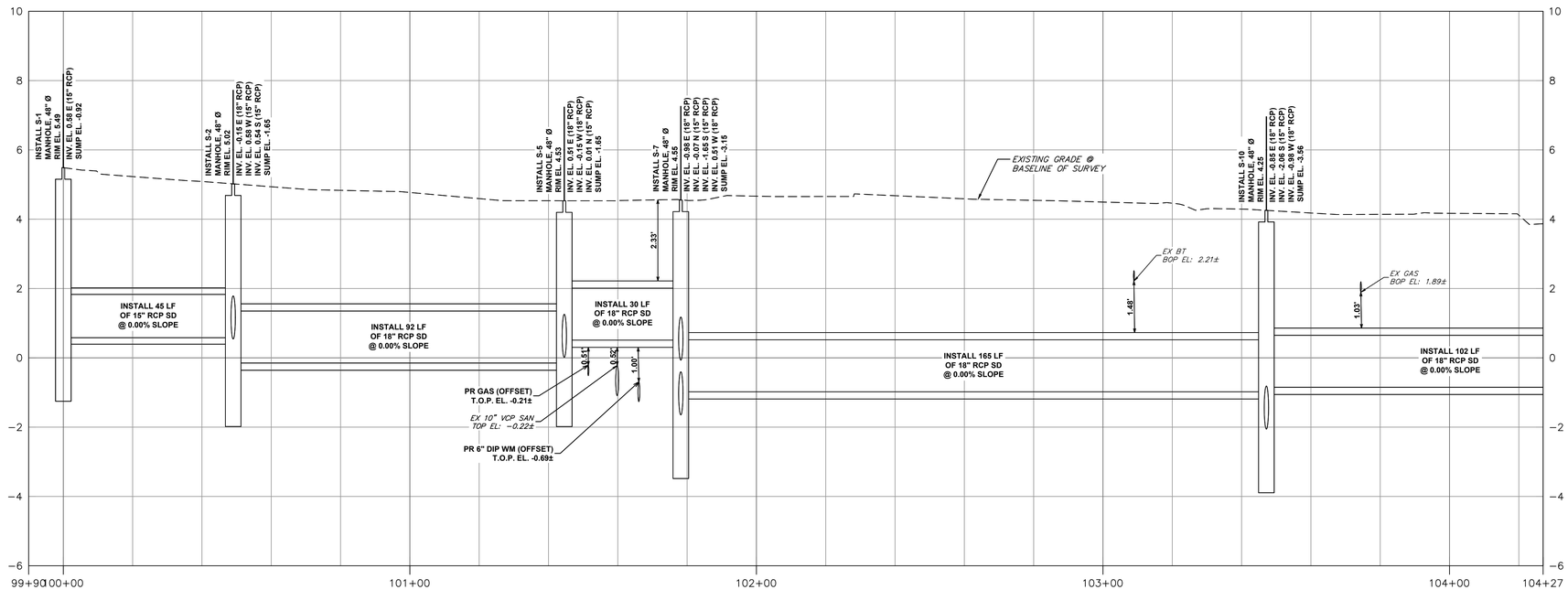
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE KEY MAP

SHEET NO.	SHT #
SD-00	31
TOTAL:	233
CAD FILE: 12082-SD-00	
DRAWING FILE NO. 4-144-88	



PLAN
1"=20'-0"



NE 6TH ST (WEST)
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

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FAX: 954.730.2030

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

DRAWN BY:	DATE:		
JLS	03/25/25		
DESIGNED BY:	SCALE:	CHECKED BY:	FIELD BOOK:
DECF	AS SHOWN	JJM	

REVISIONS

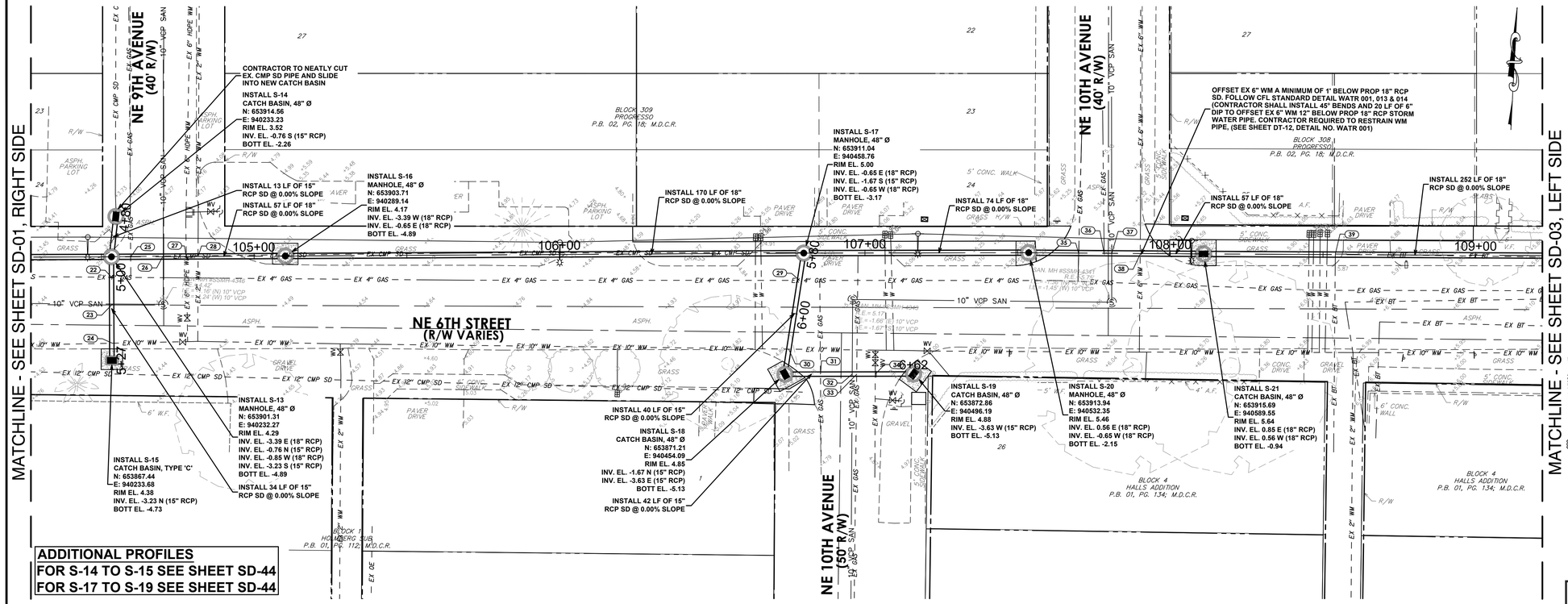
NO.	DATE	BY	CHK'D	DESCRIPTION

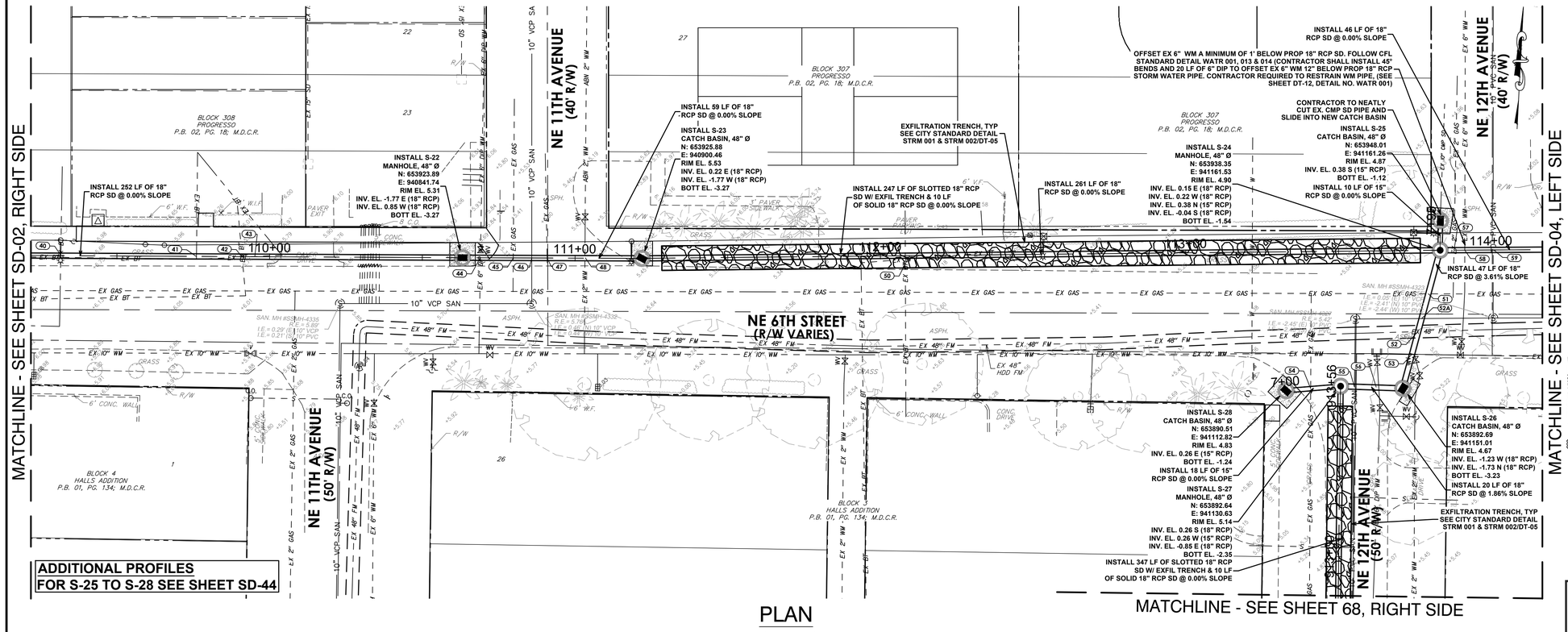
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-01	32
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

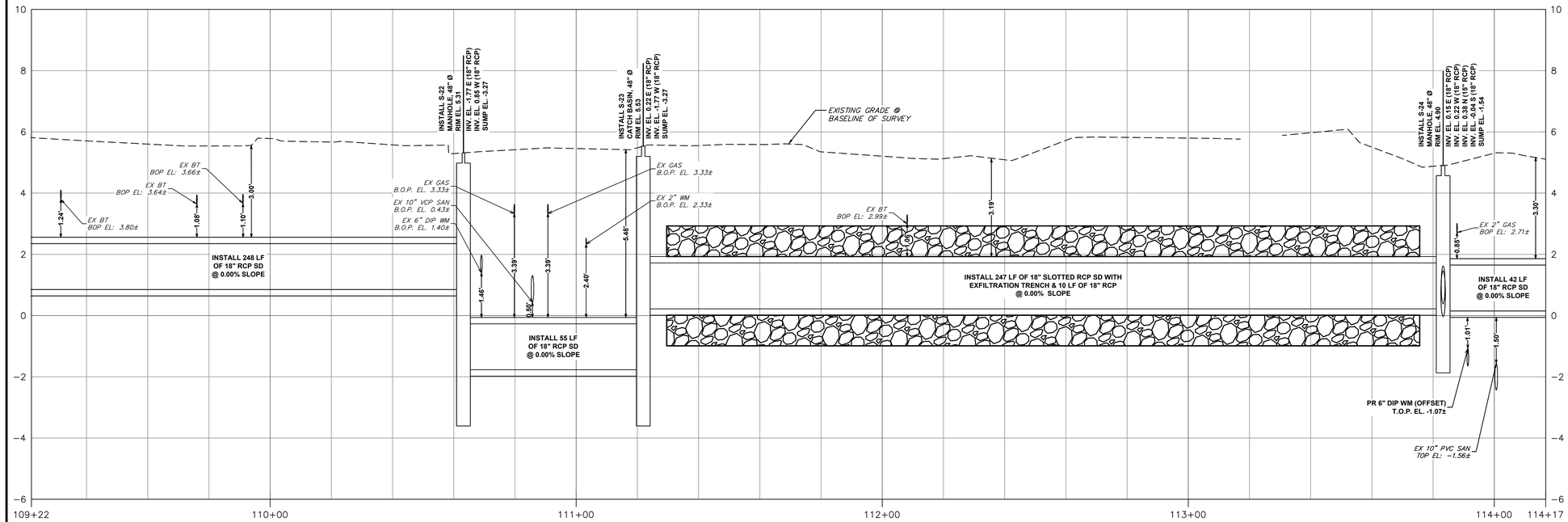
CAM #25-0925
Exhibit 1F
Page 1759 of 2050


MATCHLINE - SEE SHEET SD-01, RIGHT SIDE
MATCHLINE - SEE SHEET SD-03, LEFT SIDE
NE 9TH AVENUE (40' R/W)
NE 10TH AVENUE (40' R/W)
NE 10TH AVENUE (50' R/W)
NE 6TH STREET (R/W VARIES)
CONTRACTOR TO NEATLY CUT EX. CMP SD PIPE AND SLIDE INTO NEW CATCH BASIN
INSTALL S-14 CATCH BASIN, 48" Ø N: 653914.56 E: 940233.23 RIM EL. 3.52 INV. EL. -0.76 S (15" RCP) BOTT EL. -2.26
INSTALL 13 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL 57 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL S-16 MANHOLE, 48" Ø N: 653903.71 E: 940289.14 RIM EL. 4.17 INV. EL. -3.39 W (18" RCP) INV. EL. -0.65 E (18" RCP) BOTT EL. -4.89
INSTALL 170 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL S-17 MANHOLE, 48" Ø N: 653911.04 E: 940458.76 RIM EL. 5.00 INV. EL. -0.65 E (18" RCP) INV. EL. -1.67 S (15" RCP) INV. EL. -0.65 W (18" RCP) BOTT EL. -3.17
INSTALL 74 LF OF 18" RCP SD @ 0.00% SLOPE
OFFSET EX 6" WM A MINIMUM OF 1' BELOW PROP 18" RCP SD. FOLLOW CFL STANDARD DETAIL WATR 001, 013 & 014 (CONTRACTOR SHALL INSTALL 45° BENDS AND 20 LF OF 6" DIP TO OFFSET EX 6" WM 12" BELOW PROP 18" RCP STORM WATER PIPE. CONTRACTOR REQUIRED TO RESTRAIN WM PIPE, (SEE SHEET DT-12, DETAIL NO. WATR 001)
INSTALL 57 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL 252 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL S-15 CATCH BASIN, TYPE 'C' N: 653867.44 E: 940233.68 RIM EL. 4.38 INV. EL. -3.23 N (15" RCP) BOTT EL. -4.73
INSTALL S-13 MANHOLE, 48" Ø N: 653901.31 E: 940232.27 RIM EL. 4.29 INV. EL. -3.39 E (18" RCP) INV. EL. -0.76 N (15" RCP) INV. EL. -0.85 W (18" RCP) INV. EL. -3.23 S (15" RCP) BOTT EL. -4.89
INSTALL 34 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL 40 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-18 CATCH BASIN, 48" Ø N: 653871.21 E: 940454.09 RIM EL. 4.85 INV. EL. -1.67 N (15" RCP) INV. EL. -3.63 E (15" RCP) BOTT EL. -5.13
INSTALL 42 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-19 CATCH BASIN, 48" Ø N: 653872.86 E: 940496.19 RIM EL. 4.88 INV. EL. -3.63 W (15" RCP) BOTT EL. -5.13
INSTALL S-20 MANHOLE, 48" Ø N: 653913.94 E: 940532.35 RIM EL. 5.46 INV. EL. 0.56 E (18" RCP) INV. EL. -0.65 W (18" RCP) BOTT EL. -2.15
INSTALL S-21 CATCH BASIN, 48" Ø N: 653915.69 E: 940589.55 RIM EL. 5.64 INV. EL. 0.85 E (18" RCP) INV. EL. -0.56 W (18" RCP) BOTT EL. -0.94
ADDITIONAL PROFILES FOR S-14 TO S-15 SEE SHEET SD-44 FOR S-17 TO S-19 SEE SHEET SD-44
BLOCK 309 PROGRESSO P.B. 02, PG. 18; M.D.C.R.
BLOCK 308 PROGRESSO P.B. 02, PG. 18; M.D.C.R.
BLOCK 1 HOMBERG SUB P.B. 01, PG. 112, M.D.C.R.
BLOCK 4 HALLS ADDITION P.B. 01, PG. 134; M.D.C.R.
105+00
106+00
107+00
108+00
109+00
5+00
6+00
10" VCP SAN
EX 4" GAS
EX 10" WW
EX 12" CMP SD
EX 6" HOPE WM
EX 2" WM
EX BT
EX GAS
EX 10" VCP SAN
EX 8" VCP SAN
EX 6" GAS
EX 2" WW
EX 6" WW
EX 8" WW
EX 12" CMP SD
EX 6" W.F.
EX 5' CONC. SIDEWALK
EX 6' CONC. SIDEWALK
EX 6' CONC. WALL
EX 5' CONC. WALK
EX 4' A.F.
EX 5' A.F.
EX 6' A.F.
EX 6' W.F.
EX 5' W.F.
EX 4' W.F.
EX 5' CONC. DRIVE
EX 6' CONC. DRIVE
EX 3' CONC. SIDEWALK
EX 4' CONC. SIDEWALK
EX 5' CONC. SIDEWALK
EX 6' CONC. SIDEWALK
EX 8' CONC. SIDEWALK
EX 10' CONC. SIDEWALK
EX 12' CONC. SIDEWALK
EX 14' CONC. SIDEWALK
EX 16' CONC. SIDEWALK
EX 18' CONC. SIDEWALK
EX 20' CONC. SIDEWALK
EX 22' CONC. SIDEWALK
EX 24' CONC. SIDEWALK
EX



PLAN

1"=20'-0"



NE 6TH ST (WEST)

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

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DRAWN BY: JLS | DATE: 03/25/25
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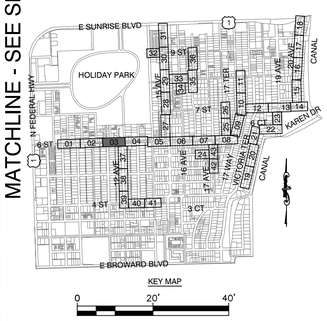

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-03 | SHT # 34

TOTAL: 233

CAD FILE: 12082-MULTI-PROP

DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET SD-03, RIGHT SIDE

MATCHLINE - SEE SHEET SD-05, LEFT SIDE

INSTALL S-29
CATCH BASIN, 48" Ø
N: 653940.33
E: 941207.02
RIM EL. 4.96
INV. EL. -1.36 E (18" RCP)
INV. EL. 0.15 W (18" RCP)
BOTT EL. -3.36

INSTALL 103 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL S-295
CATCH BASIN, 48" Ø
N: 653943.49
E: 941309.94
RIM EL. 5.96
INV. EL. 1.29 E (18" RCP)
INV. EL. -1.36 W (18" RCP)
BOTT EL. -3.36

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 121 LF OF SLOTTED 18" RCP
SD W/ EXFIL TRENCH & 10 LF
OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL S-30
CATCH BASIN, 48" Ø
N: 653947.71
E: 941444.99
RIM EL. 6.45
INV. EL. 1.29 W (18" RCP)
INV. EL. -0.72 E (18" RCP)
INV. EL. -0.60 S (15" RCP)
BOTT EL. -2.72

INSTALL 67 LF OF 18"
RCP SD @ 0.00% SLOPE

INSTALL S-33
CATCH BASIN, 48" Ø
N: 653950.29
E: 941512.27
RIM EL. 6.50
INV. EL. -0.72 W (18" RCP)
INV. EL. 1.80 E (18" RCP)
BOTT EL. -2.72

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 207 LF OF SLOTTED 18" RCP
SD W/ EXFIL TRENCH & 10 LF
OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL 47 LF OF 15"
RCP SD @ 0.00% SLOPE

INSTALL S-31
CATCH BASIN, 48" Ø
N: 653900.70
E: 941446.82
RIM EL. 6.68
INV. EL. -0.53 E (15" RCP)
INV. EL. -0.60 N (15" RCP)
BOTT EL. -2.10

INSTALL S-32
CATCH BASIN, 48" Ø
N: 653901.63
E: 941489.79
RIM EL. 6.57
INV. EL. -0.53 W (15" RCP)
BOTT EL. -2.03
INSTALL 43 LF OF 15"
RCP SD @ 0.00% SLOPE

NE 13TH AVENUE
(40' R/W)

NE 13TH AVENUE
(50' R/W)

NE 6TH STREET
(R/W VARIES)

BLOCK 306
PROGRESSO
P.B. 02, PG. 18; M.D.C.R.

BLOCK 305
PROGRESSO
P.B. 02, PG. 18; M.D.C.R.

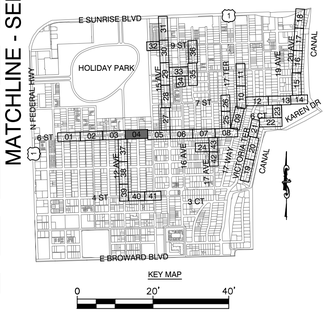
WALLER RESUB OF HALLS ADD
P.B. 16, PG. 53; B.C.R.

BLOCK 1
HALLS ADDITION
P.B. 01, PG. 134; M.D.C.R.

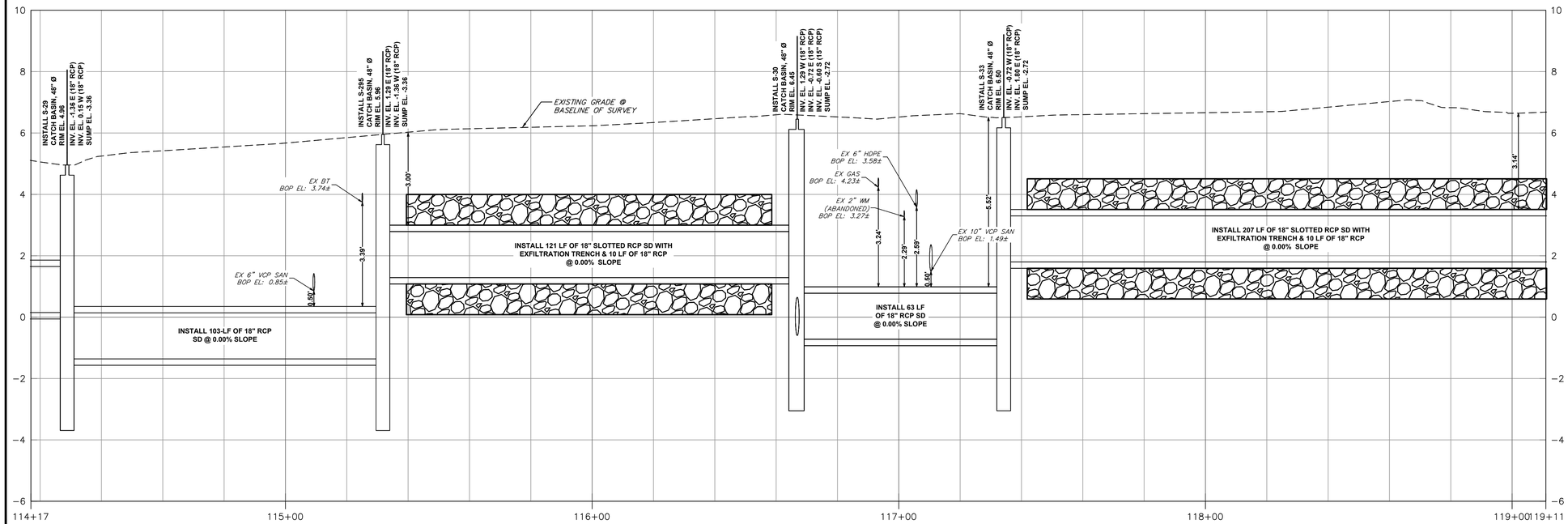
**ADDITIONAL PROFILES
FOR S-30 TO S-32 SEE SHEET SD-45**

PLAN
1"=20'-0"

KEY MAP



0 20' 40'



NE 6TH ST (WEST)
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER
IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-04 | SHT # 35
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET SD-27, LEFT SIDE

MATCHLINE - SEE SHEET SD-04, RIGHT SIDE

MATCHLINE - SEE SHEET SD-06, LEFT SIDE

INSTALL S-35
CURB INLET
N: 653953.82
E: 941769.03
RIM EL. 7.02
INV. EL. 1.74 W (18" RCP)
INV. EL. -2.74 E (23"X14" RCP)
INV. EL. 0.87 S (15" RCP)
BOTT EL. -4.24

INSTALL 36 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL S-34
CATCH BASIN, 48" Ø
N: 653955.80
E: 941733.36
RIM EL. 6.29
INV. EL. 1.80 W (18" RCP)
INV. EL. 1.74 E (18" RCP)
BOTT EL. -0.26

INSTALL 27 LF OF 23"X14" RCP SD @ 0.00% SLOPE

INSTALL S-141
MANHOLE, 48" Ø
N: 653955.10
E: 941796.10
RIM EL. 7.29
INV. EL. -2.74 W (23"X14" RCP)
INV. EL. 2.77 E (23"X14" RCP)
BOTT EL. -4.24

INSTALL 52 LF OF 23"X14" RCP SD @ 0.00% SLOPE

INSTALL S-37
CATCH BASIN, 48" Ø
N: 653951.40
E: 941848.13
RIM EL. 7.25
INV. EL. 2.77 W (23"X14" RCP)
INV. EL. 0.84 S (15" RCP)
INV. EL. 2.45 E (18" RCP)
BOTT EL. -0.66

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 99 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL S-39
CATCH BASIN, 48" Ø
N: 653948.58
E: 941961.11
RIM EL. 7.16
INV. EL. 2.51 E (18" RCP)
INV. EL. 2.45 W (18" RCP)
INV. EL. -0.35 S (15" RCP)
BOTT EL. -1.85

INSTALL 83 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL S-277
CONTROL STRUCTURE, 5'X8'
TOP OF WEIR EL: 6.0
N: 653966.13
E: 942090.43
RIM EL. 7.62
INV. EL. 2.99 N (18" RCP)
INV. EL. 2.18 S (18" RCP)
BOTT EL. -1.00

INSTALL 16 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL 273 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL S-47
MANHOLE, 48" Ø
N: 653950.20
E: 942090.79
RIM EL. 7.52
INV. EL. 2.73 E (18" RCP)
INV. EL. 2.18 N (18" RCP)
BOTT EL. 0.18

INSTALL S-46
CATCH BASIN, 48" Ø
N: 653949.39
E: 942128.70
RIM EL. 7.73
INV. EL. 2.73 W (18" RCP)
INV. EL. 2.89 S (18" RCP)
BOTT EL. 0.73

INSTALL 38-LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL S-45
MANHOLE, 48" Ø
N: 653934.32
E: 942130.29
RIM EL. 7.80
INV. EL. -0.23 S (18" RCP)
INV. EL. 2.89 N (18" RCP)
INV. EL. 3.11 E (18" RCP)
BOTT EL. -1.73

INSTALL 255 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL S-275
CONTROL STRUCTURE, 5'X8'
TOP OF WEIR EL: 5.2
N: 653934.84
E: 942148.43
RIM EL. 7.84
INV. EL. 3.00 E (18" RCP)
INV. EL. 3.11 W (18" RCP)
BOTT EL. -0.88

INSTALL 18 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL 53 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-36
CURB INLET
N: 653900.88
E: 941774.58
RIM EL. 6.98
INV. EL. 0.87 N (15" RCP)
BOTT EL. -0.63

INSTALL 48 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-38
CATCH BASIN, 48" Ø
N: 653903.73
E: 941843.51
RIM EL. 6.75
INV. EL. 0.84 N (15" RCP)
BOTT EL. -0.66

OFFSET EX 6" WM A MINIMUM OF 1' BELOW PROP 23" X 14" RCP SD. FOLLOW CFL STANDARD DETAIL WATR 001, 013 & 014 (CONTRACTOR SHALL INSTALL 45° BENDS AND 20 LF OF 6" DIP TO OFFSET EX 6" WM 12" BELOW PROP 23" X 14" RCP STORM WATER PIPE. CONTRACTOR REQUIRED TO RESTRAIN WM PIPE, (SEE SHEET DT-12, DETAIL NO. WATR 001)

INSTALL 35 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-41
CATCH BASIN, 48" Ø
N: 653914.08
E: 941962.05
RIM EL. 7.48
INV. EL. 2.46 E (18" RCP)
INV. EL. -0.35 N (15" RCP)
BOTT EL. -1.85

INSTALL 15 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL 18 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL S-42
MANHOLE, 48" Ø
N: 653916.76
E: 942132.14
RIM EL. 7.67
INV. EL. 2.70 S (15" RCP)
INV. EL. -0.23 N (18" RCP)
INV. EL. 2.46 W (18" RCP)
BOTT EL. -1.73

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 156 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL 41 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-43
CATCH BASIN, 48" Ø
N: 653876.32
E: 942139.85
RIM EL. 7.13
INV. EL. 1.77 E (15" RCP)
INV. EL. 2.70 N (15" RCP)
BOTT EL. 0.27

INSTALL 44 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-44
CATCH BASIN, TYPE 'C'
N: 653883.32
E: 942183.62
RIM EL. 7.55
INV. EL. 1.77 W (15" RCP)
BOTT EL. 0.27

INSTALL S-40
CATCH BASIN, 48" Ø
N: 653949.65
E: 942058.29
RIM EL. 7.30
INV. EL. 2.51 W (18" RCP)
BOTT EL. 0.51

INSTALL 271 LF OF 18" SLOTTED RCP SD WITH EXFILTRATION TRENCH & 10 LF OF 18" RCP @ 0.00% SLOPE

INSTALL 12 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL 221 LF OF 18" SLOTTED RCP SD WITH EXFILTRATION TRENCH & 10 LF OF 18" RCP @ 0.00% SLOPE

INSTALL 32 LF OF 18" RCP SD @ 0.00% SLOPE

INSTALL 48 LF OF 23"x14" RCP SD @ 0.00% SLOPE

INSTALL 99 LF OF 18" SLOTTED RCP SD WITH EXFILTRATION TRENCH & 10 LF OF 18" RCP @ 0.00% SLOPE

INSTALL 83 LF OF 18" SLOTTED RCP SD WITH EXFILTRATION TRENCH & 10 LF OF 18" RCP @ 0.00% SLOPE

INSTALL 23 LF OF 23"x14" RCP SD @ 0.00% SLOPE

PR 6" DIP WM (OFFSET) T.O.P. EL. 1.44±

EX. 36" DIP WM T.O.P. EL. 1.40±

EX. 48" HDPE FM TOP EL: −0.74±

EX. BFD B.O.P. EL. 4.99±

EX. GAS B.O.P. EL. 5.05±

EX. GAS B.O.P. EL. 4.91±

EX. BFD BOP EL: 4.98±

EX. GAS BOP EL: 5.63±

EXISTING GRADE @ BASELINE OF SURVEY

ADDITIONAL PROFILES
FOR S-35 TO S-36 SEE SHEET SD-45
FOR S-37 TO S-38 SEE SHEET SD-45
FOR S-39 TO S-42 SEE SHEET SD-45
FOR S-42 TO S-277 SEE SHEET SD-53

NE 12TH AVENUE (40' R/W)
NE 14TH AVENUE (R/W VARIES)
NE 15TH AVENUE (R/W VARIES)
NE 15TH AVENUE (60' R/W)
NE 6TH STREET (R/W VARIES)

BLOCK 1
LAS OLAS PARK CORRECTED
P.B. 06, PG. 12; B.C.R.

PLAN
1"=20'−0"

NE 6TH ST (WEST)
VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"

NE 6TH ST (EAST)
VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"

KEY MAP
0 20' 40'

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ENGINEER: DAVID R. CASTRO FELIU, P.E.
REG. No: 85568
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

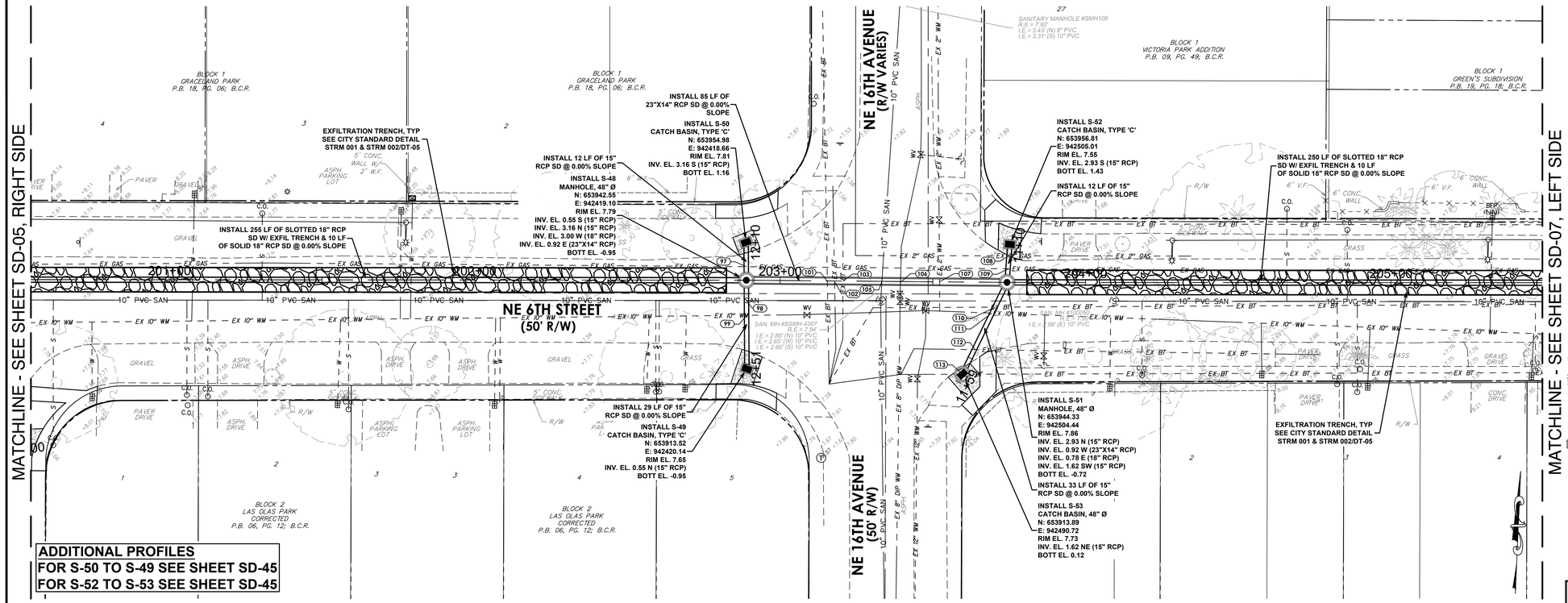
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

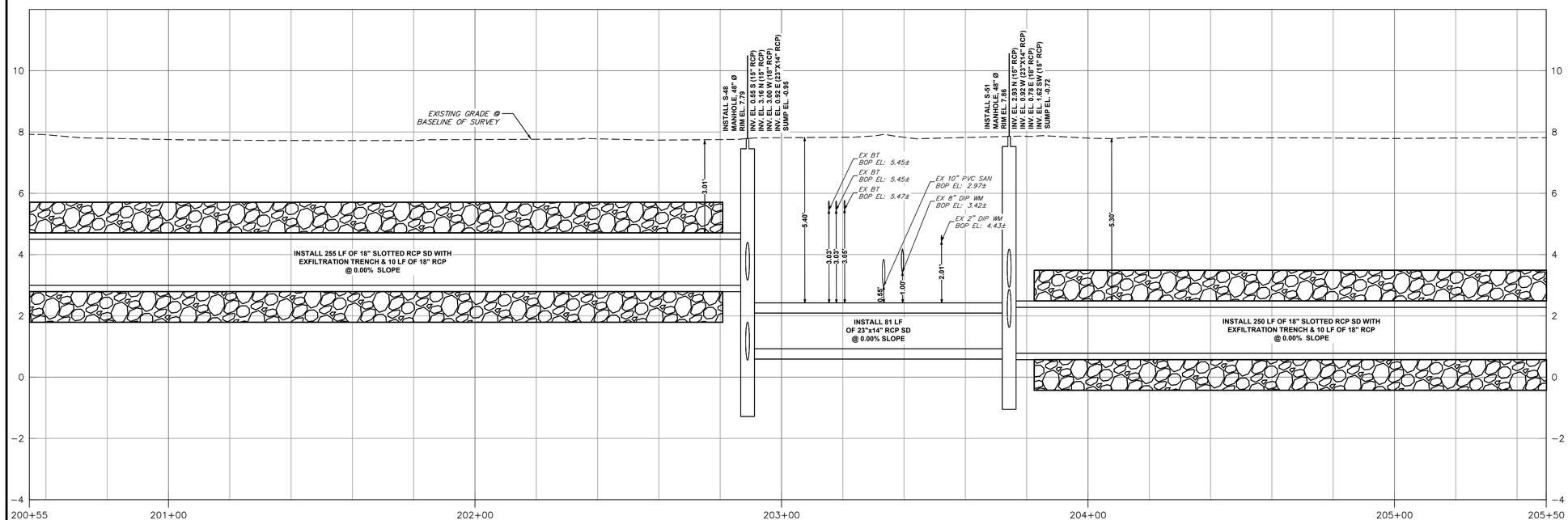
SHEET NO.	SHT #
SD-05	36
TOTAL:	233
CAD FILE: 12082−MULTI−PROP	
DRAWING FILE NO. 4−144−88	

CAM #25-0925
Exhibit 1F
Page 1763 of 2050



PLAN

1"=20'–0"



NE 6TH ST (EAST)

VERTICAL 1"=2'–0"

HORIZONTAL 1"=20'–0"

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www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85568
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	FIELD BOOK:
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:		
JJM		

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

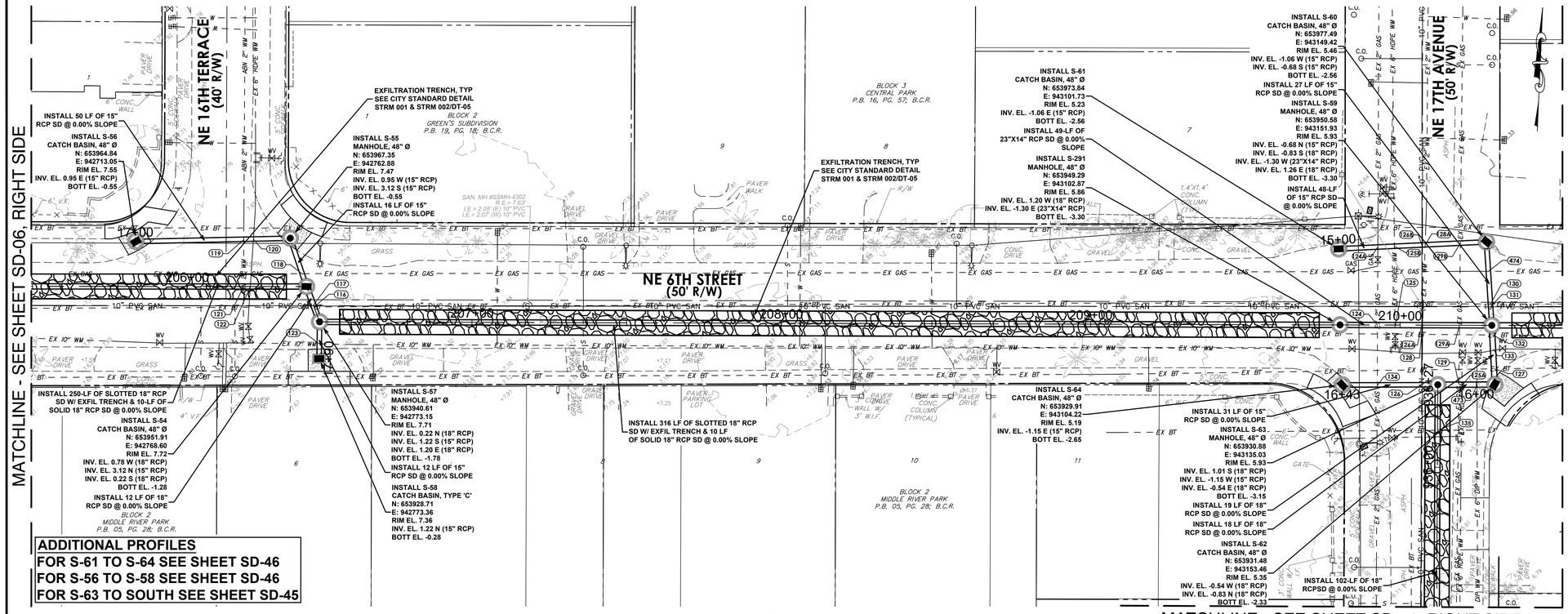
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER
IMPROVEMENTS

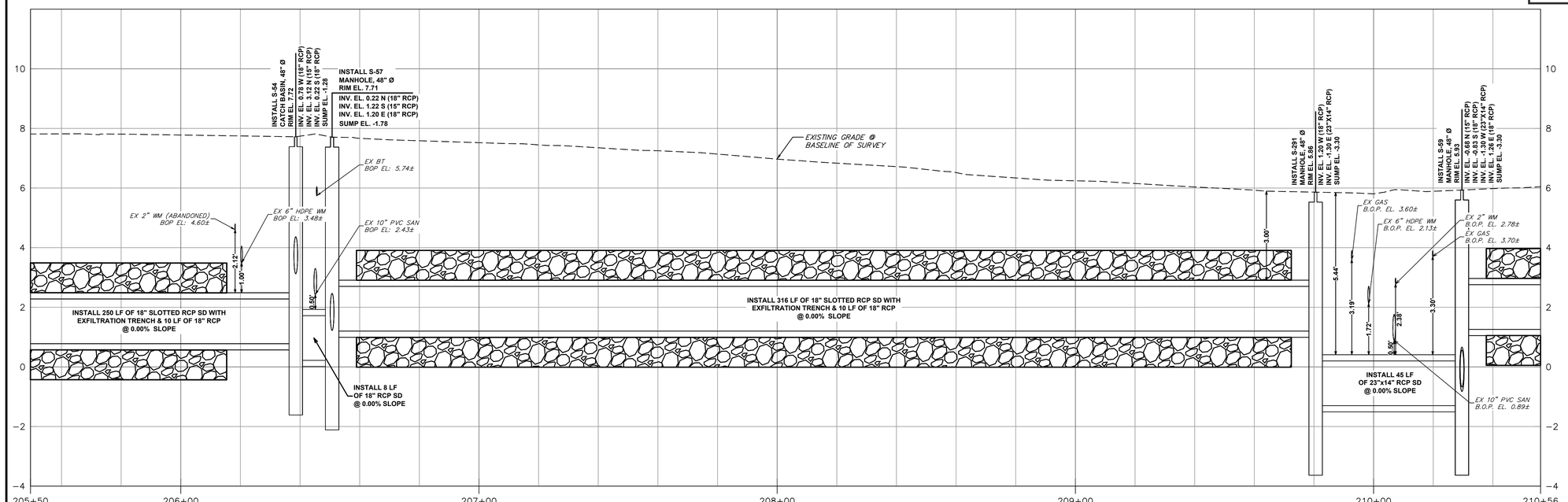
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-06	37
TOTAL:	233
CAD FILE: 12082–MULTI–PROP	
DRAWING FILE NO. 4–144–88	



PLAN

1"=20'-0"



NE 6TH ST (EAST)

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

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DRAWN BY: JLS | DESIGNED BY: DECF | DATE: 03/25/25 | SCALE: AS SHOWN | CHECKED BY: JJM | FIELD BOOK:

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

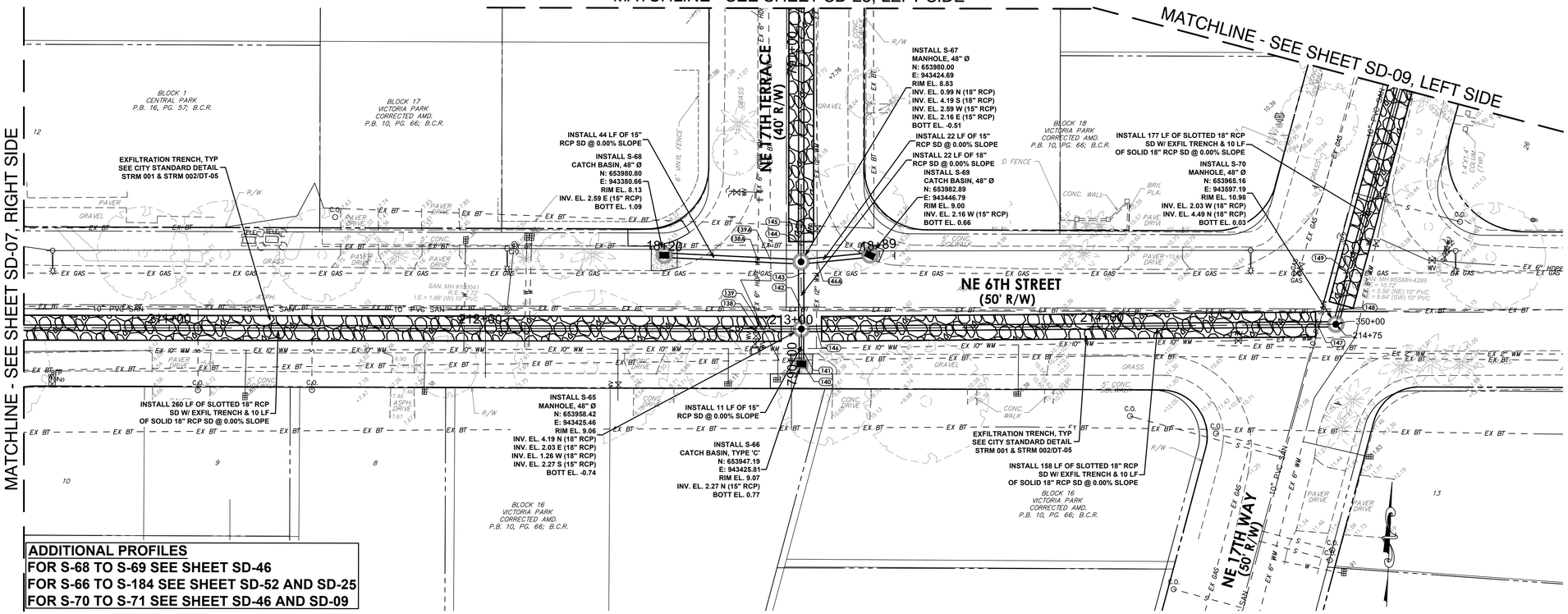
SHEET NO.	SHT #
SD-07	38
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

CAM #25-0925
Exhibit 1F
Page 1765 of 2050

MATCHLINE - SEE SHEET SD-25, LEFT SIDE

MATCHLINE - SEE SHEET SD-09, LEFT SIDE

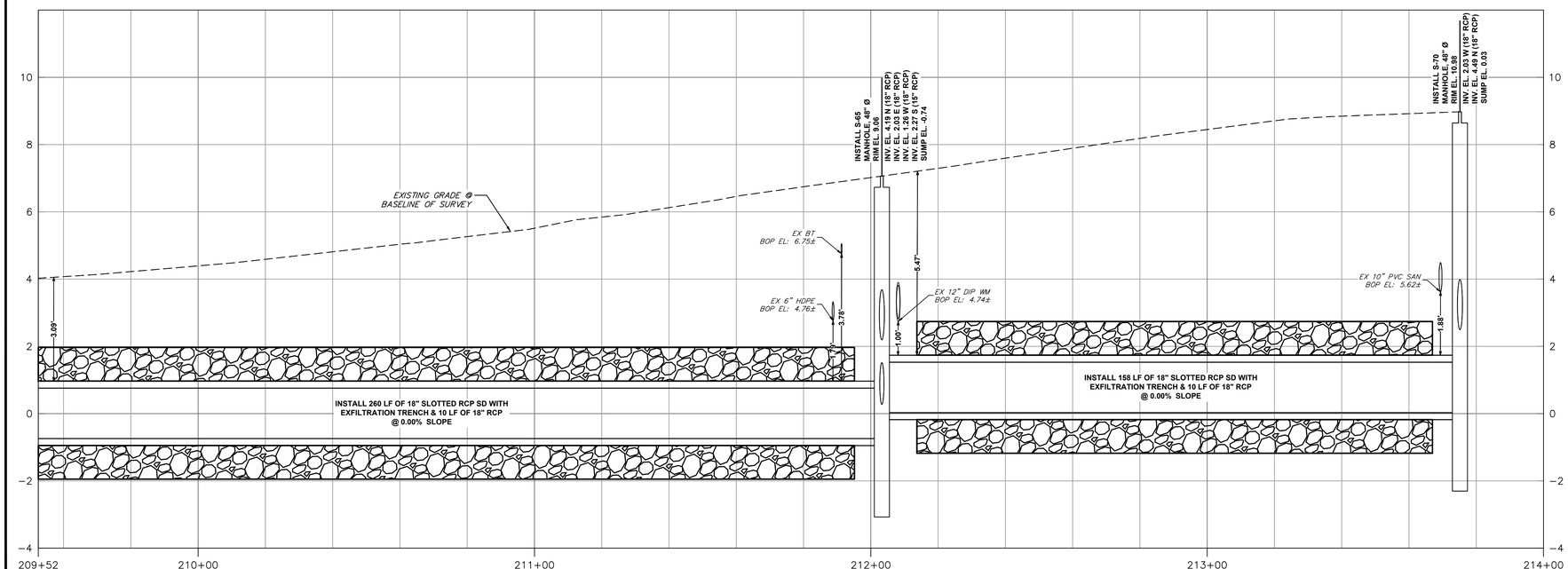
MATCHLINE - SEE SHEET SD-07, RIGHT SIDE



PLAN

1"=20'-0"

ADDITIONAL PROFILES
FOR S-68 TO S-69 SEE SHEET SD-46
FOR S-66 TO S-184 SEE SHEET SD-52 AND SD-25
FOR S-70 TO S-71 SEE SHEET SD-46 AND SD-09



NE 6TH ST (EAST)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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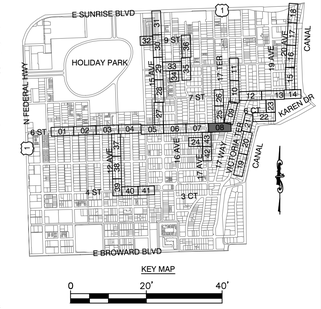

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PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

ENGINEER: DAVID E. CASTRO FELIU, P.E.
BOARD No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

CITY of FORT LAUDERDALE
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DESIGNED BY: DECF | SCALE: AS SHOWN
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REVISIONS

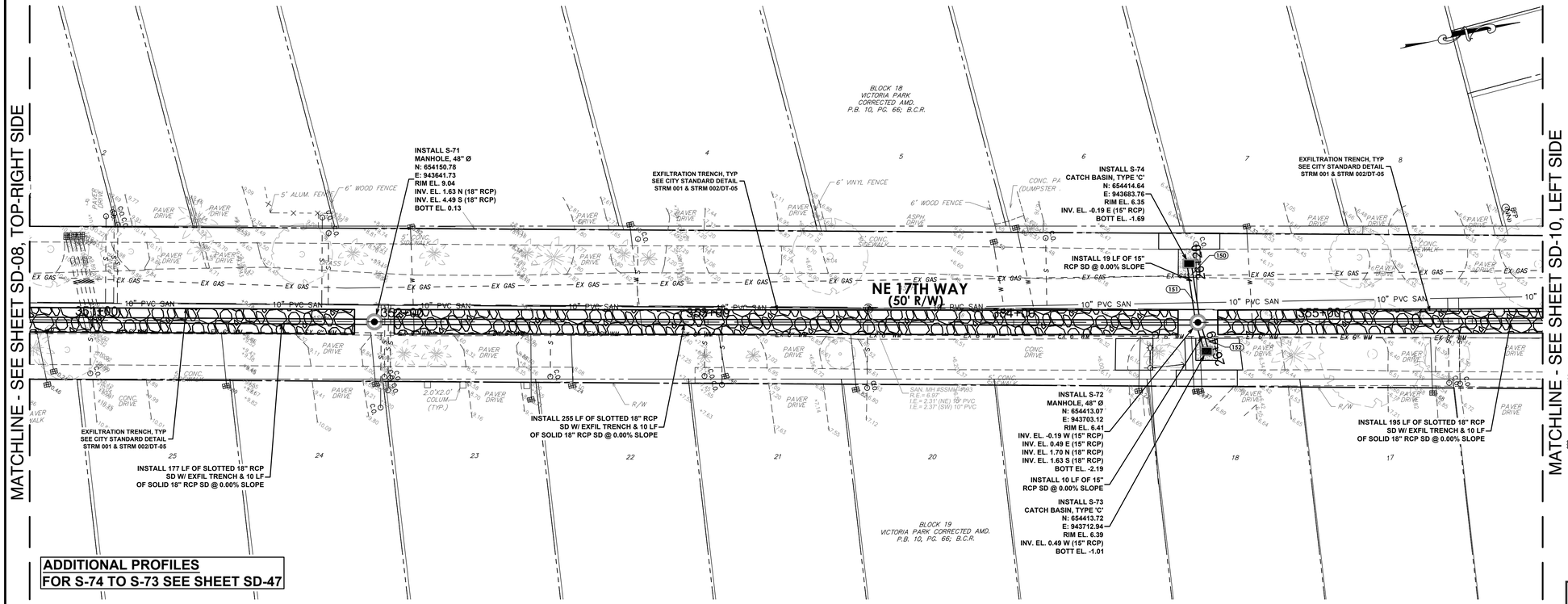
NO.	DATE	BY	CHK'D	DESCRIPTION

SHEET NO. SD-08 | SHT # 39
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1766 of 2050

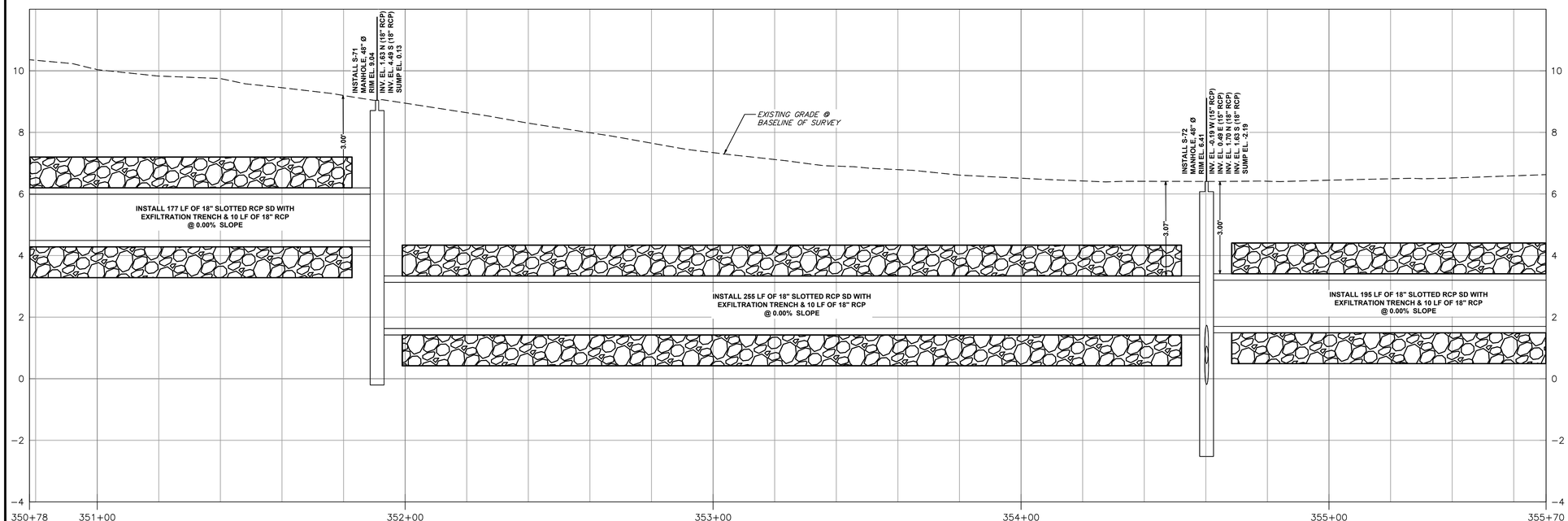
MATCHLINE - SEE SHEET SD-08, TOP-RIGHT SIDE

MATCHLINE - SEE SHEET SD-10, LEFT SIDE



PLAN

1"=20'-0"

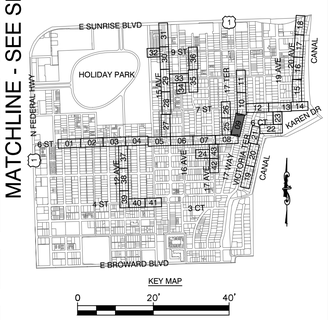


NE 17TH WAY

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

ADDITIONAL PROFILES FOR S-74 TO S-73 SEE SHEET SD-47



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ENGINEER:
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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REVISIONS

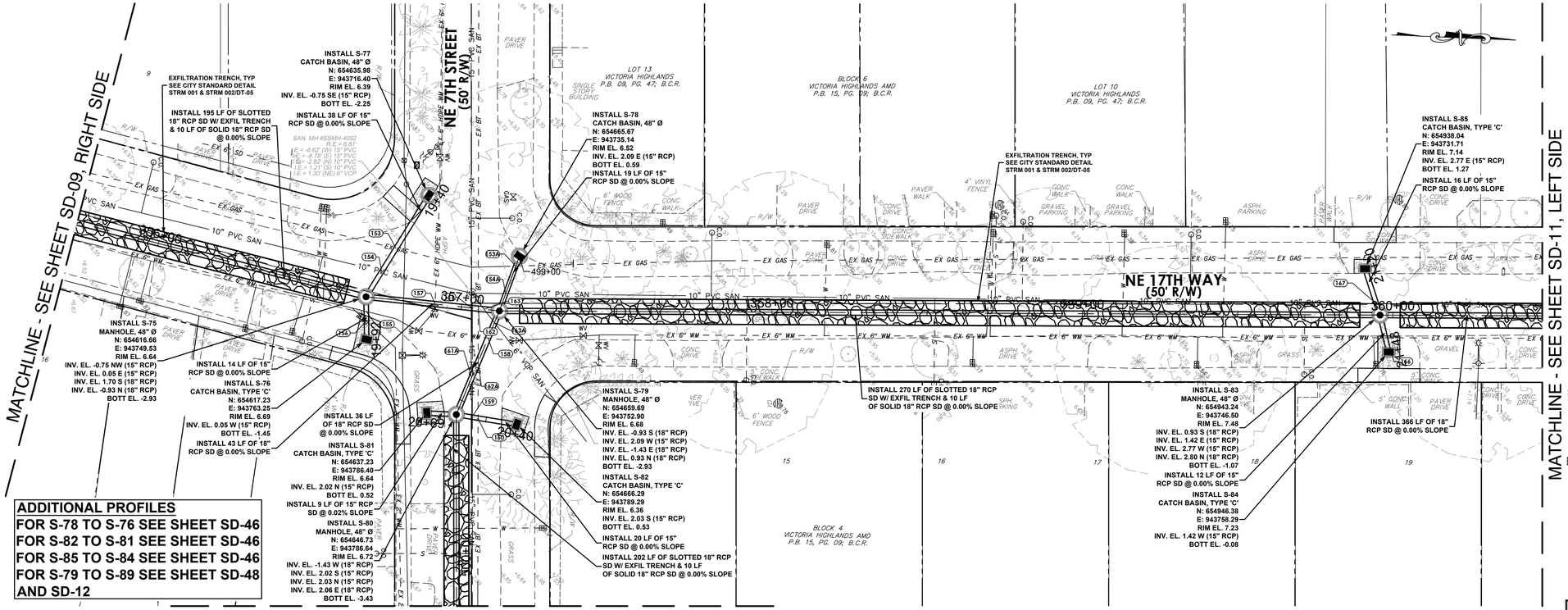
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

ISSUED FOR BID

SHEET NO.	SHT #
SD-09	40
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



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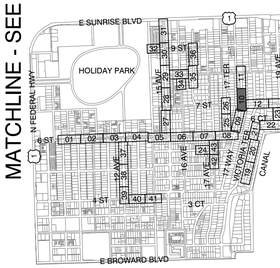

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
LICENSE No: 85558
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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ENGINEERING
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REVISIONS

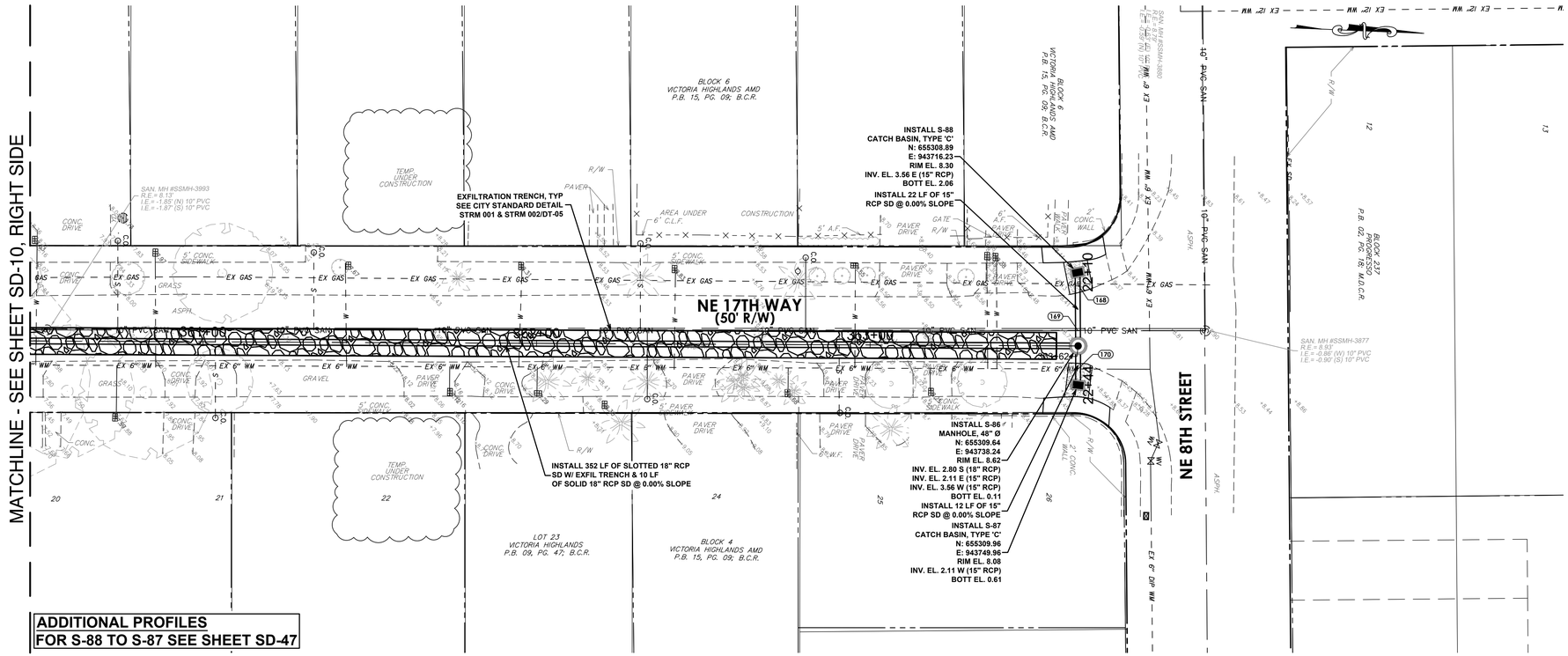
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

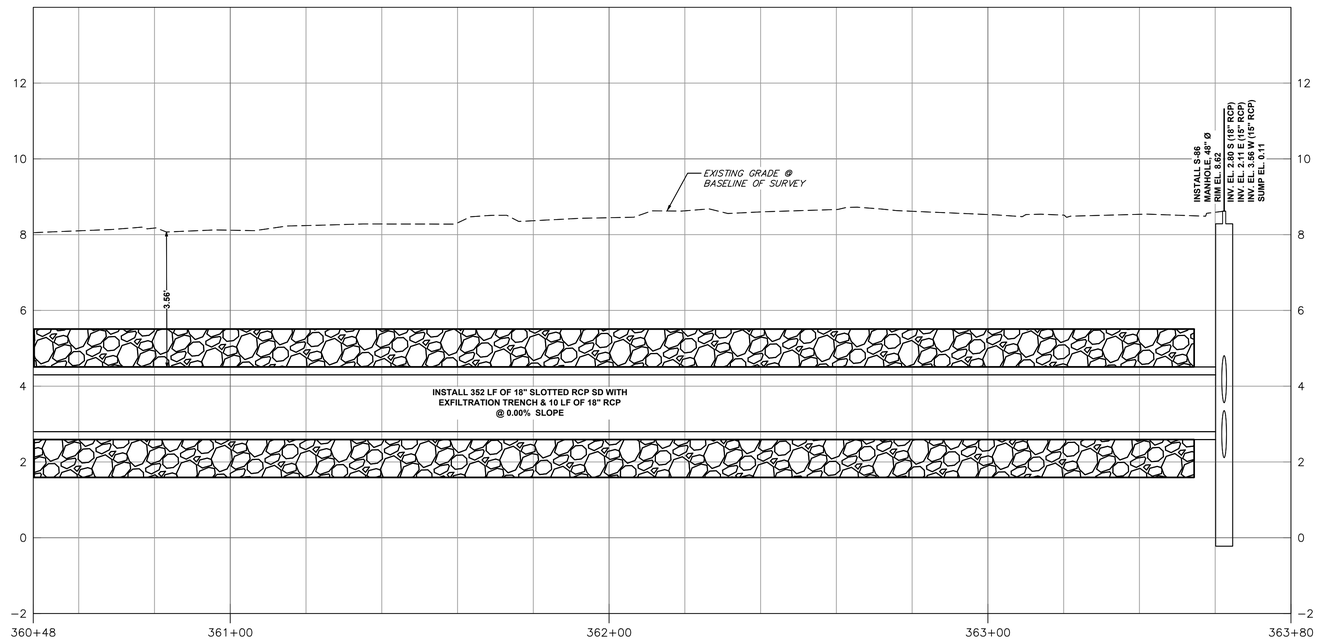
SHEET NO.	SHT #
SD-10	41
TOTAL:	233

CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN

1"=20'-0"



NE 17TH WAY

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

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4000 HOLLYWOOD BLVD, SUITE 750N
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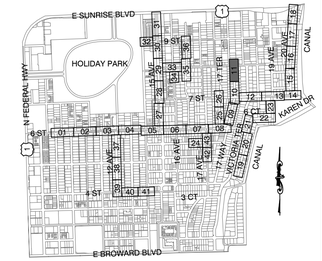

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
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ENGINEERING

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-11 | SHT # 42

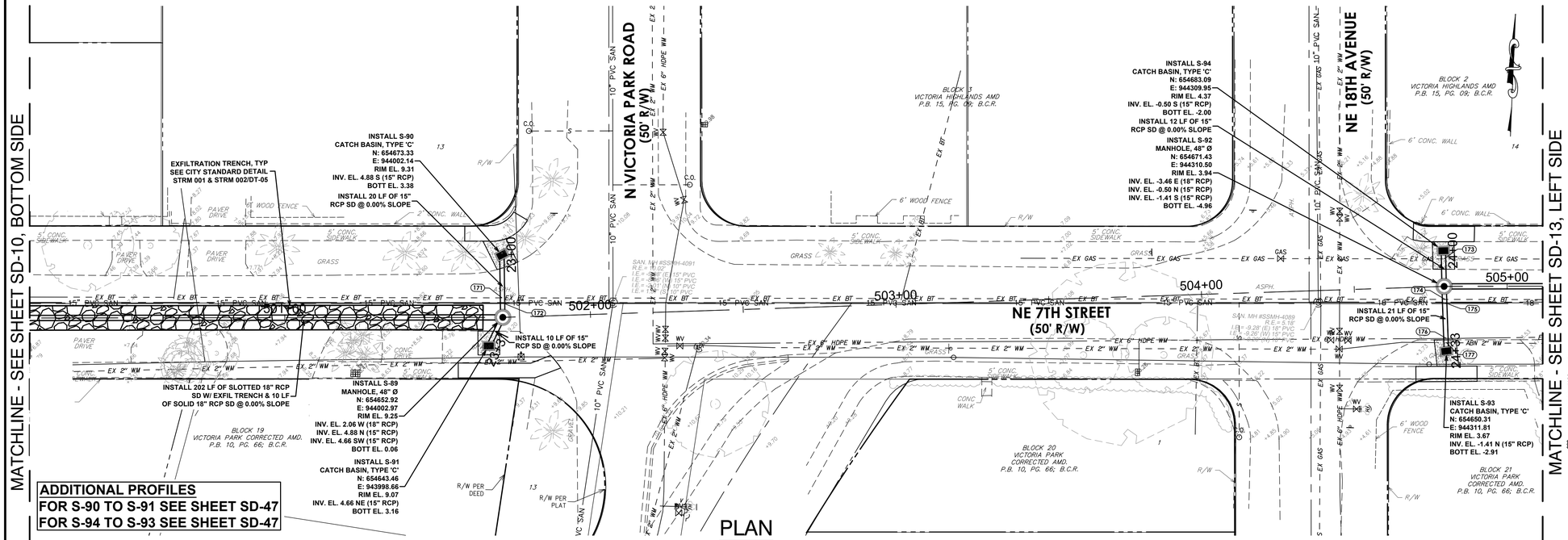
TOTAL: 233

CAD FILE: 12082-MULTI-PROP

DRAWING FILE NO. 4-144-88

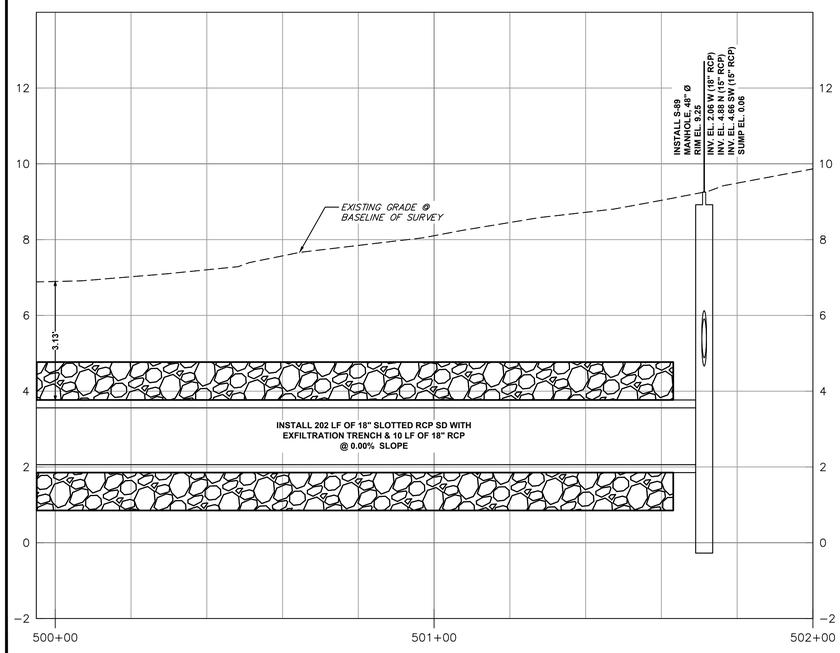
MATCHLINE - SEE SHEET SD-10, BOTTOM SIDE

MATCHLINE - SEE SHEET SD-13, LEFT SIDE



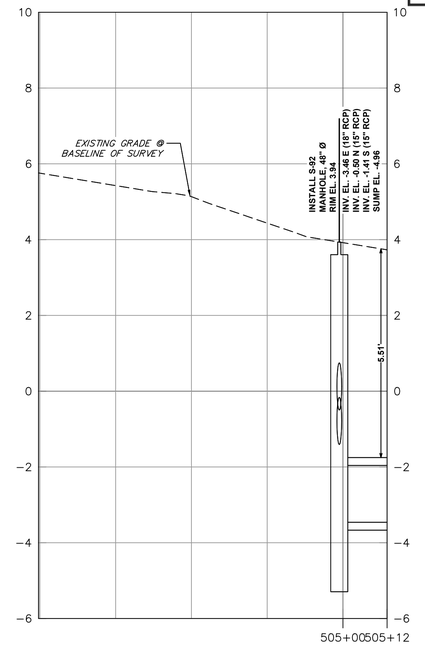
PLAN

1"=20'-0"



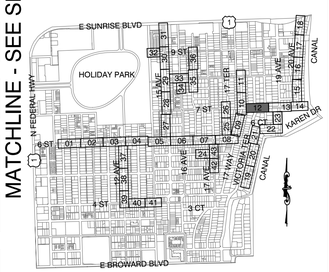
NE 7TH ST

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 7TH ST

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



KEY MAP

0 20' 40'

Sunshine811

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ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

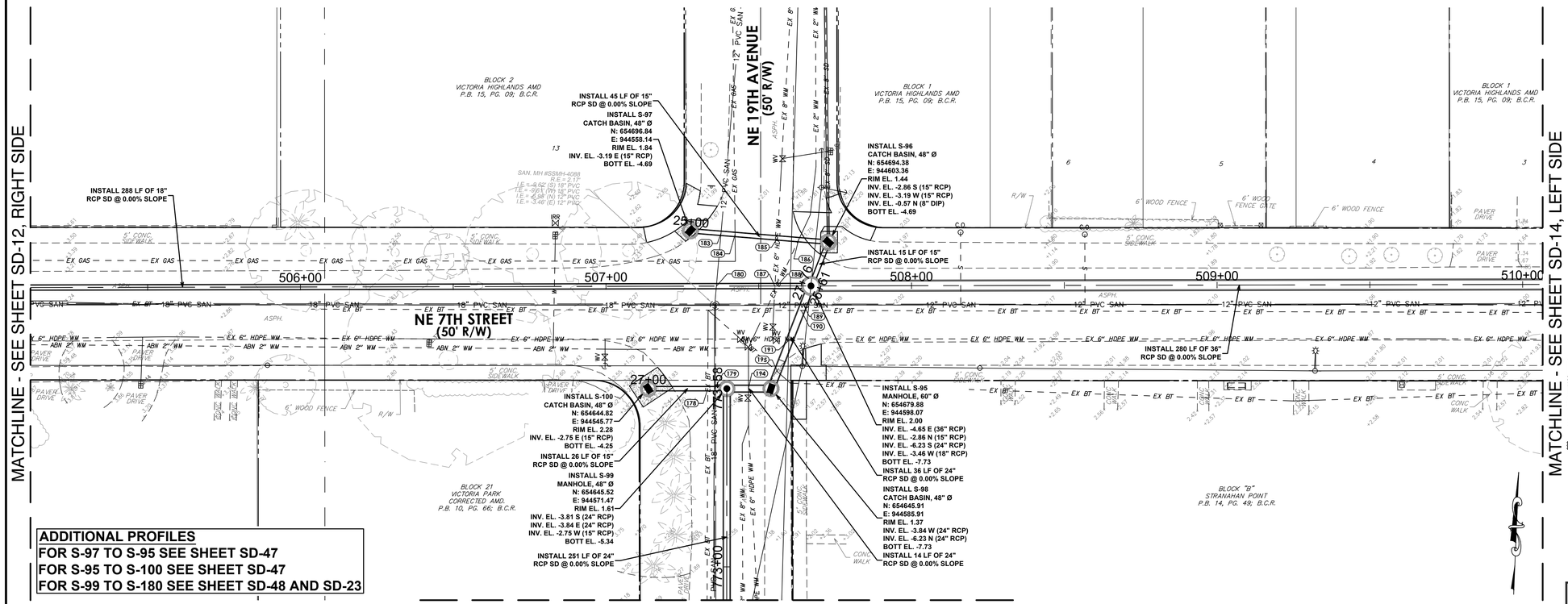
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

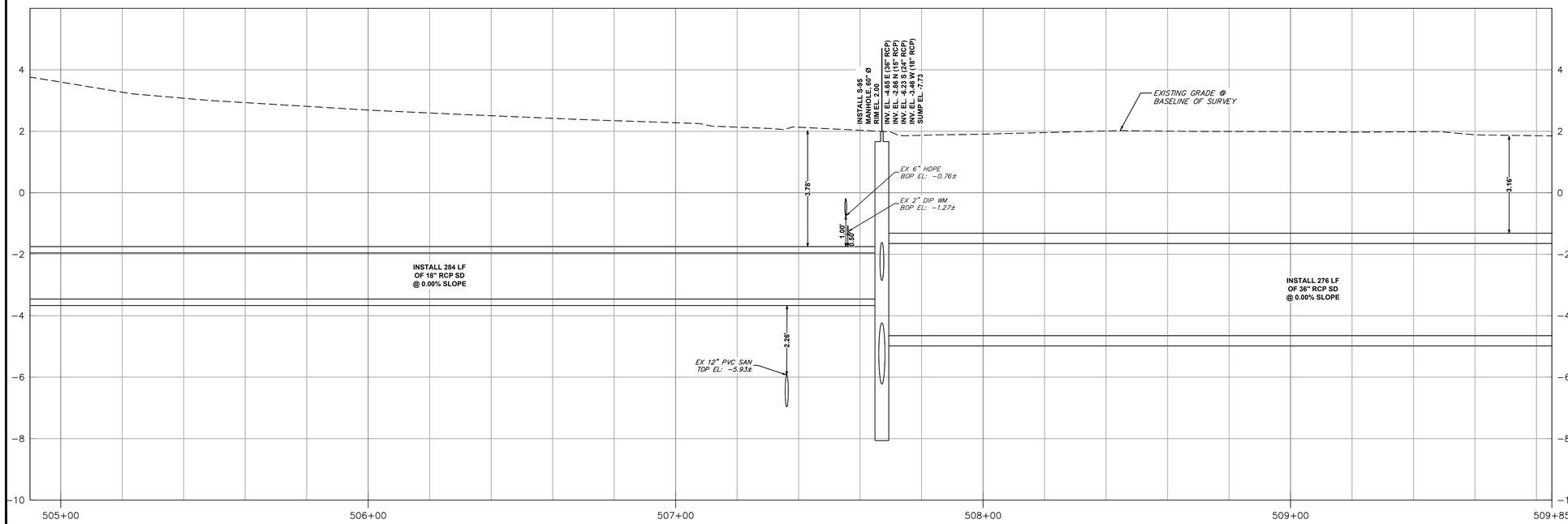
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-12	43
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



PLAN

1"=20'-0"



NE 7TH ST

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
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Suite 600
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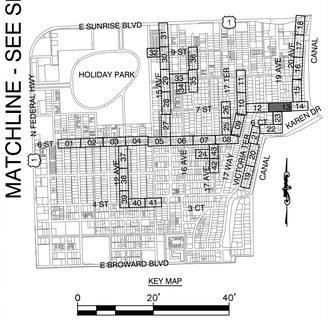

Sunshine811

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
LIC. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

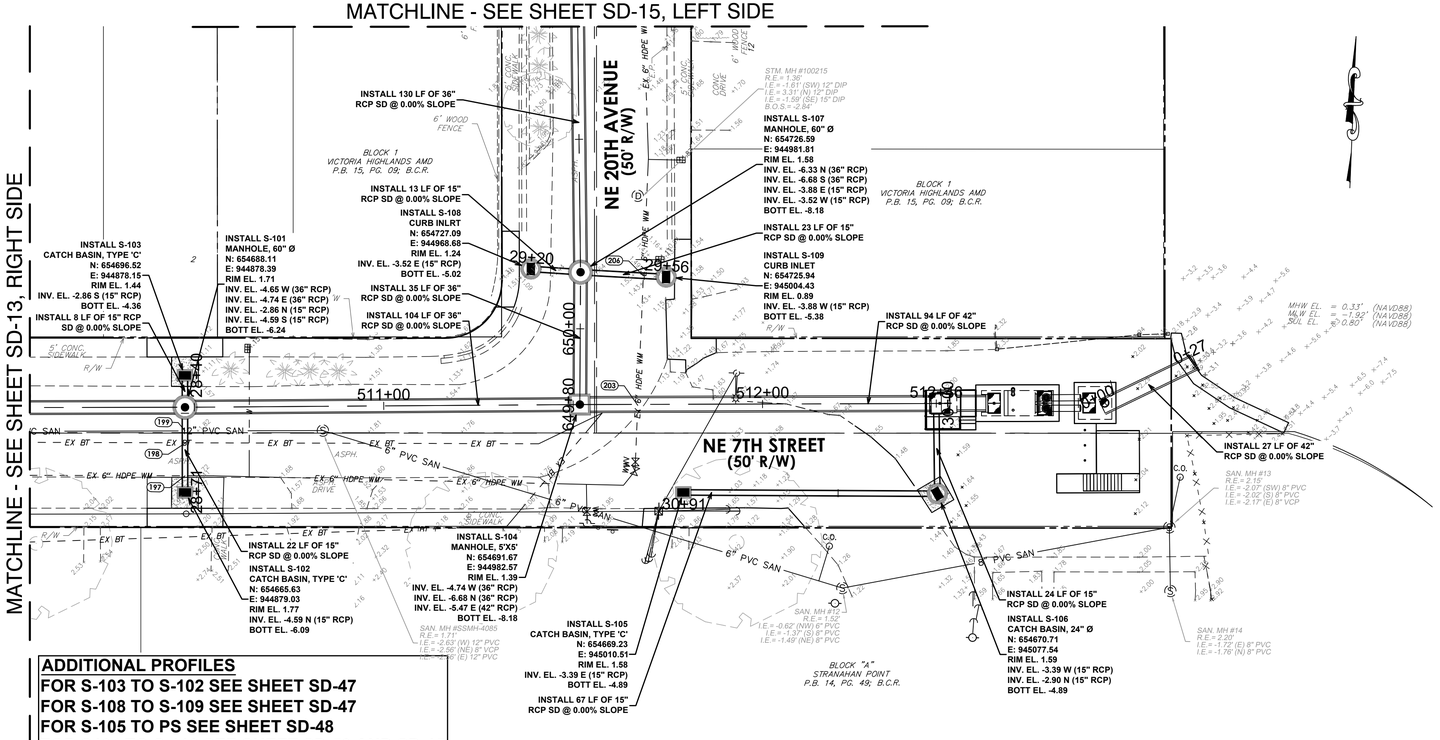
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-13	44
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

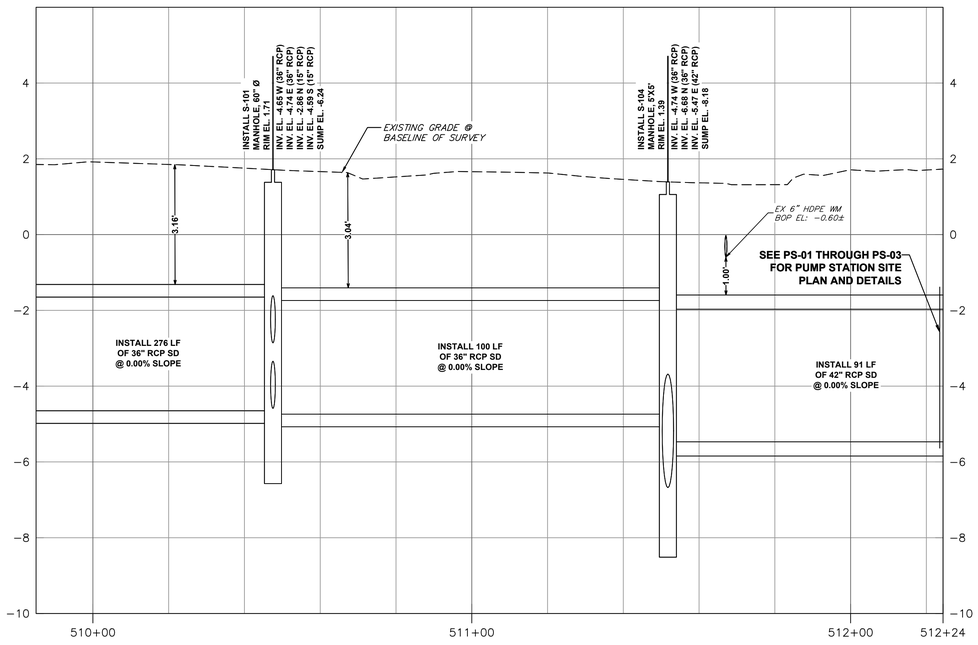
MATCHLINE - SEE SHEET SD-15, LEFT SIDE

MATCHLINE - SEE SHEET SD-13, RIGHT SIDE



ADDITIONAL PROFILES
FOR S-103 TO S-102 SEE SHEET SD-47
FOR S-108 TO S-109 SEE SHEET SD-47
FOR S-105 TO PS SEE SHEET SD-48
FOR S104 TO S-110 SEE SHEET SD-50 AND SD-15

PLAN
1"=20'-0"



NE 7TH ST
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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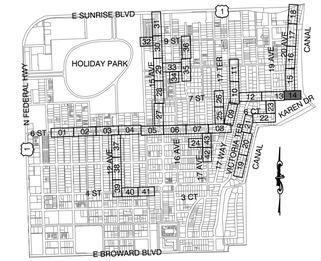

KEY MAP
0 20' 40'

Sunshine811
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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

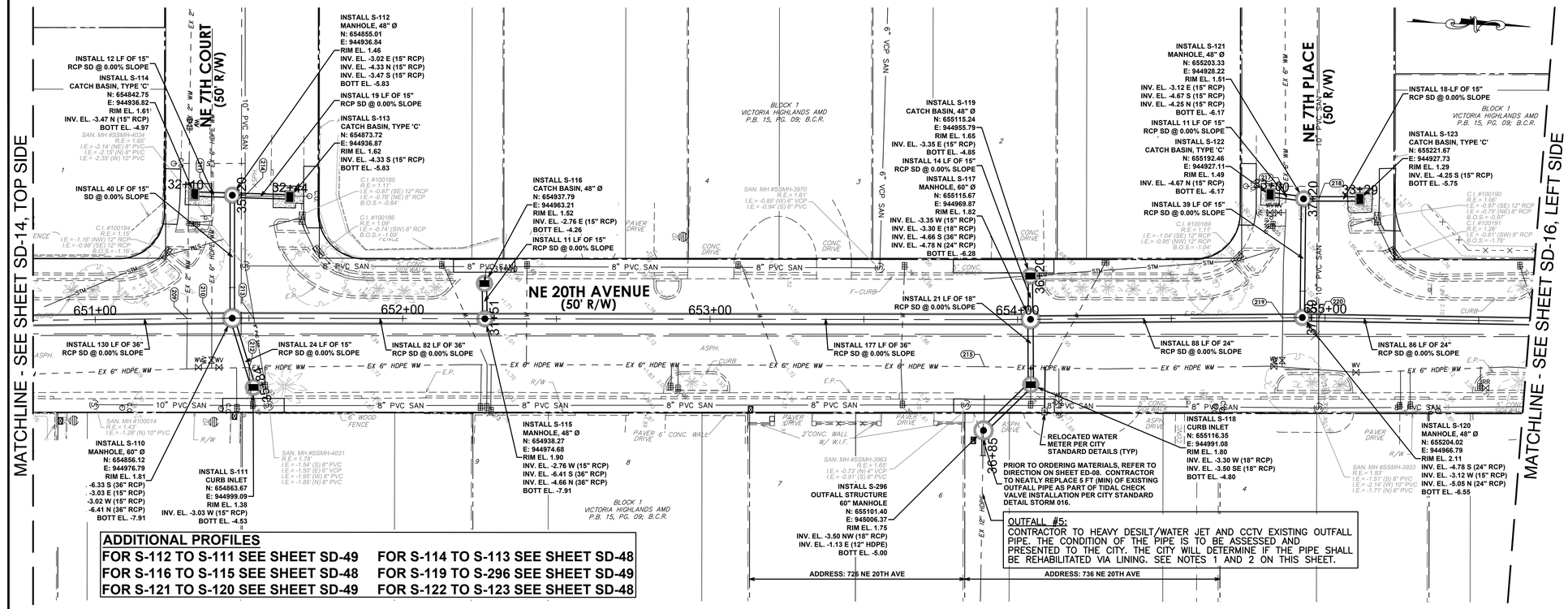
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

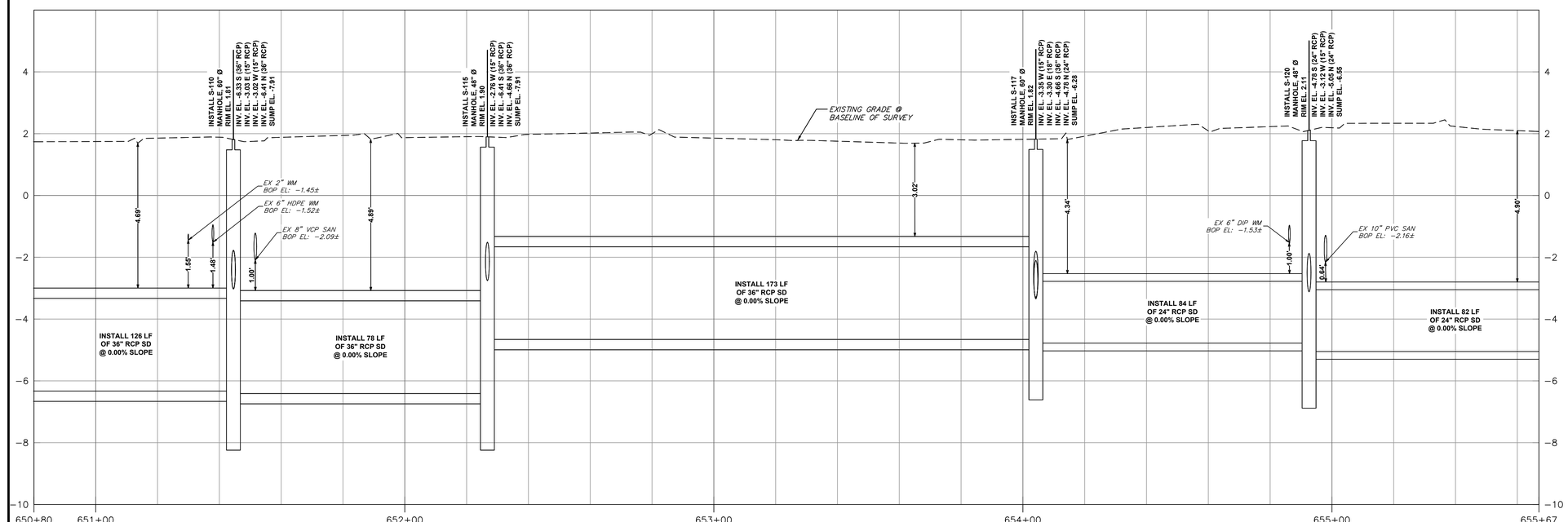
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-14
SHT # 45
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN
1"=20'-0"



NE 20TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

OUTFALL NOTES:
1. THOROUGHLY DESILT AND HIGH-PRESSURE WATER JET EXISTING OUTFALL(S). COLLECT AND PROPERLY DISPOSE ALL DEBRIS, SILT, AND MATERIAL REMOVED. DISCHARGE OF ANY MATERIAL INTO THE RECEIVING WATER BODY IS STRICTLY PROHIBITED. REFER TO P11780B RECORD DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONDUCT CCTV INSPECTION OF THE EXISTING OUTFALL SYSTEMS INCLUDING OUTFALL STRUCTURE, OUTFALL PIPE, TIDAL VALVE, AND MANATEE GRATE AFTER DESILTING AND WATER JETTING ARE COMPLETED.
3. REHABILITATION WORK (LINING) ON EXISTING OUTFALL SYSTEM(S) SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
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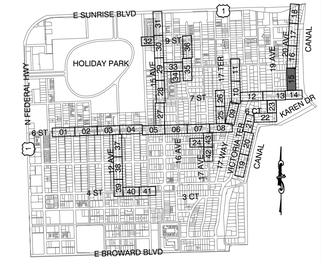
6. DISCREPANCIES EXIST BETWEEN THE TOPOGRAPHIC SITE SURVEY PREPARED BY CRAVEN THOMSON & ASSOCIATES, INC. THE CITY GIS ATLAS, AND THE AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING OUTFALL DRAINAGE PIPES AND STRUCTURES SIZE, MATERIAL, AND LOCATION.

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
DATE: No. 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030



Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

0 20' 40'

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

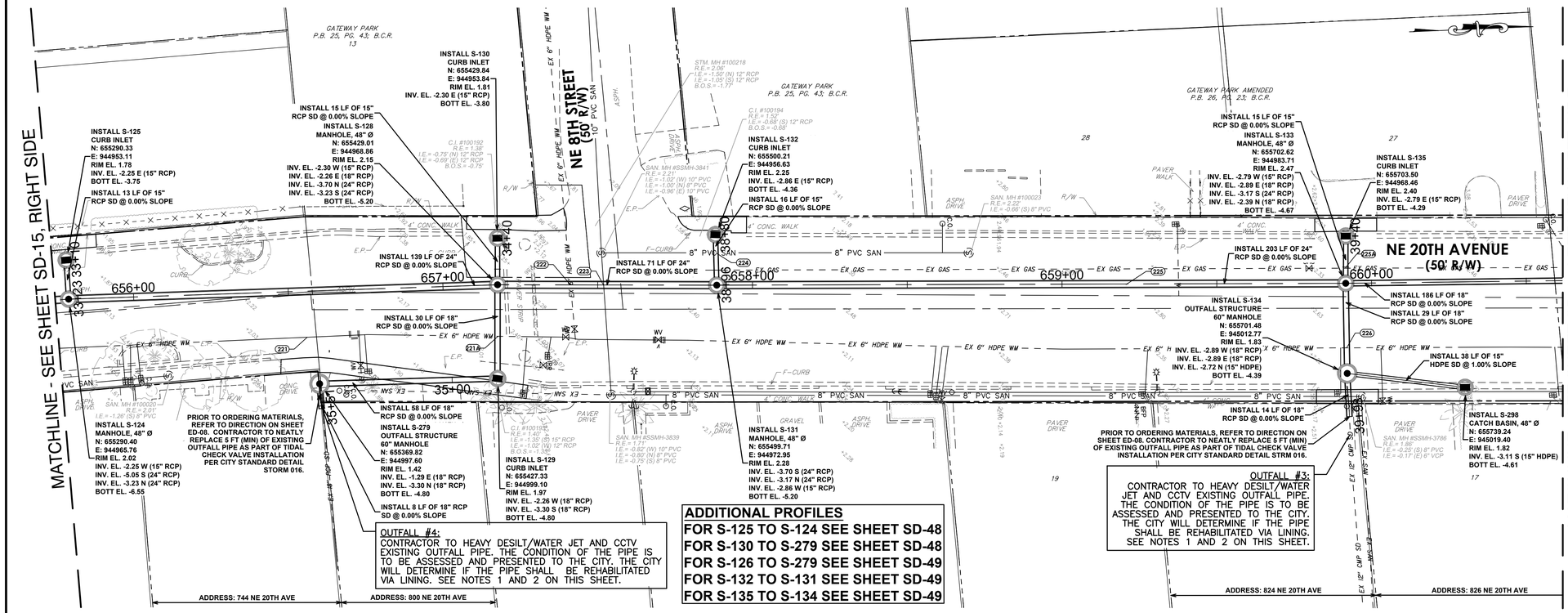
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

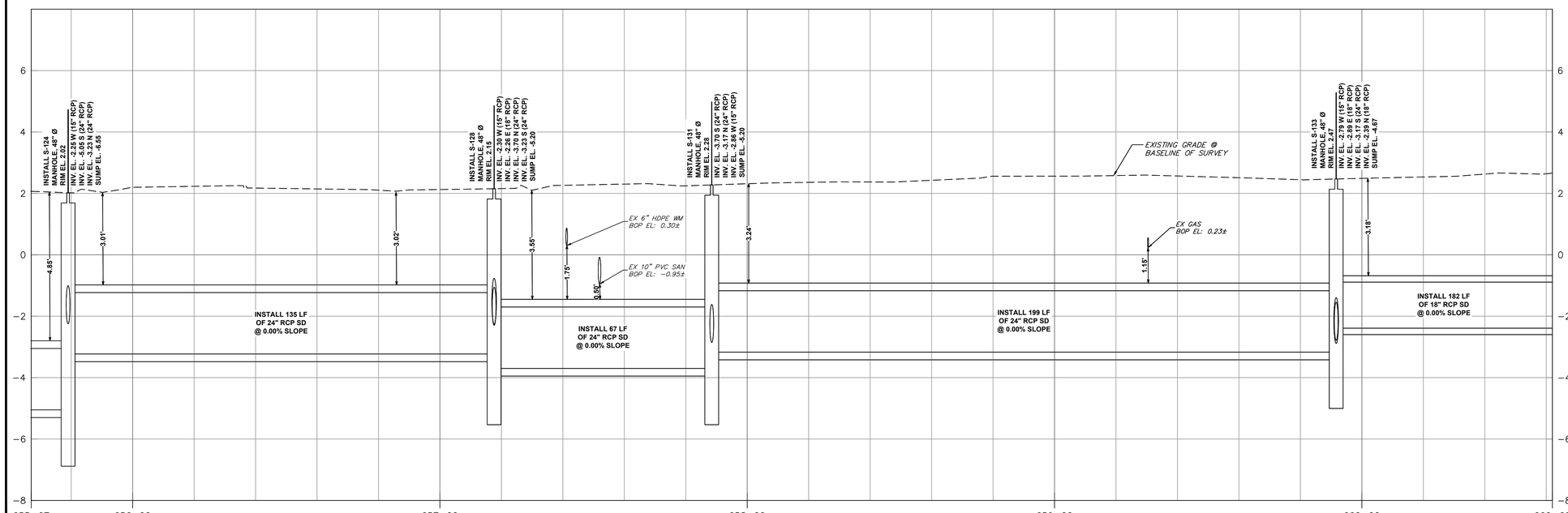
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-15 | SHT # 46
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN
1"=20'-0"



NE 20TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

OUTFALL NOTES:

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ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com
ENGINEER: DAVID E. CASTRO FELIU, P.E.
DATE: No. 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

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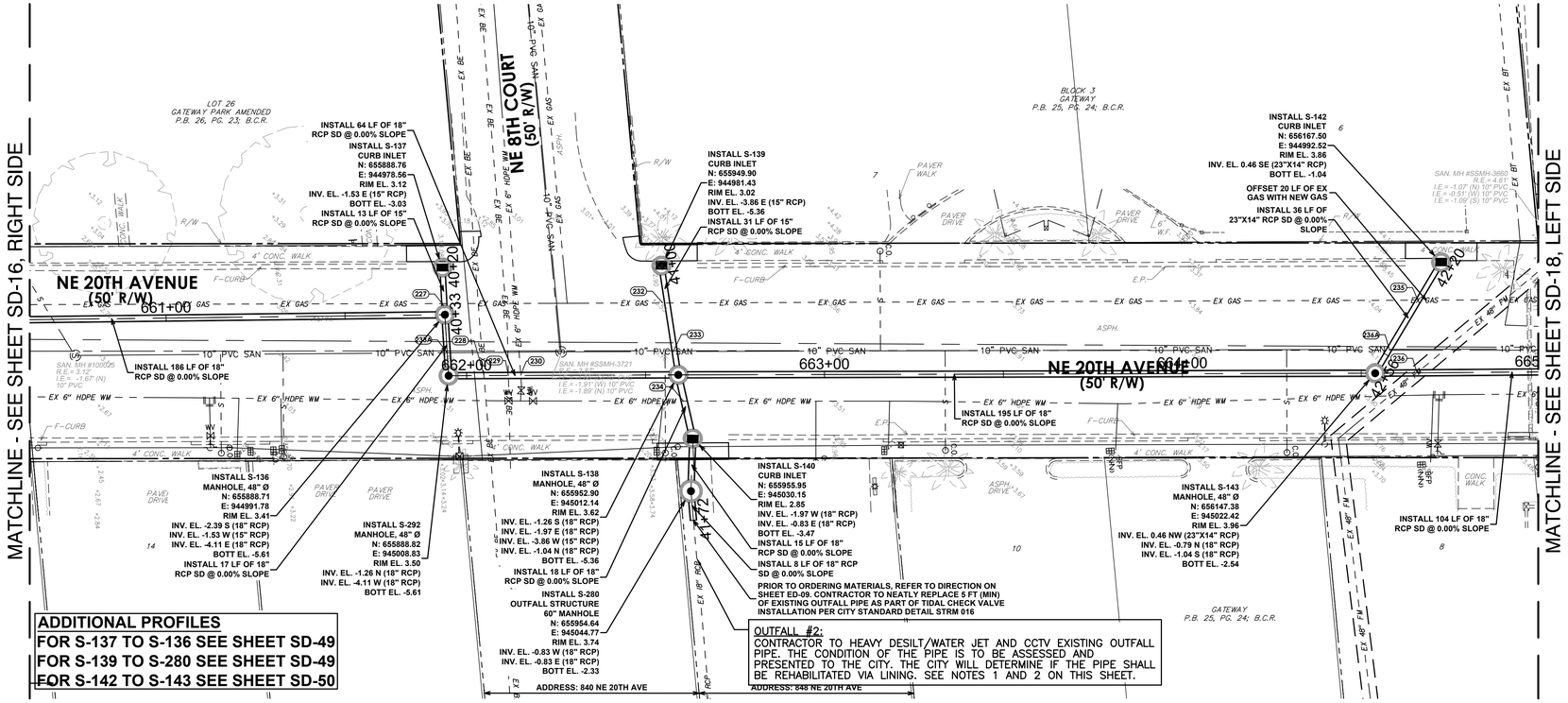
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-16
SHT # 47
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN

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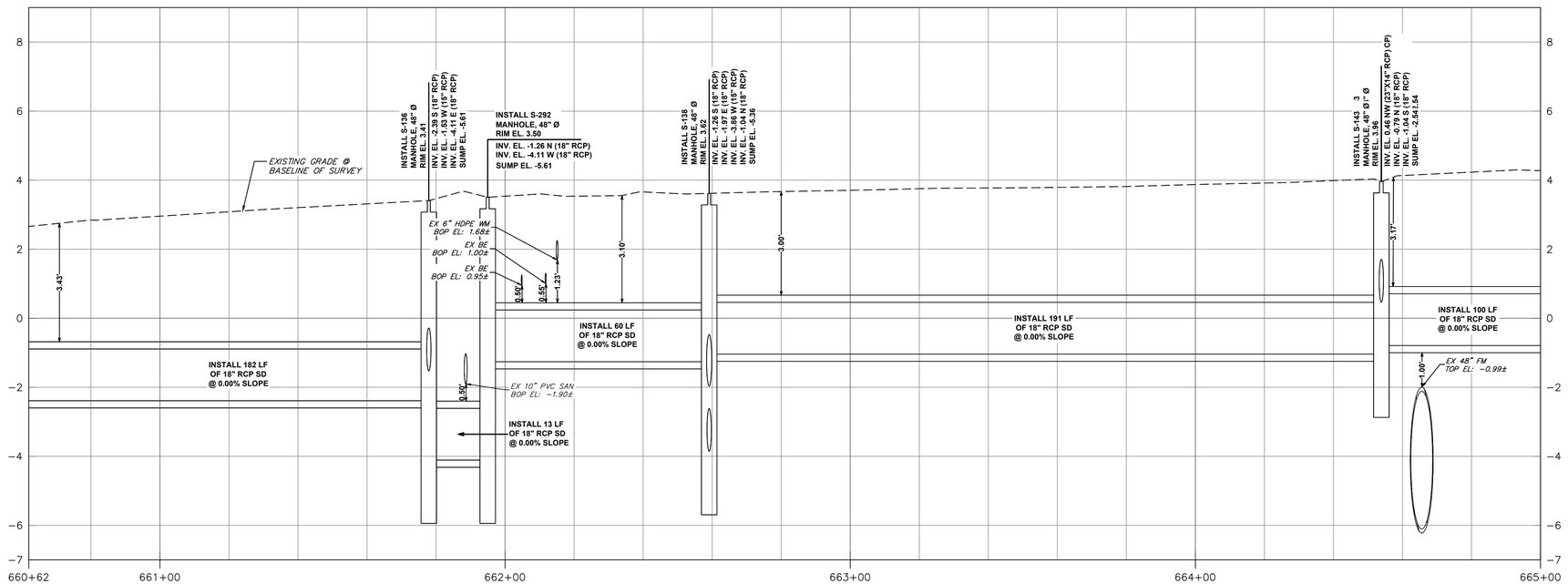

NE 20TH AVE

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

OUTFALL NOTES:

1. THOROUGHLY DESILT AND HIGH-PRESSURE WATER JET EXISTING OUTFALL(S). COLLECT AND PROPERLY DISPOSE ALL DEBRIS, SILT, AND MATERIAL REMOVED. DISCHARGE OF ANY MATERIAL INTO THE RECEIVING WATER BODY IS STRICTLY PROHIBITED. REFER TO P11780B RECORD DRAWINGS FOR ADDITIONAL INFORMATION.
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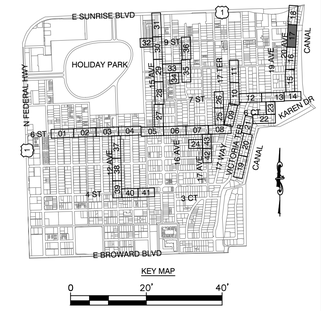

Sunshine811

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

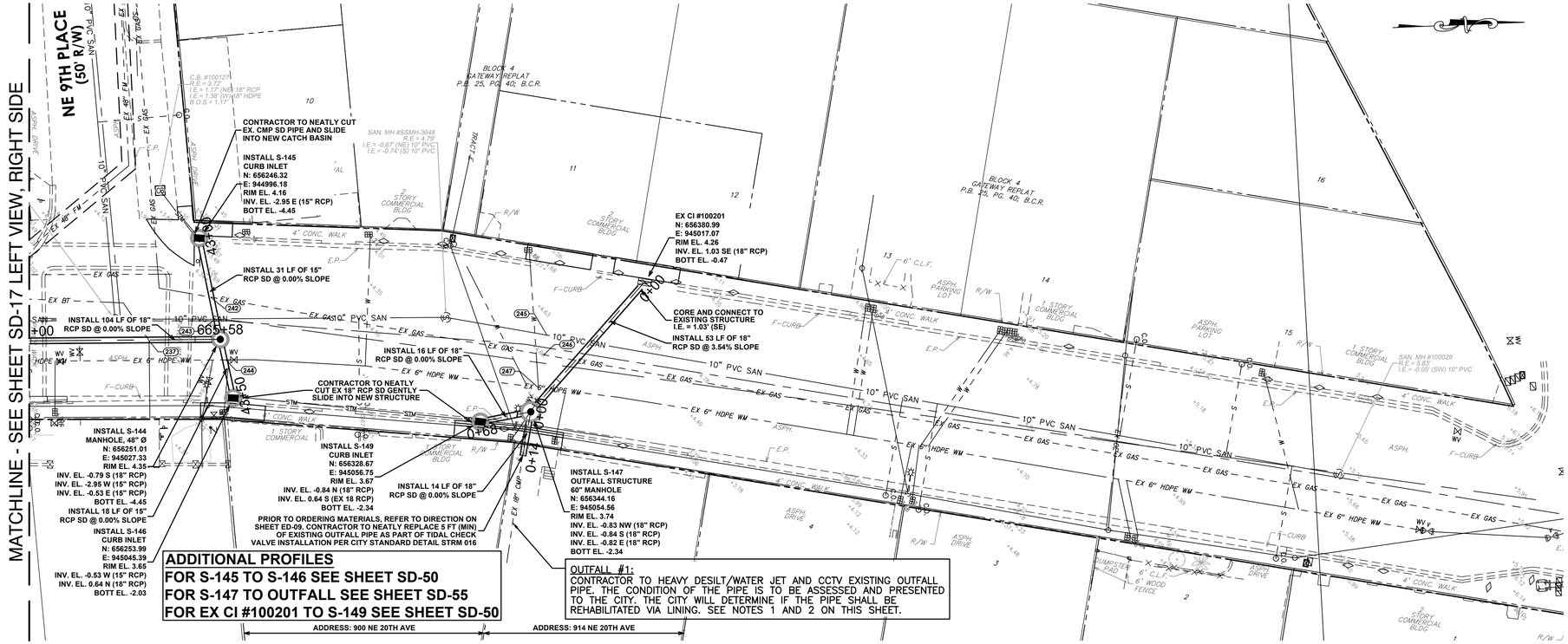
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

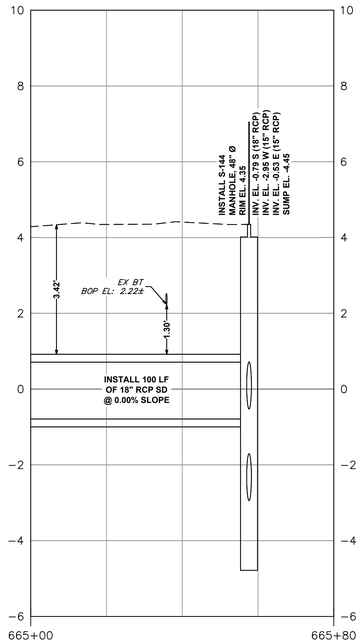
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-17	48
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

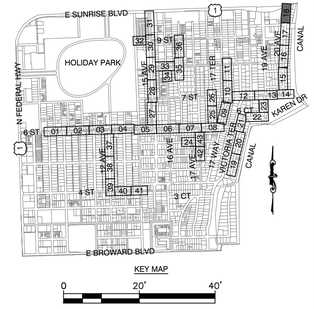
CAM #25-0925
Exhibit 1F
Page 1775 of 2050



PLAN
1"=20'-0"



NE 20TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



OUTFALL NOTES:

1. THOROUGHLY DESILT AND HIGH-PRESSURE WATER JET EXISTING OUTFALL(S). COLLECT AND PROPERLY DISPOSE ALL DEBRIS, SILT, AND MATERIAL REMOVED. DISCHARGE OF ANY MATERIAL INTO THE RECEIVING WATER BODY IS STRICTLY PROHIBITED. REFER TO P11780B RECORD DRAWINGS FOR ADDITIONAL INFORMATION.
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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

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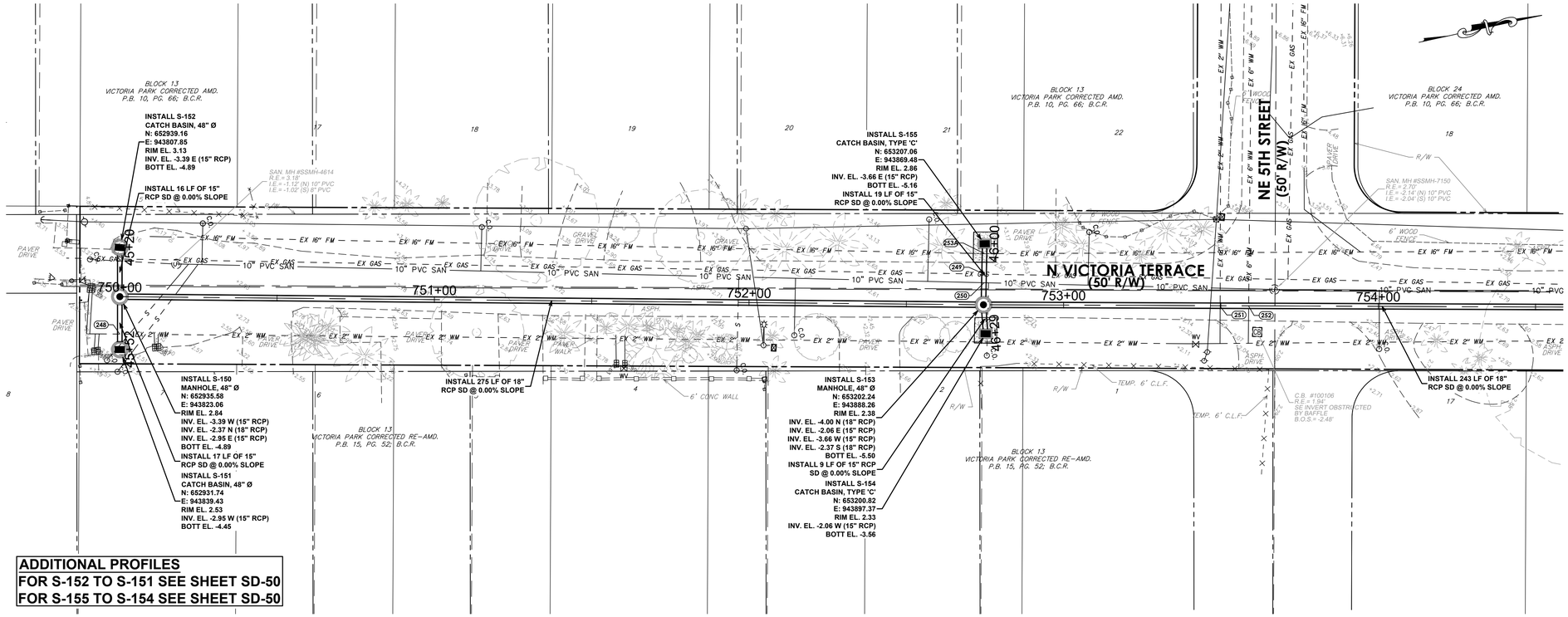
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

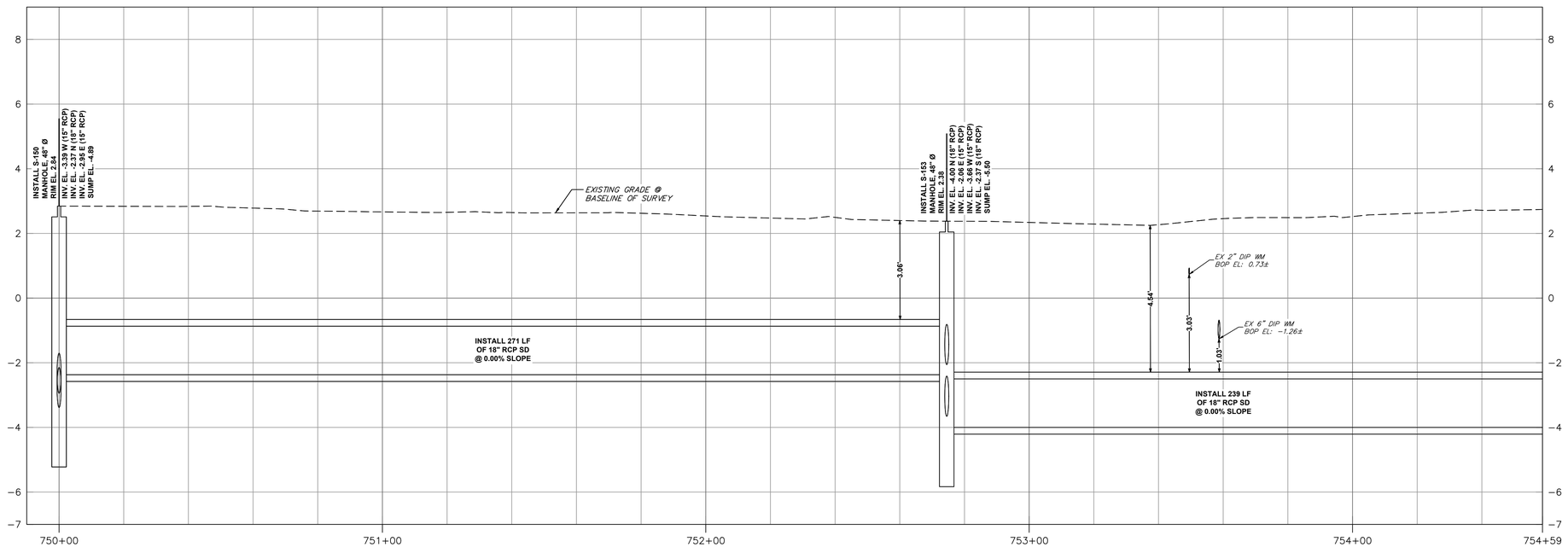
SHEET NO. SD-18 | SHT # 49
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN

1"=20'-0"

ADDITIONAL PROFILES
FOR S-152 TO S-151 SEE SHEET SD-50
FOR S-155 TO S-154 SEE SHEET SD-50



VICTORIA TERR

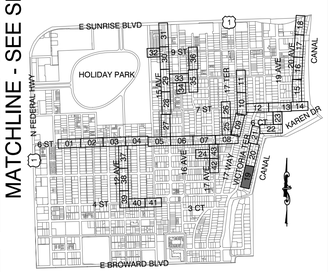
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

MATCHLINE - SEE SHEET SD-20, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	
JJM	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-19	50
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET SD-19, RIGHT SIDE

MATCHLINE - SEE SHEET SD-21 LEFT VIEW, LEFT SIDE

N VICTORIA TERRACE
(50' R/W)

INSTALL S-156
MANHOLE, 48" Ø
N: 653438.14
E: 943944.57
RIM EL. 2.83
INV. EL. -4.00 S (18" RCP)
INV. EL. -2.33 N (18" RCP)
BOTT EL. -5.50

INSTALL 280 LF OF 18"
RCP SD @ 0.00% SLOPE

INSTALL S-159
CATCH BASIN, TYPE 'C'
N: 653715.05
E: 943991.42
RIM EL. 2.89
INV. EL. -5.19 E (15" RCP)
BOTT EL. -6.69

INSTALL 19 LF OF 15"
RCP SD @ 0.00% SLOPE

INSTALL S-157
MANHOLE, 48" Ø
N: 653710.54
E: 944009.54
RIM EL. 3.23
INV. EL. -5.19 W (15" RCP)
INV. EL. -1.50 N (18" RCP)
INV. EL. -1.46 E (15" RCP)
INV. EL. -2.33 S (18" RCP)
BOTT EL. -6.69

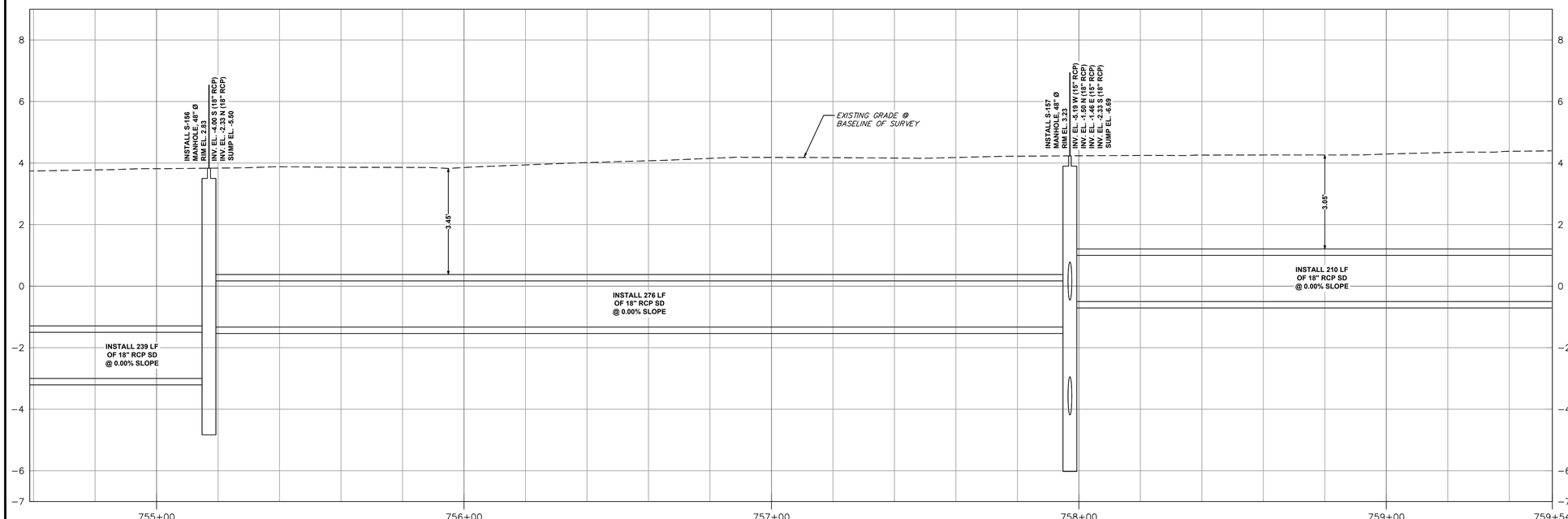
INSTALL 10 LF OF 15"
RCP SD @ 0.00% SLOPE

INSTALL S-158
CATCH BASIN, TYPE 'C'
N: 653707.83
E: 944019.48
RIM EL. 3.03
INV. EL. -1.46 W (15" RCP)
BOTT EL. -2.96

INSTALL 214 LF OF 18"
RCP SD @ 0.00% SLOPE

**ADDITIONAL PROFILES
FOR S-159 TO S-158 SEE SHEET SD-50**

PLAN
1"=20'-0"



VICTORIA TERR
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
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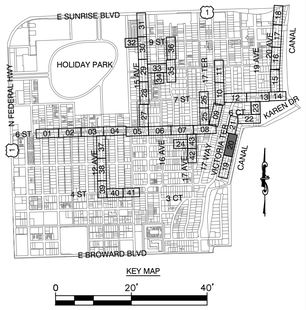

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
FLA. No. 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JLS	DECF	JJM	

DATE: 03/25/25
SCALE: AS SHOWN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

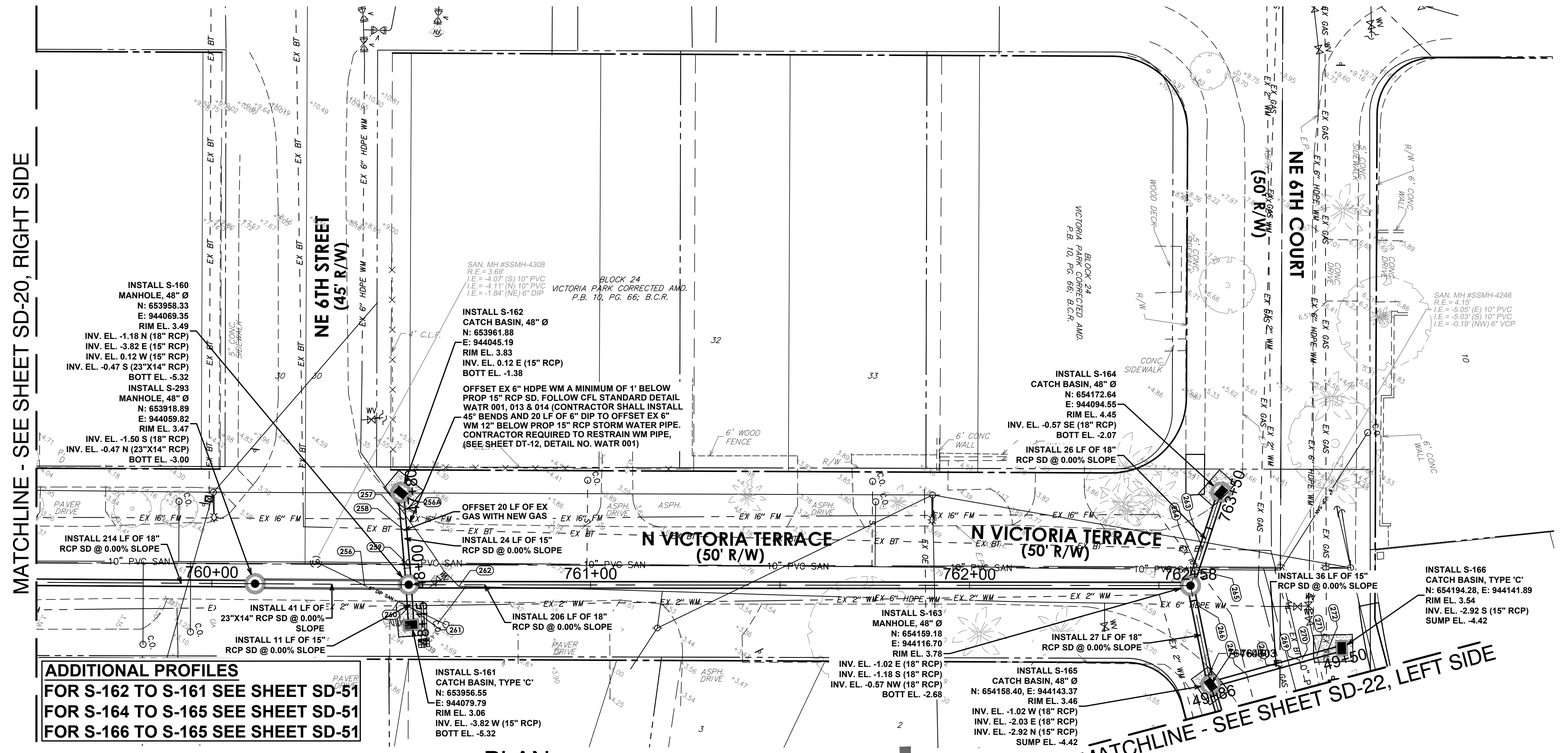
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-20	51

TOTAL: 233

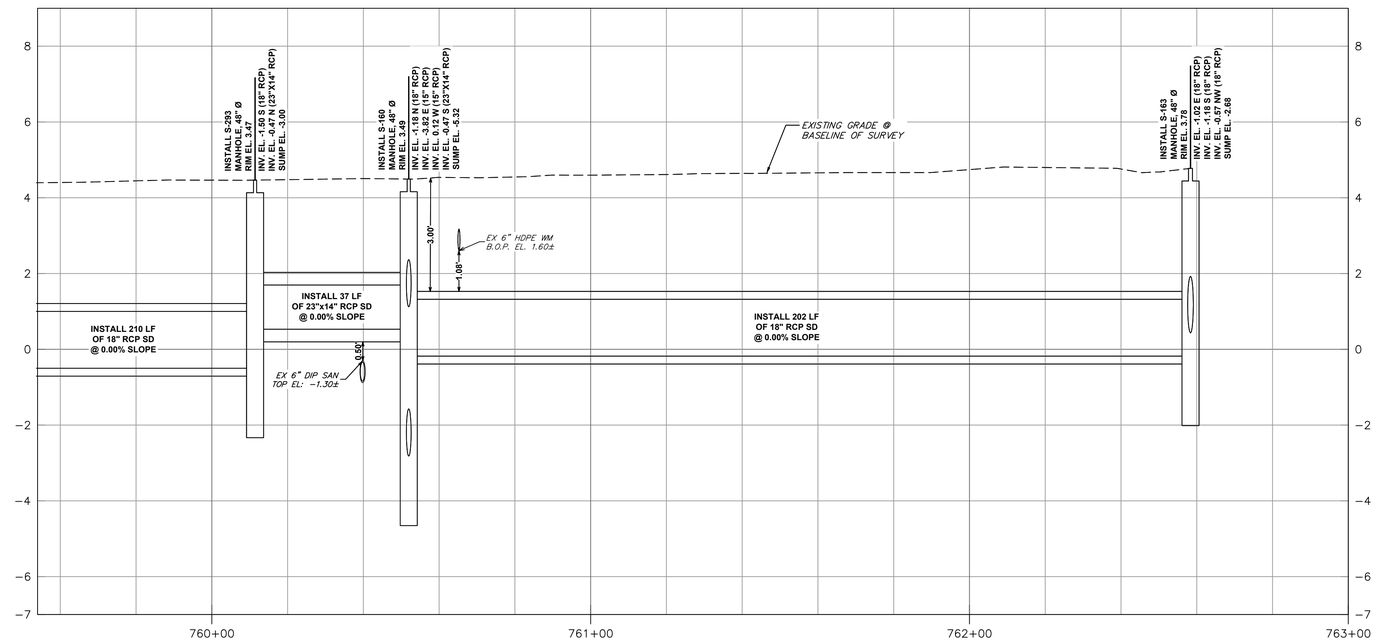
CAD FILE:
12082-MULTI-PROP

DRAWING FILE NO.
4-144-88



PLAN

1"=20'–0"



VICTORIA TERR

VERTICAL 1"=2'–0"

HORIZONTAL 1"=20'–0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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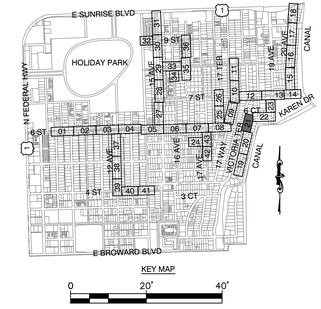

Sunshine811

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY of FORT LAUDERDALE
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ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

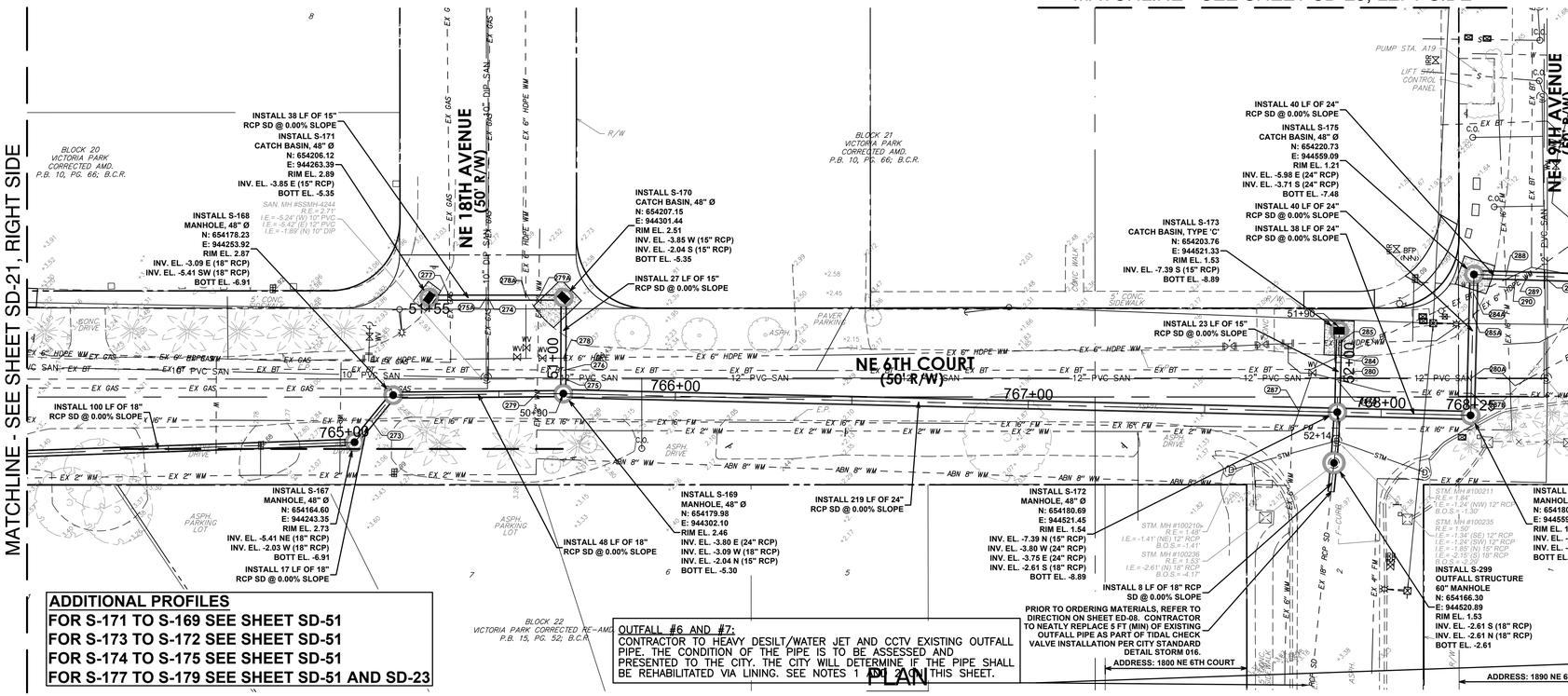
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-21	52
TOTAL:	233
CAD FILE: 12082–MULTI–PROP	
DRAWING FILE NO. 4–144–88	

MATCHLINE - SEE SHEET SD-23, LEFT SIDE

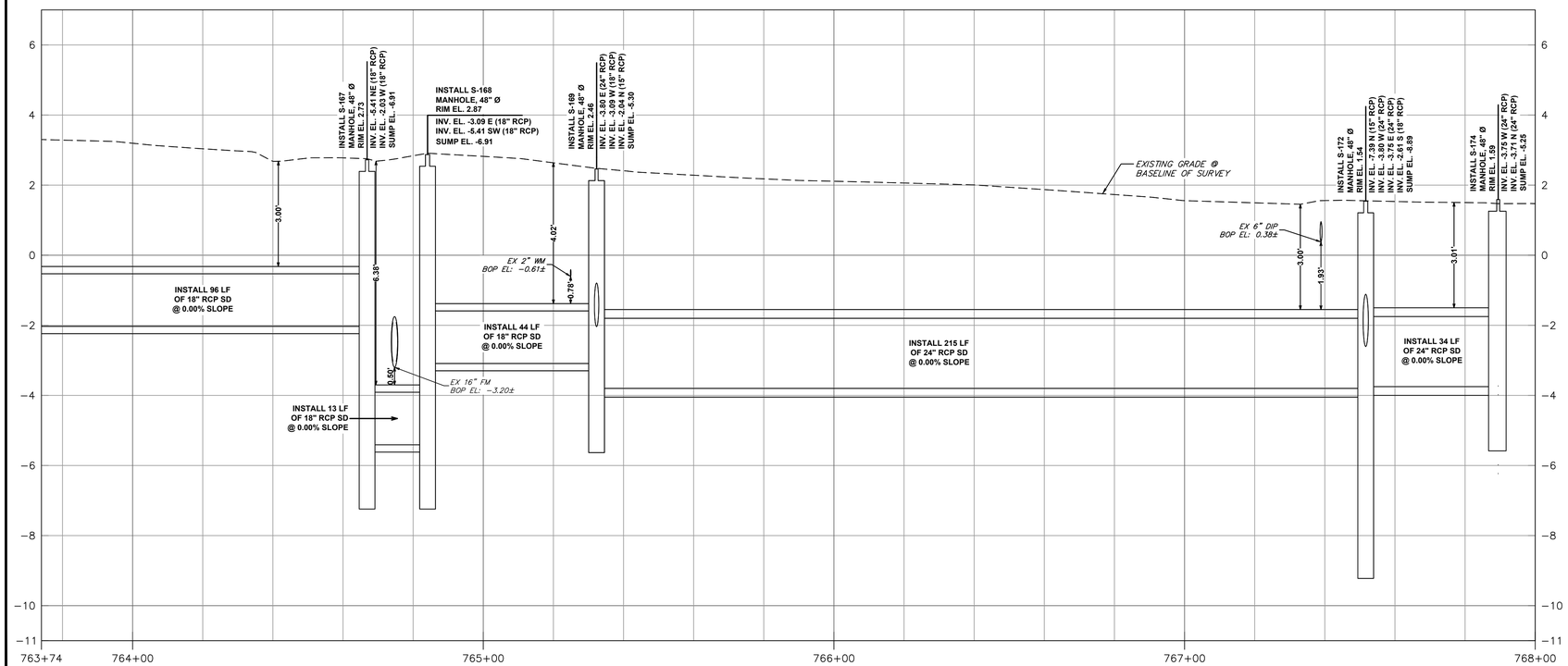
MATCHLINE - SEE SHEET SD-21, RIGHT SIDE



PLAN

1"=20'-0"

ADDITIONAL PROFILES
FOR S-171 TO S-169 SEE SHEET SD-51
FOR S-173 TO S-172 SEE SHEET SD-51
FOR S-174 TO S-175 SEE SHEET SD-51
FOR S-177 TO S-179 SEE SHEET SD-51 AND SD-23



NE 6TH CT

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

OUTFALL NOTES:

1. THOROUGHLY DESILT AND HIGH-PRESSURE WATER JET EXISTING OUTFALL(S). COLLECT AND PROPERLY DISPOSE ALL DEBRIS, SILT, AND MATERIAL REMOVED. DISCHARGE OF ANY MATERIAL INTO THE RECEIVING WATER BODY IS STRICTLY PROHIBITED. REFER TO P11780B RECORD DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONDUCT CCTV INSPECTION OF THE EXISTING OUTFALL SYSTEMS INCLUDING OUTFALL STRUCTURE, OUTFALL PIPE, TIDAL VALVE, AND MANATEE GRATE AFTER DESILTING AND WATER JETTING ARE COMPLETED.
3. REHABILITATION WORK (LINING) ON EXISTING OUTFALL SYSTEM(S) SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
4. INSTALLATION OR REPLACEMENT OF MANATEE GRATES ON OUTFALLS 1 THROUGH 8 SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
5. INSTALLATION OR REPLACEMENT OF INLINE CHECK VALVE ON OUTFALLS 1 THROUGH 8 SHALL NOT BE CONDUCTED WITHOUT WRITTEN APPROVAL FROM THE CITY.
6. DISCREPANCIES EXIST BETWEEN THE TOPOGRAPHIC SITE SURVEY PREPARED BY CRAVEN THOMSON & ASSOCIATES, INC. THE CITY GIS ATLAS, AND THE AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING OUTFALL DRAINAGE PIPES AND STRUCTURES SIZE, MATERIAL, AND LOCATION.

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
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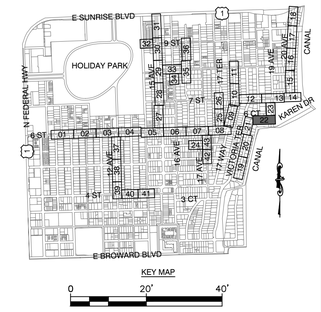
954.730.0707
www.chenmoore.com



Sunshine811
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Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No.: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

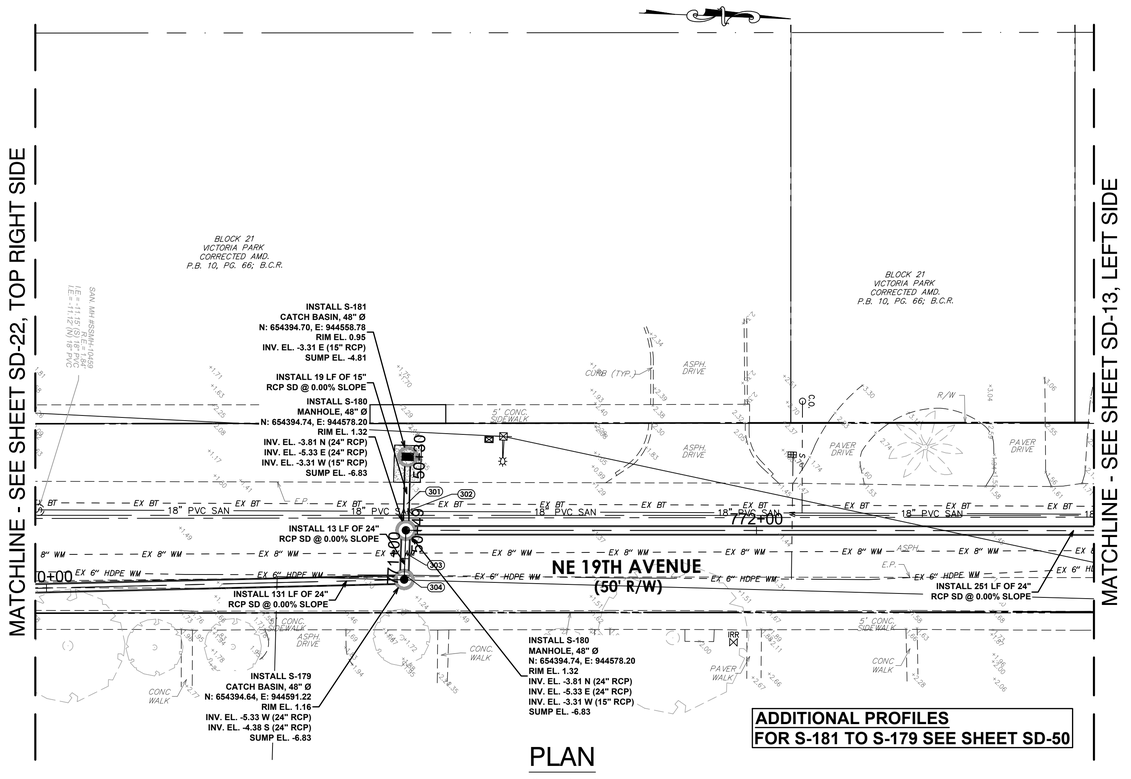
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-22	53
TOTAL:	233

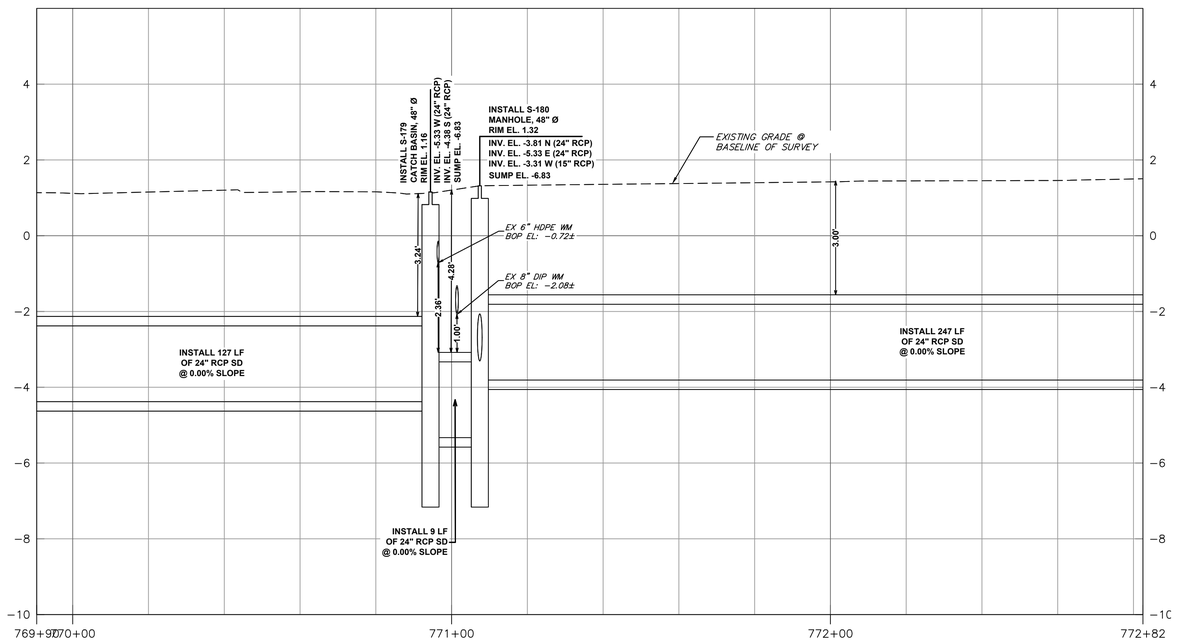
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1780 of 2050



PLAN

1"=20'-0"



NE 19TH AVE

VERTICAL 1"=2'-0"

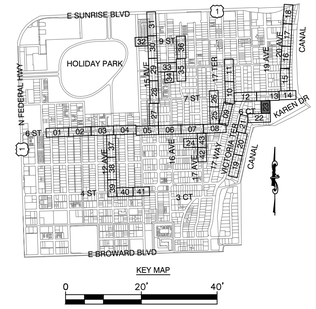
HORIZONTAL 1"=20'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



Sunshine811

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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

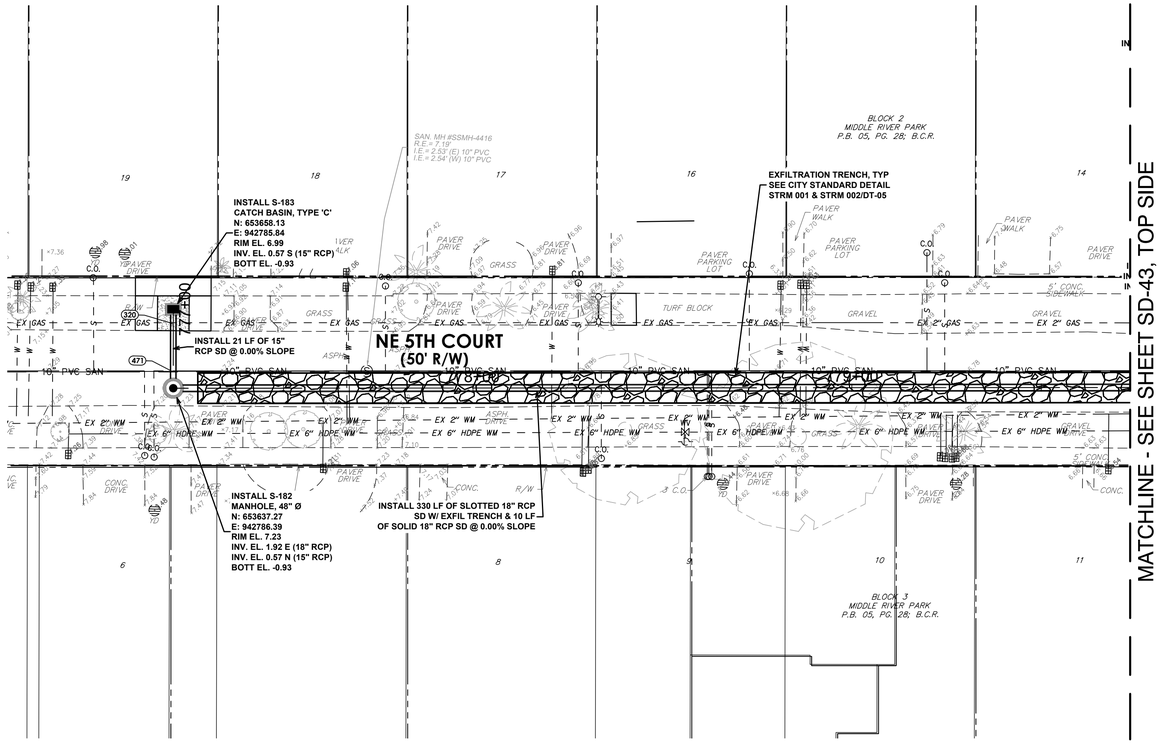
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

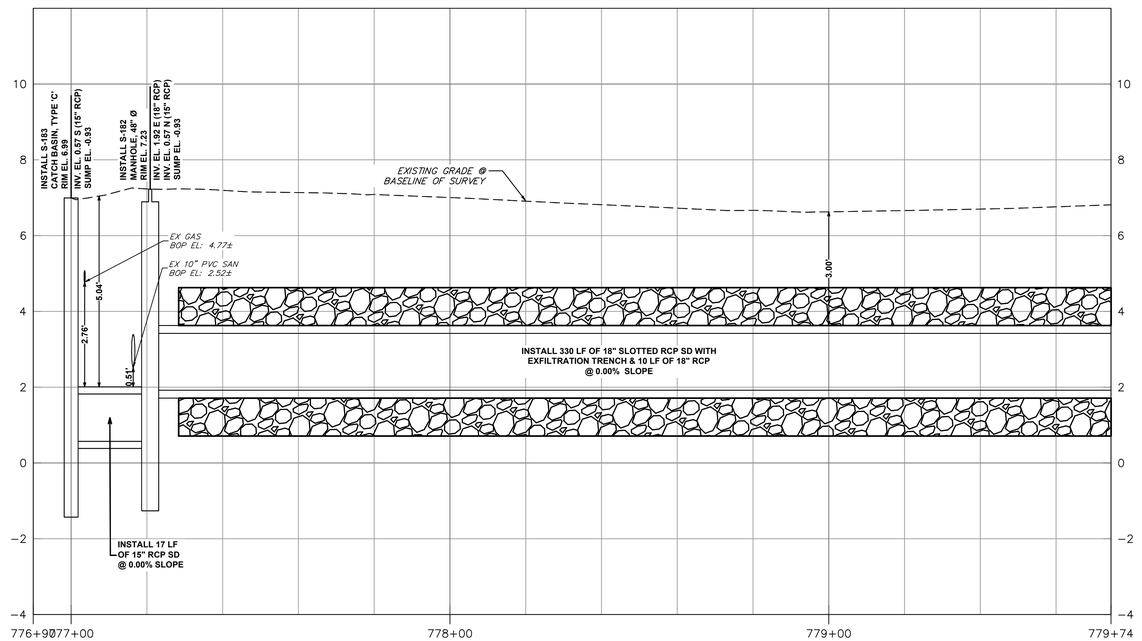
SHEET NO.	SHT #
SD-23	54
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

CAM #25-0925
Exhibit 1F
Page 1781 of 2050



PLAN

1"=20'-0"



NE 5TH CT

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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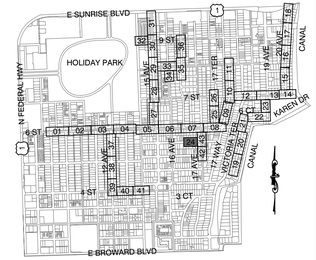

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ENGINEER:
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REG. No: 65558
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DRAWN BY: JLS
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SCALE: AS SHOWN
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FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

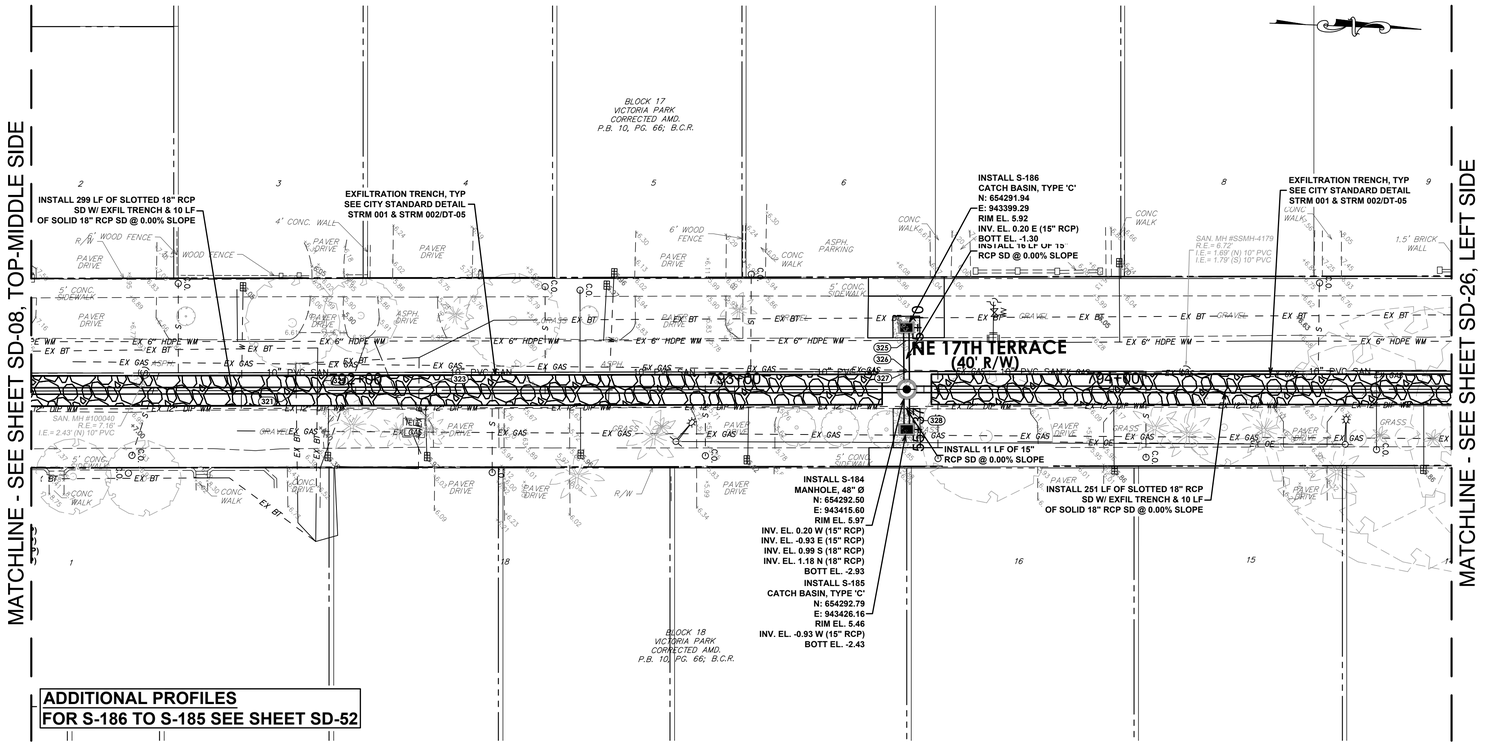
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-24	55
TOTAL:	233

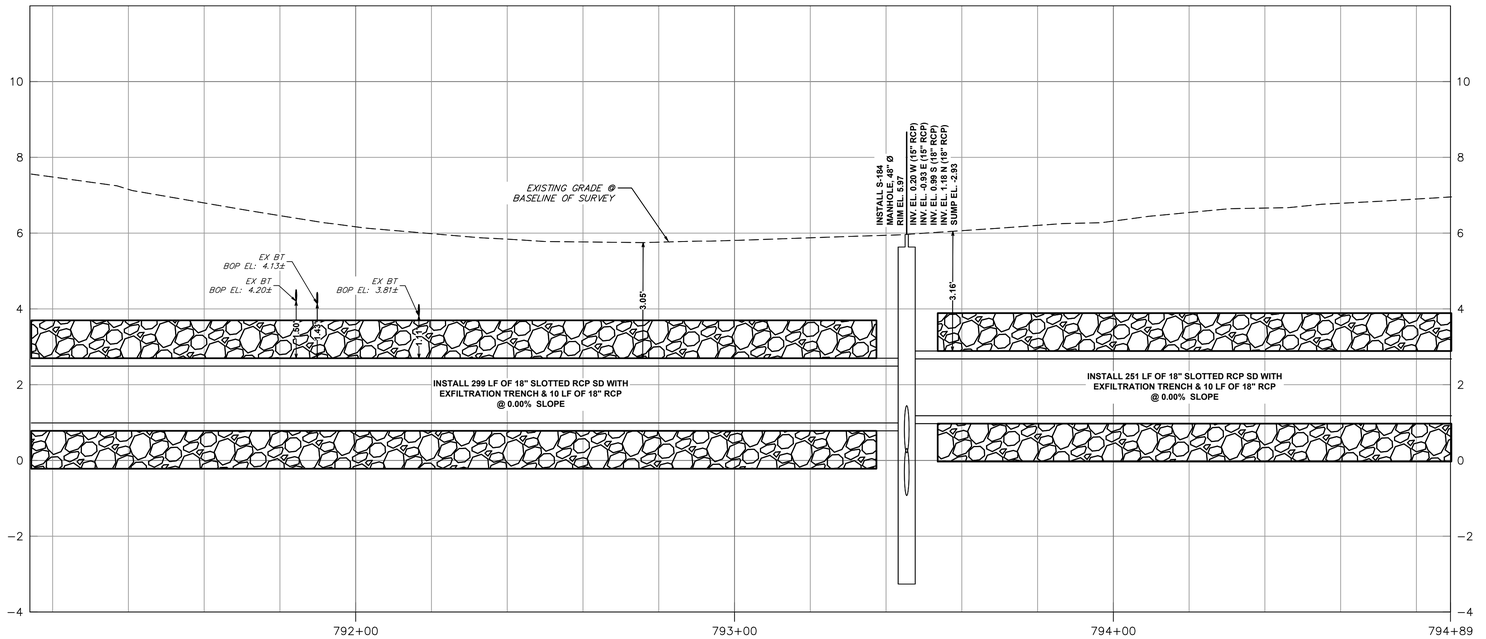
CAD FILE:
12082-MULTI-PROP

DRAWING FILE NO.
4-144-88



PLAN

1"=20'–0"



NE 17TH TERR

VERTICAL 1"=2'–0"

HORIZONTAL 1"=20'–0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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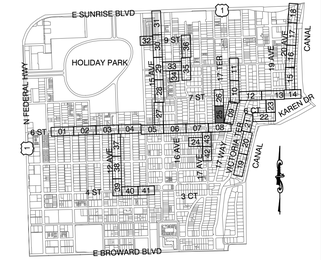

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

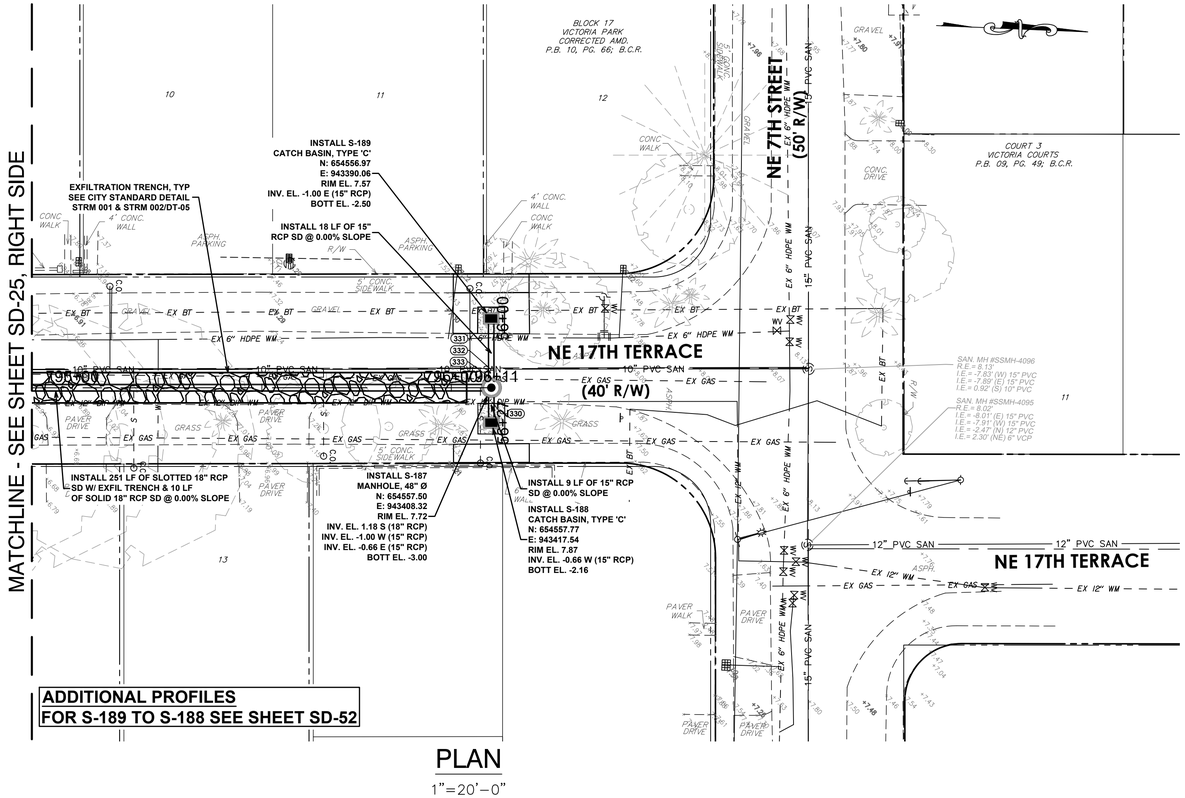
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

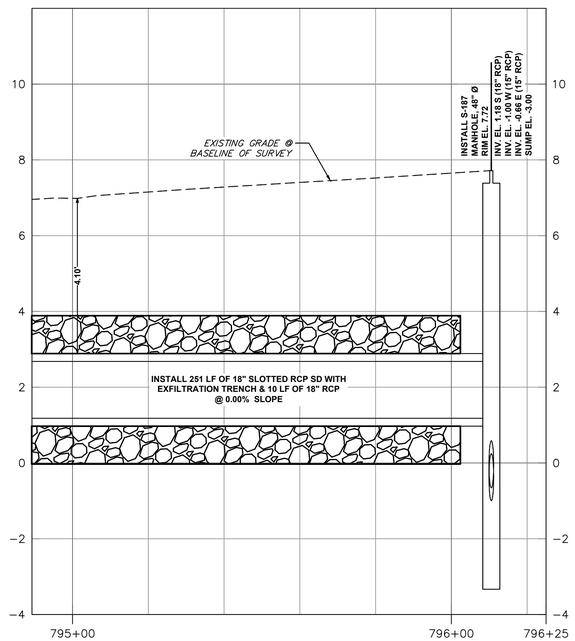
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-25	56
TOTAL:	233
CAD FILE: 12082–MULTI–PROP	
DRAWING FILE NO. 4–144–88	



PLAN

1"=20'–0"



NE 17TH TERR

VERTICAL 1"=2'–0"

HORIZONTAL 1"=20'–0"

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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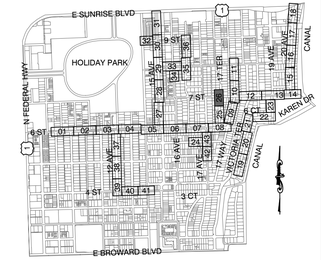

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JJM	

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PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-26	57
TOTAL:	233

CAD FILE:
12082–MULTI–PROP

DRAWING FILE NO.
4–144–88

MATCHLINE - SEE SHEET SD-05, TOP SIDE

MATCHLINE - SEE SHEET SD-28, LEFT SIDE

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 273 LF OF 18"
RCP SD @ 0.00% SLOPE

INSTALL 257 LF OF SLOTTED 18" RCP
SD W/ EXFIL TRENCH & 10 LF
OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL S-190
MANHOLE, 48" Ø
N: 654238.94
E: 942083.48
RIM EL. 8.68
INV. EL. 2.10 N (18" RCP)
INV. EL. 2.99 S (18" RCP)
INV. EL. 4.07 E (15" RCP)
BOTT EL. 0.10

INSTALL 11 LF OF 15"
RCP SD @ 0.00% SLOPE

INSTALL S-191
CATCH BASIN, TYPE 'C'
N: 654238.20
E: 942094.92
RIM EL. 8.58
INV. EL. 4.07 W (15" RCP)
BOTT EL. 2.57

INSTALL 80-LF OF 18"
RCP SD @ 0.00% SLOPE

NE 6TH COURT
(50' R/W)

INSTALL S-193
CATCH BASIN, TYPE 'C'
N: 654318.83
E: 942088.97
RIM EL. 8.64
INV. EL. 4.21 W (15" RCP)
BOTT EL. 2.71

INSTALL S-192
MANHOLE, 48" Ø
N: 654318.57
E: 942081.33
RIM EL. 8.74
INV. EL. 3.70 N (18" RCP)
INV. EL. 2.10 S (18" RCP)
INV. EL. 4.21 E (15" RCP)
BOTT EL. 0.10

INSTALL 8 LF OF 15" RCP
SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP
SEE CITY STANDARD DETAIL
STRM 001 & STRM 002/DT-05

INSTALL 216 LF OF SLOTTED 18" RCP
SD W/ EXFIL TRENCH & 10 LF
OF SOLID 18" RCP SD @ 0.00% SLOPE

NE 15TH AVENUE
(R/W VARIES)

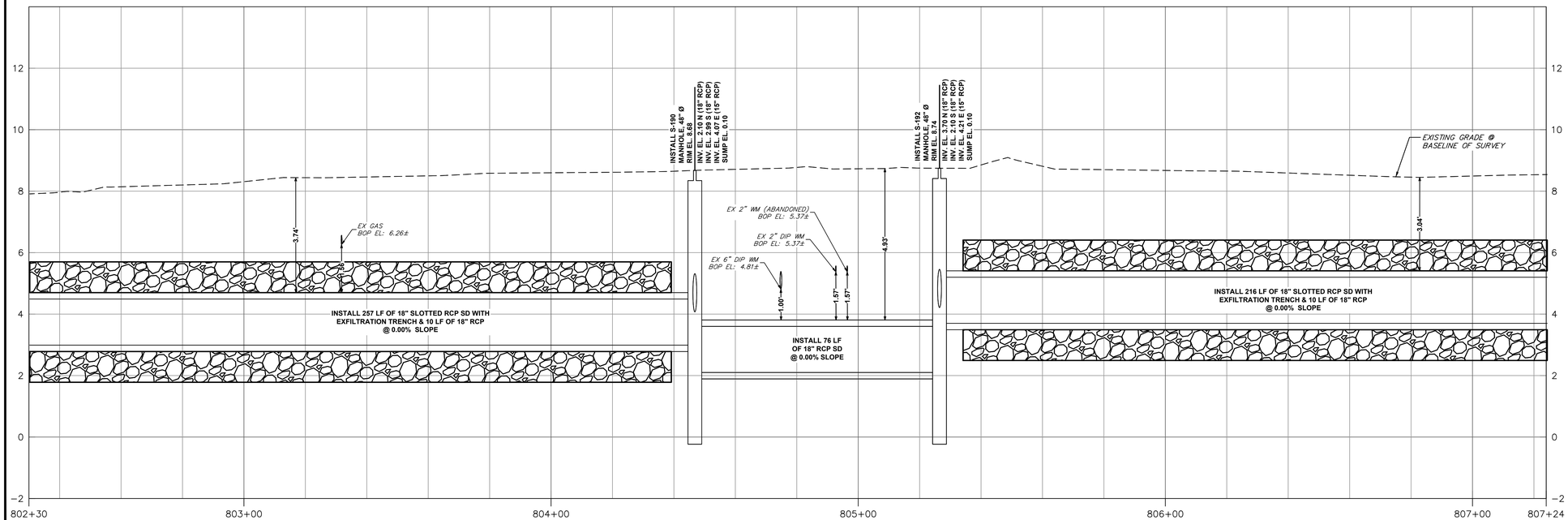
BLOCK 1
GRACELAND PARK
P.B. 18, PG. 06; B.C.R.

BLOCK 2
GRACELAND PARK
P.B. 18, PG. 06; B.C.R.

UNPLATTED BLOCK

ADDITIONAL PROFILES
FOR S-193 TO S-192 SEE SHEET SD-53

PLAN
1"=20'-0"



NE 15TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
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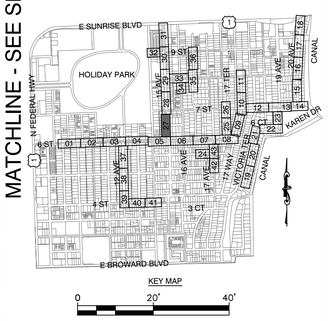
954.730.0707
www.chenmoore.com



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Check positive response codes before you dig!

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
FLA. Reg. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

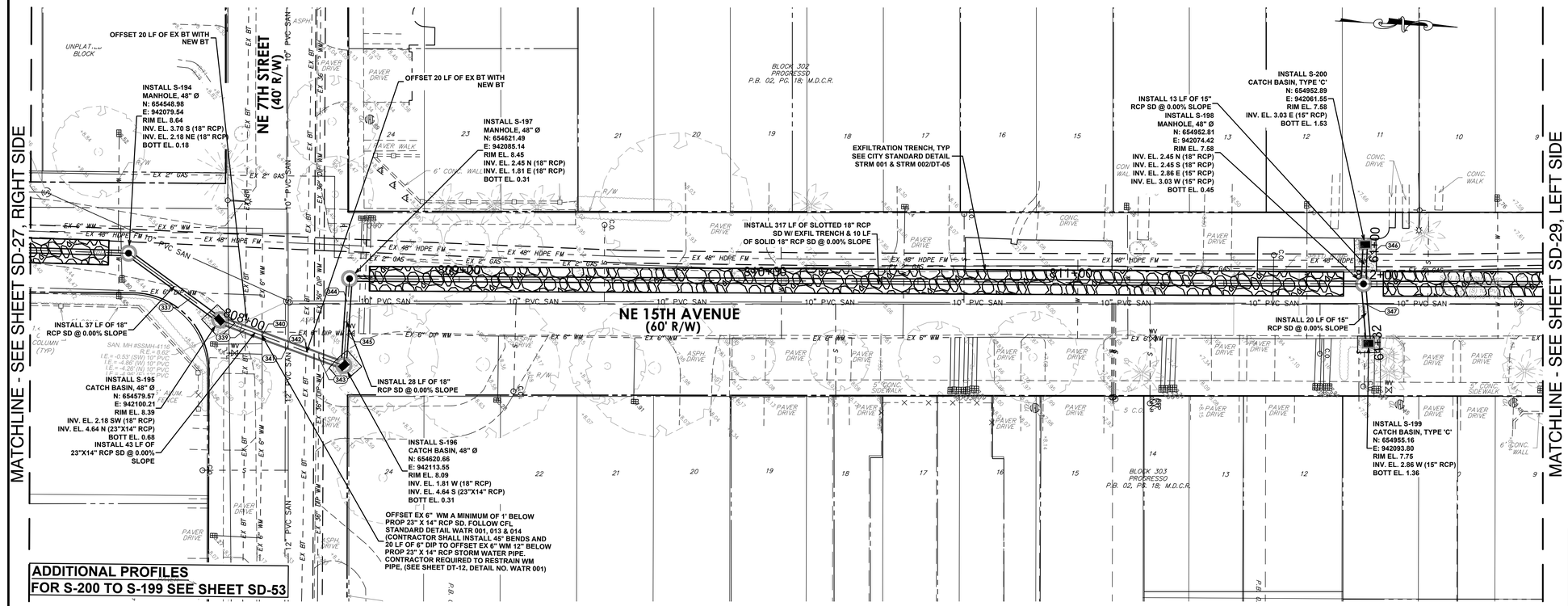
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-27	58
TOTAL:	233

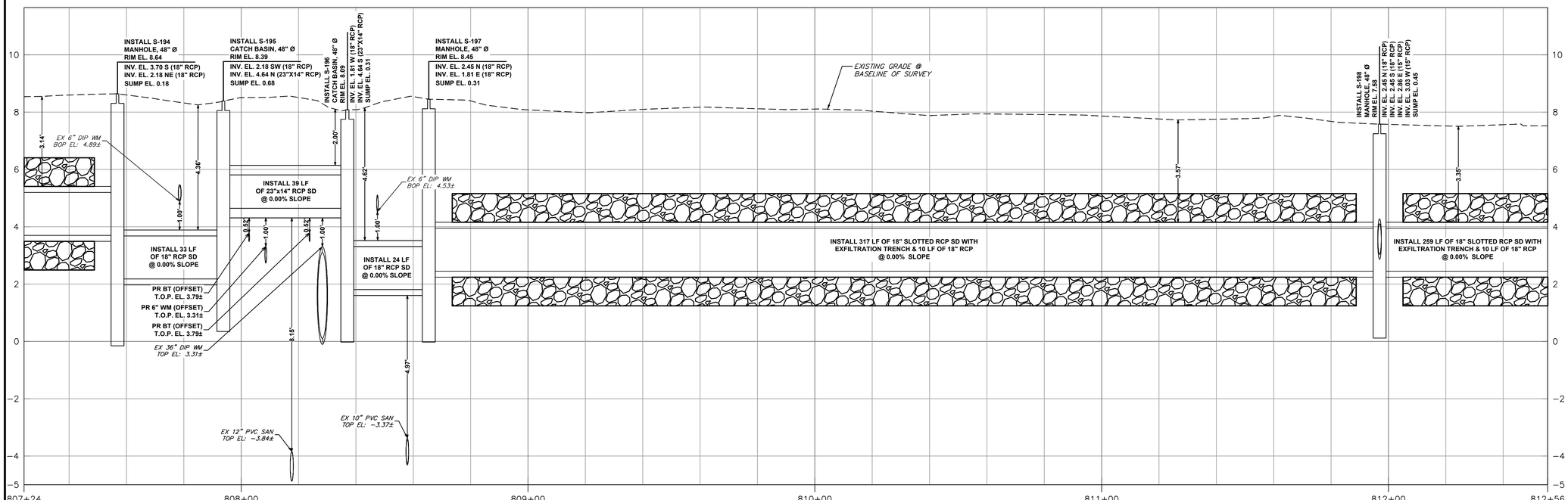
CAD FILE:
12082-MULTI-PROP

DRAWING FILE NO.
4-144-88



PLAN

1"=20'-0"



NE 15TH AVE

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
DATE:
FLORIDA No: 65558
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

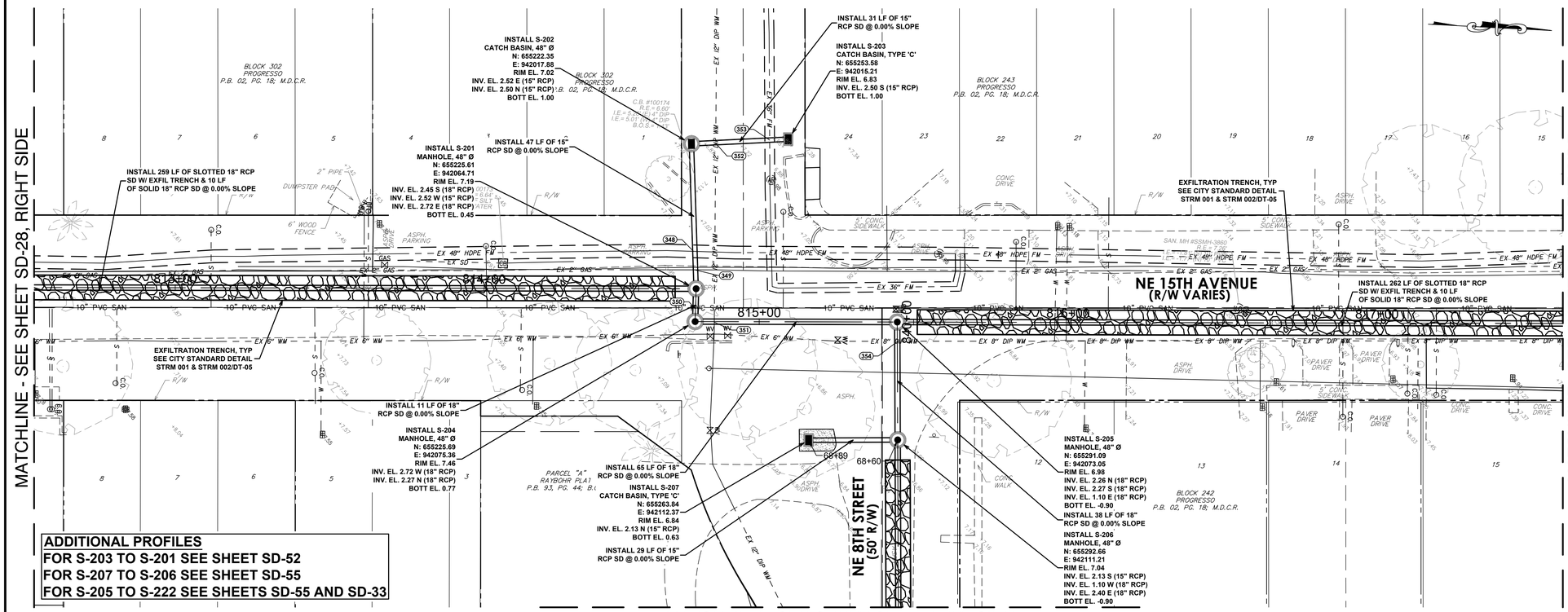
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

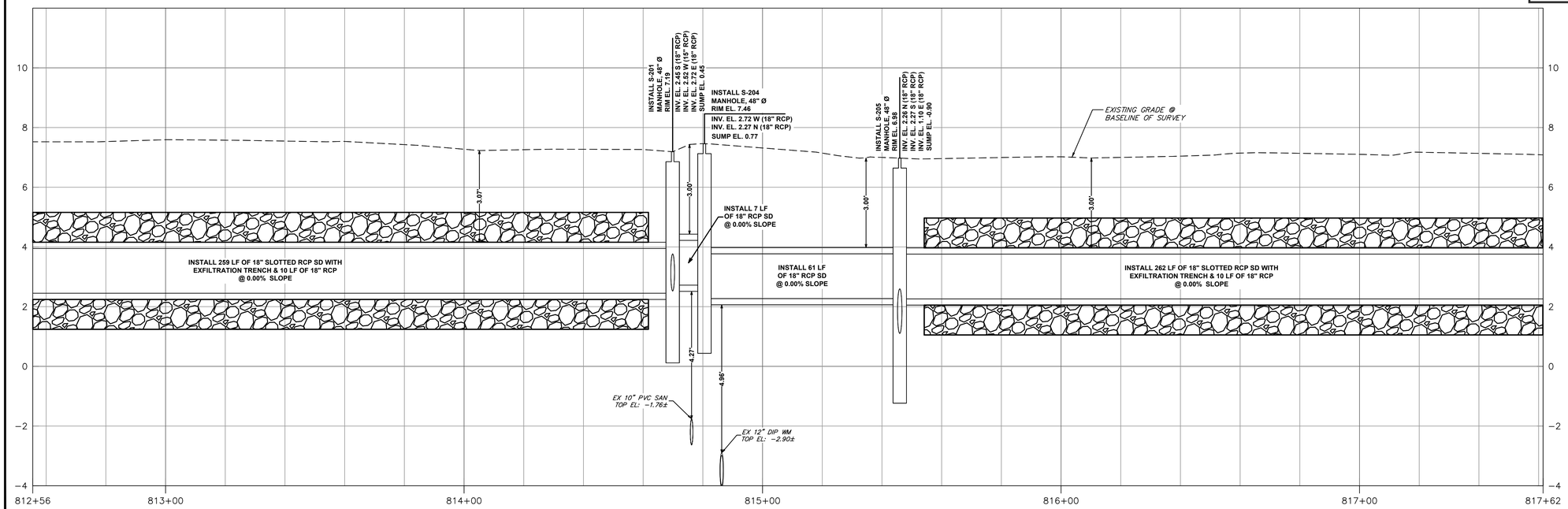
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-28
SHT # 59
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



MATCHLINE - SEE SHEET SD-33, LEFT SIDE
PLAN
1"=20'-0"



NE 15TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

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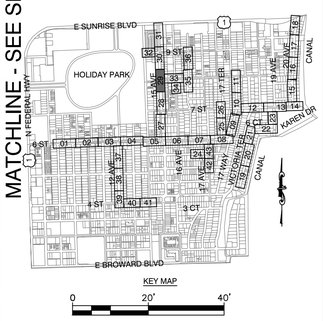

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
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FL Reg. No: 65558
TEL: 954.730.0707
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DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

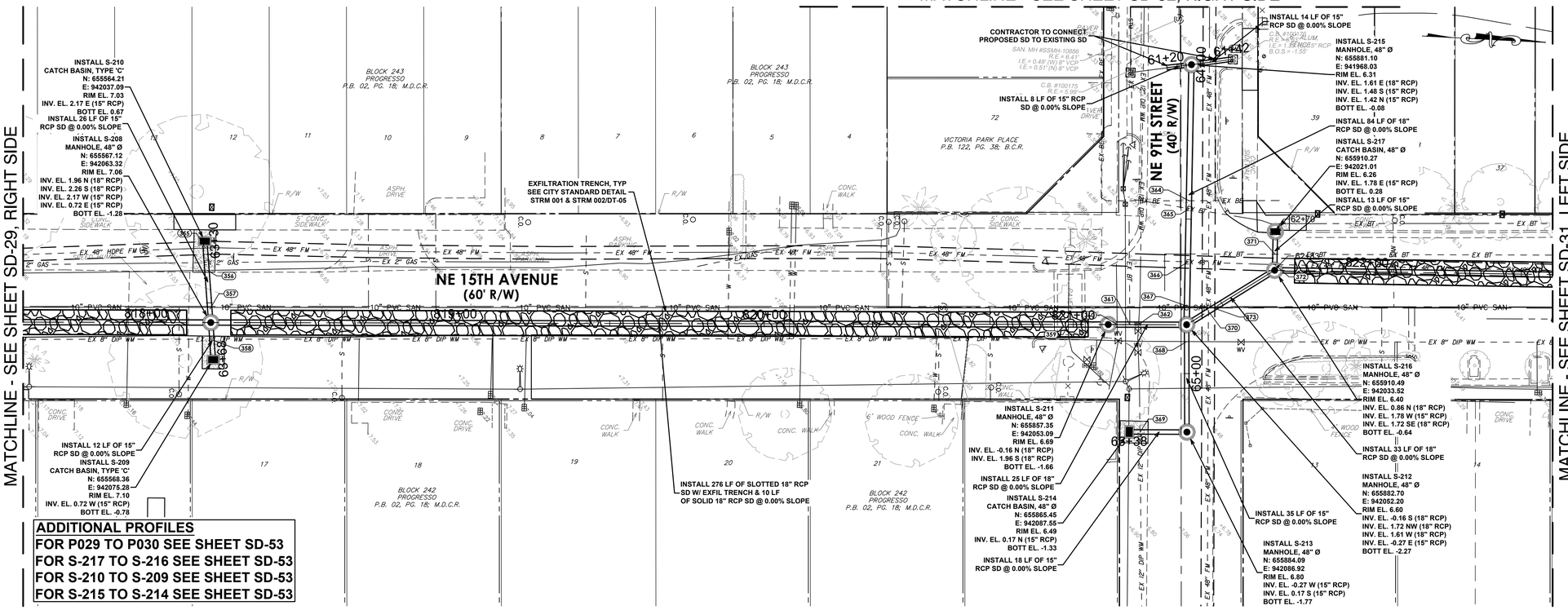
SHEET NO. SD-29
SHT # 60
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1787 of 2050

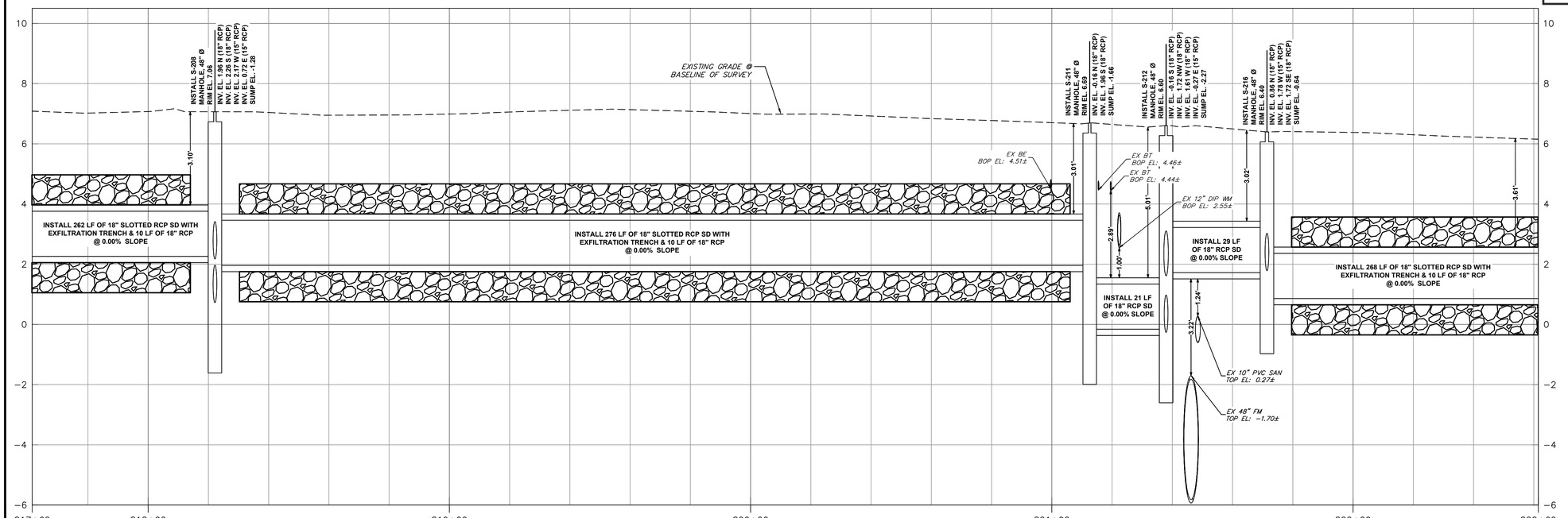
MATCHLINE - SEE SHEET SD-32, RIGHT SIDE

MATCHLINE - SEE SHEET SD-29, RIGHT SIDE

MATCHLINE - SEE SHEET SD-31, LEFT SIDE



PLAN
1"=20'-0"



NE 15TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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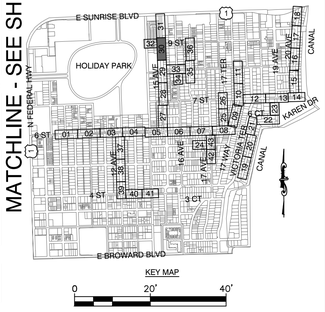

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ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
LIC. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

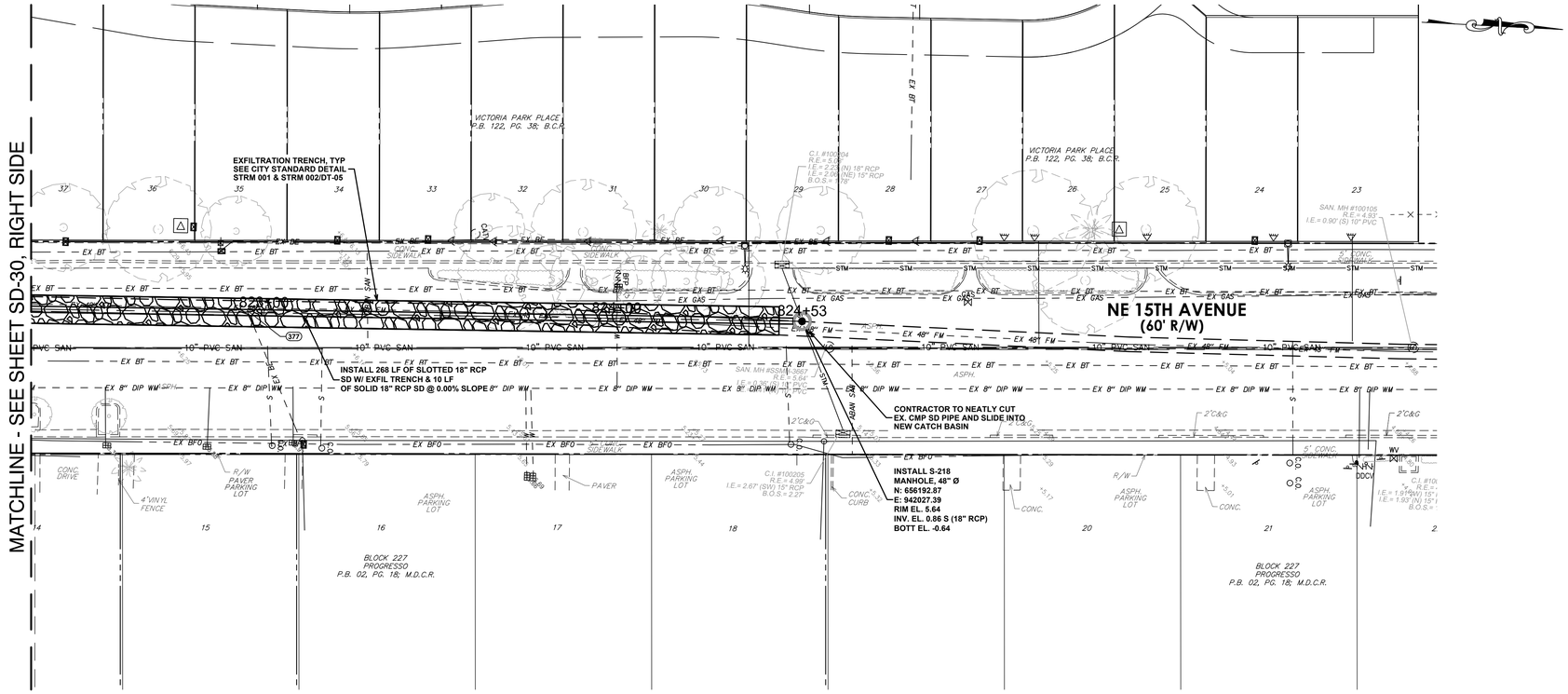
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

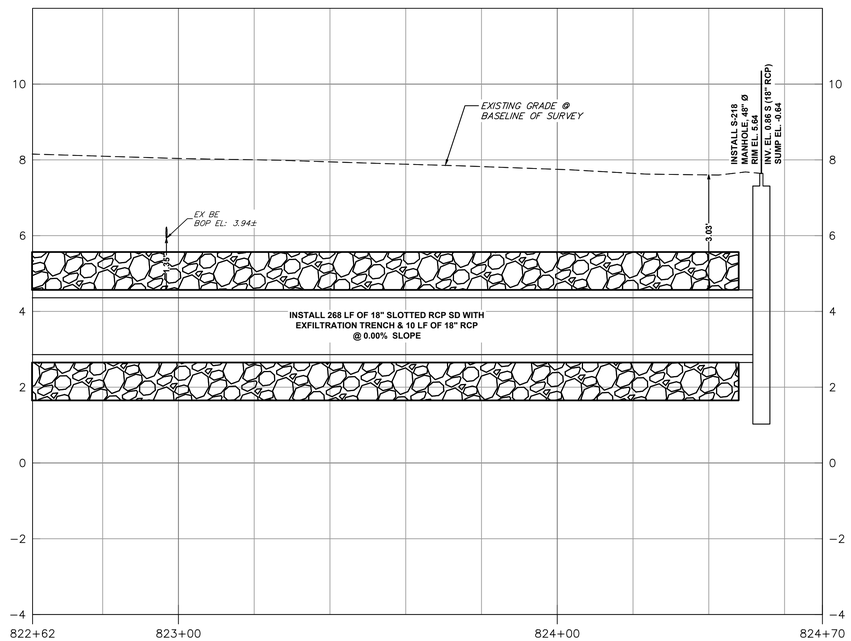
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-30
SHT # 61
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88



PLAN
1"=20'–0"



NE 15TH AVE
VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
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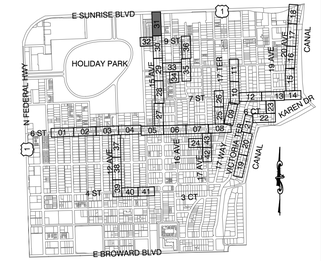

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

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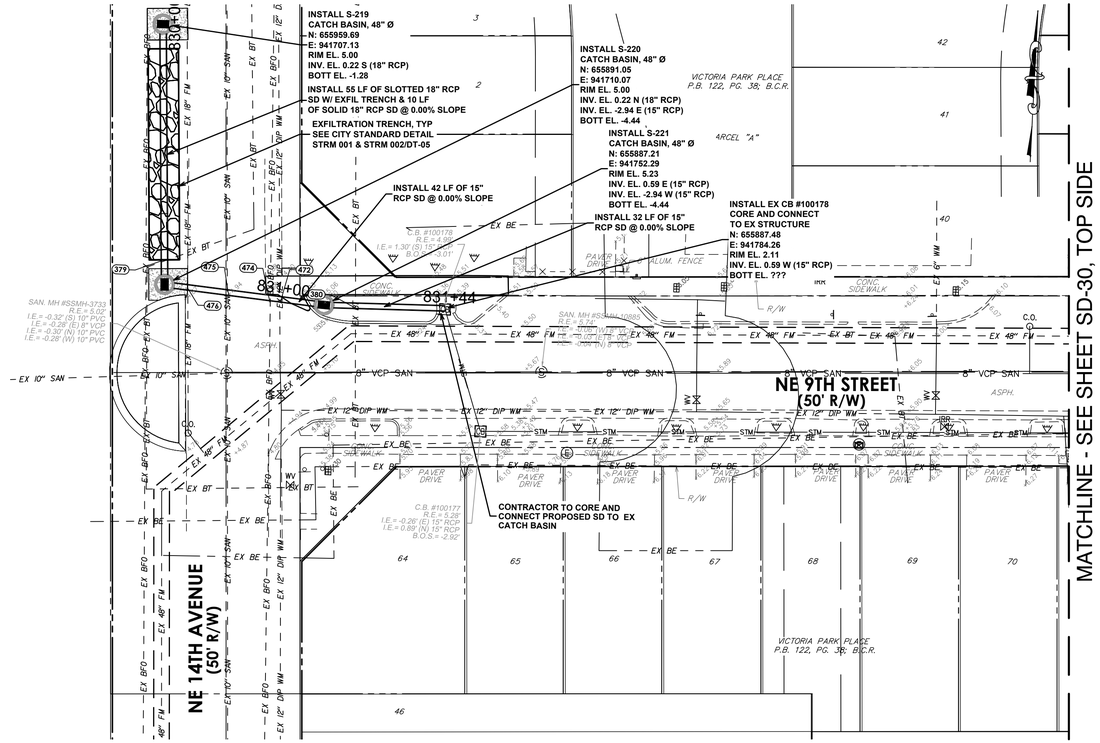
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

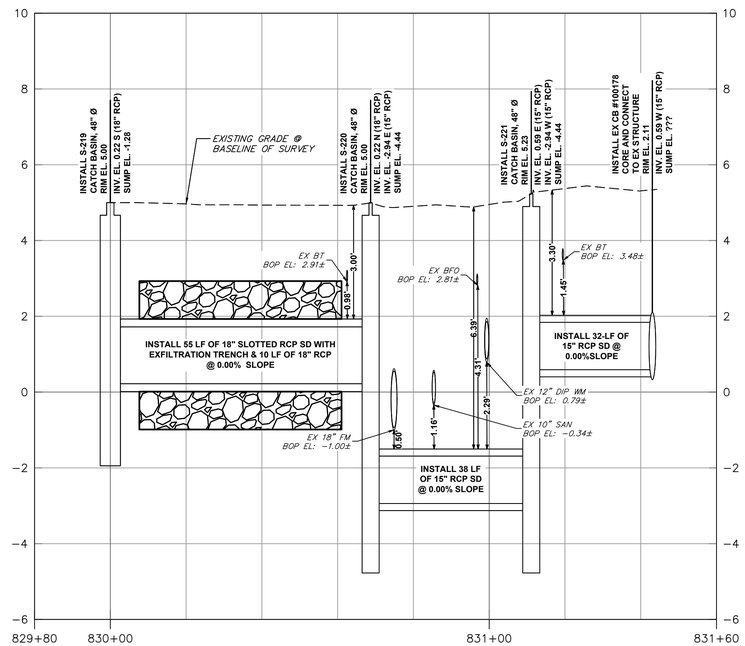
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-31	62
TOTAL:	233
CAD FILE: 12082–MULTI–PROP	
DRAWING FILE NO. 4–144–88	



PLAN

1"=20'-0"



NE 9TH ST (S-219 to CB-100178)

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

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HOLLYWOOD, FLORIDA 33021

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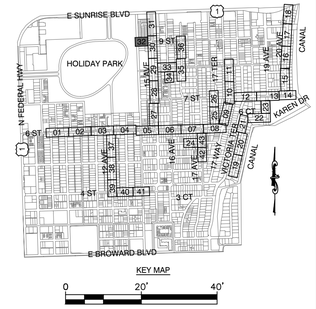
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030



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PUBLIC WORKS DEPARTMENT
ENGINEERING
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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

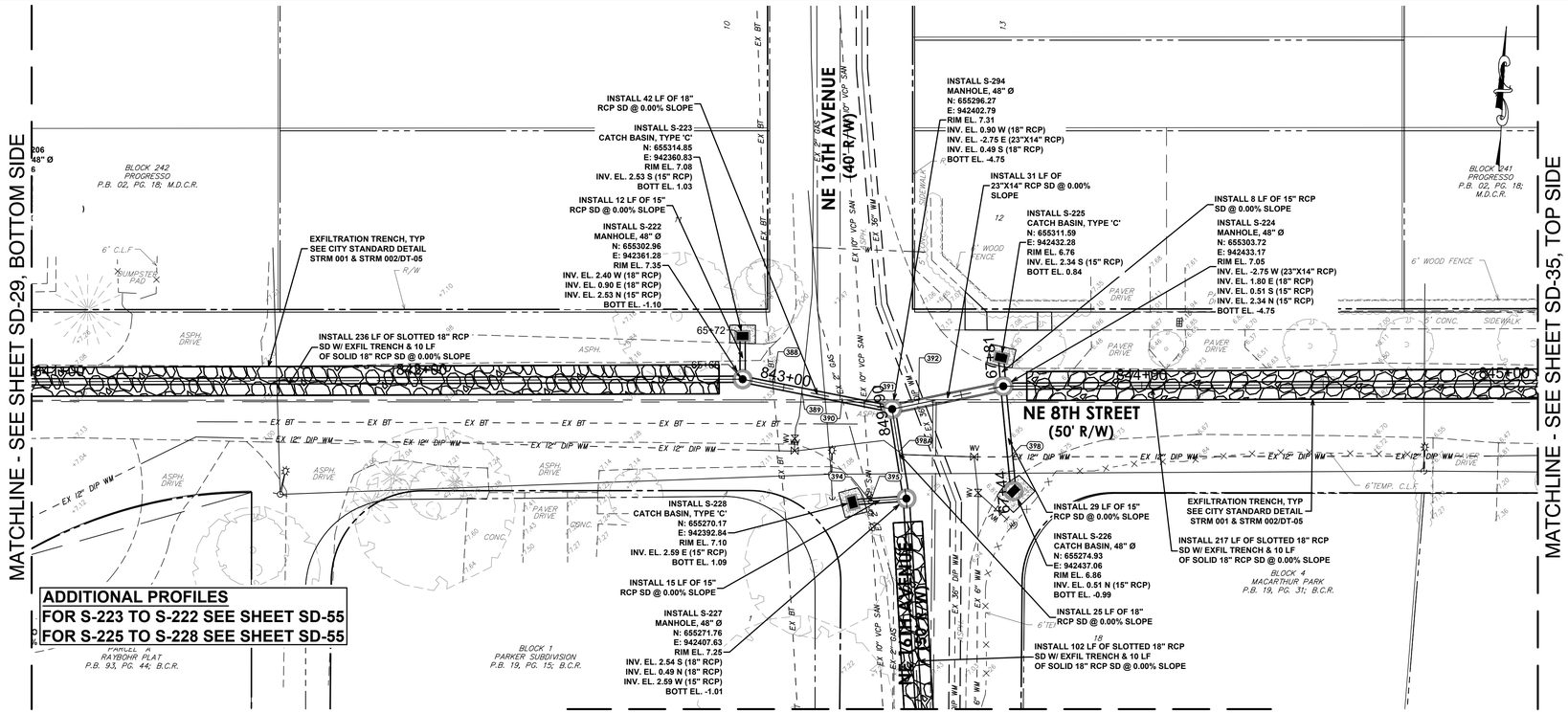
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

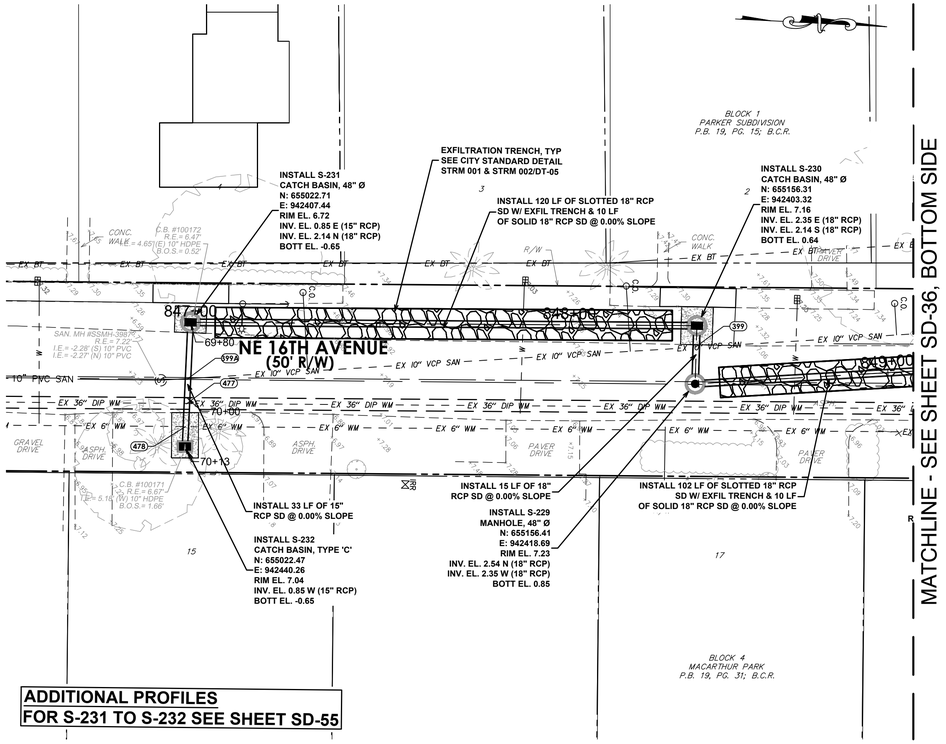
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-32	63
TOTAL:	233

CAD FILE: 12082-MULTI-PROP

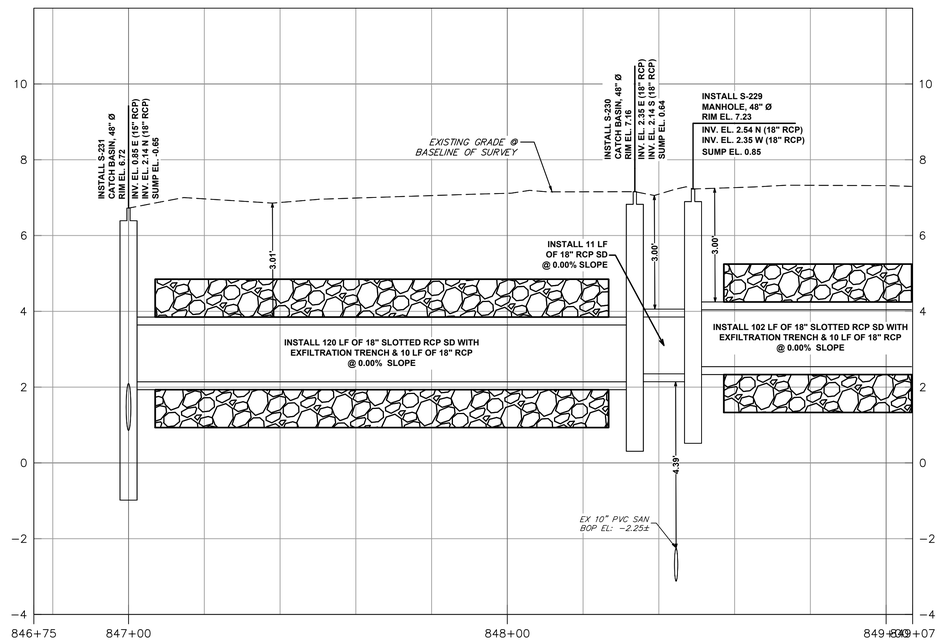
DRAWING FILE NO. 4-144-88


MATCHLINE - SEE SHEET SD-29, BOTTOM SIDE
MATCHLINE - SEE SHEET SD-35, TOP SIDE
MATCHLINE - SEE SHEET SD-34, RIGHT SIDE
NE 16TH AVENUE (40' R/W)
NE 8TH STREET (50' R/W)
NE 7TH AVENUE
INSTALL 42 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL S-223 CATCH BASIN, TYPE 'C' N: 655314.85 E: 942360.83 RIM EL. 7.08 INV. EL. 2.53 S (15" RCP) BOTT EL. 1.03
INSTALL 12 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-222 MANHOLE, 48" Ø N: 655302.96 E: 942361.28 RIM EL. 7.35 INV. EL. 2.40 W (18" RCP) INV. EL. 0.90 E (18" RCP) INV. EL. 2.53 N (15" RCP) BOTT EL. -1.10
EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05
INSTALL 236 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE
INSTALL S-294 MANHOLE, 48" Ø N: 655296.27 E: 942402.79 RIM EL. 7.31 INV. EL. 0.90 W (18" RCP) INV. EL. -2.75 E (23"X14" RCP) INV. EL. 0.49 S (18" RCP) BOTT EL. -4.75
INSTALL 31 LF OF 23"X14" RCP SD @ 0.00% SLOPE
INSTALL S-225 CATCH BASIN, TYPE 'C' N: 655311.59 E: 942432.28 RIM EL. 6.76 INV. EL. 2.34 S (15" RCP) BOTT EL. 0.84
INSTALL 8 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-224 MANHOLE, 48" Ø N: 655303.72 E: 942433.17 RIM EL. 7.05 INV. EL. -2.75 W (23"X14" RCP) INV. EL. 1.80 E (18" RCP) INV. EL. 0.51 S (15" RCP) INV. EL. 2.34 N (15" RCP) BOTT EL. -4.75
INSTALL S-228 CATCH BASIN, TYPE 'C' N: 655270.17 E: 942392.84 RIM EL. 7.10 INV. EL. 2.59 E (15" RCP) BOTT EL. 1.09
INSTALL 15 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-227 MANHOLE, 48" Ø N: 655271.76 E: 942407.63 RIM EL. 7.25 INV. EL. 2.54 S (18" RCP) INV. EL. 0.49 N (18" RCP) INV. EL. 2.59 W (15" RCP) BOTT EL. -1.01
INSTALL 29 LF OF 15" RCP SD @ 0.00% SLOPE
INSTALL S-226 CATCH BASIN, 48" Ø N: 655274.93 E: 942437.06 RIM EL. 6.86 INV. EL. 0.51 N (15" RCP) BOTT EL. -0.99
INSTALL 25 LF OF 18" RCP SD @ 0.00% SLOPE
INSTALL 102 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE
EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05
INSTALL 217 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE
ADDITIONAL PROFILES
FOR S-223 TO S-222 SEE SHEET SD-55
FOR S-225 TO S-228 SEE SHEET SD-55
BLOCK 242 PROGRESSO P.B. 02, PG. 18; M.D.C.R.
BLOCK 241 PROGRESSO P.B. 02, PG. 18; M.D.C.R.
PARCEL A RAYBOHR PLAT P.B. 93, PG. 44; B.C.R.
BLOCK 1 PARKER SUBDIVISION P.B. 19, PG. 15; B.C.R.
BLOCK 4 MACARTHUR PARK P.B. 19, PG. 31; B.C.R.
841+00
842+00
843+00
844+00
845+00
6' C.L.F.
DUMPSTER PAD
ASPH. DRIVE
PAVER DRIVE
WOOD FENCE
6' WOOD FENCE
6' CONC. SIDEWALK
6' TEMP. C.L.F.
EX 12" DIP WM
EX 10" VCP SAN
EX GAS
EX BT
EX 8" DIP WM
EX 36" DIP WM
EX 6" DIP WM
EX 2" GAS
EX 10" VCP SAN
EX 8" VCP SAN
EX 30" WM
EX 16" WM
EX 20" WM
EX 24" WM
EX 12" WM
EX 6" WM
EX 8" WM
EX 4" WM
EX 2" WM
EX 1" WM
EX 3" WM
EX 10" WM
EX 14" WM
EX 18" WM
EX 36" WM
EX 42" WM
EX 48" WM
EX 54" WM
EX 60" WM
EX 72" WM
EX 96" WM
EX 84" WM
EX 66" WM
EX 78" WM
EX 90" WM
EX 102" WM
EX 108" WM
EX 114" WM
EX 120" WM
EX 126" WM
EX 132" WM
EX 138" WM
EX 144" WM
EX 150" WM
EX 156" WM
EX 162" WM
EX 168" WM
EX 174" WM
EX



PLAN

1"=20'-0"



NE 16TH AVE

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

Hazen

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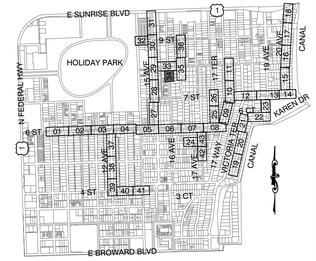

KEY MAP

0 20' 40'

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ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-34	65
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

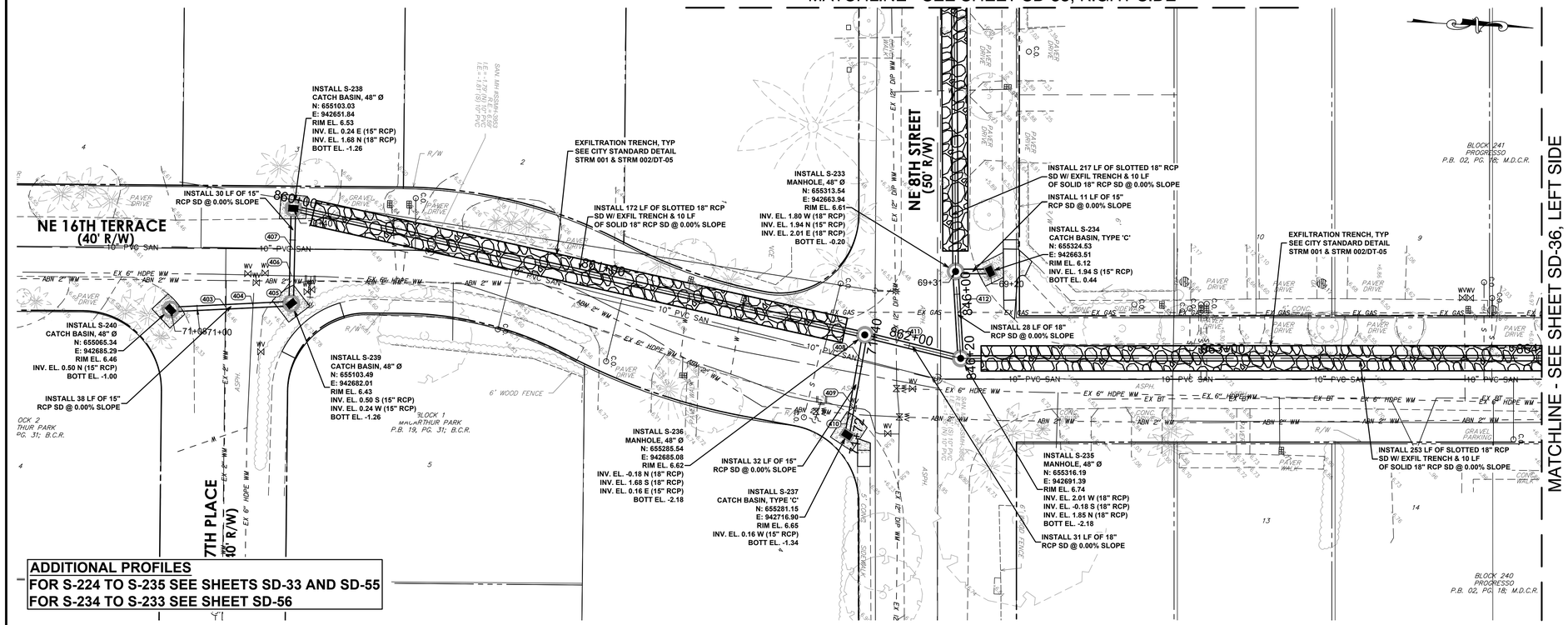
DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

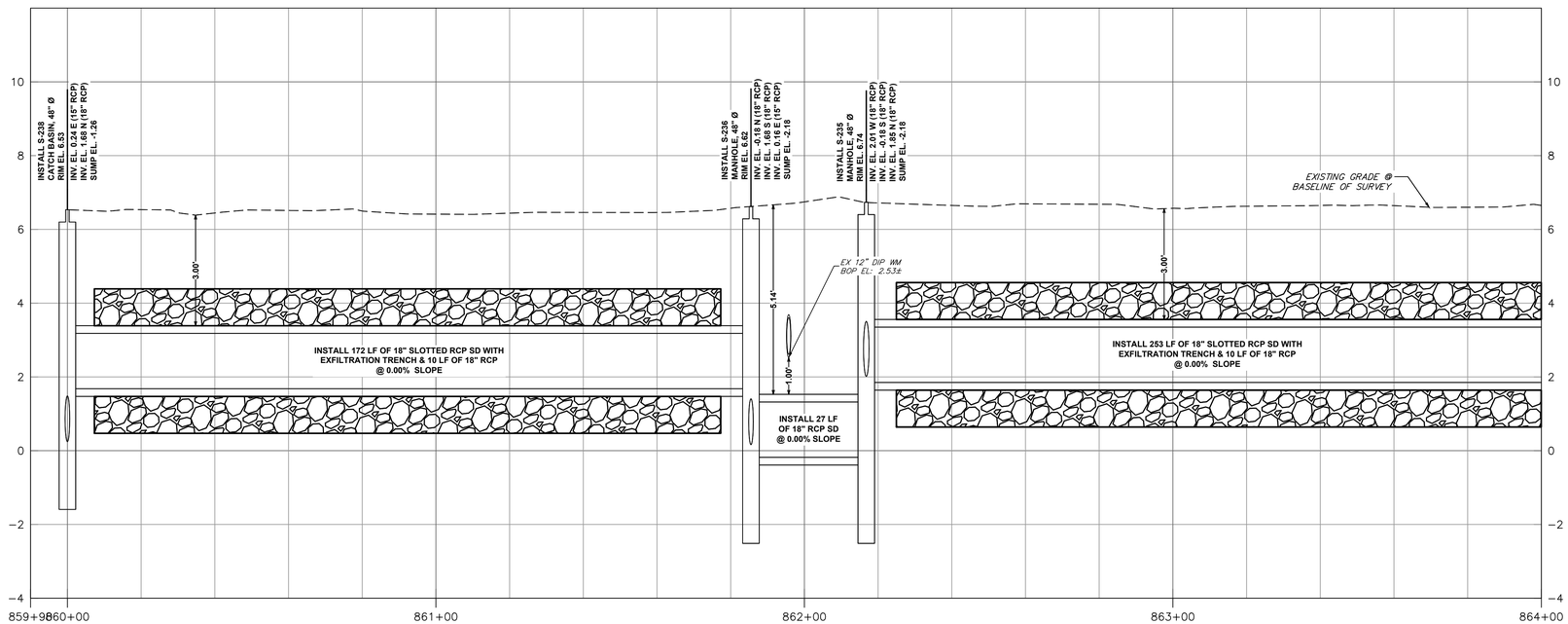
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

TEL: 954.730.0707
FAX: 954.730.2030



PLAN

1"=20'-0"



NE 16TH TERR

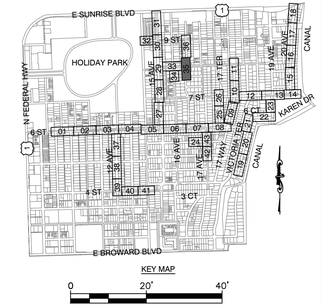
VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

0 20' 40'

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
BRD. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-35	66
TOTAL:	233

CAD FILE: 12082-MULTI-PROP

DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET SD-35, RIGHT SIDE

INSTALL 253 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

INSTALL S-241 MANHOLE, 48" Ø N: 655583.35 E: 942681.26 RIM EL. 6.60 INV. EL. 1.85 S (18" RCP) INV. EL. 1.79 N (18" RCP) INV. EL. 2.05 W (15" RCP) INV. EL. 1.84 E (15" RCP) BOTT EL. -0.21

INSTALL S-243 CATCH BASIN, TYPE 'C' N: 655583.13 E: 942672.93 RIM EL. 6.55 INV. EL. 2.05 E (15" RCP) BOTT EL. 0.55

INSTALL 8 LF OF 15" RCP SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05

INSTALL 280 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05

INSTALL S-245 CATCH BASIN, TYPE 'C' N: 655876.51 E: 942664.61 RIM EL. 6.53 INV. EL. 1.90 E (15" RCP) BOTT EL. 0.40

INSTALL 8 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-244 MANHOLE, 48" Ø N: 655876.78 E: 942672.68 RIM EL. 6.57 INV. EL. 1.79 S (18" RCP) INV. EL. 1.90 W (15" RCP) INV. EL. -1.81 E (15" RCP) INV. EL. -0.43 N (18" RCP) BOTT EL. -3.81

INSTALL S-248 CATCH BASIN, 48" Ø N: 655917.42 E: 942646.19 RIM EL. 6.33 INV. EL. 1.98 E (15" RCP) BOTT EL. 0.48

INSTALL 25 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL 24 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-242 CATCH BASIN, 48" Ø N: 655590.04 E: 942704.16 RIM EL. 6.89 INV. EL. 1.84 W (15" RCP) BOTT EL. 0.34

INSTALL 19 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-246 CATCH BASIN, TYPE 'C' N: 655877.43 E: 942691.40 RIM EL. 6.28 INV. EL. -1.81 W (15" RCP) BOTT EL. -3.31

INSTALL 26 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-247 MANHOLE, 48" Ø N: 655920.60 E: 942671.26 RIM EL. 6.51 INV. EL. 1.98 W (15" RCP) INV. EL. -0.43 S (18" RCP) INV. EL. 1.81 NE (15" RCP) BOTT EL. -1.93

INSTALL S-249 CATCH BASIN, 48" Ø N: 655940.50 E: 942687.54 RIM EL. 6.19 INV. EL. 1.81 SW (15" RCP) BOTT EL. 0.31

NE 16TH TERRACE (40' R/W)

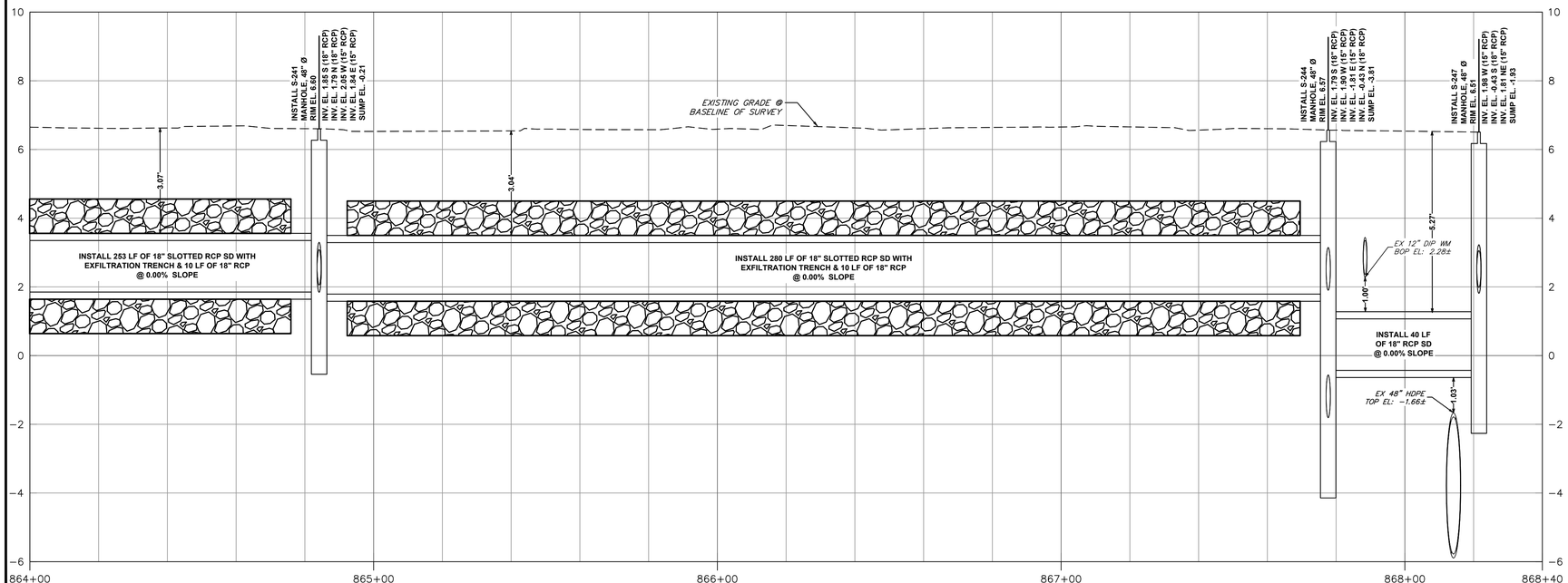
NE 9TH STREET (40' R/W)

BLOCK 241 PROGRESSO P.B. 02, PG. 18; M.D.C.R.

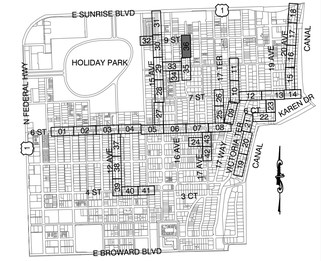
BLOCK 240 PROGRESSO P.B. 02, PG. 18; M.D.C.R.

ADDITIONAL PROFILES
FOR S-245 TO S-246 SEE SHEET SD-56
FOR S-248 TO S-249 SEE SHEET SD-56
FOR S-243 TO S-241 SEE SHEET SD-56

PLAN
1"=20'-0"



NE 16TH TERR
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



0 20' 40'

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www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO. SD-36 | SHT # 67
TOTAL: 233
CAD FILE: 12082-MULTI-PROP
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET SD-38, RIGHT SIDE

MATCHLINE - SEE SHEET SD-03, BOTTOM SIDE

NE 12TH AVENUE (50' R/W)

INSTALL 295 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05

INSTALL S-250 MANHOLE, 48" Ø
N: 653531.31
E: 941140.13
RIM EL. 5.84
INV. EL. 0.26 N (18" RCP)
INV. EL. 0.92 S (18" RCP)
INV. EL. 0.72 E (15" RCP)
BOTT EL. -1.74

INSTALL 20 LF OF 15" RCP SD @ 0.00% SLOPE

INSTALL S-251 CATCH BASIN, TYPE 'C'
N: 653525.43
E: 941158.74
RIM EL. 5.93
INV. EL. 0.72 W (15" RCP)
BOTT EL. -0.78

INSTALL 347 LF OF SLOTTED 18" RCP SD W/ EXFIL TRENCH & 10 LF OF SOLID 18" RCP SD @ 0.00% SLOPE

EXFILTRATION TRENCH, TYP SEE CITY STANDARD DETAIL STRM 001 & STRM 002/DT-05

INSTALL 347 LF OF SLO SD W/ EXFIL TI OF SOLID 18" RCP SD @

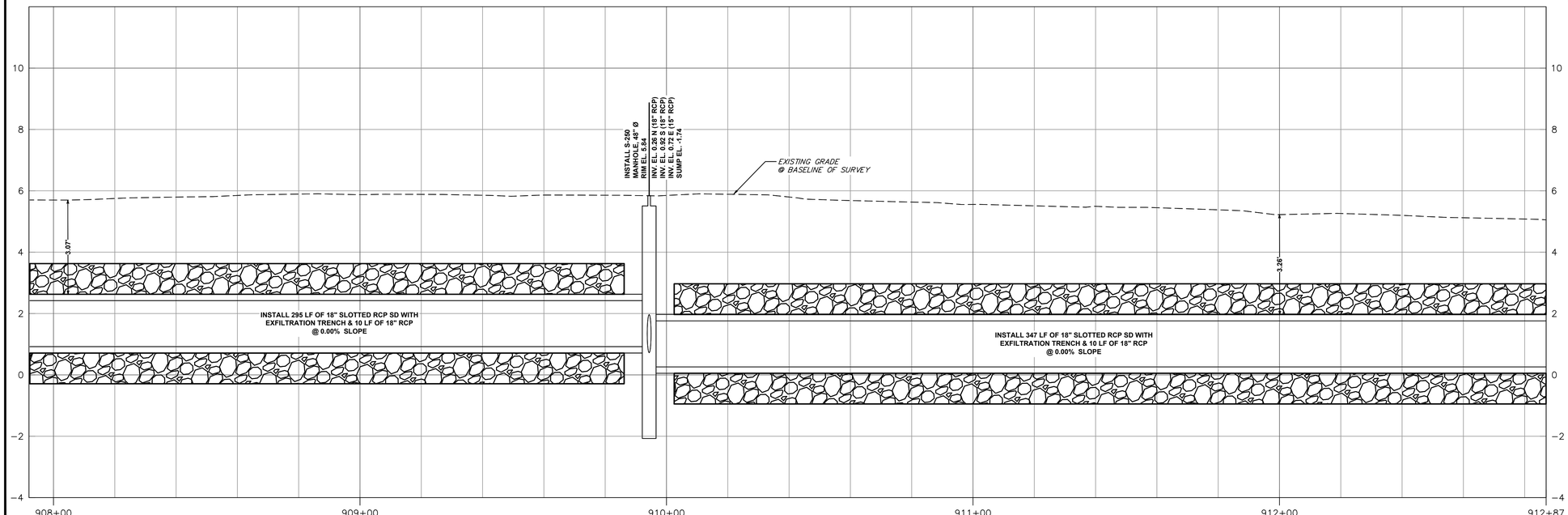
BLOCK 3 HALLS ADDITION P.B. 01, PG. 134; M.D.C.R.

BLOCK 2 HALLS ADDITION P.B. 01, PG. 134; M.D.C.R.

WALLER RESUB OF HALLS ADD P.B. 16, PG. 53; B.C.R.

ADDITIONAL PROFILES FOR S-250 TO S-251 SEE SHEET SD-56

PLAN
1"=20'-0"



NE 12TH AVE
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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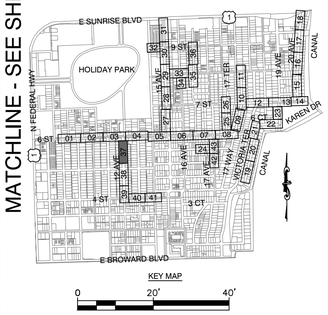

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: SCALE: AS SHOWN
DECF
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

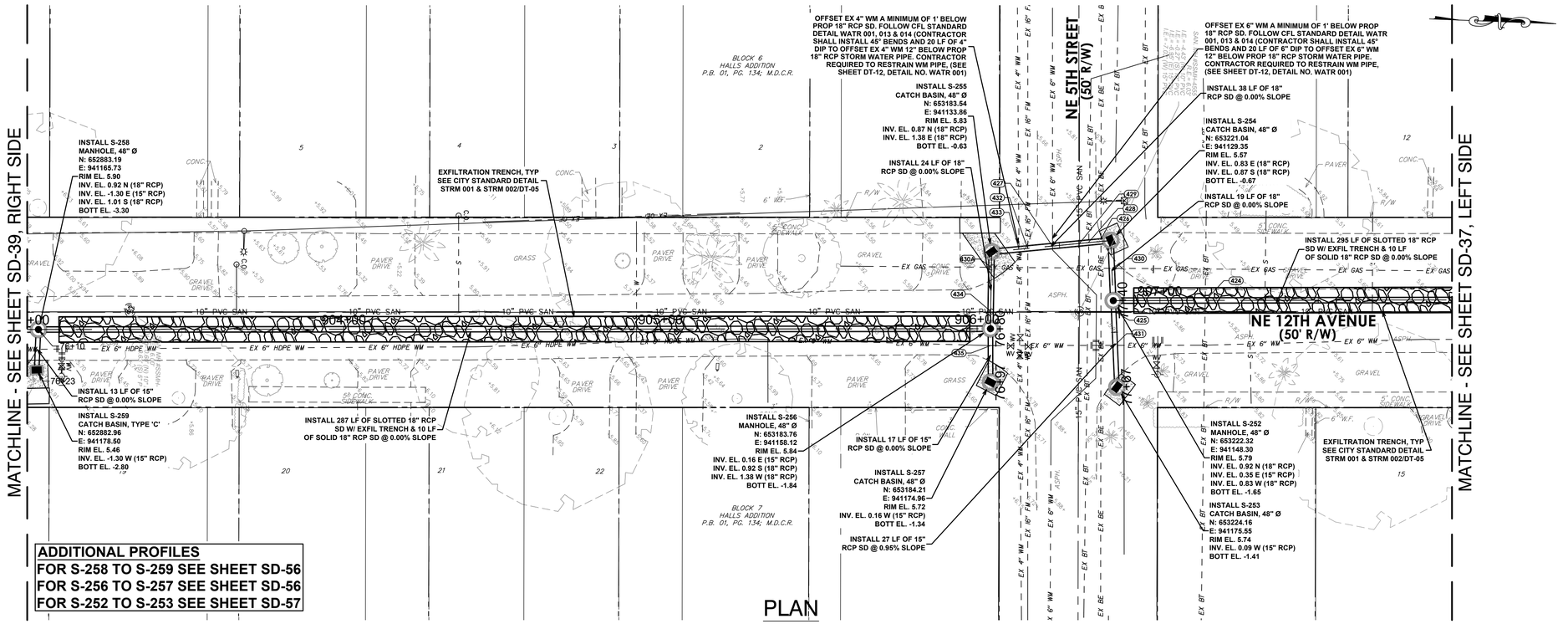
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

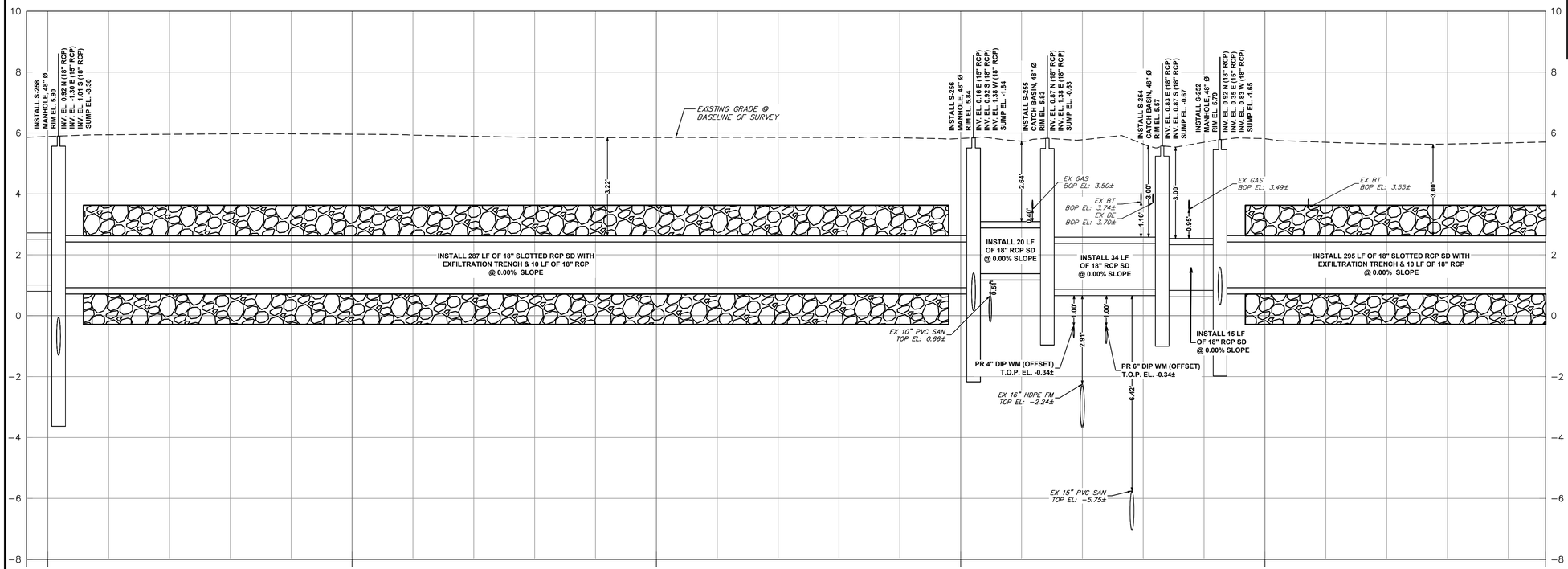
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-37	68
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



PLAN

1"=20'-0"



NE 12TH AVE

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

ISSUED FOR BID

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HOLLYWOOD, FLORIDA 33021

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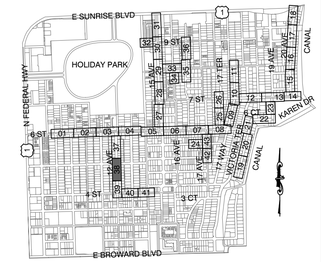
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301



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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

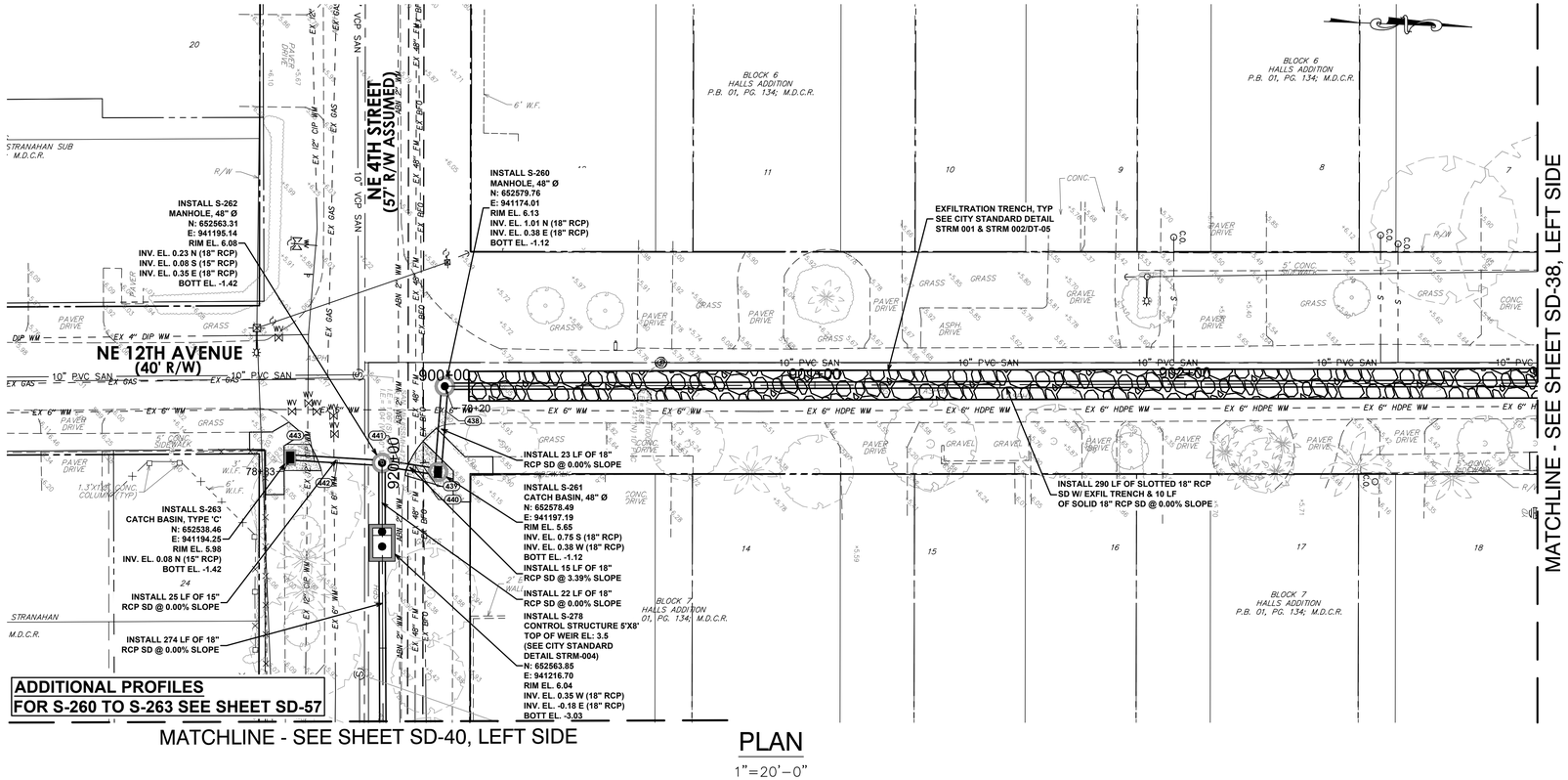
SHEET NO. SD-38 | SHT # 69

TOTAL: 233

CAD FILE: 12082-MULTI-PROP

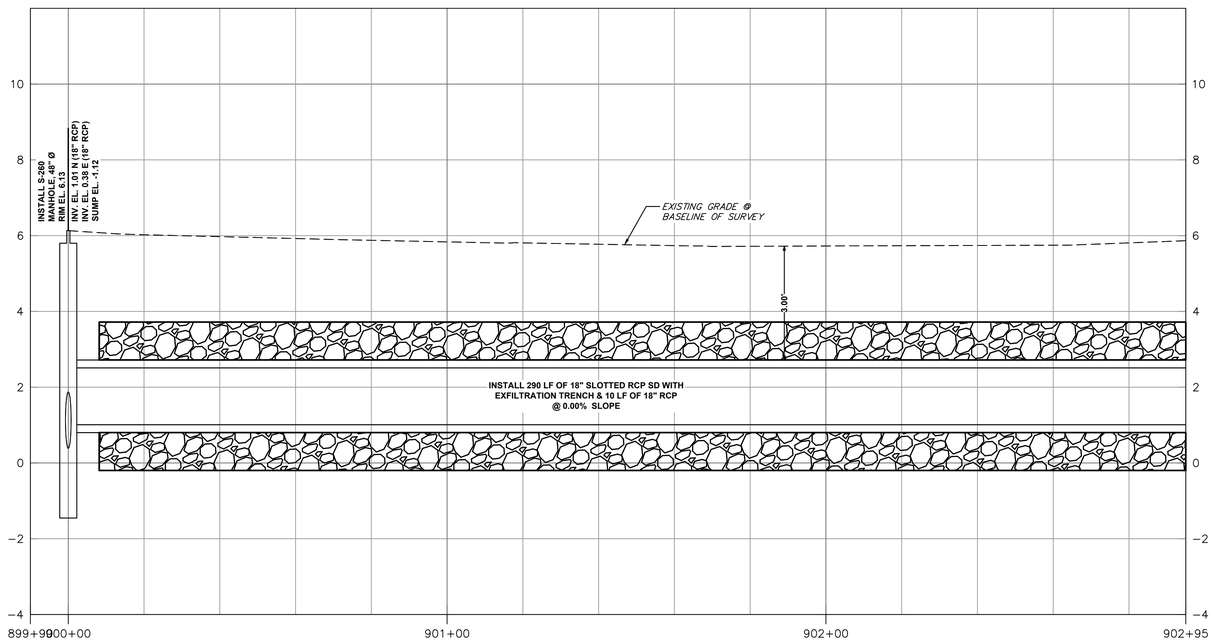
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1796 of 2050



PLAN

1"=20'–0"



NE 12TH AVE

VERTICAL 1"=2'–0"

HORIZONTAL 1"=20'–0"

Hazen

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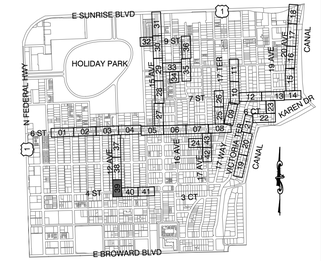

KEY MAP

0 20' 40'

Sunshine811

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

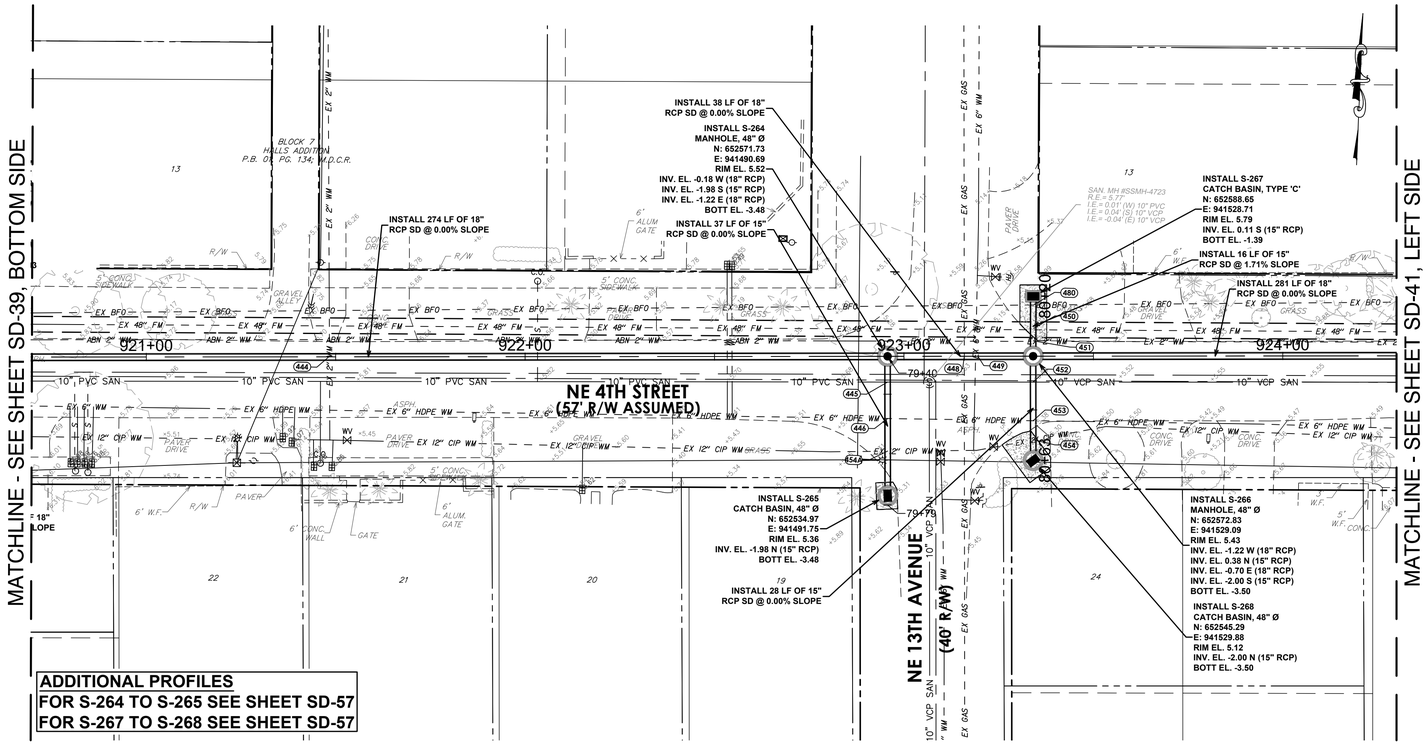
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-39	70

TOTAL: 233

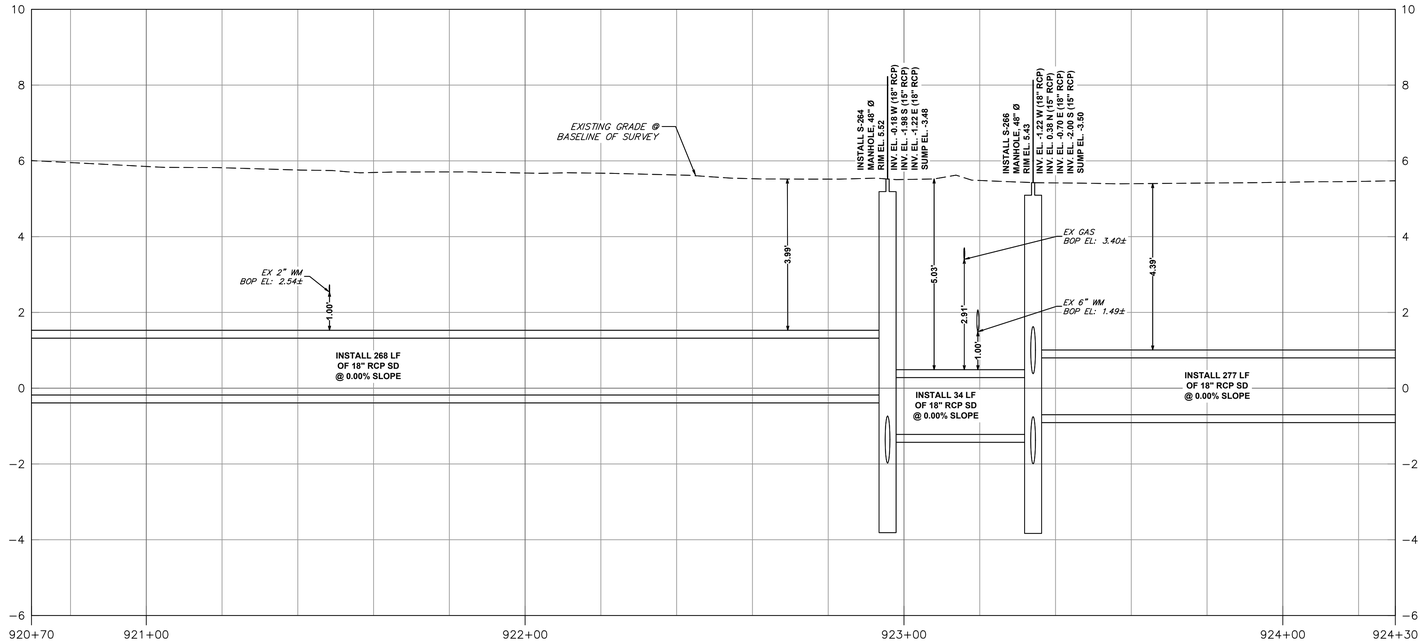
CAD FILE: 12082–MULTI–PROP

DRAWING FILE NO. 4–144–88



PLAN

1"=20'-0"



NE 4TH ST

VERTICAL 1"=2'-0"

HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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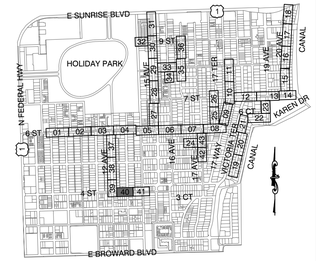

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:		
JJM		

FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

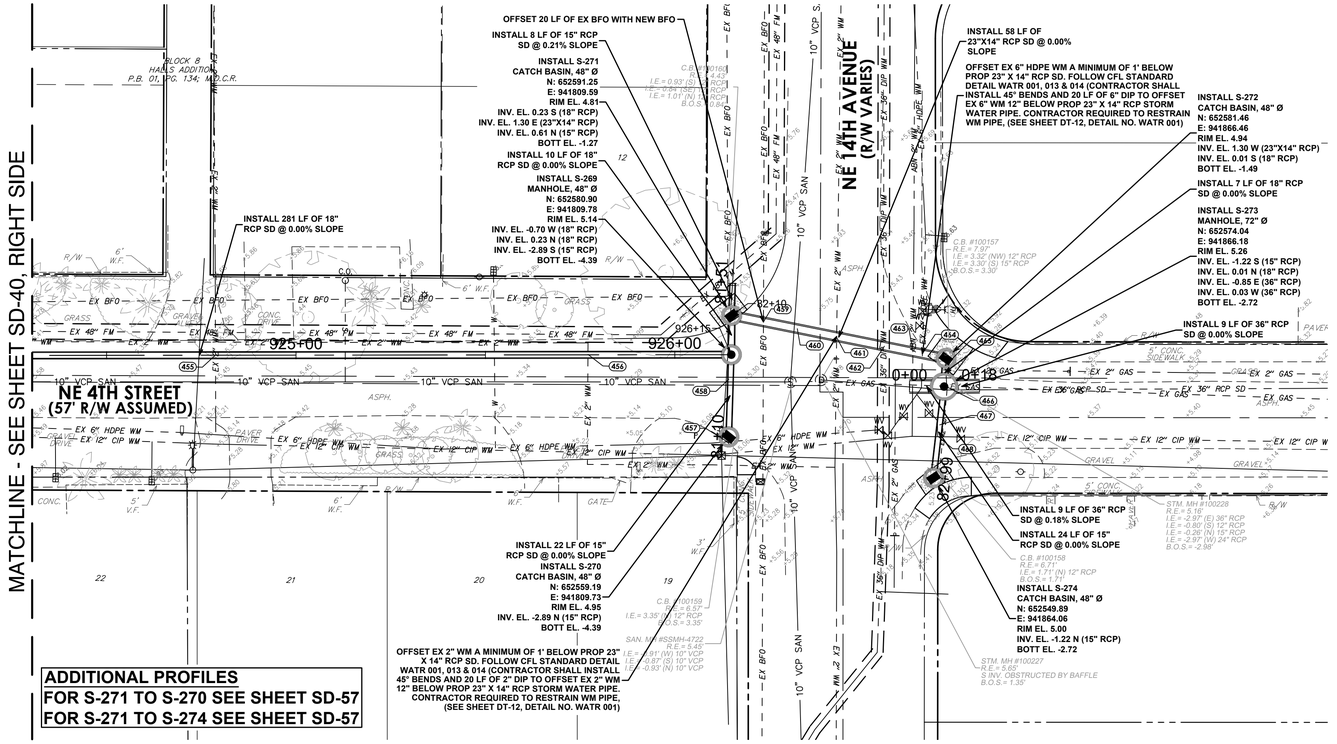
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

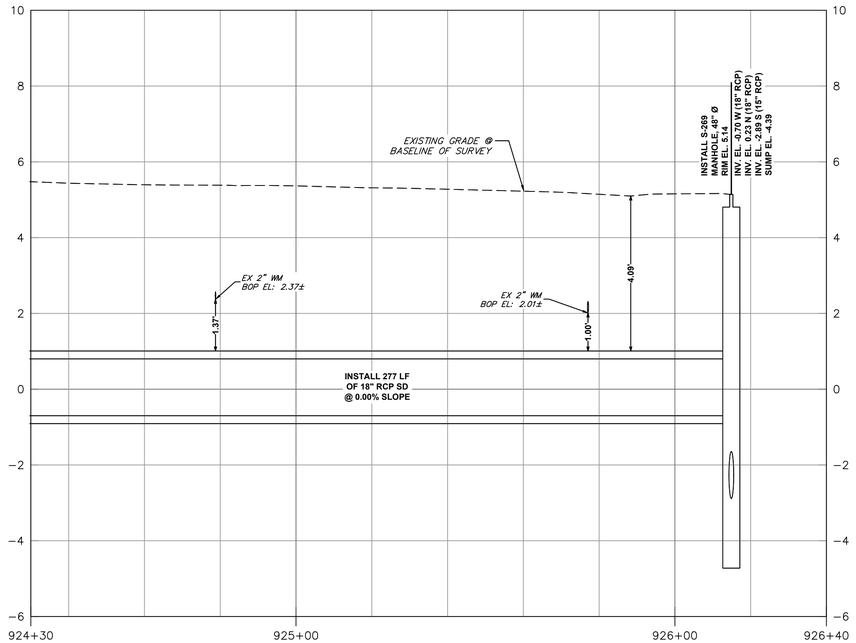
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-40	71
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



PLAN
1"=20'-0"



NE 4TH ST
VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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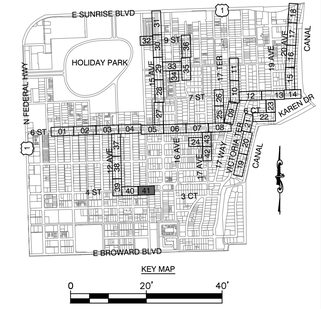

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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
LICENSE No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK: ---

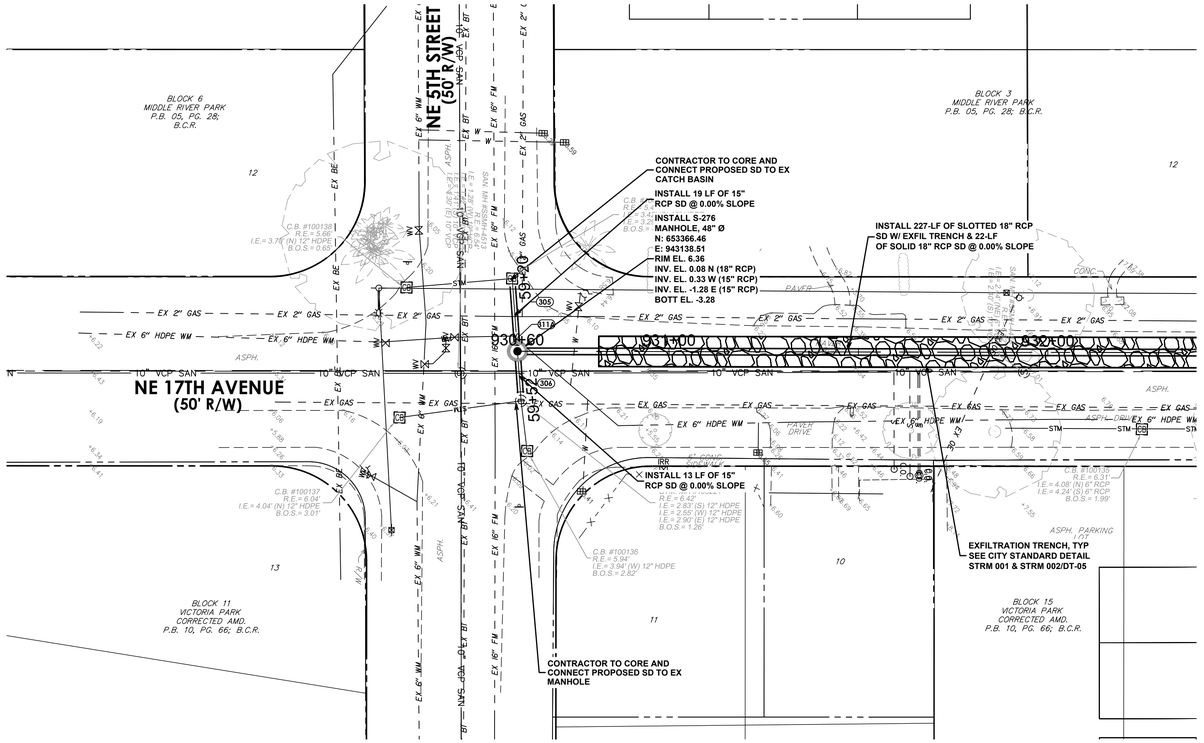
CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

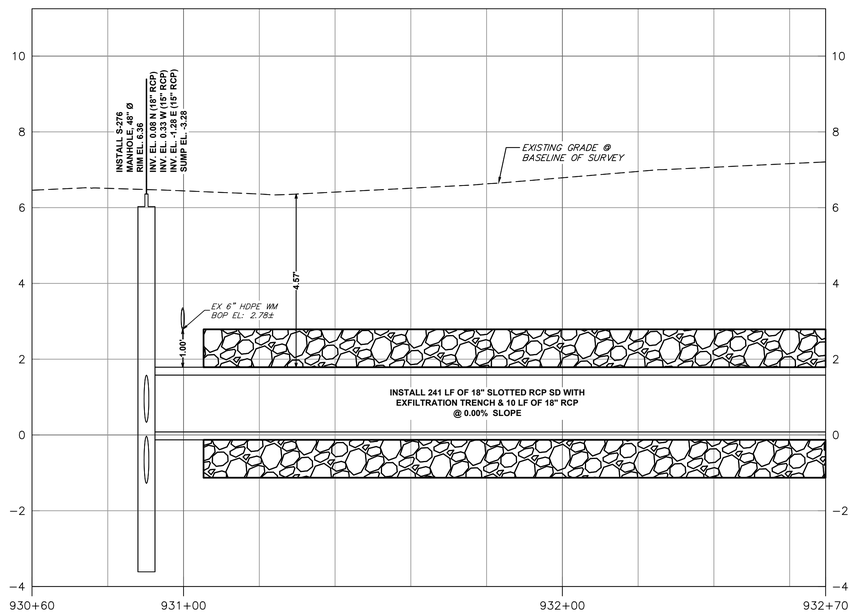
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-41	72
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



PLAN

1"=20'–0"



NE 17TH AVE

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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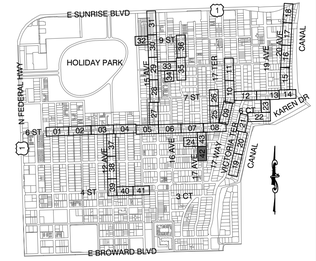

KEY MAP

0 20' 40'

Sunshine811

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DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

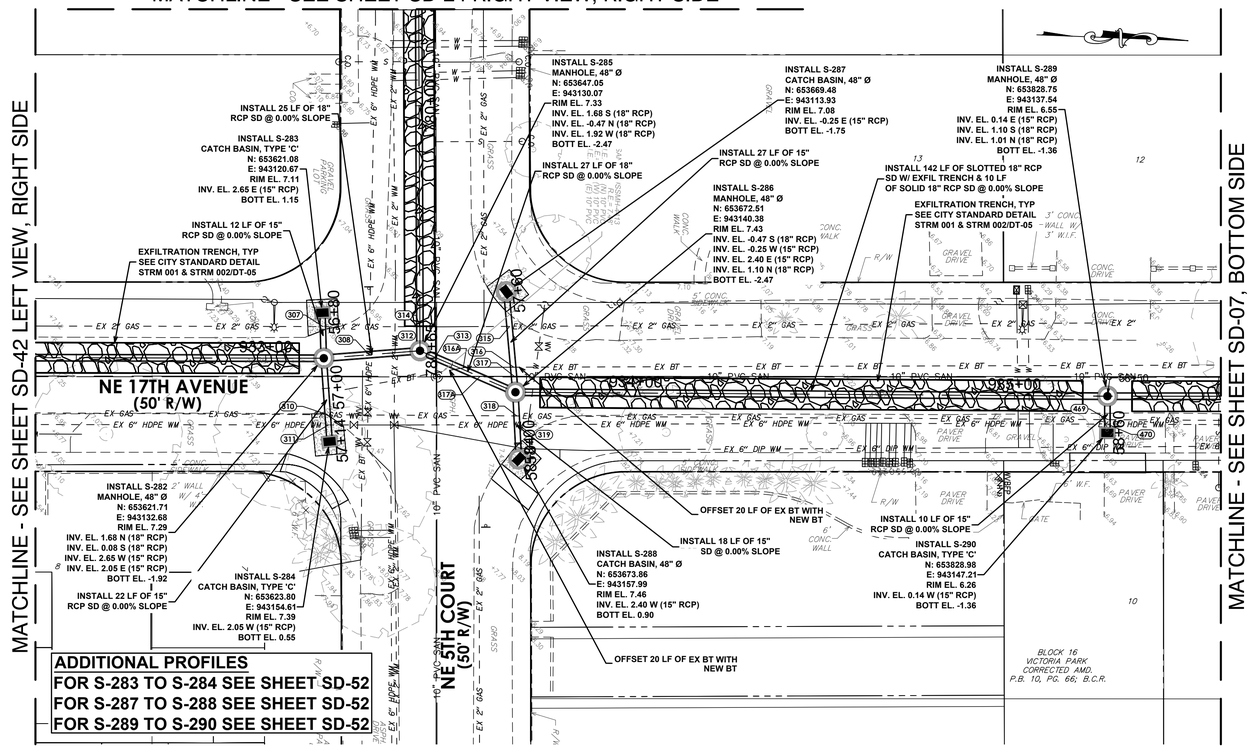
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-42	73
TOTAL:	233

CAD FILE:
12082–MULTI–PROP

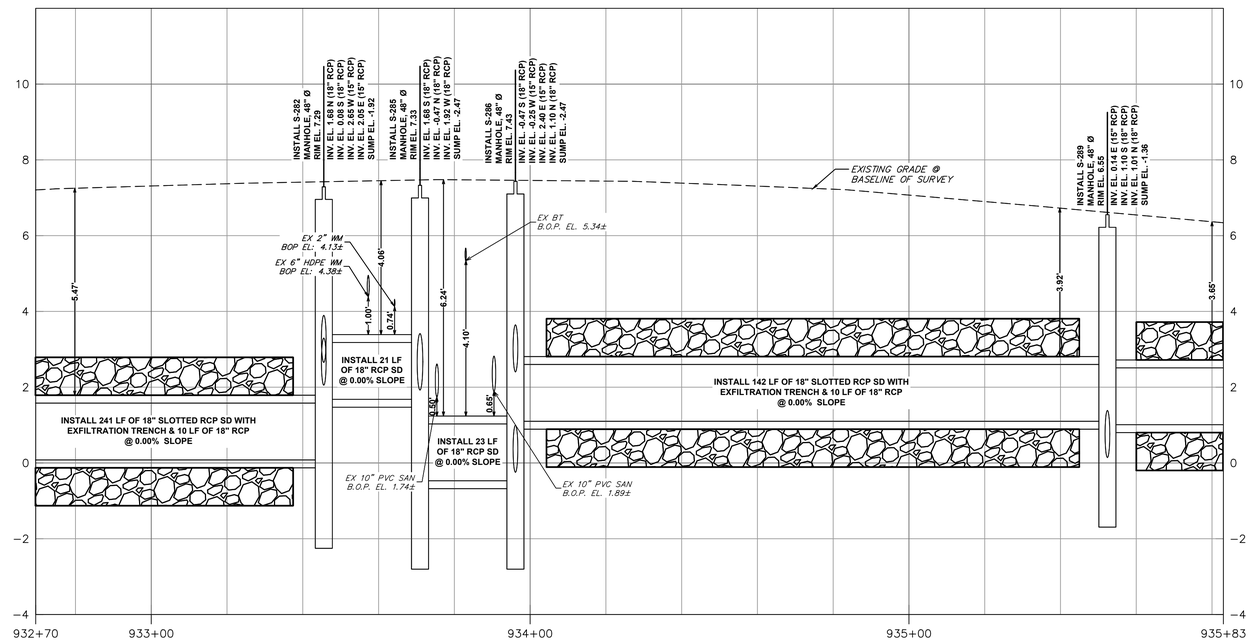
DRAWING FILE NO.
4–144–88

MATCHLINE - SEE SHEET SD-24 RIGHT VIEW, RIGHT SIDE



PLAN

1"=20'-0"



NE 17TH AVE

VERTICAL 1"=2'-0"

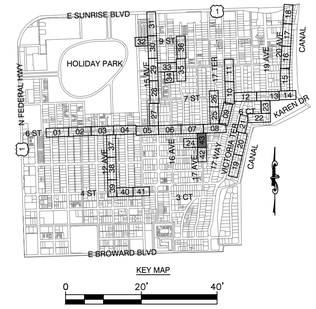
HORIZONTAL 1"=20'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



Sunshine811

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Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

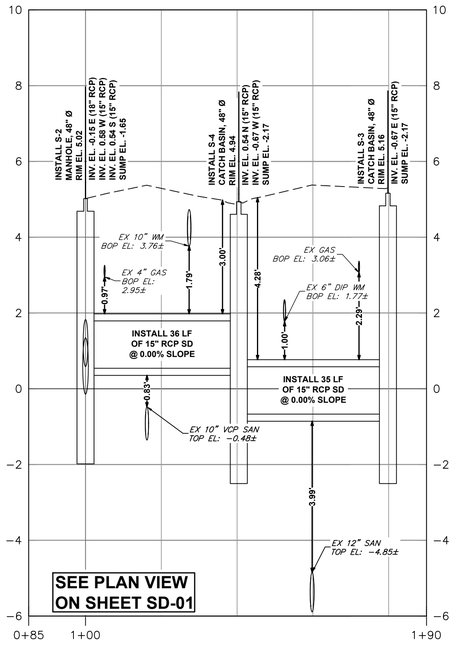
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

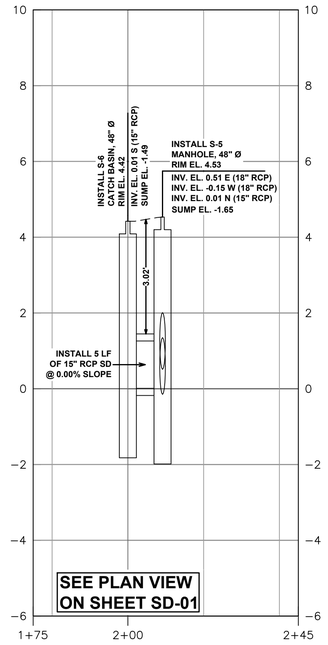
STORM DRAINAGE PLAN AND PROFILE

SHEET NO.	SHT #
SD-43	74
TOTAL:	233
CAD FILE: 12082-MULTI-PROP	
DRAWING FILE NO. 4-144-88	



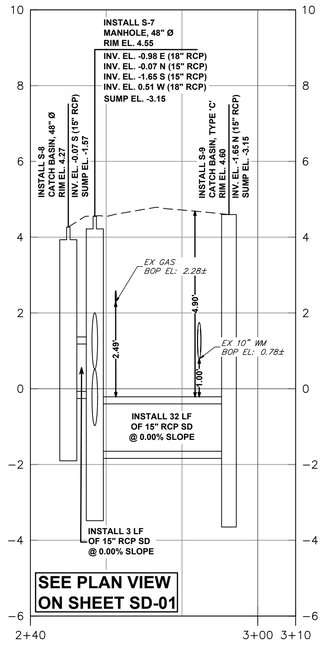
NE 6TH ST (S-2 to S-3)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



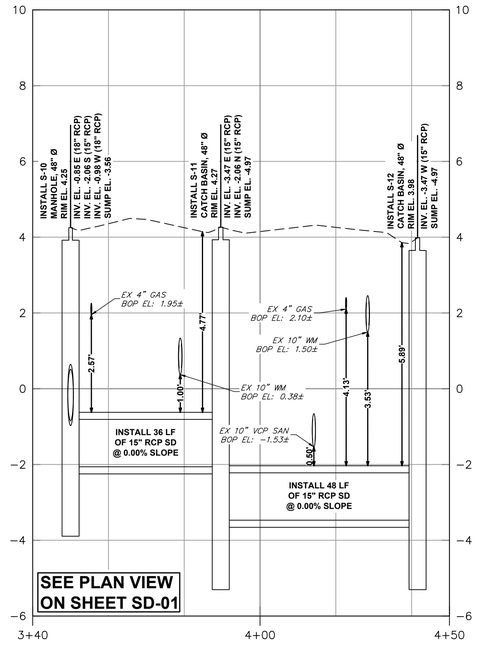
NE 6TH ST (S-5 to S-6)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



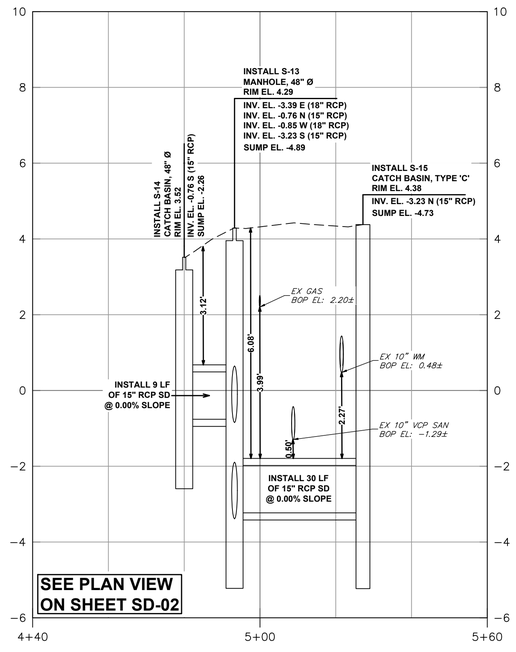
NE 6TH ST (S-8 to S-9)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



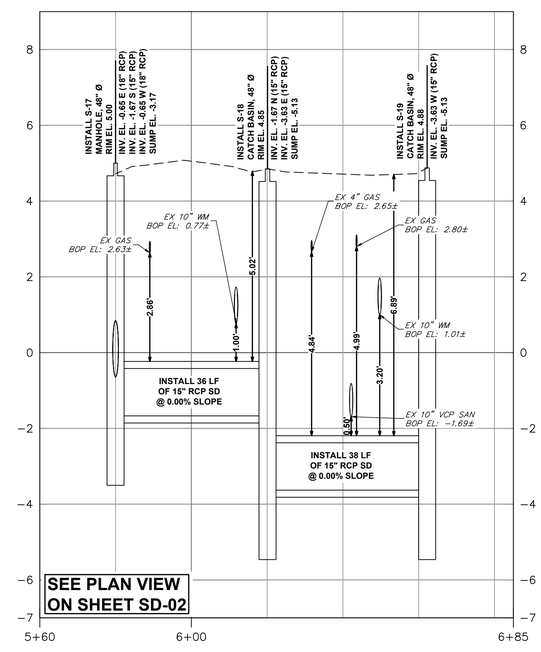
NE 6TH ST (S-10 to S-12)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



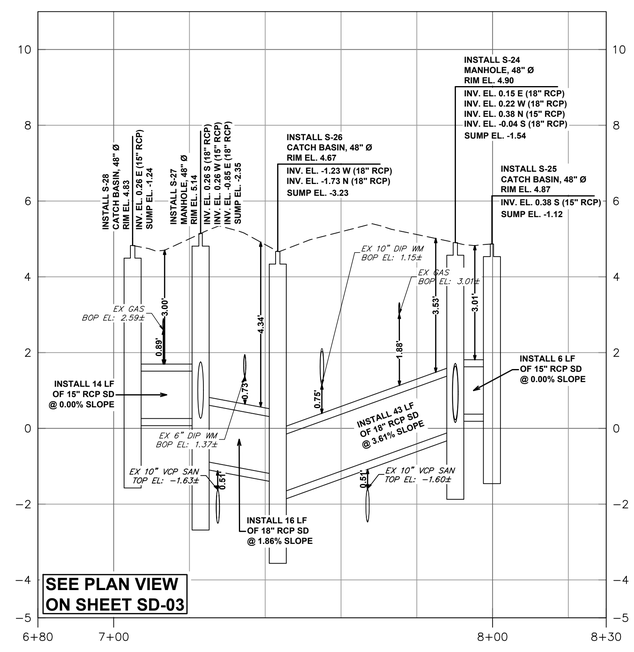
NE 6TH ST (S-14 to S-15)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 6TH ST (S-17 to S-19)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 6TH ST (S-28 to S-25)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
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www.chenmoore.com

0 20' 40'

Sunshine811
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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

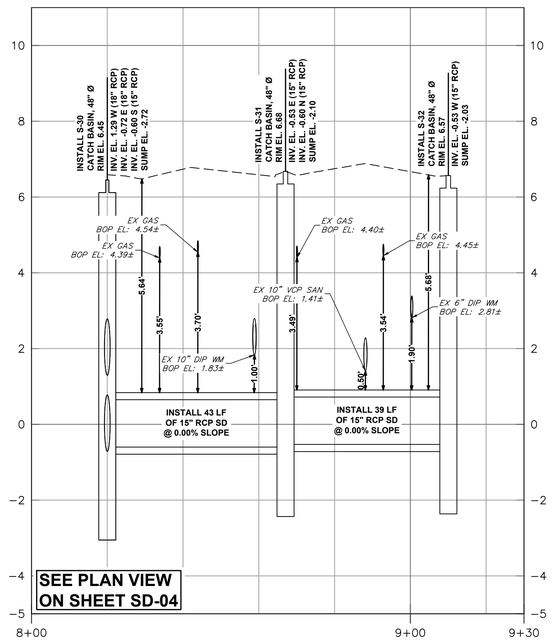
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

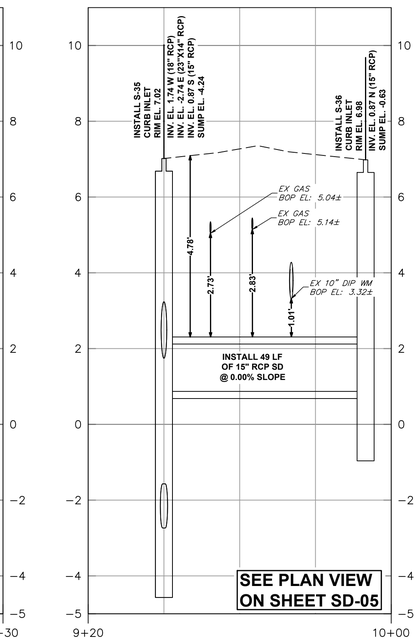
SHEET NO.	SHT #
SD-44	75
TOTAL:	233

CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88



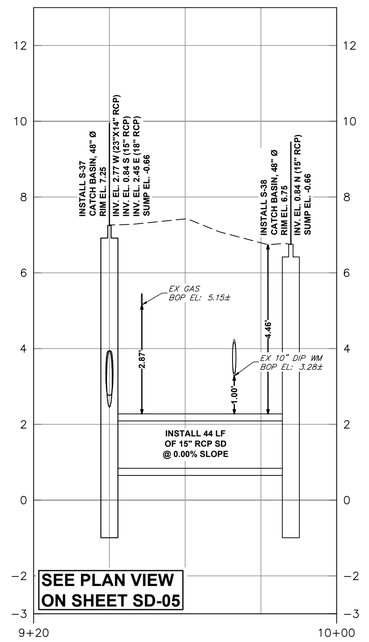
NE 6TH ST (S-30 to S-32)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



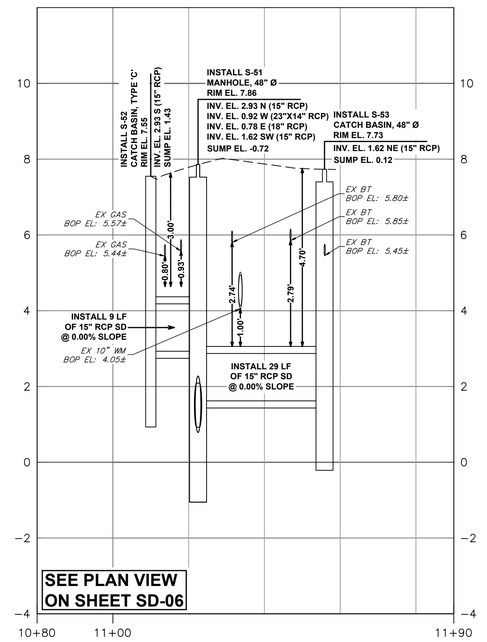
NE 6TH ST (S-35 to S-36)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



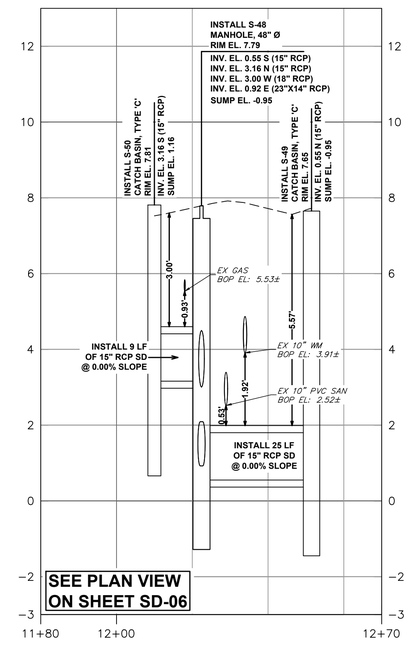
NE 6TH ST (S-37 to S-38)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



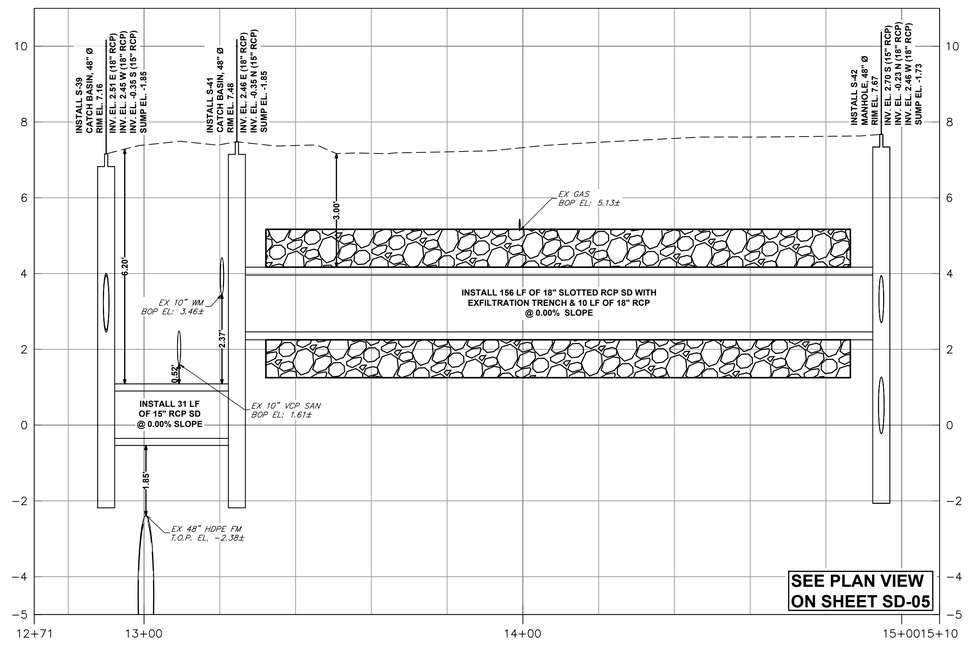
NE 6TH ST (S-52 to S-53)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



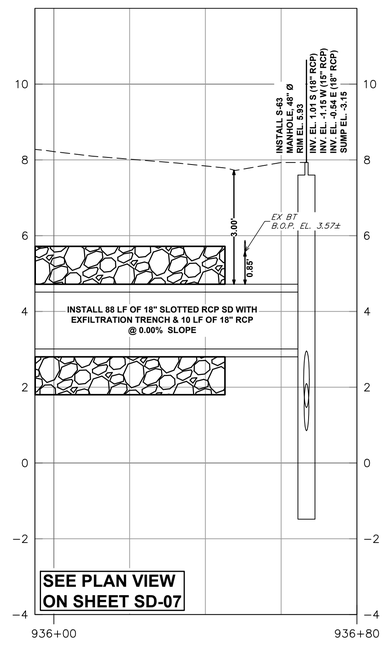
NE 6TH ST (S-50 to S-49)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 6TH ST (S-39 to S-42)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 17TH AVE

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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www.chenmoore.com

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

0 20' 40'

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

SHEET NO. SD-45
SHT # 76
TOTAL: 233
CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
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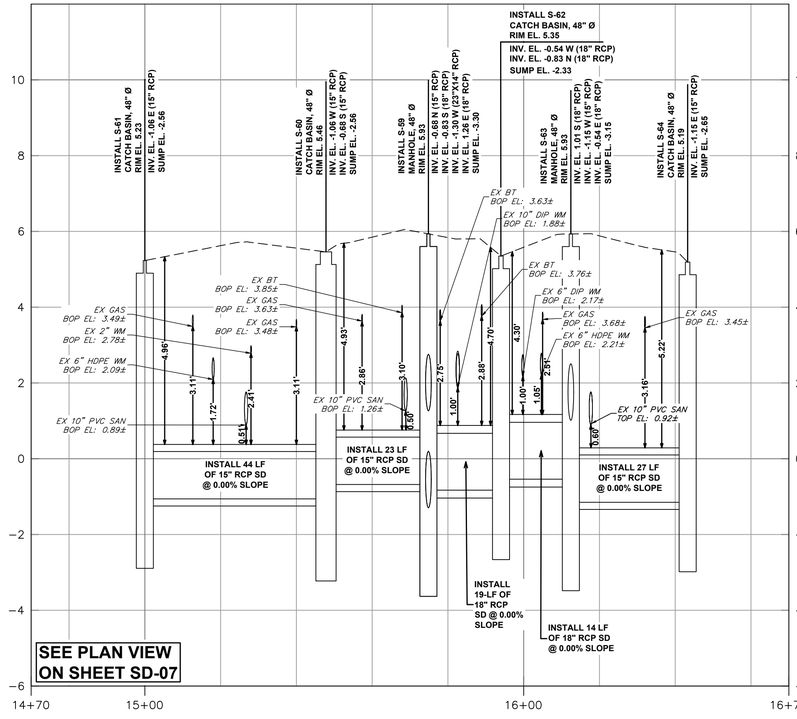
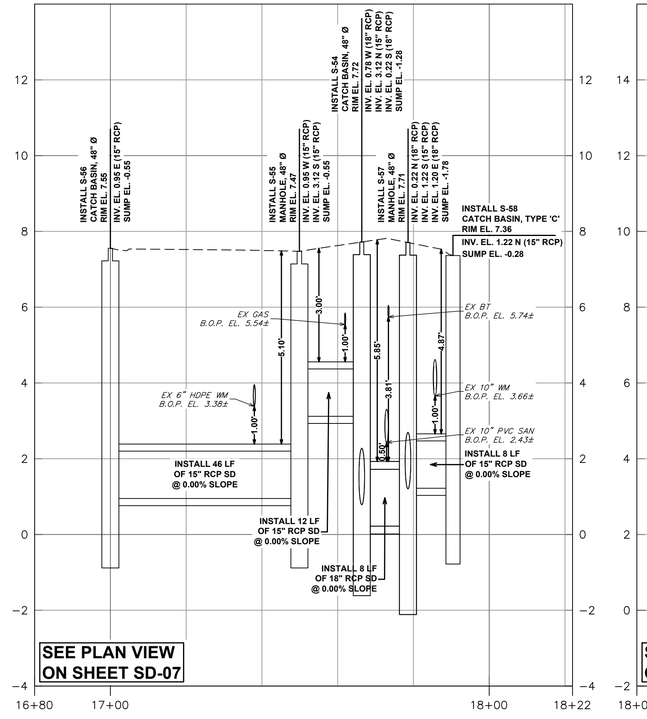


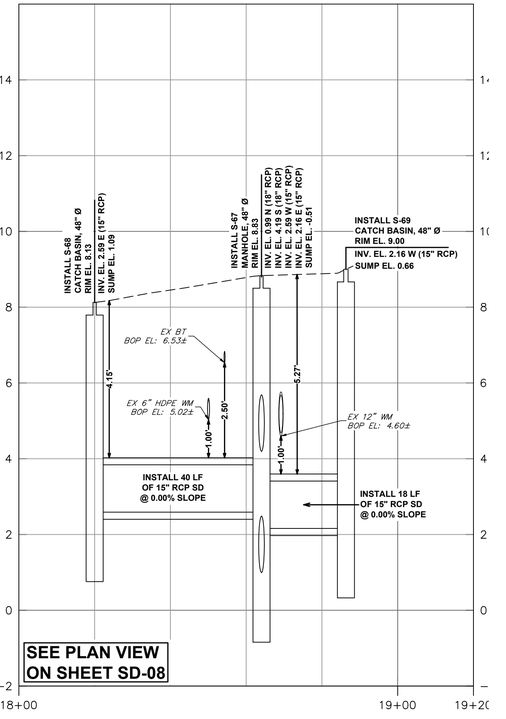
NE 6TH ST (S-61 to S-64)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 6TH ST (S-56 to S-58)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 6TH ST (S-68 to S-69)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
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www.chenmoore.com

0 20' 40'

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
LICENSE No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
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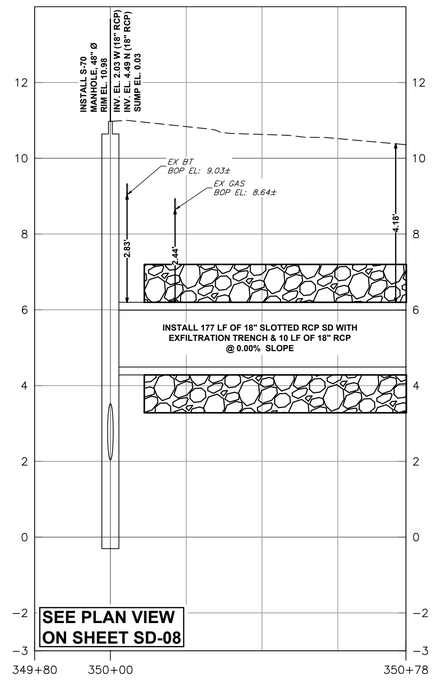
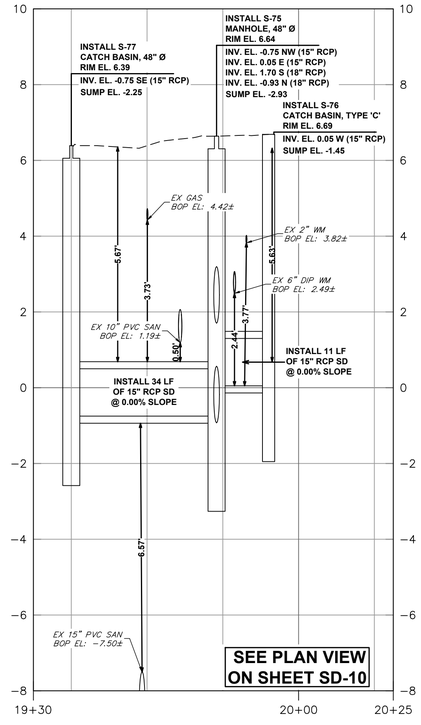


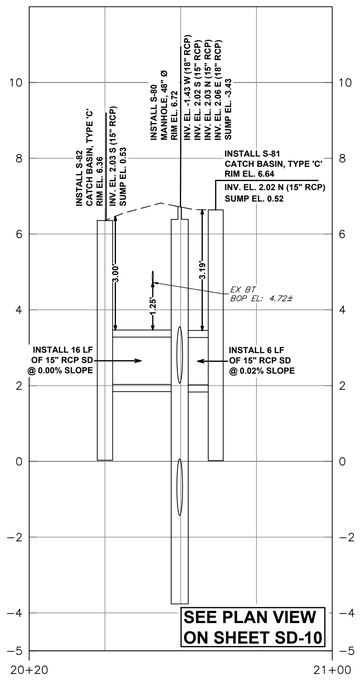
NE 17TH WAY

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



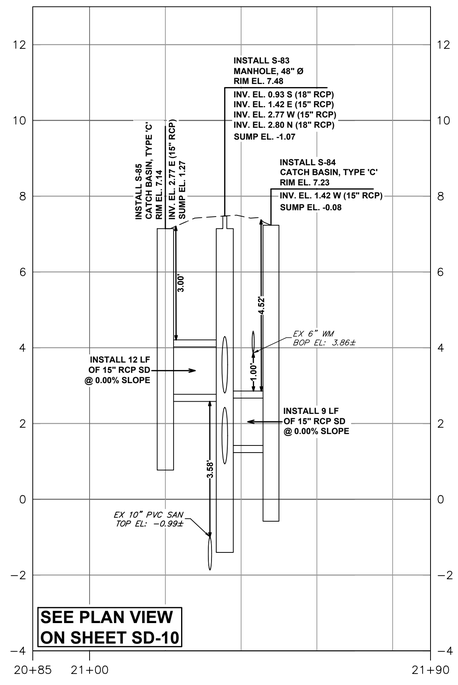
NE 17TH WAY (S-77 to S-76)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 7TH ST (S-82 to S-81)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 17TH WAY (S-85 to S-84)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

ISSUED FOR BID

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

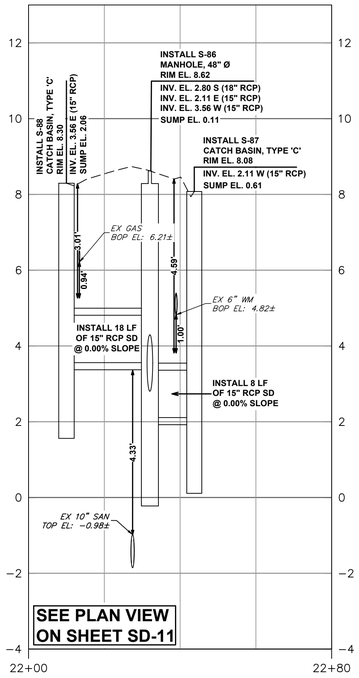
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

SHEET NO.	SHT #
SD-46	77
TOTAL:	233

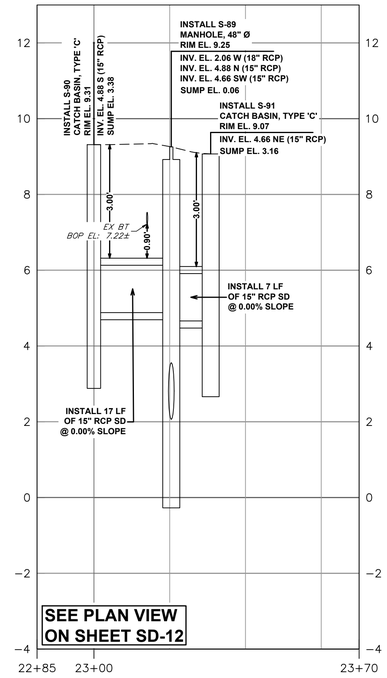
CAD FILE: 12082–MULTI–PROF
DRAWING FILE NO. 4–144–88

CAM #25-0925
Exhibit 1F
Page 1804 of 2050



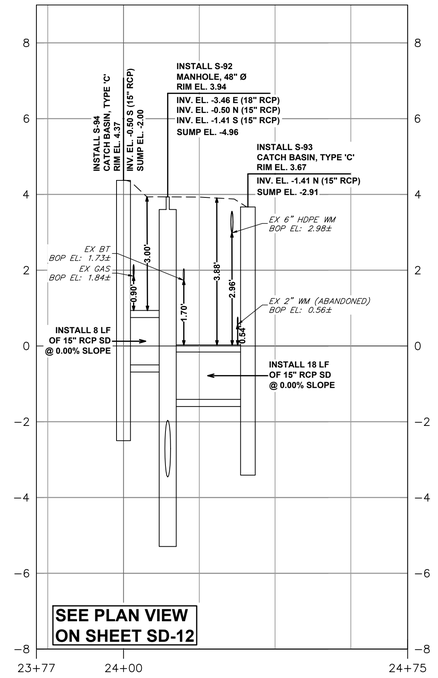
NE 17TH WAY (S-88 to S-87)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



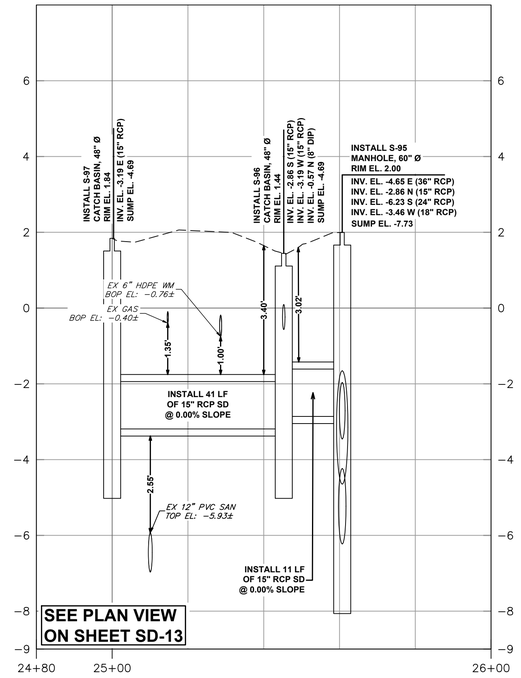
NE 7TH ST (S-90 to S-91)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



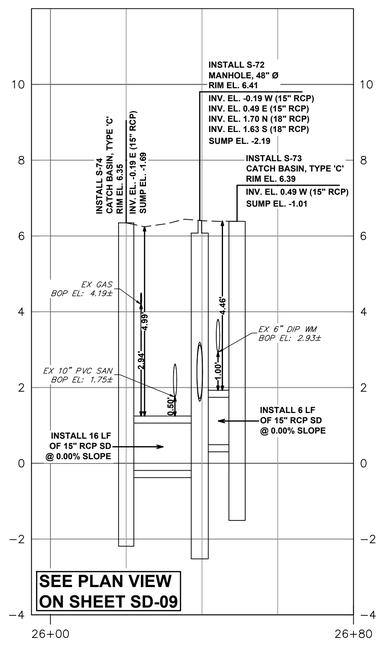
NE 7TH ST (S-94 to S-93)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



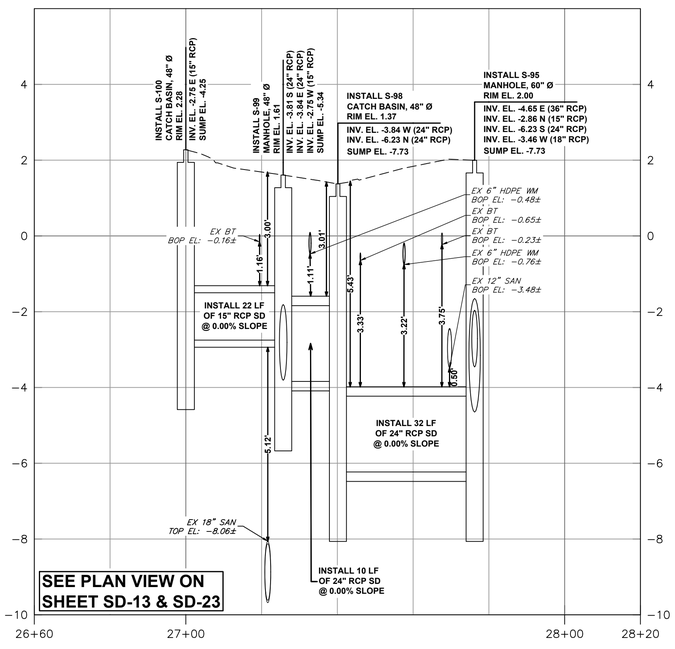
NE 7TH ST (S-97 to S-95)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



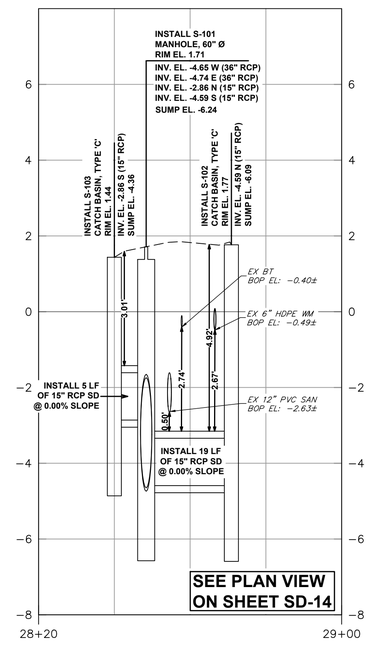
NE 17TH WAY (S-74 to S-73)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



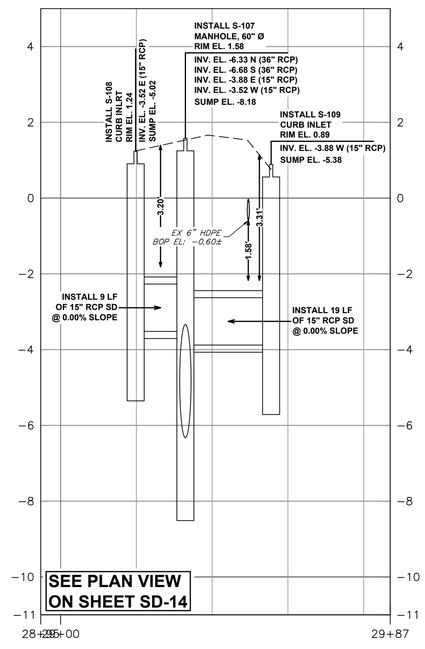
NE 7TH ST (S-95 to S-100)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 7TH ST (S-103 to S-102)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 20TH AVE (S-108 to S-109)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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0 20' 40'

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
DATE:
No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

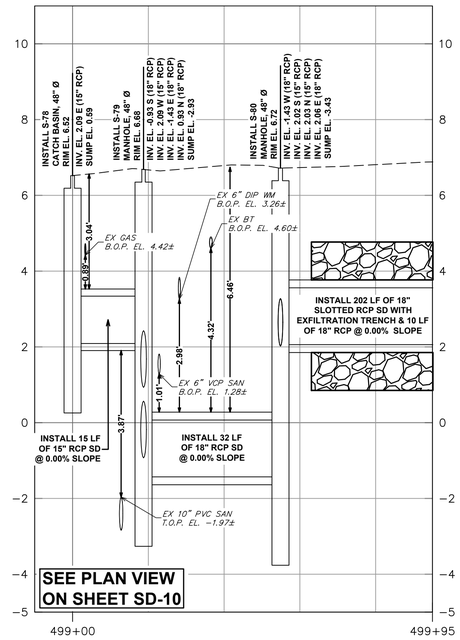
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

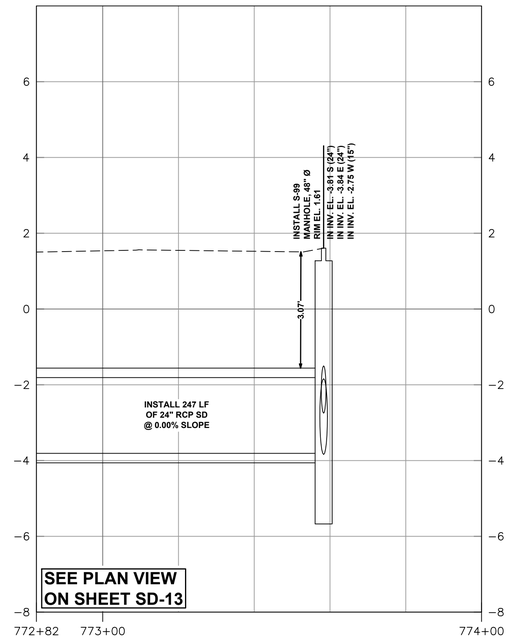
SHEET NO. SD-47
SHT # 78
TOTAL: 233
CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1805 of 2050



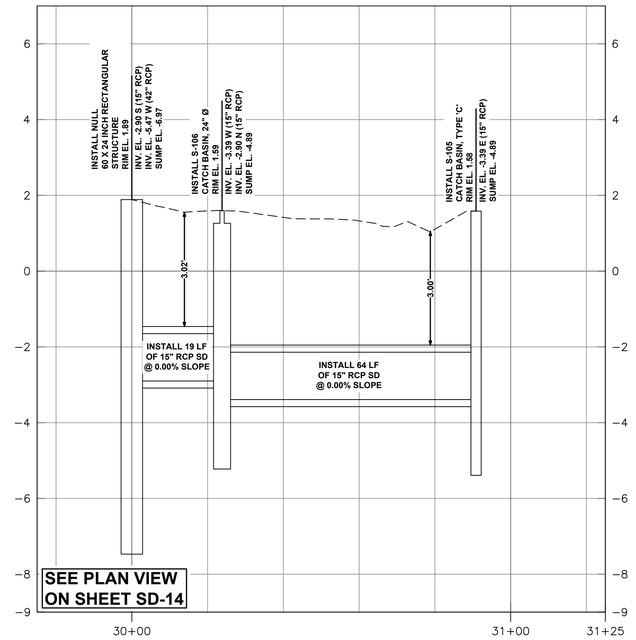
NE 7TH ST

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



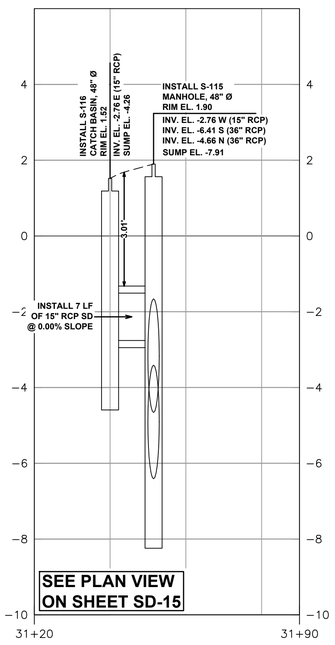
NE 19TH AVE

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



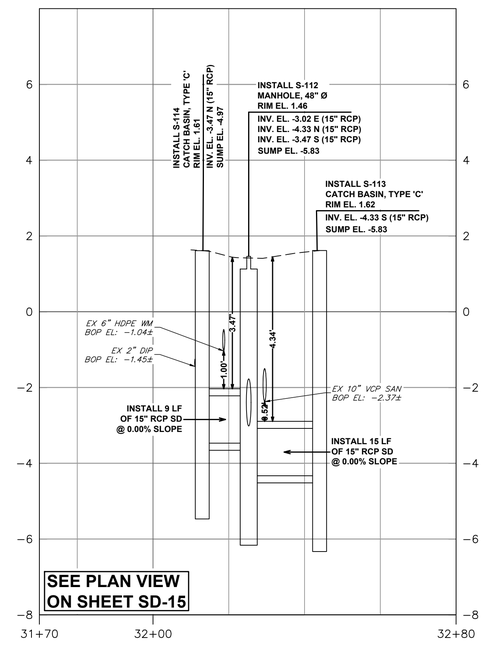
NE 7TH ST (LS to S-105)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



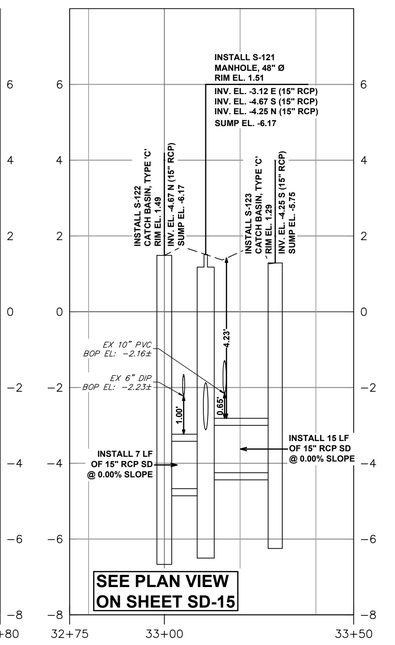
NE 20TH AVE (S-116 to S-115)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



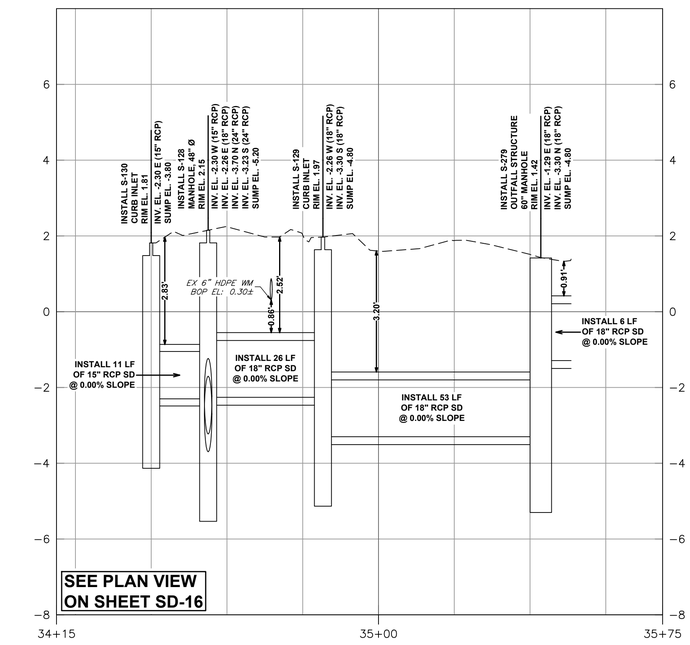
NE 20TH AVE (S-114 to S-113)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 20TH AVE (S-122 to S-123)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 20TH AVE (S-130 to S-279)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

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4000 HOLLYWOOD BLVD, SUITE 750N
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0 20' 40'

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

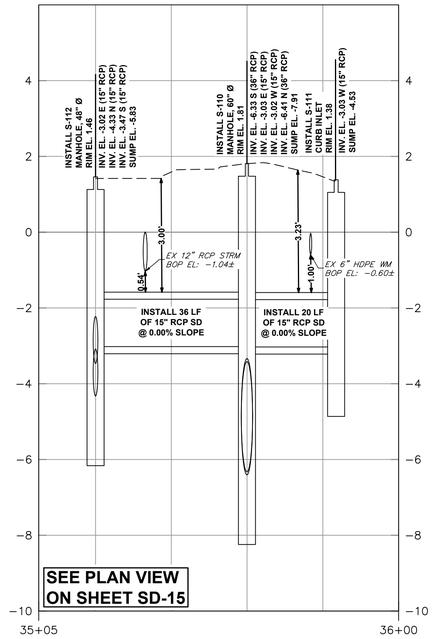
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

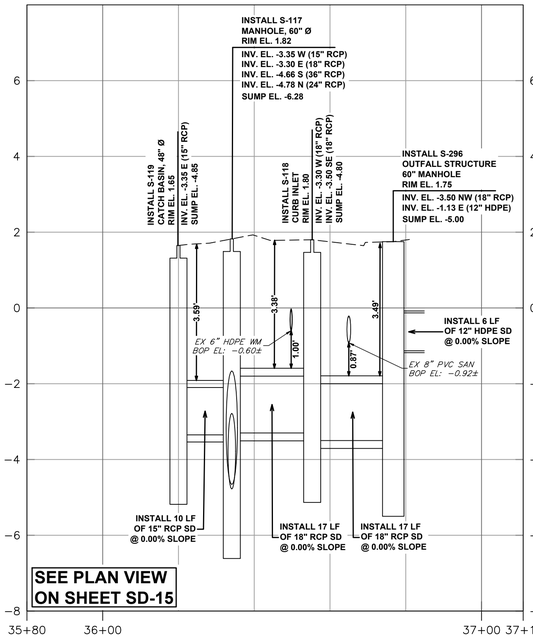
STORM DRAINAGE PROFILES

SHEET NO. SD-48
SHT # 79
TOTAL: 233
CAD FILE: 12082–MULTI–PROF
DRAWING FILE NO. 4–144–88



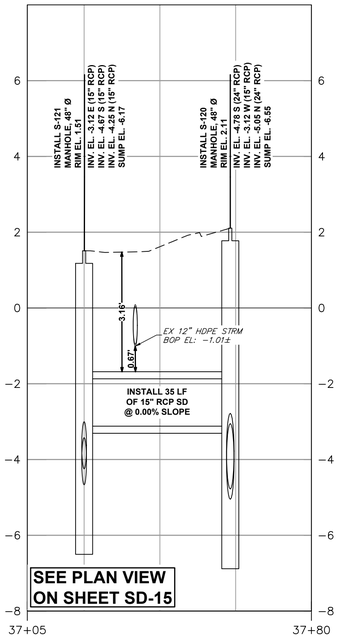
NE 20TH AVE (S-112 to S-111)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



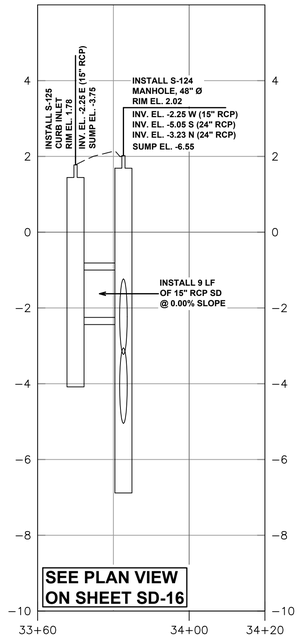
NE 20TH AVE (S-119 to S-296)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



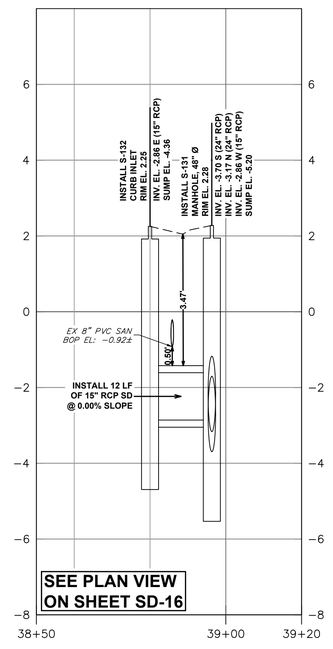
NE 20TH AVE (S-121 to S-120)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



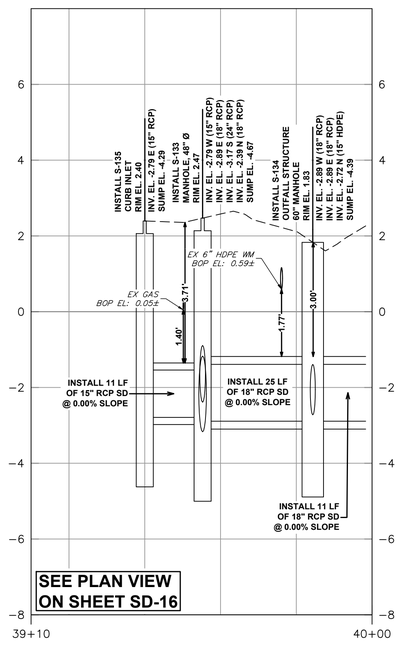
NE 20TH AVE (S-125 to S-124)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



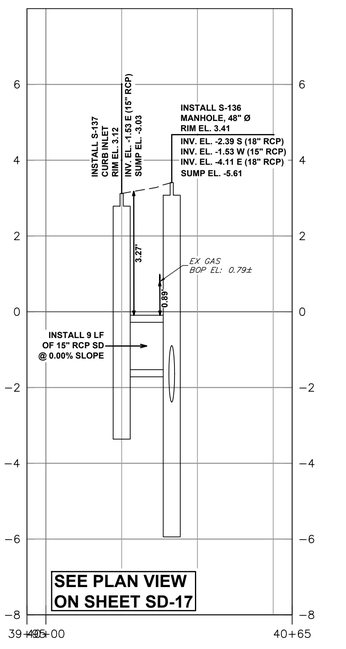
NE 20TH AVE (S-132 to S-131)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



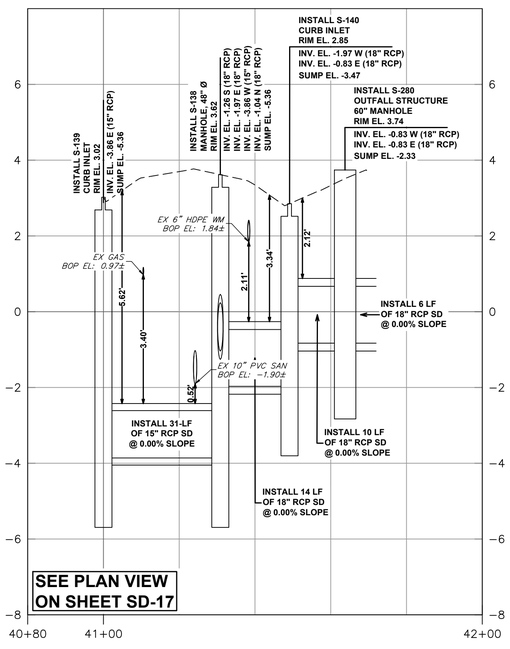
NE 20TH AVE (S-135 to S-134)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 20TH AVE (S-137 to S-136)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 20TH AVE (S-139 to S-280)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

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4000 HOLLYWOOD BLVD, SUITE 750N
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REG. No: 65558
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FAX: 954.730.2030

DRAWN BY:	DATE:	FIELD BOOK:
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:		
JJM		

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PUBLIC WORKS DEPARTMENT
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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS NO.	DATE	BY	CHK'D	DESCRIPTION

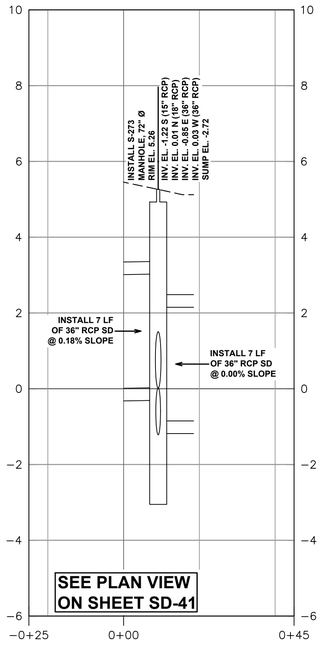
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

SHEET NO.	SHT #
SD-49	80
TOTAL:	233

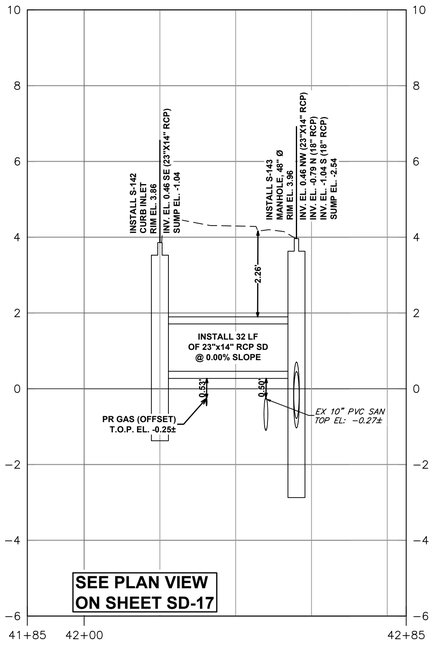
CAD FILE:
12082–MULTI–PROF

DRAWING FILE NO.
4–144–88



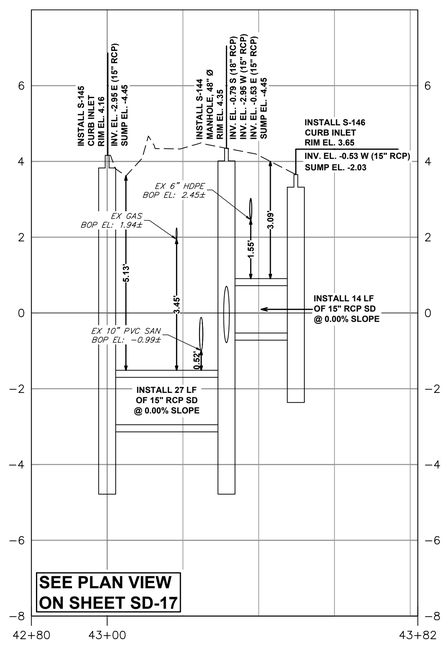
NE 17TH WAY (PIPE 177 to 118)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



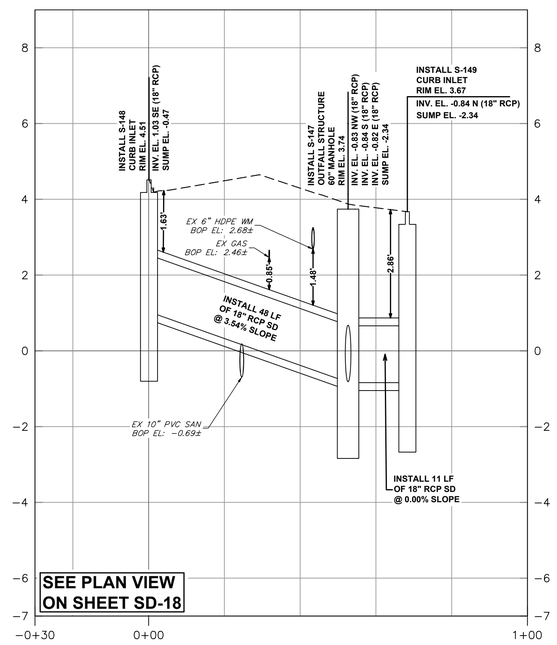
NE 20TH AVE (S-142 to S-143)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



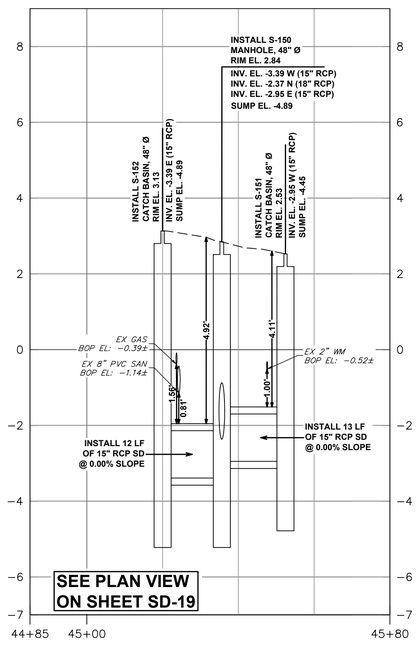
NE 20TH AVE (S-145 to S-146)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



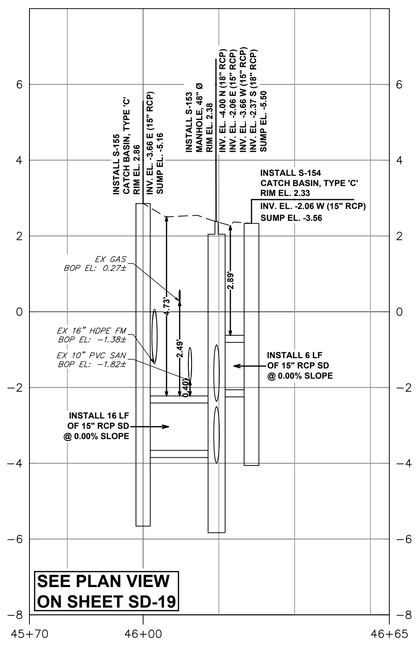
NE 20TH AVE (EX CI #100201 to S-149)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



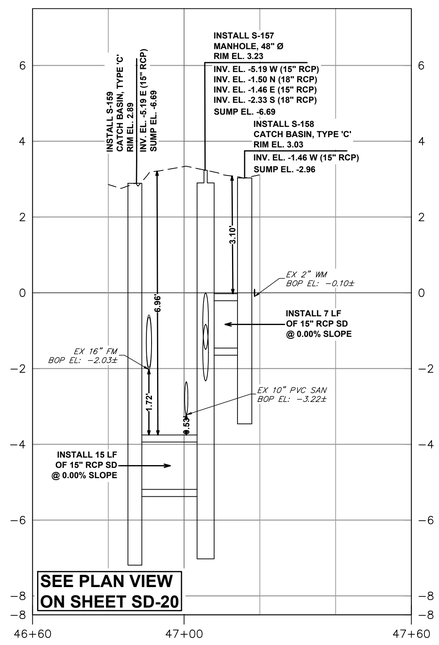
VICTORIA TERR (S-152 to S-151)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



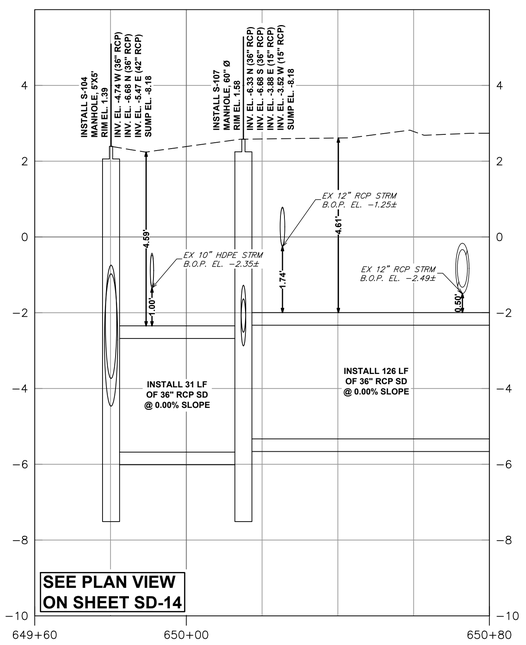
VICTORIA TERR (S-155 to S-154)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



VICTORIA TERR (S-159 to S-158)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 20TH AVE

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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ENGINEER:
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REG. No: 65558
DATE:
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0 20' 40'

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DRAWN BY:	DATE:
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DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

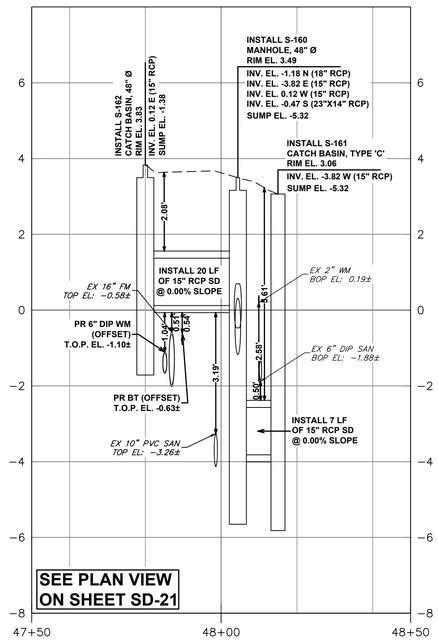
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

SHEET NO.	SHT #
SD-50	81
TOTAL:	233

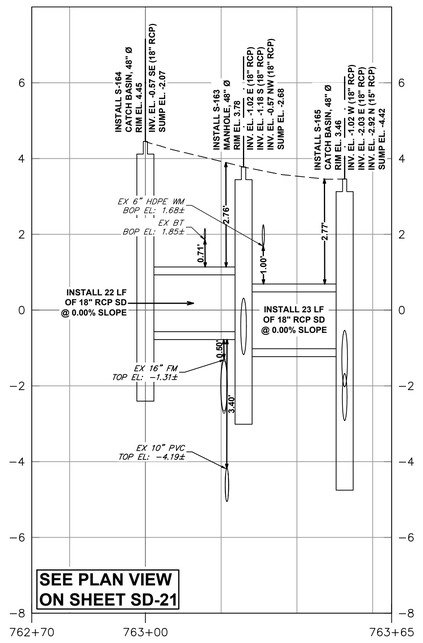
CAD FILE:
12082-MULTI-PROF

DRAWING FILE NO.
4-144-88



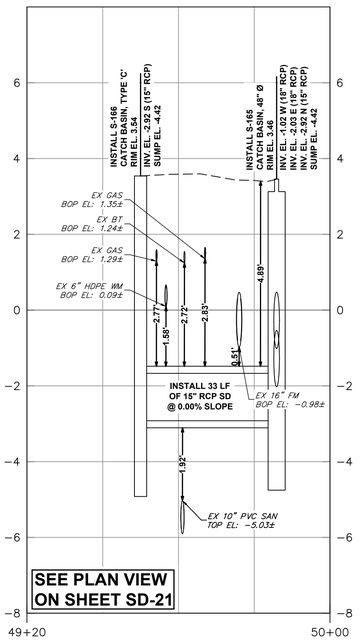
VICTORIA TERR (S-162 to S-161)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



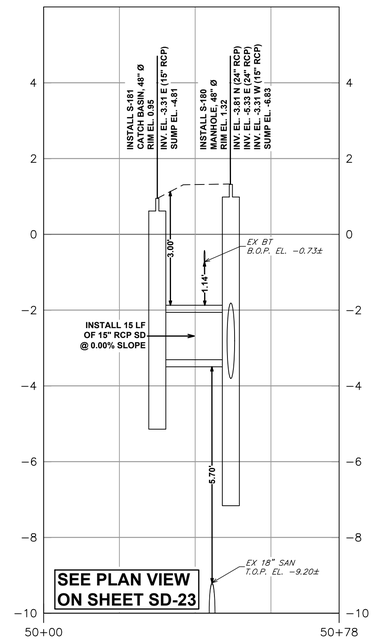
VICTORIA TERR (S-164 to S-165)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



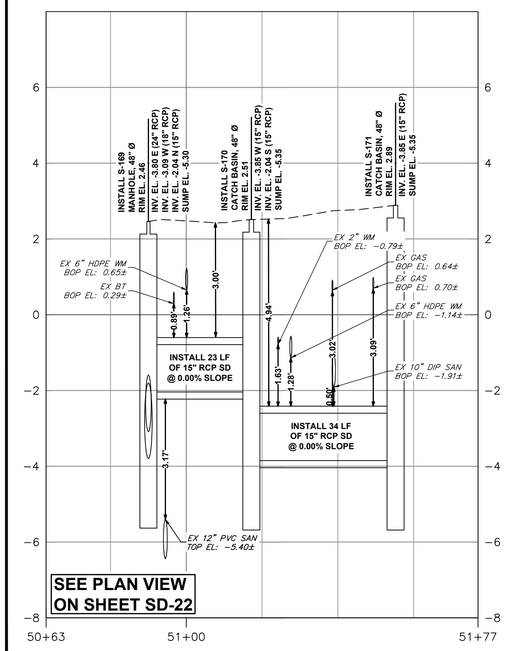
NE 6TH CT (S-166 to S-165)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



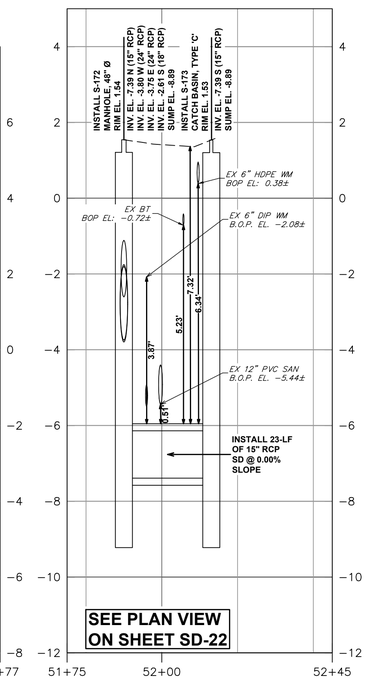
NE 19TH AVE (S-181 to S-180)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



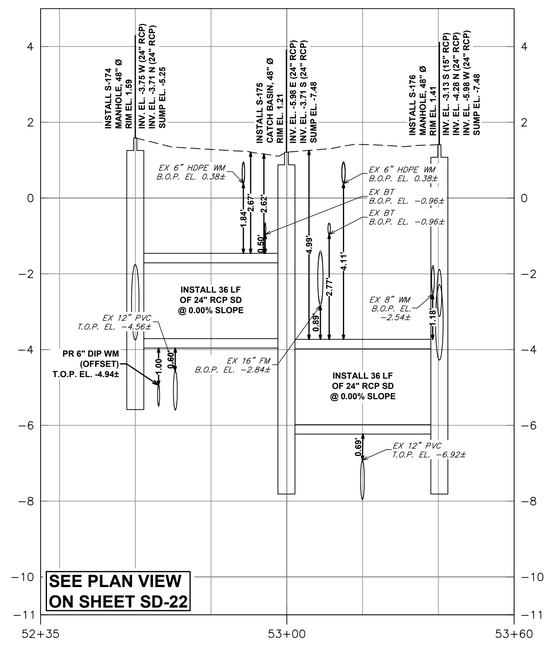
NE 6TH CT (S-169 to S-171)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



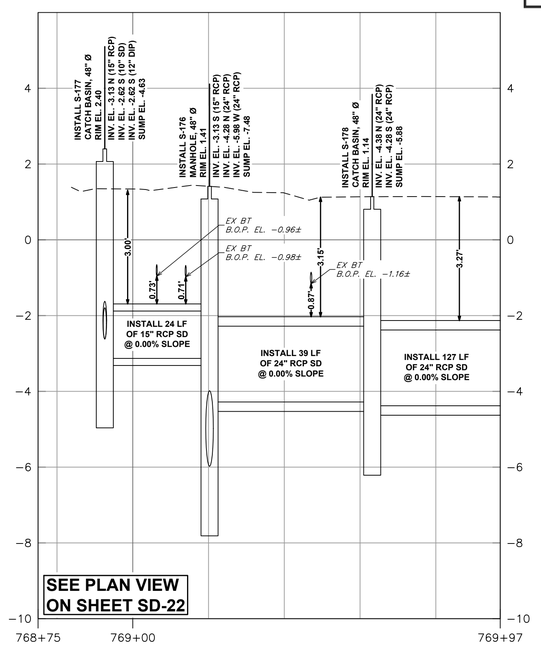
NE 6TH CT (S-172 to S-173)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 6TH CT (S-174 to S-176)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 19TH AVE

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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0 20' 40'

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DRAWN BY: JLS
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FIELD BOOK:

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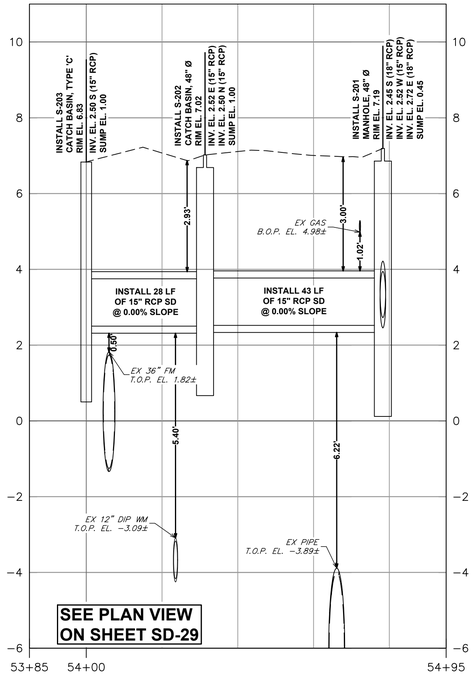
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

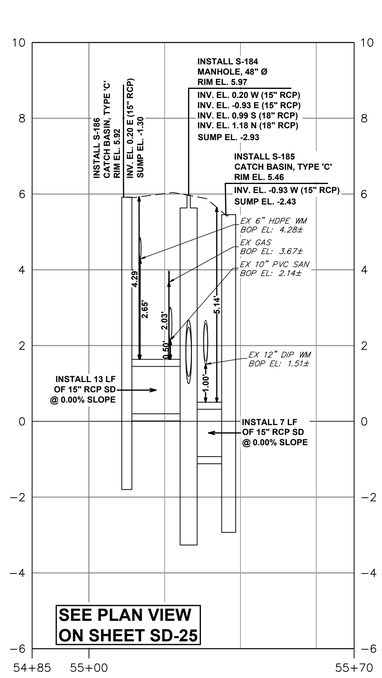
STORM DRAINAGE PROFILES

SHEET NO. SD-51
SHT # 82
TOTAL: 233
CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88



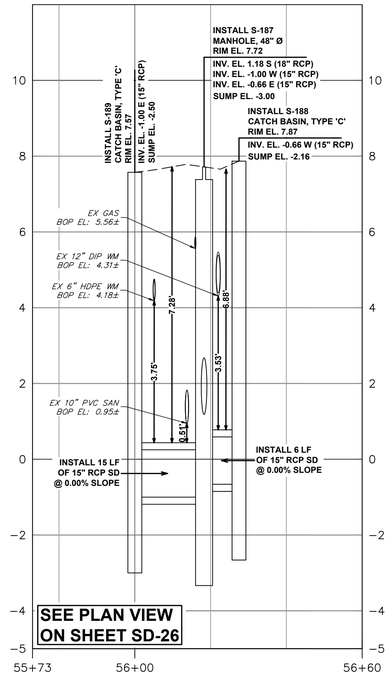
NE 15TH AVE (S-203 to S-201)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



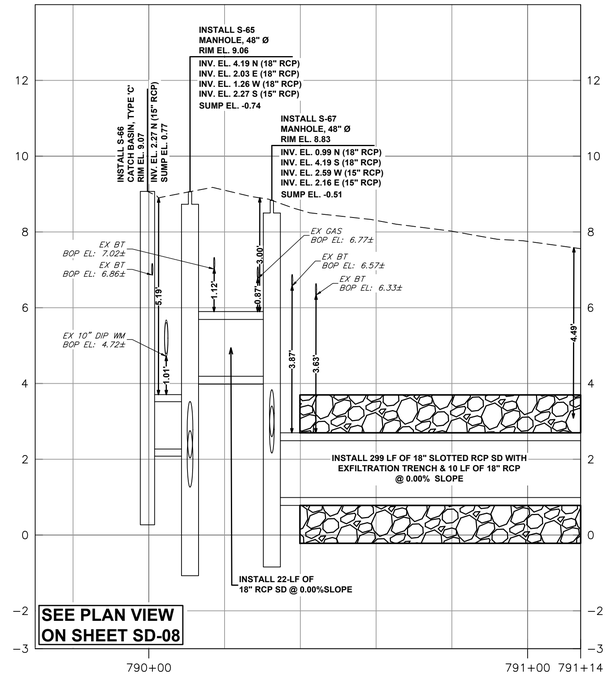
NE 17TH TERR (S-186 to S-185)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



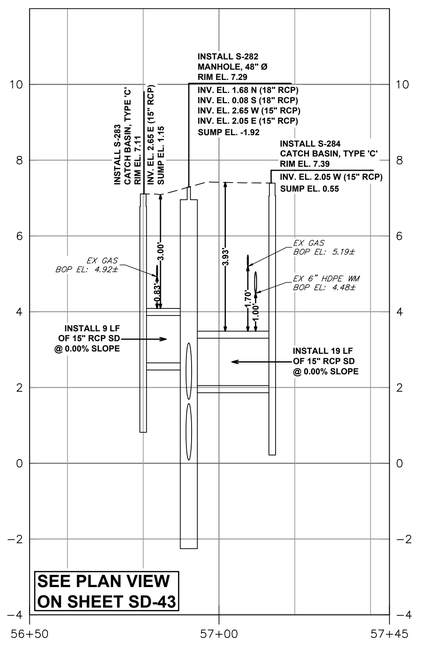
NE 17TH TERR (S-189 to S-188)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



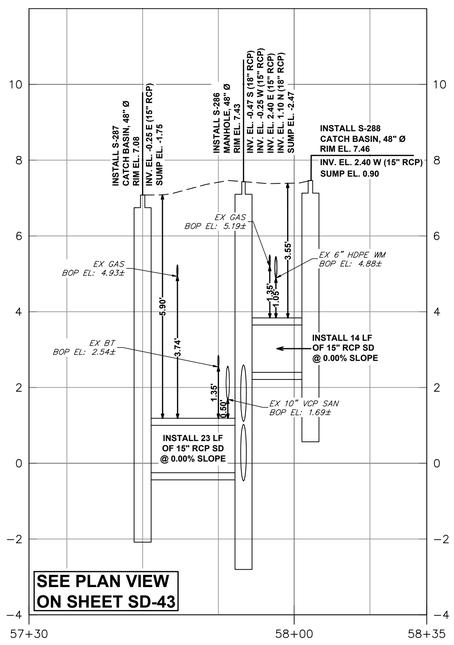
NE 17TH TERR

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



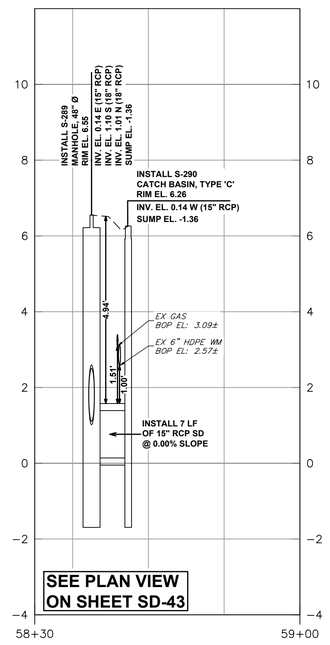
NE 17TH AVE (S-283 to S-284)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



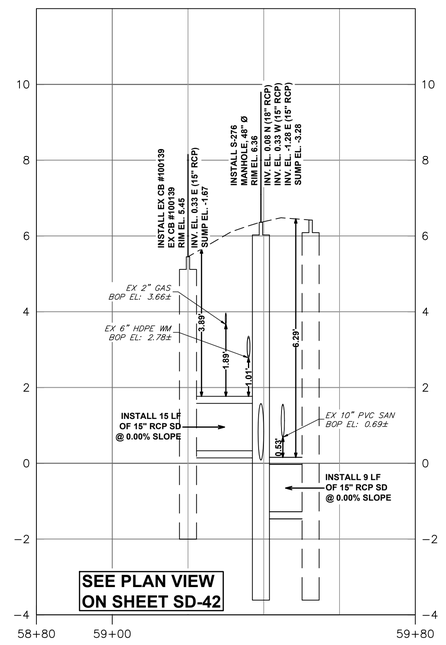
NE 17TH AVE (S-287 to S-288)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 17TH AVE (S-289 to S-290)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 17TH AVE (EX CB 100139 to EX MH 100221)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
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Suite 600
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www.chenmoore.com

0 20' 40'

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ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
LICENSE No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

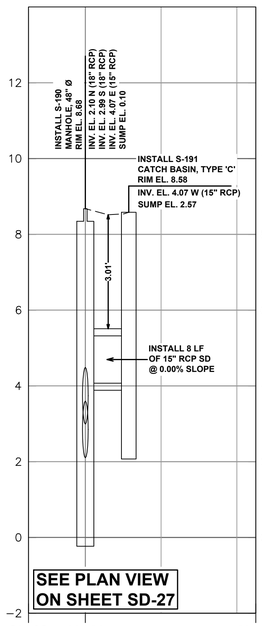
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

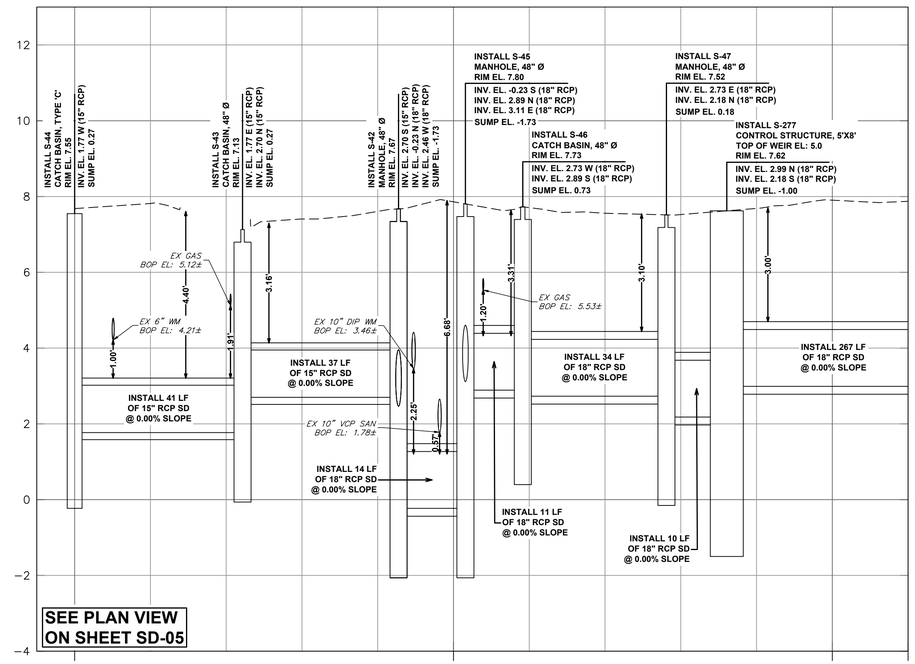
SHEET NO. SD-52 | SHT # 83
TOTAL: 233
CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1810 of 2050



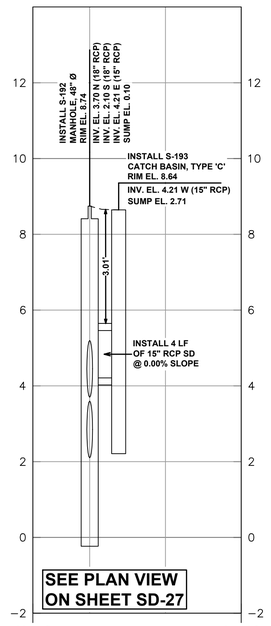
NE 15TH AVE (S-190 to S-191)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



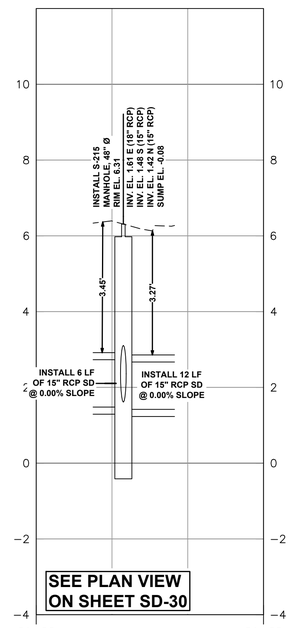
NE 15TH AVE (S-44 to S-277)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



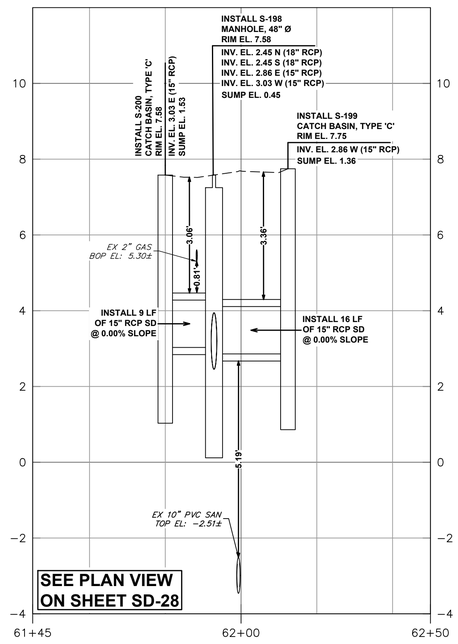
NE 15TH AVE (S-192 to S-193)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



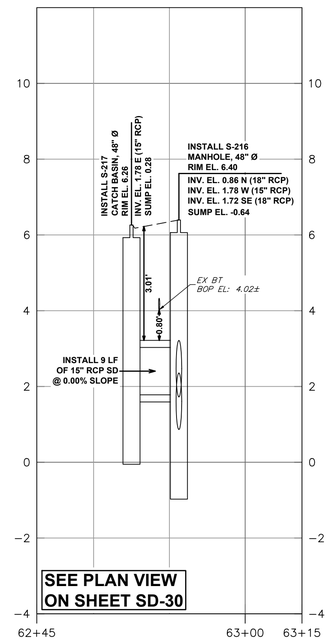
NE 15TH AVE (Pipe 029 to 030)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



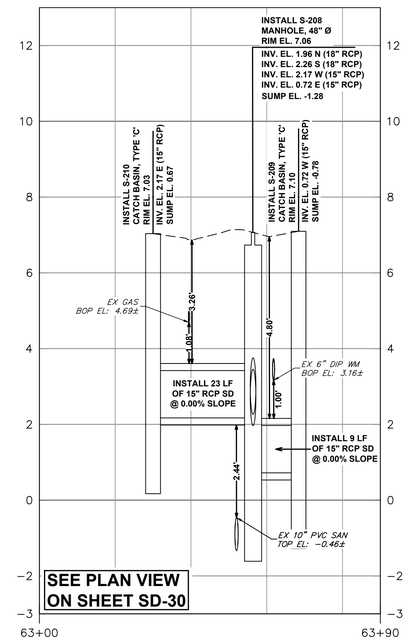
NE 15TH AVE (S-200 to S-199)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



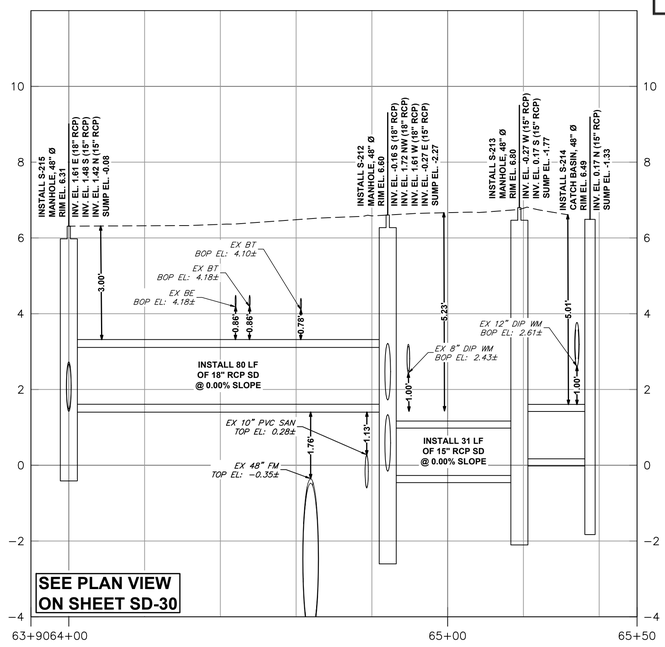
NE 15TH AVE (S-217 to S-216)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 15TH AVE (S-210 to S-209)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 15TH AVE (S-215 to S-214)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
LICENSE No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

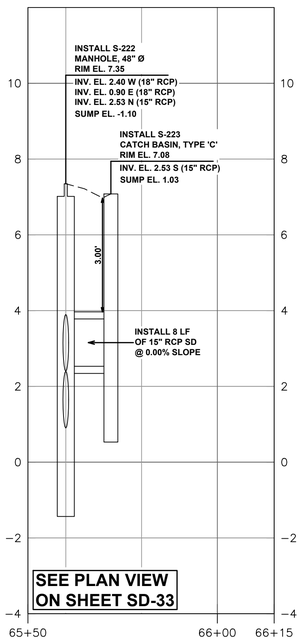
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

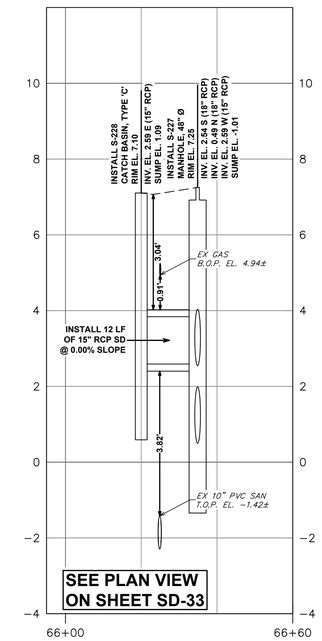
STORM DRAINAGE PROFILES

SHEET NO. SD-53
SHT # 84
TOTAL: 233
CAD FILE: 12082-MULTI-PROF
DRAWING FILE NO. 4-144-88



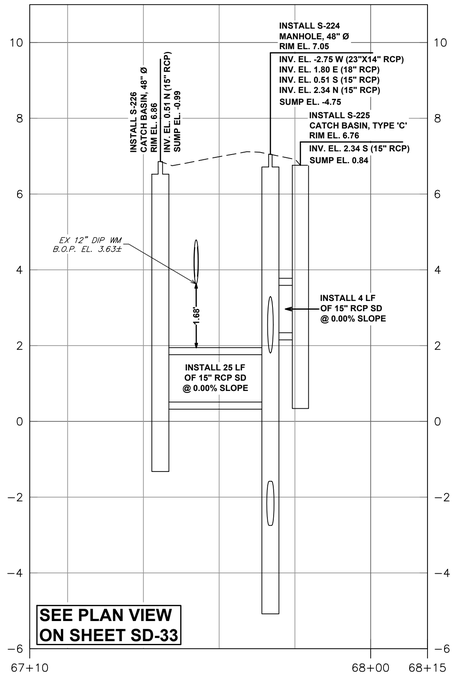
NE 8TH ST (S-223 to S-222)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



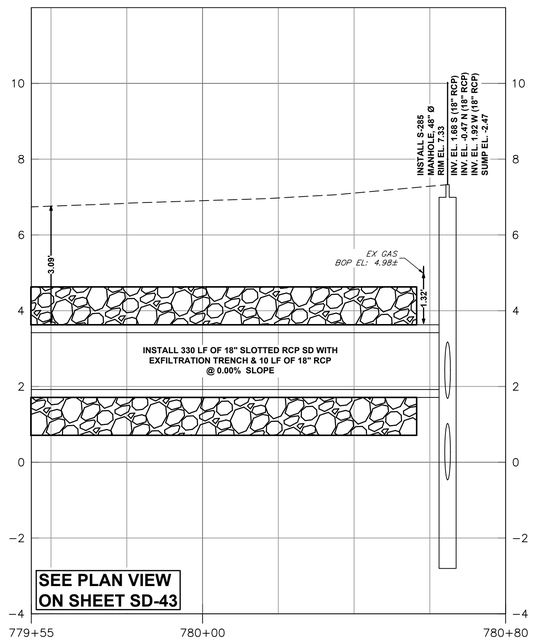
NE 8TH ST (S-228 to S-227)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 8TH ST (S-226 to S-225)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 5TH CT

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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0 20' 40'

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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
LIC. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

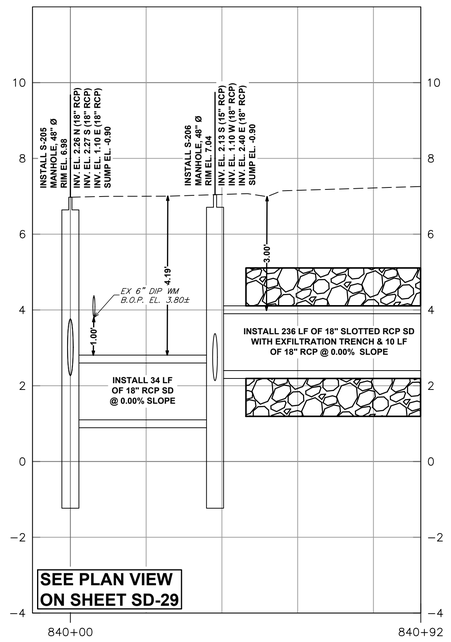
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

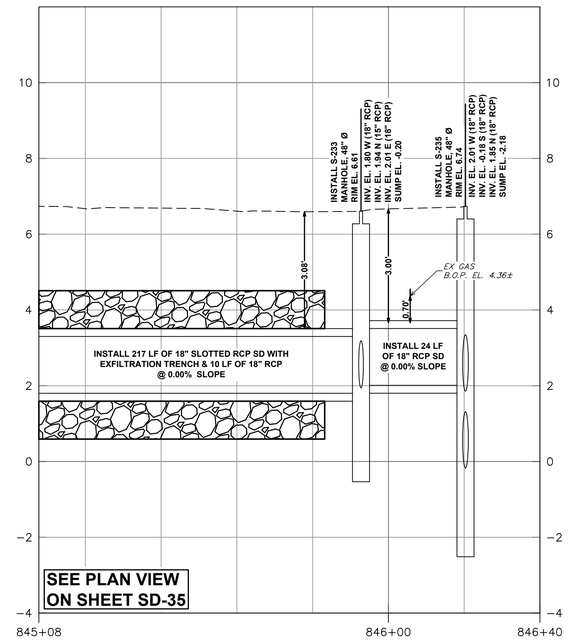
STORM DRAINAGE PROFILES

SHEET NO. SD-54
SHT # 85
TOTAL: 233
CAD FILE: 12082–MULTI–PROF
DRAWING FILE NO. 4–144–88



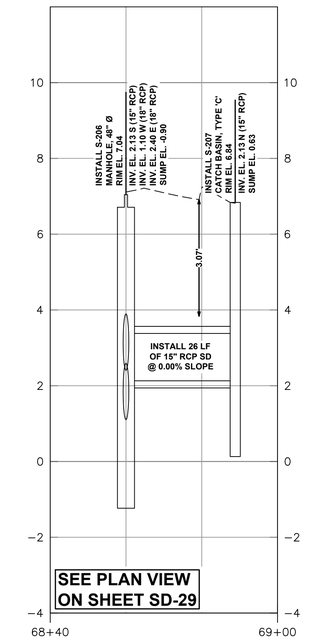
NE 8TH ST

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



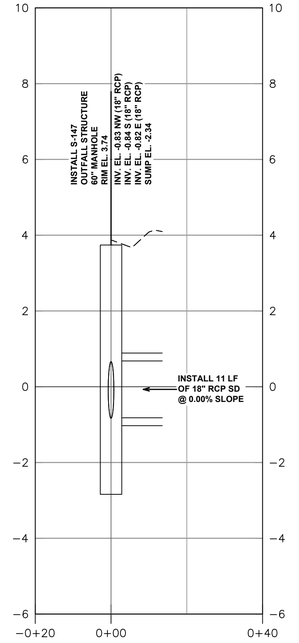
NE 8TH ST

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



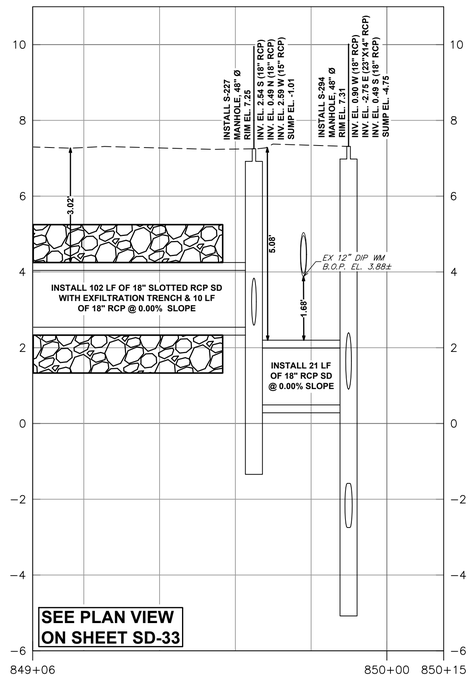
NE 8TH ST (S-206 to S-207)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



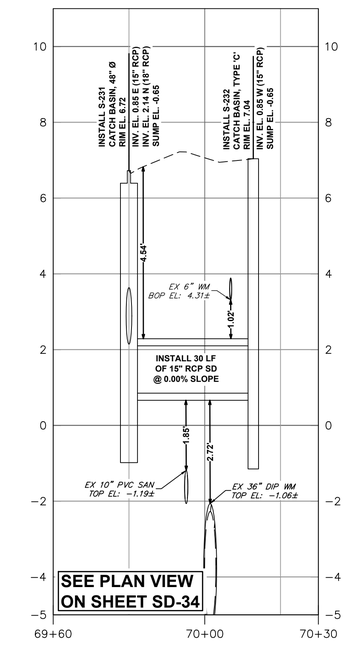
NE 20TH AVE (S-147 to OUTFALL)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



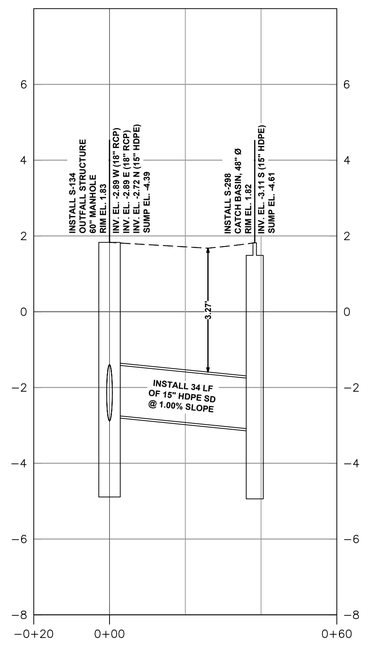
NE 16TH AVE

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



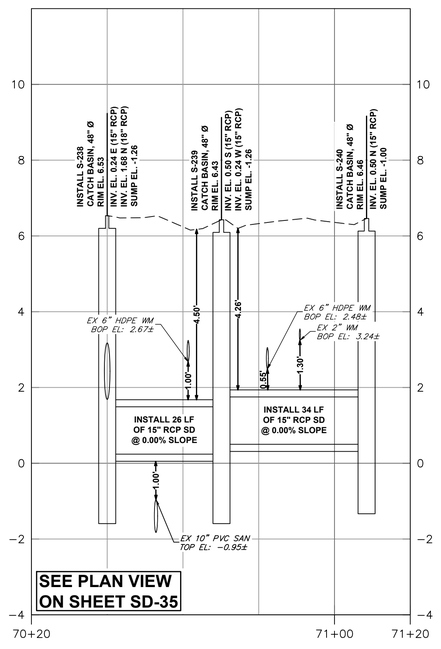
NE 16TH AVE (S-231 to S-232)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 20TH AVE (S-134 to S-298)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"



NE 16TH TERR (S-238 to S-240)

VERTICAL 1"=2'–0"
HORIZONTAL 1"=20'–0"

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0 20' 40'

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	FIELD BOOK:
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:		
JJM		

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

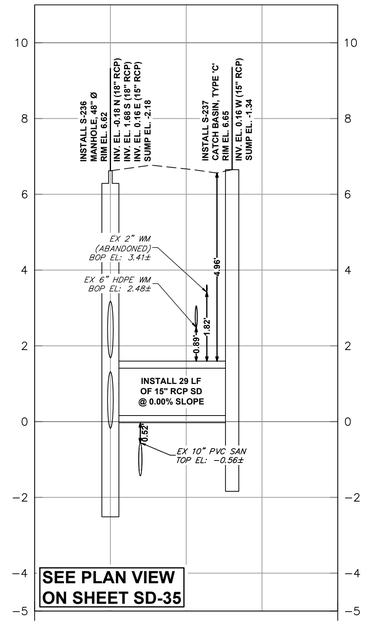
STORM DRAINAGE PROFILES

SHEET NO.	SHT #
SD-55	86
TOTAL:	233

CAD FILE:
12082–MULTI–PROF

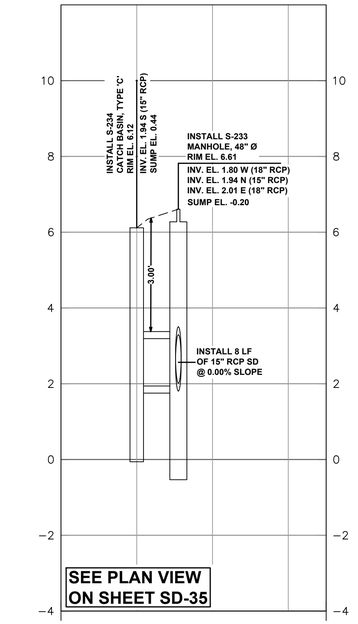
DRAWING FILE NO.
4–144–88

CAM #25-0925
Exhibit 1F
Page 1813 of 2050



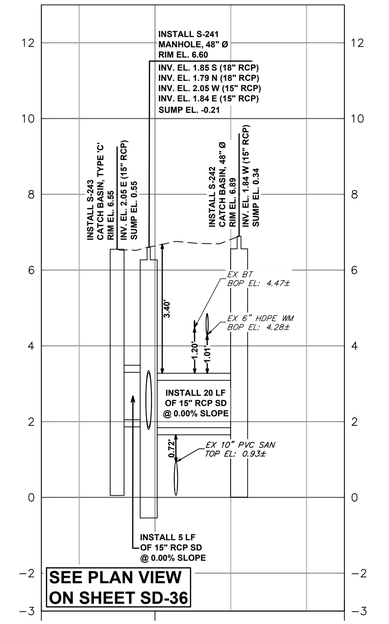
NE 16TH TERR (S-236 to S-237)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



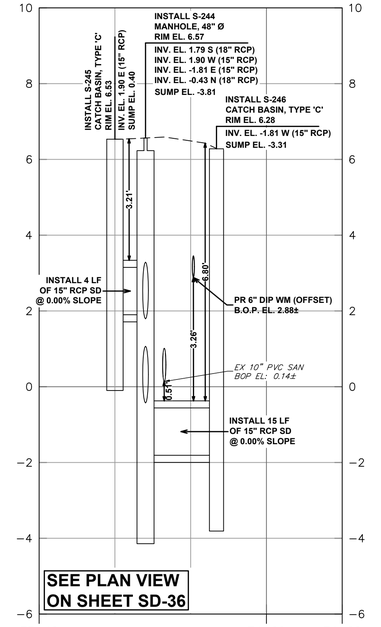
NE 16TH TERR (S-234 to S-233)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



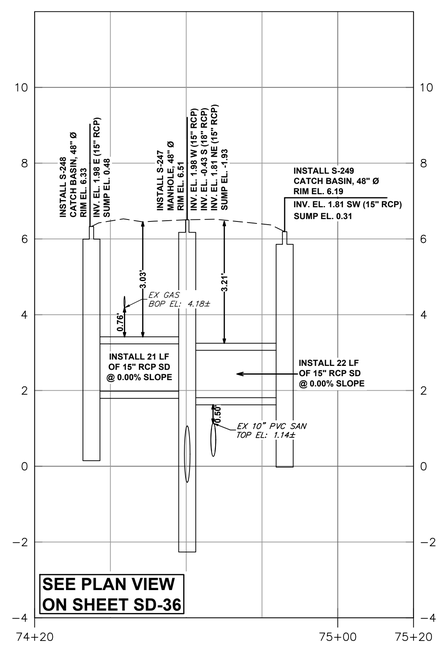
NE 16TH TERR (S-243 to S-242)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



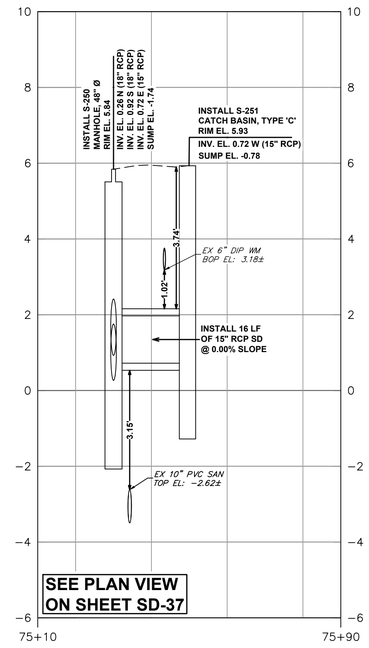
NE 16TH TERR (S-245 to S-246)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



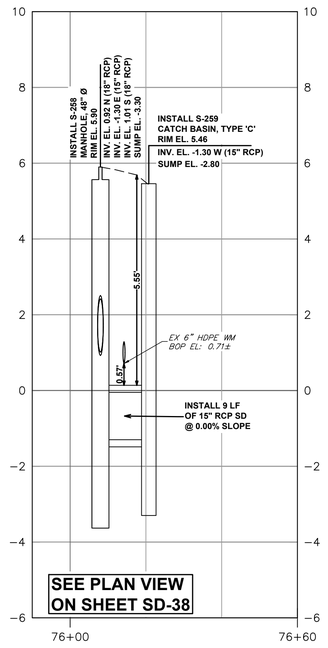
NE 16TH TERR (S-248 to S-249)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



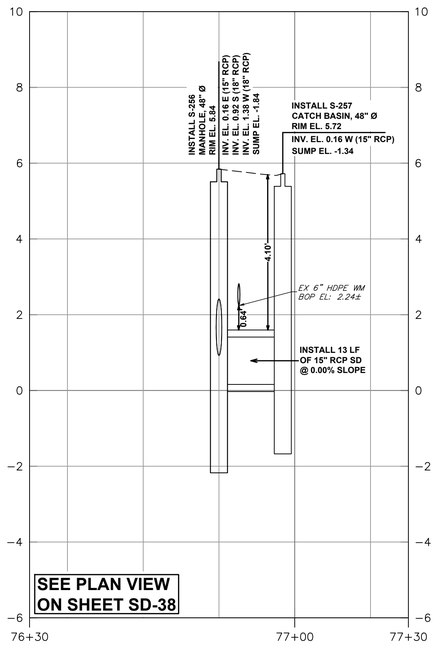
NE 12TH AVE (S-250 to S-251)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 12TH AVE (S-258 to S-259)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"



NE 12TH AVE (S-256 to S-257)

VERTICAL 1"=2'-0"
HORIZONTAL 1"=20'-0"

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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www.chenmoore.com

0 20' 40'

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	
JJM	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

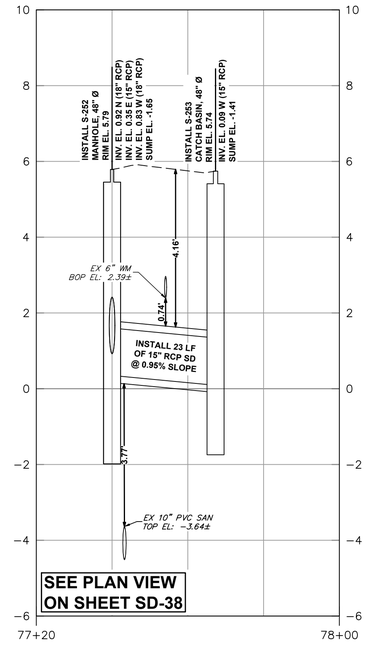
STORM DRAINAGE PROFILES

SHEET NO.	SHT #
SD-56	87
TOTAL:	233

CAD FILE:
12082-MULTI-PROF

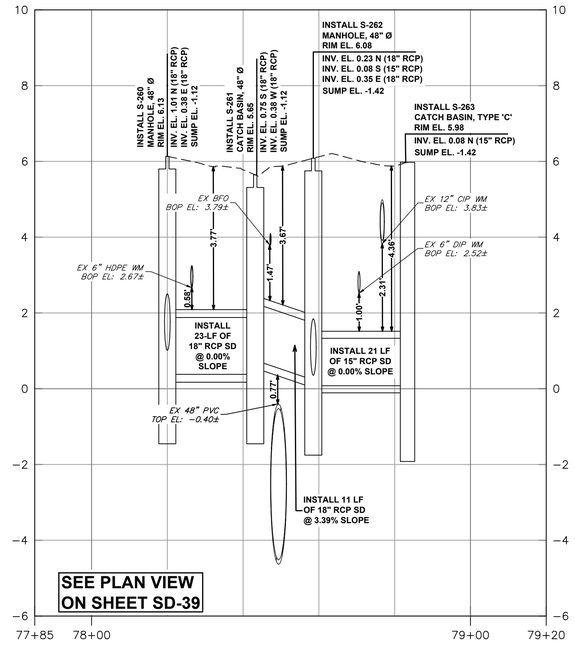
DRAWING FILE NO.
4-144-88

CAM #25-0925
Exhibit 1F
Page 1814 of 2050



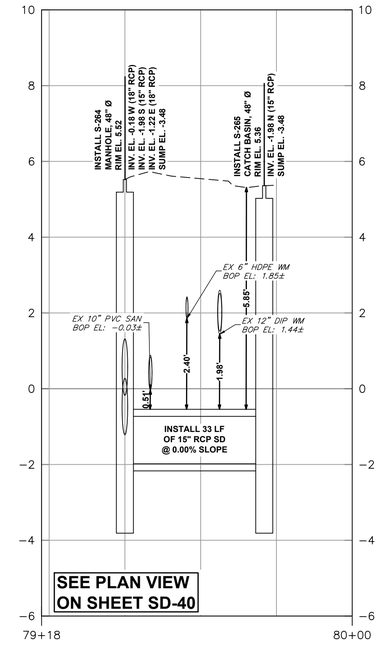
NE 12TH AVE (S-252 to S-253)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"



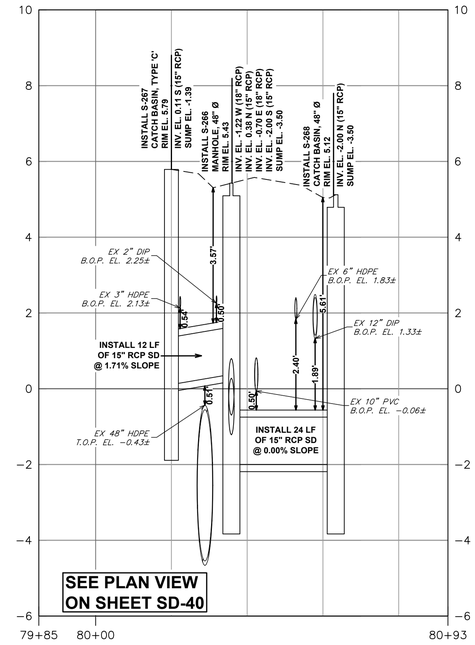
NE 12TH AVE (S-260 to S-263)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"



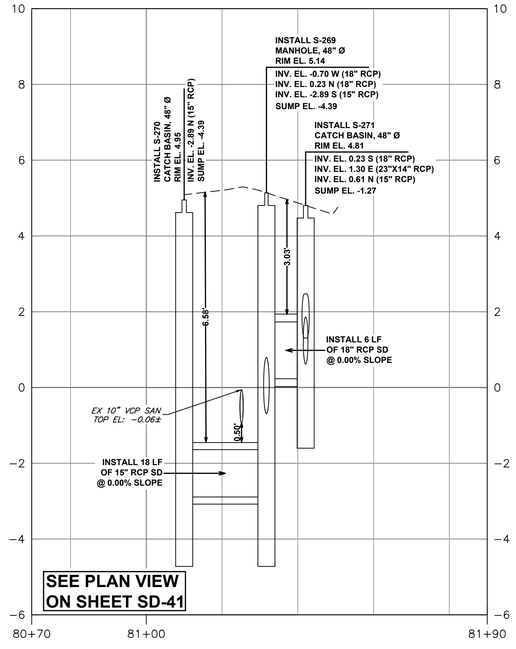
NE 4TH ST (S-264 to S-265)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"



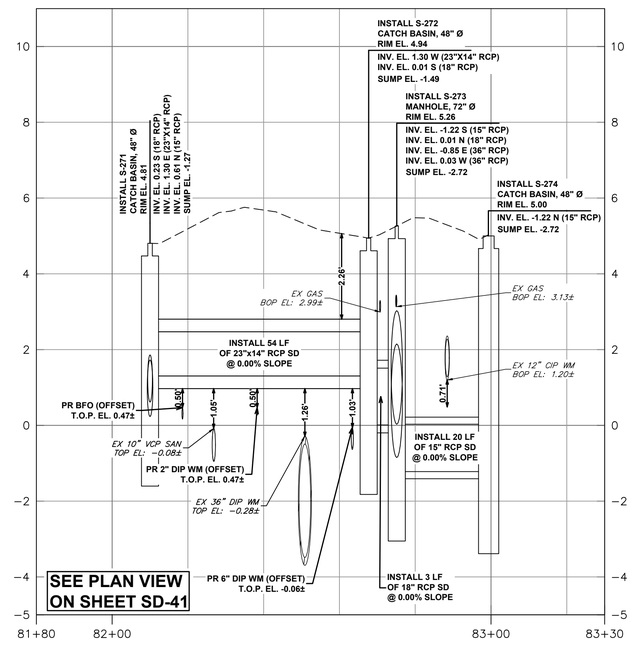
NE 4TH ST (S-267 to S-268)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"



NE 4TH ST (S-270 to S-271)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"



NE 4TH ST (S-271 to S-274)

VERTICAL 1"=2'−0"
HORIZONTAL 1"=20'−0"

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DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STORM DRAINAGE PROFILES

SHEET NO. SD-57
SHT # 88
TOTAL: 233
CAD FILE: 12082−MULTI−PROF
DRAWING FILE NO. 4−144−88

CAM #25-0925
Exhibit 1F
Page 1815 of 2050

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
EX CB #100139	N:653364.59 E:943119.35	EX CB #100139	5.45	STANDARD STANDARDSTANDARD	−1.67	15" RCP (OUT)	0.33 (E) 15" RCP
EX CB #100178	N:655887.48 E:941784.26	CORE AND CONNECT TO EX STRUCTURE	2.11	USF 4155 FRAME USF 6209 GRATE	???	15" RCP (IN)	0.59 (W) 15" RCP
EX CB #100221	N:653367.73 E:943151.57	EX CB #100221	6.42	STANDARD STANDARDSTANDARD	−3.28	15" RCP (OUT)	−1.28 (W) 15" RCP
EX CI #100201	N:656380.99 E:945017.07	EX CI #100201	4.26	STANDARD STANDARDSTANDARD	−0.47	18" RCP (OUT)	1.03 (SE) 18" RCP
NULL	N:654694.51 E:945076.62	60 X 24 INCH RECTANGULAR STRUCTURE	1.89	STANDARD STANDARDSTANDARD	−6.97	15" RCP (IN) 42" RCP (IN)	−2.90 (S) 15" RCP −5.47 (W) 42" RCP
S−1	N:653885.51 E:939779.29	MANHOLE, 48" ø	5.49	STANDARD STANDARDSTANDARD	−0.92	15" RCP (OUT)	0.58 (E) 15" RCP
S−2	N:653886.89 E:939828.29	MANHOLE, 48" ø	5.02	STANDARD STANDARDSTANDARD	−1.65	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−0.15 (E) 18" RCP 0.58 (W) 15" RCP 0.54 (S) 15" RCP
S−3	N:653845.35 E:939796.70	CATCH BASIN, 48" ø	5.16	STANDARD STANDARDSTANDARD	−2.17	15" RCP (OUT)	−0.67 (E) 15" RCP
S−4	N:653847.19 E:939836.03	CATCH BASIN, 48" ø	4.94	STANDARD STANDARDSTANDARD	−2.17	15" RCP (OUT) 15" RCP (IN)	0.54 (N) 15" RCP −0.67 (W) 15" RCP
S−5	N:653889.76 E:939923.79	MANHOLE, 48" ø	4.53	STANDARD STANDARDSTANDARD	−1.65	18" RCP (OUT) 18" RCP (IN) 15" RCP (IN)	0.51 (E) 18" RCP −0.15 (W) 18" RCP 0.01 (N) 15" RCP
S−6	N:653898.91 E:939923.37	CATCH BASIN, 48" ø	4.42	STANDARD STANDARDSTANDARD	−1.49	15" RCP (OUT)	0.01 (S) 15" RCP
S−7	N:653892.27 E:939957.34	MANHOLE, 48" ø	4.55	STANDARD STANDARDSTANDARD	−3.15	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 18" RCP (IN)	−0.98 (E) 18" RCP −0.07 (N) 15" RCP −1.65 (S) 15" RCP 0.51 (W) 18" RCP
S−8	N:653899.10 E:939955.63	CATCH BASIN, 48" ø	4.27	STANDARD STANDARDSTANDARD	−1.57	15" RCP (OUT)	−0.07 (S) 15" RCP
S−9	N:653856.79 E:939954.96	CATCH BASIN, TYPE 'C'	4.60	USF 4155 FRAME USF 6209 GRATE	−3.15	15" RCP (OUT)	−1.65 (N) 15" RCP
S−10	N:653896.98 E:940126.25	MANHOLE, 48" ø	4.25	STANDARD STANDARDSTANDARD	−3.56	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	−0.85 (E) 18" RCP −2.06 (S) 15" RCP −0.98 (W) 18" RCP
S−11	N:653857.61 E:940121.67	CATCH BASIN, 48" ø	4.27	STANDARD STANDARDSTANDARD	−4.97	15" RCP (OUT) 15" RCP (OUT)	−3.47 (E) 15" RCP −2.06 (N) 15" RCP
S−12	N:653861.52 E:940173.46	CATCH BASIN, 48" ø	3.98	STANDARD STANDARDSTANDARD	−4.97	15" RCP (IN)	−3.47 (W) 15" RCP
S−13	N:653901.31 E:940232.27	MANHOLE, 48" ø	4.29	STANDARD STANDARDSTANDARD	−4.89	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN) 15" RCP (IN)	−3.39 (E) 18" RCP −0.76 (N) 15" RCP −0.85 (W) 18" RCP −3.23 (S) 15" RCP
S−14	N:653914.56 E:940233.23	CATCH BASIN, 48" ø	3.52	STANDARD STANDARDSTANDARD	−2.26	15" RCP (OUT)	−0.76 (S) 15" RCP
S−15	N:653867.44 E:940233.68	CATCH BASIN, TYPE 'C'	4.38	USF 4155 FRAME USF 6209 GRATE	−4.73	15" RCP (OUT)	−3.23 (N) 15" RCP
S−16	N:653903.71 E:940289.14	MANHOLE, 48" ø	4.17	STANDARD STANDARDSTANDARD	−4.89	18" RCP (IN) 18" RCP (OUT)	−3.39 (W) 18" RCP −0.65 (E) 18" RCP
S−17	N:653911.04 E:940458.76	MANHOLE, 48" ø	5.00	STANDARD STANDARDSTANDARD	−3.17	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	−0.65 (E) 18" RCP −1.67 (S) 15" RCP −0.65 (W) 18" RCP
S−18	N:653871.21 E:940454.09	CATCH BASIN, 48" ø	4.85	STANDARD STANDARDSTANDARD	−5.13	15" RCP (OUT) 15" RCP (IN)	−1.67 (N) 15" RCP −3.63 (E) 15" RCP
S−19	N:653872.86 E:940496.19	CATCH BASIN, 48" ø	4.88	STANDARD STANDARDSTANDARD	−5.13	15" RCP (OUT)	−3.63 (W) 15" RCP
S−20	N:653913.94 E:940532.35	MANHOLE, 48" ø	5.46	STANDARD STANDARDSTANDARD	−2.15	18" RCP (OUT) 18" RCP (IN)	0.56 (E) 18" RCP −0.65 (W) 18" RCP
S−21	N:653915.69 E:940589.55	CATCH BASIN, 48" ø	5.64	STANDARD STANDARDSTANDARD	−0.94	18" RCP (OUT) 18" RCP (IN)	0.85 (E) 18" RCP 0.56 (W) 18" RCP
S−22	N:653923.89 E:940841.74	MANHOLE, 48" ø	5.31	STANDARD STANDARDSTANDARD	−3.27	18" RCP (OUT) 18" RCP (IN)	−1.77 (E) 18" RCP 0.85 (W) 18" RCP
S−23	N:653925.88 E:940900.46	CATCH BASIN, 48" ø	5.53	STANDARD STANDARDSTANDARD	−3.27	18" RCP (OUT) 18" RCP (IN)	0.22 (E) 18" RCP −1.77 (W) 18" RCP
S−24	N:653938.35 E:941161.53	MANHOLE, 48" ø	4.90	STANDARD STANDARDSTANDARD	−1.54	18" RCP (IN) 18" RCP (IN) 15" RCP (IN) 18" RCP (IN)	0.15 (E) 18" RCP 0.22 (W) 18" RCP 0.38 (N) 15" RCP −0.04 (S) 18" RCP
S−25	N:653948.01 E:941161.26	CATCH BASIN, 48" ø	4.87	STANDARD STANDARDSTANDARD	−1.12	15" RCP (OUT)	0.38 (S) 15" RCP
S−26	N:653892.69 E:941151.01	CATCH BASIN, 48" ø	4.67	STANDARD STANDARDSTANDARD	−3.23	18" RCP (OUT) 18" RCP (OUT)	−1.23 (W) 18" RCP −1.73 (N) 18" RCP
S−27	N:653892.64 E:941130.63	MANHOLE, 48" ø	5.14	STANDARD STANDARDSTANDARD	−2.35	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	0.26 (S) 18" RCP 0.26 (W) 15" RCP −0.85 (E) 18" RCP
S−28	N:653890.51 E:941112.82	CATCH BASIN, 48" ø	4.83	STANDARD STANDARDSTANDARD	−1.24	15" RCP (OUT)	0.26 (E) 15" RCP
S−29	N:653940.33 E:941207.02	CATCH BASIN, 48" ø	4.96	USF 4155 FRAME USF 6209 GRATE	−3.36	18" RCP (IN) 18" RCP (OUT)	−1.36 (E) 18" RCP 0.15 (W) 18" RCP

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S−30	N:653947.71 E:941444.99	CATCH BASIN, 48" ø	6.45	STANDARD STANDARDSTANDARD	−2.72	18" RCP (IN) 15" RCP (IN)	−0.72 (E) 18" RCP −0.60 (S) 15" RCP
S−31	N:653900.70 E:941446.82	CATCH BASIN, 48" ø	6.68	STANDARD STANDARDSTANDARD	−2.10	15" RCP (IN) 15" RCP (OUT)	−0.53 (E) 15" RCP −0.60 (N) 15" RCP
S−32	N:653901.63 E:941489.79	CATCH BASIN, 48" ø	6.57	STANDARD STANDARDSTANDARD	−2.03	15" RCP (OUT)	−0.53 (W) 15" RCP
S−33	N:653950.29 E:941512.27	CATCH BASIN, 48" ø	6.50	STANDARD STANDARDSTANDARD	−2.72	18" RCP (OUT) 18" RCP (IN)	−0.72 (W) 18" RCP 1.80 (E) 18" RCP
S−34	N:653955.80 E:941733.36	CATCH BASIN, 48" ø	6.29	STANDARD STANDARDSTANDARD	−0.26	18" RCP (OUT) 18" RCP (IN)	1.80 (W) 18" RCP 1.74 (E) 18" RCP
S−35	N:653953.82 E:941769.03	CURB INLET	7.02	STANDARD STANDARDSTANDARD	−4.24	18" RCP (OUT) 23" RCP (IN) 15" RCP (IN)	1.74 (W) 18" RCP −2.74 (E) 23"X14" RCP 0.87 (S) 15" RCP
S−36	N:653900.88 E:941774.58	CURB INLET	6.98	STANDARD STANDARDSTANDARD	−0.63	15" RCP (OUT)	0.87 (N) 15" RCP
S−37	N:653951.40 E:941848.13	CATCH BASIN, 48" ø	7.25	STANDARD STANDARDSTANDARD	−0.66	23" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	2.77 (W) 23"X14" RCP 0.84 (S) 15" RCP 2.45 (E) 18" RCP
S−38	N:653903.73 E:941843.51	CATCH BASIN, 48" ø	6.75	STANDARD STANDARDSTANDARD	−0.66	15" RCP (OUT)	0.84 (N) 15" RCP
S−39	N:653948.58 E:941961.11	CATCH BASIN, 48" ø	7.16	STANDARD STANDARDSTANDARD	−1.85	18" RCP (IN) 18" RCP (OUT) 15" RCP (OUT)	2.51 (E) 18" RCP 2.45 (W) 18" RCP −0.35 (S) 15" RCP
S−40	N:653949.65 E:942058.29	CATCH BASIN, 48" ø	7.30	STANDARD STANDARDSTANDARD	0.51	18" RCP (OUT)	2.51 (W) 18" RCP
S−41	N:653914.08 E:941962.05	CATCH BASIN, 48" ø	7.48	STANDARD STANDARDSTANDARD	−1.85	18" RCP (IN) 15" RCP (IN)	2.46 (E) 18" RCP −0.35 (N) 15" RCP
S−42	N:653916.76 E:942132.14	MANHOLE, 48" ø	7.67	STANDARD STANDARDSTANDARD	−1.73	15" RCP (IN) 18" RCP (OUT) 18" RCP (OUT)	2.70 (S) 15" RCP −0.23 (N) 18" RCP 2.46 (W) 18" RCP
S−43	N:653876.32 E:942139.85	CATCH BASIN, 48" ø	7.13	STANDARD STANDARDSTANDARD	0.27	15" RCP (IN) 15" RCP (OUT)	1.77 (E) 15" RCP 2.70 (N) 15" RCP
S−44	N:653883.32 E:942183.62	CATCH BASIN, TYPE 'C'	7.55	USF 4155 FRAME USF 6209 GRATE	0.27	15" RCP (OUT)	1.77 (W) 15" RCP
S−45	N:653934.32 E:942130.29	MANHOLE, 48" ø	7.80	STANDARD STANDARDSTANDARD	−1.73	18" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	−0.23 (S) 18" RCP 2.89 (N) 18" RCP 3.11 (E) 18" RCP
S−46	N:653949.39 E:942128.70	CATCH BASIN, 48" ø	7.73	STANDARD STANDARDSTANDARD	0.73	18" RCP (OUT) 18" RCP (IN)	2.73 (W) 18" RCP 2.89 (S) 18" RCP
S−47	N:653950.20 E:942090.79	MANHOLE, 48" ø	7.52	STANDARD STANDARDSTANDARD	0.18	18" RCP (IN) 18" RCP (IN)	2.73 (E) 18" RCP 2.18 (N) 18" RCP
S−48	N:653942.55 E:942419.10	MANHOLE, 48" ø	7.79	STANDARD STANDARDSTANDARD	−0.95	15" RCP (IN) 15" RCP (OUT) 18" RCP (IN) 23" RCP (OUT)	0.55 (S) 15" RCP 3.16 (N) 15" RCP 3.00 (W) 18" RCP 0.92 (E) 23"X14" RCP
S−49	N:653913.52 E:942420.14	CATCH BASIN, TYPE 'C'	7.65	USF 4155 FRAME USF 6209 GRATE	−0.95	15" RCP (OUT)	0.55 (N) 15" RCP
S−50	N:653954.98 E:942418.66	CATCH BASIN, TYPE 'C'	7.81	USF 4155 FRAME USF 6209 GRATE	1.16	15" RCP (IN)	3.16 (S) 15" RCP
S−51	N:653944.33 E:942504.44	MANHOLE, 48" ø	7.86	STANDARD STANDARDSTANDARD	−0.72	15" RCP (OUT) 23" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	2.93 (N) 15" RCP 0.92 (W) 23"X14" RCP 0.78 (E) 18" RCP 1.62 (SW) 15" RCP
S−52	N:653956.81 E:942505.01	CATCH BASIN, TYPE 'C'	7.55	USF 4155 FRAME USF 6209 GRATE	1.43	15" RCP (IN)	2.93 (S) 15" RCP
S−53	N:653913.89 E:942490.72	CATCH BASIN, 48" ø	7.73	STANDARD STANDARDSTANDARD	0.12	15" RCP (OUT)	1.62 (NE) 15" RCP
S−54	N:653951.91 E:942768.60	CATCH BASIN, 48" ø	7.72	STANDARD STANDARDSTANDARD	−1.28	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	0.78 (W) 18" RCP 3.12 (N) 15" RCP 0.22 (S) 18" RCP
S−55	N:653967.35 E:942762.88	MANHOLE, 48" ø	7.47	STANDARD STANDARDSTANDARD	−0.55	15" RCP (OUT) 15" RCP (OUT)	0.95 (W) 15" RCP 3.12 (S) 15" RCP
S−56	N:653964.84 E:942713.05	CATCH BASIN, 48" ø	7.55	STANDARD STANDARDSTANDARD	−0.55	15" RCP (IN)	0.95 (E) 15" RCP
S−57	N:653940.61 E:942773.15	MANHOLE, 48" ø	7.71	STANDARD STANDARDSTANDARD	−1.78	18" RCP (IN) 15" RCP (IN) 18" RCP (IN)	0.22 (N) 18" RCP 1.22 (S) 15" RCP 1.20 (E) 18" RCP
S−58	N:653928.71 E:942773.36	CATCH BASIN, TYPE 'C'	7.36	USF 4155 FRAME USF 6209 GRATE	−0.28	15" RCP (OUT)	1.22 (N) 15" RCP
S−59	N:653950.58 E:943151.93	MANHOLE, 48" ø	5.93	STANDARD STANDARDSTANDARD	−3.30	15" RCP (IN) 18" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	−0.68 (N) 15" RCP −0.83 (S) 18" RCP −1.30 (W) 23"X14" RCP 1.26 (E) 18" RCP
S−60	N:653977.49 E:943149.42	CATCH BASIN, 48" ø	5.46	USF 4155 FRAME USF 6209 GRATE	−2.56	15" RCP (OUT) 15" RCP (OUT)	−1.06 (W) 15" RCP −0.68 (S) 15" RCP
S−61	N:653973.84 E:943101.73	CATCH BASIN, 48" ø	5.23	STANDARD STANDARDSTANDARD	−2.56	15" RCP (IN)	−1.06 (E) 15" RCP
S−62	N:653931.48 E:943153.46	CATCH BASIN, 48" ø	5.35	STANDARD STANDARDSTANDARD	−2.33	18" RCP (OUT) 18" RCP (OUT)	−0.54 (W) 18" RCP −0.83 (N) 18" RCP
S−63	N:653930.88 E:943135.03	MANHOLE, 48" ø	5.93	STANDARD STANDARDSTANDARD	−3.15	18" RCP (IN) 15" RCP (IN)	1.01 (S) 18" RCP −1.15 (W) 15" RCP

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LIC. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SUMMARY OF STORM DRAIN STRUCTURES

SHEET NO. SD-58 | SHT # 89
TOTAL: 233
CAD FILE: 12082−MULTI−STRC
DRAWING FILE NO. 4−144−88

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
						18" RCP (IN)	−0.54 (E) 18" RCP
S−64	N:653929.91 E:943104.22	CATCH BASIN, 48" ø	5.19	STANDARD STANDARDSTANDARD	−2.65	15" RCP (OUT)	−1.15 (E) 15" RCP
S−65	N:653958.42 E:943425.46	MANHOLE, 48" ø	9.06	STANDARD STANDARDSTANDARD	−0.74	18" RCP (IN) 18" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	4.19 (N) 18" RCP 2.03 (E) 18" RCP 1.26 (W) 18" RCP 2.27 (S) 15" RCP
S−66	N:653947.19 E:943425.81	CATCH BASIN, TYPE 'C'	9.07	USF 4155 FRAME USF 6209 GRATE	0.77	15" RCP (OUT)	2.27 (N) 15" RCP
S−67	N:653980.00 E:943424.69	MANHOLE, 48" ø	8.83	STANDARD STANDARDSTANDARD	−0.51	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN) 15" RCP (OUT)	0.99 (N) 18" RCP 4.19 (S) 18" RCP 2.59 (W) 15" RCP 2.16 (E) 15" RCP
S−68	N:653980.80 E:943380.66	CATCH BASIN, 48" ø	8.13	STANDARD STANDARDSTANDARD	1.09	15" RCP (OUT)	2.59 (E) 15" RCP
S−69	N:653982.89 E:943446.79	CATCH BASIN, 48" ø	9.00	STANDARD STANDARDSTANDARD	0.66	15" RCP (IN)	2.16 (W) 15" RCP
S−70	N:653965.16 E:943597.19	MANHOLE, 48" ø	10.98	STANDARD STANDARDSTANDARD	0.03	18" RCP (OUT) 18" RCP (IN)	2.03 (W) 18" RCP 4.49 (N) 18" RCP
S−71	N:654150.78 E:943641.73	MANHOLE, 48" ø	9.04	STANDARD STANDARDSTANDARD	0.13	18" RCP (IN) 18" RCP (OUT)	1.63 (N) 18" RCP 4.49 (S) 18" RCP
S−72	N:654413.07 E:943703.12	MANHOLE, 48" ø	6.41	STANDARD STANDARDSTANDARD	−2.19	15" RCP (IN) 15" RCP (IN) 18" RCP (IN) 18" RCP (OUT)	−0.19 (W) 15" RCP 0.49 (E) 15" RCP 1.70 (N) 18" RCP 1.63 (S) 18" RCP
S−73	N:654413.72 E:943712.94	CATCH BASIN, TYPE 'C'	6.39	USF 4155 FRAME USF 6209 GRATE	−1.01	15" RCP (OUT)	0.49 (W) 15" RCP
S−74	N:654414.64 E:943683.76	CATCH BASIN, TYPE 'C'	6.35	USF 4155 FRAME USF 6209 GRATE	−1.69	15" RCP (OUT)	−0.19 (E) 15" RCP
S−75	N:654616.66 E:943749.53	MANHOLE, 48" ø	6.64	STANDARD STANDARDSTANDARD	−2.93	15" RCP (IN) 15" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	−0.75 (NW) 15" RCP 0.05 (E) 15" RCP 1.70 (S) 18" RCP −0.93 (N) 18" RCP
S−76	N:654617.23 E:943763.25	CATCH BASIN, TYPE 'C'	6.69	USF 4155 FRAME USF 6209 GRATE	−1.45	15" RCP (OUT)	0.05 (W) 15" RCP
S−77	N:654635.98 E:943716.40	CATCH BASIN, 48" ø	6.39	STANDARD STANDARDSTANDARD	−2.25	15" RCP (OUT)	−0.75 (SE) 15" RCP
S−78	N:654665.67 E:943735.14	CATCH BASIN, 48" ø	6.52	STANDARD STANDARDSTANDARD	0.59	15" RCP (IN)	2.09 (E) 15" RCP
S−79	N:654659.69 E:943752.90	MANHOLE, 48" ø	6.68	STANDARD STANDARDSTANDARD	−2.93	18" RCP (OUT) 15" RCP (OUT) 18" RCP (IN) 18" RCP (IN)	−0.93 (S) 18" RCP 2.09 (W) 15" RCP −1.43 (E) 18" RCP 0.93 (N) 18" RCP
S−80	N:654646.73 E:943786.64	MANHOLE, 48" ø	6.72	STANDARD STANDARDSTANDARD	−3.43	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 18" RCP (IN)	−1.43 (W) 18" RCP 2.02 (S) 15" RCP 2.03 (N) 15" RCP 2.06 (E) 18" RCP
S−81	N:654637.23 E:943786.40	CATCH BASIN, TYPE 'C'	6.64	USF 4155 FRAME USF 6209 GRATE	0.52	15" RCP (OUT)	2.02 (N) 15" RCP
S−82	N:654666.29 E:943789.29	CATCH BASIN, TYPE 'C'	6.36	USF 4155 FRAME USF 6209 GRATE	0.53	15" RCP (OUT)	2.03 (S) 15" RCP
S−83	N:654943.24 E:943746.50	MANHOLE, 48" ø	7.48	STANDARD STANDARDSTANDARD	−1.07	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 18" RCP (IN)	0.93 (S) 18" RCP 1.42 (E) 15" RCP 2.77 (W) 15" RCP 2.80 (N) 18" RCP
S−84	N:654946.38 E:943758.29	CATCH BASIN, TYPE 'C'	7.23	USF 4155 FRAME USF 6209 GRATE	−0.08	15" RCP (OUT)	1.42 (W) 15" RCP
S−85	N:654938.04 E:943731.71	CATCH BASIN, TYPE 'C'	7.14	USF 4155 FRAME USF 6209 GRATE	1.27	15" RCP (OUT)	2.77 (E) 15" RCP
S−86	N:655309.64 E:943738.24	MANHOLE, 48" ø	8.62	STANDARD STANDARDSTANDARD	0.11	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	2.80 (S) 18" RCP 2.11 (E) 15" RCP 3.56 (W) 15" RCP
S−87	N:655309.96 E:943749.96	CATCH BASIN, TYPE 'C'	8.08	USF 4155 FRAME USF 6209 GRATE	0.61	15" RCP (OUT)	2.11 (W) 15" RCP
S−88	N:655308.89 E:943716.23	CATCH BASIN, TYPE 'C'	8.30	USF 4155 FRAME USF 6209 GRATE	2.06	15" RCP (OUT)	3.56 (E) 15" RCP
S−89	N:654652.92 E:944002.97	MANHOLE, 48" ø	9.25	STANDARD STANDARDSTANDARD	0.06	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	2.06 (W) 18" RCP 4.88 (N) 15" RCP 4.66 (SW) 15" RCP
S−90	N:654673.33 E:944002.14	CATCH BASIN, TYPE 'C'	9.31	USF 4155 FRAME USF 6209 GRATE	3.38	15" RCP (OUT)	4.88 (S) 15" RCP
S−91	N:654643.46 E:943998.66	CATCH BASIN, TYPE 'C'	9.07	USF 4155 FRAME USF 6209 GRATE	3.16	15" RCP (OUT)	4.66 (NE) 15" RCP
S−92	N:654671.43 E:944310.50	MANHOLE, 48" ø	3.94	STANDARD STANDARDSTANDARD	−4.96	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−3.46 (E) 18" RCP −0.50 (N) 15" RCP −1.41 (S) 15" RCP
S−93	N:654650.31 E:944311.81	CATCH BASIN, TYPE 'C'	3.67	USF 4155 FRAME USF 6209 GRATE	−2.91	15" RCP (OUT)	−1.41 (N) 15" RCP
S−94	N:654683.09 E:944309.95	CATCH BASIN, TYPE 'C'	4.37	USF 4155 FRAME USF 6209 GRATE	−2.00	15" RCP (OUT)	−0.50 (S) 15" RCP
S−95	N:654679.88 E:944598.07	MANHOLE, 60" ø	2.00	STANDARD STANDARDSTANDARD	−7.73	36" RCP (OUT) 15" RCP (IN) 24" RCP (OUT)	−4.65 (E) 36" RCP −2.86 (N) 15" RCP −6.23 (S) 24" RCP

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
						18" RCP (IN)	−3.46 (W) 18" RCP
S−96	N:654694.38 E:944603.36	CATCH BASIN, 48" ø	1.44	STANDARD STANDARDSTANDARD	−4.69	15" RCP (OUT) 15" RCP (IN) 8" RCP (IN)	−2.86 (S) 15" RCP −3.19 (W) 15" RCP −0.57 (N) 8" DIP
S−97	N:654696.84 E:944558.14	CATCH BASIN, 48" ø	1.84	STANDARD STANDARDSTANDARD	−4.69	15" RCP (OUT)	−3.19 (E) 15" RCP
S−98	N:654645.91 E:944585.91	CATCH BASIN, 48" ø	1.37	STANDARD STANDARDSTANDARD	−7.73	24" RCP (OUT) 24" RCP (IN)	−3.84 (W) 24" RCP −6.23 (N) 24" RCP
S−99	N:654645.52 E:944571.47	MANHOLE, 48" ø	1.61	STANDARD STANDARDSTANDARD	−5.34	24" RCP (IN) 24" RCP (IN) 15" RCP (IN)	−3.81 (S) 24" RCP −3.84 (E) 24" RCP −2.75 (W) 15" RCP
S−100	N:654644.82 E:944545.77	CATCH BASIN, 48" ø	2.28	STANDARD STANDARDSTANDARD	−4.25	15" RCP (OUT)	−2.75 (E) 15" RCP
S−101	N:654688.11 E:944878.39	MANHOLE, 60" ø	1.71	STANDARD STANDARDSTANDARD	−6.24	36" RCP (IN) 36" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−4.65 (W) 36" RCP −4.74 (E) 36" RCP −2.86 (N) 15" RCP −4.59 (S) 15" RCP
S−102	N:654665.63 E:944879.03	CATCH BASIN, TYPE 'C'	1.77	USF 4155 FRAME USF 6209 GRATE	−6.09	15" RCP (OUT)	−4.59 (N) 15" RCP
S−103	N:654696.52 E:944878.15	CATCH BASIN, TYPE 'C'	1.44	USF 4155 FRAME USF 6209 GRATE	−4.36	15" RCP (OUT)	−2.86 (S) 15" RCP
S−104	N:654691.67 E:944982.57	MANHOLE, 5'X5'	1.39	STANDARD STANDARDSTANDARD	−8.18	36" RCP (IN) 36" RCP (IN) 42" RCP (OUT)	−4.74 (W) 36" RCP −6.68 (N) 36" RCP −5.47 (E) 42" RCP
S−105	N:654669.23 E:945010.51	CATCH BASIN, TYPE 'C'	1.58	USF 4155 FRAME USF 6209 GRATE	−4.89	15" RCP (OUT)	−3.39 (E) 15" RCP
S−106	N:654670.71 E:945077.54	CATCH BASIN, 24" ø	1.59	STANDARD STANDARDSTANDARD	−4.89	15" RCP (IN) 15" RCP (OUT)	−3.39 (W) 15" RCP −2.90 (N) 15" RCP
S−107	N:654726.59 E:944981.81	MANHOLE, 60" ø	1.58	STANDARD STANDARDSTANDARD	−8.18	36" RCP (IN) 36" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−6.33 (N) 36" RCP −6.68 (S) 36" RCP −3.88 (E) 15" RCP −3.52 (W) 15" RCP
S−108	N:654727.09 E:944968.68	CURB INLRT	1.24	STANDARD STANDARDSTANDARD	−5.02	15" RCP (OUT)	−3.52 (E) 15" RCP
S−109	N:654725.94 E:945004.43	CURB INLET	0.89	STANDARD STANDARDSTANDARD	−5.38	15" RCP (OUT)	−3.88 (W) 15" RCP
S−110	N:654856.12 E:944976.79	MANHOLE, 60" ø	1.81	STANDARD STANDARDSTANDARD	−7.91	36" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 36" RCP (IN)	−6.33 (S) 36" RCP −3.03 (E) 15" RCP −3.02 (W) 15" RCP −6.41 (N) 36" RCP
S−111	N:654863.67 E:944999.09	CURB INLET	1.38	STANDARD STANDARDSTANDARD	−4.53	15" RCP (OUT)	−3.03 (W) 15" RCP
S−112	N:654855.01 E:944936.84	MANHOLE, 48" ø	1.46	STANDARD STANDARDSTANDARD	−5.83	15" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−3.02 (E) 15" RCP −4.33 (N) 15" RCP −3.47 (S) 15" RCP
S−113	N:654873.72 E:944936.87	CATCH BASIN, TYPE 'C'	1.62	USF 4155 FRAME USF 6209 GRATE	−5.83	15" RCP (OUT)	−4.33 (S) 15" RCP
S−114	N:654842.75 E:944936.82	CATCH BASIN, TYPE 'C'	1.61	USF 4155 FRAME USF 6209 GRATE	−4.97	15" RCP (OUT)	−3.47 (N) 15" RCP
S−115	N:654938.27 E:944974.68	MANHOLE, 48" ø	1.90	STANDARD STANDARDSTANDARD	−7.91	15" RCP (IN) 36" RCP (OUT) 36" RCP (OUT)	−2.76 (W) 15" RCP −6.41 (S) 36" RCP −4.66 (N) 36" RCP
S−116	N:654937.79 E:944963.21	CATCH BASIN, 48" ø	1.52	STANDARD STANDARDSTANDARD	−4.26	15" RCP (OUT)	−2.76 (E) 15" RCP
S−117	N:655115.67 E:944969.87	MANHOLE, 60" ø	1.82	STANDARD STANDARDSTANDARD	−6.28	15" RCP (IN) 18" RCP (IN) 36" RCP (IN) 24" RCP (IN)	−3.35 (W) 15" RCP −3.30 (E) 18" RCP −4.66 (S) 36" RCP −4.78 (N) 24" RCP
S−118	N:655116.35 E:944991.08	CURB INLET	1.80	STANDARD STANDARDSTANDARD	−4.80	18" RCP (OUT) 18" RCP (OUT)	−3.30 (W) 18" RCP −3.50 (SE) 18" RCP
S−119	N:655115.24 E:944955.79	CATCH BASIN, 48" ø	1.65	STANDARD STANDARDSTANDARD	−4.85	15" RCP (OUT)	−3.35 (E) 15" RCP
S−120	N:655204.02 E:944966.79	MANHOLE, 48" ø	2.11	STANDARD STANDARDSTANDARD	−6.55	24" RCP (OUT) 15" RCP (IN) 24" RCP (IN)	−4.78 (S) 24" RCP −3.12 (W) 15" RCP −5.05 (N) 24" RCP
S−121	N:655203.33 E:944928.22	MANHOLE, 48" ø	1.51	STANDARD STANDARDSTANDARD	−6.17	15" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	−3.12 (E) 15" RCP −4.67 (S) 15" RCP −4.25 (N) 15" RCP
S−122	N:655192.46 E:944927.11	CATCH BASIN, TYPE 'C'	1.49	USF 4155 FRAME USF 6209 GRATE	−6.17	15" RCP (OUT)	−4.67 (N) 15" RCP
S−123	N:655221.67 E:944927.73	CATCH BASIN, TYPE 'C'	1.29	USF 4155 FRAME USF 6209 GRATE	−5.75	15" RCP (OUT)	−4.25 (S) 15" RCP
S−124	N:655290.40 E:944965.76	MANHOLE, 48" ø	2.02	STANDARD STANDARDSTANDARD	−6.55	15" RCP (OUT) 24" RCP (OUT) 24" RCP (OUT)	−2.25 (W) 15" RCP −5.05 (S) 24" RCP −3.23 (N) 24" RCP
S−125	N:655290.33 E:944953.11	CURB INLET	1.78	STANDARD STANDARDSTANDARD	−3.75	15" RCP (IN)	−2.25 (E) 15" RCP
S−128	N:655429.01 E:944968.86	MANHOLE, 48" ø	2.15	STANDARD STANDARDSTANDARD	−5.20	15" RCP (IN) 18" RCP (IN) 24" RCP (IN) 24" RCP (IN)	−2.30 (W) 15" RCP −2.26 (E) 18" RCP −3.70 (N) 24" RCP −3.23 (S) 24" RCP
						18" RCP (OUT)	−2.26 (W) 18" RCP

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SUMMARY OF STORM DRAIN STRUCTURES

SHEET NO. SD-59
SHT # 90
TOTAL: 233
CAD FILE: 12082−MULTI−STRC
DRAWING FILE NO. 4−144−88

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-129	N:655427.33 E:944999.10	CURB INLET	1.97	STANDARD STANDARDSTANDARD	-4.80	18" RCP (OUT)	-2.26 (W) 18" RCP -3.30 (S) 18" RCP
S-130	N:655429.84 E:944953.84	CURB INLET	1.81	STANDARD STANDARDSTANDARD	-3.80	15" RCP (OUT)	-2.30 (E) 15" RCP
S-131	N:655499.71 E:944972.95	MANHOLE, 48" ø	2.28	STANDARD STANDARDSTANDARD	-5.20	24" RCP (OUT) 24" RCP (IN) 15" RCP (IN)	-3.70 (S) 24" RCP -3.17 (N) 24" RCP -2.86 (W) 15" RCP
S-132	N:655500.21 E:944956.63	CURB INLET	2.25	STANDARD STANDARDSTANDARD	-4.36	15" RCP (OUT)	-2.86 (E) 15" RCP
S-133	N:655702.62 E:944983.71	MANHOLE, 48" ø	2.47	STANDARD STANDARDSTANDARD	-4.67	15" RCP (IN) 18" RCP (OUT) 24" RCP (OUT) 18" RCP (IN)	-2.79 (W) 15" RCP -2.89 (E) 18" RCP -3.17 (S) 24" RCP -2.39 (N) 18" RCP
S-134	N:655701.48 E:945012.77	OUTFALL STRUCTURE 60" MANHOLE	1.83	STANDARD STANDARDSTANDARD	-4.39	18" RCP (IN) 18" RCP (OUT) 16" RCP (OUT)	-2.89 (W) 18" RCP -2.89 (E) 18" RCP -2.72 (N) 15" HDPE
S-135	N:655703.50 E:944968.46	CURB INLET	2.40	STANDARD STANDARDSTANDARD	-4.29	15" RCP (OUT)	-2.79 (E) 15" RCP
S-136	N:655888.71 E:944991.78	MANHOLE, 48" ø	3.41	STANDARD STANDARDSTANDARD	-5.61	18" RCP (OUT) 15" RCP (IN) 18" RCP (OUT)	-2.39 (S) 18" RCP -1.53 (W) 15" RCP -4.11 (E) 18" RCP
S-137	N:655888.76 E:944978.56	CURB INLET	3.12	STANDARD STANDARDSTANDARD	-3.03	15" RCP (OUT)	-1.53 (E) 15" RCP
S-138	N:655952.90 E:945012.14	MANHOLE, 48" ø	3.62	STANDARD STANDARDSTANDARD	-5.36	18" RCP (OUT) 18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	-1.26 (S) 18" RCP -1.97 (E) 18" RCP -3.86 (W) 15" RCP -1.04 (N) 18" RCP
S-139	N:655949.90 E:944981.43	CURB INLET	3.02	STANDARD STANDARDSTANDARD	-5.36	15" RCP (OUT)	-3.86 (E) 15" RCP
S-140	N:655955.95 E:945030.15	CURB INLET	2.85	STANDARD STANDARDSTANDARD	-3.47	18" RCP (IN) 18" RCP (OUT)	-1.97 (W) 18" RCP -0.83 (E) 18" RCP
S-141	N:653955.10 E:941796.10	MANHOLE, 48" ø	7.29	STANDARD STANDARDSTANDARD	-4.24	23" RCP (OUT) 23" RCP (IN)	-2.74 (W) 23"X14" RCP 2.77 (E) 23"X14" RCP
S-142	N:656167.50 E:944992.52	CURB INLET	3.86	STANDARD STANDARDSTANDARD	-1.04	15" RCP (OUT)	0.46 (SE) 23"X14" RCP
S-143	N:656147.38 E:945022.42	MANHOLE, 48" ø	3.96	STANDARD STANDARDSTANDARD	-2.54	15" RCP (IN) 18" RCP (OUT) 18" RCP (OUT)	0.46 (NW) 23"X14" RCP -0.79 (N) 18" RCP -1.04 (S) 18" RCP
S-144	N:656251.01 E:945027.33	MANHOLE, 48" ø	4.35	STANDARD STANDARDSTANDARD	-4.45	18" RCP (IN) 15" RCP (IN) 15" RCP (OUT)	-0.79 (S) 18" RCP -2.95 (W) 15" RCP -0.53 (E) 15" RCP
S-145	N:656246.32 E:944996.18	CURB INLET	4.16	STANDARD STANDARDSTANDARD	-4.45	15" RCP (OUT)	-2.95 (E) 15" RCP
S-146	N:656253.99 E:945045.39	CURB INLET	3.65	STANDARD STANDARDSTANDARD	-2.03	15" RCP (IN)	-0.53 (W) 15" RCP
S-147	N:656344.16 E:945054.56	OUTFALL STRUCTURE 60" MANHOLE	3.74	STANDARD STANDARDSTANDARD	-2.34	18" RCP (IN) 18" RCP (OUT) 18" RCP (OUT)	-0.83 (NW) 18" RCP -0.84 (S) 18" RCP -0.82 (E) 18" RCP
S-149	N:656328.67 E:945056.75	CURB INLET	3.67	STANDARD STANDARDSTANDARD	-2.34	18" RCP (IN)	-0.84 (N) 18" RCP
S-150	N:652935.58 E:943823.06	MANHOLE, 48" ø	2.84	STANDARD STANDARDSTANDARD	-4.89	15" RCP (OUT) 18" RCP (OUT) 15" RCP (IN)	-3.39 (W) 15" RCP -2.37 (N) 18" RCP -2.95 (E) 15" RCP
S-151	N:652931.74 E:943839.43	CATCH BASIN, 48" ø	2.53	STANDARD STANDARDSTANDARD	-4.45	15" RCP (OUT)	-2.95 (W) 15" RCP
S-152	N:652939.16 E:943807.85	CATCH BASIN, 48" ø	3.13	STANDARD STANDARDSTANDARD	-4.89	15" RCP (IN)	-3.39 (E) 15" RCP
S-153	N:653202.24 E:943888.26	MANHOLE, 48" ø	2.38	STANDARD STANDARDSTANDARD	-5.50	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 18" RCP (IN)	-4.00 (N) 18" RCP -2.06 (E) 15" RCP -3.66 (W) 15" RCP -2.37 (S) 18" RCP
S-154	N:653200.82 E:943897.37	CATCH BASIN, TYPE 'C'	2.33	USF 4155 FRAME USF 6209 GRATE	-3.56	15" RCP (OUT)	-2.06 (W) 15" RCP
S-155	N:653207.06 E:943869.48	CATCH BASIN, TYPE 'C'	2.86	USF 4155 FRAME USF 6209 GRATE	-5.16	15" RCP (OUT)	-3.66 (E) 15" RCP
S-156	N:653438.14 E:943944.57	MANHOLE, 48" ø	2.83	STANDARD STANDARDSTANDARD	-5.50	18" RCP (IN) 18" RCP (OUT)	-4.00 (S) 18" RCP -2.33 (N) 18" RCP
S-157	N:653710.54 E:944009.54	MANHOLE, 48" ø	3.23	STANDARD STANDARDSTANDARD	-6.69	15" RCP (IN) 18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	-5.19 (W) 15" RCP -1.50 (N) 18" RCP -1.46 (E) 15" RCP -2.33 (S) 18" RCP
S-158	N:653707.83 E:944019.48	CATCH BASIN, TYPE 'C'	3.03	USF 4155 FRAME USF 6209 GRATE	-2.96	15" RCP (OUT)	-1.46 (W) 15" RCP
S-159	N:653715.05 E:943991.42	CATCH BASIN, TYPE 'C'	2.89	USF 4155 FRAME USF 6209 GRATE	-6.69	15" RCP (OUT)	-5.19 (E) 15" RCP
S-160	N:653958.33 E:944069.35	MANHOLE, 48" ø	3.49	STANDARD STANDARDSTANDARD	-5.32	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 23" RCP (IN)	-1.18 (N) 18" RCP -3.82 (E) 15" RCP 0.12 (W) 15" RCP -0.47 (S) 23"X14" RCP
S-161	N:653956.55 E:944079.79	CATCH BASIN, TYPE 'C'	3.06	USF 4155 FRAME USF 6209 GRATE	-5.32	15" RCP (OUT)	-3.82 (W) 15" RCP

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-162	N:653961.88 E:944045.19	CATCH BASIN, 48" ø	3.83	STANDARD STANDARDSTANDARD	-1.38	15" RCP (OUT)	0.12 (E) 15" RCP
S-163	N:654159.18 E:944116.70	MANHOLE, 48" ø	3.78	STANDARD STANDARDSTANDARD	-2.68	18" RCP (OUT) 18" RCP (IN) 18" RCP (IN)	-1.02 (E) 18" RCP -1.18 (S) 18" RCP -0.57 (NW) 18" RCP
S-164	N:654172.64 E:944094.55	CATCH BASIN, 48" ø	4.45	STANDARD STANDARDSTANDARD	-2.07	18" RCP (OUT)	-0.57 (SE) 18" RCP
S-165	N:654158.40 E:944143.37	CATCH BASIN, 48" ø	3.46	STANDARD STANDARDSTANDARD	-4.42	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	-1.02 (W) 18" RCP -2.03 (E) 18" RCP -2.92 (N) 15" RCP
S-166	N:654194.28 E:944141.89	CATCH BASIN, TYPE 'C'	3.54	??? ??????	-4.42	15" RCP (OUT)	-2.92 (S) 15" RCP
S-167	N:654164.60 E:944243.35	MANHOLE, 48" ø	2.73	STANDARD STANDARDSTANDARD	-6.91	18" RCP (OUT) 18" RCP (IN)	-5.41 (NE) 18" RCP -2.03 (W) 18" RCP
S-168	N:654178.23 E:944253.92	MANHOLE, 48" ø	2.87	STANDARD STANDARDSTANDARD	-6.91	18" RCP (OUT) 18" RCP (IN)	-3.09 (E) 18" RCP -5.41 (SW) 18" RCP
S-169	N:654179.98 E:944302.10	MANHOLE, 48" ø	2.46	STANDARD STANDARDSTANDARD	-5.30	24" RCP (OUT) 18" RCP (IN) 15" RCP (OUT)	-3.80 (E) 24" RCP -3.09 (W) 18" RCP -2.04 (N) 15" RCP
S-170	N:654207.15 E:944301.44	CATCH BASIN, 48" ø	2.51	STANDARD STANDARDSTANDARD	-5.35	15" RCP (IN) 15" RCP (IN)	-3.85 (W) 15" RCP -2.04 (S) 15" RCP
S-171	N:654206.12 E:944263.39	CATCH BASIN, 48" ø	2.89	STANDARD STANDARDSTANDARD	-5.35	15" RCP (OUT)	-3.85 (E) 15" RCP
S-172	N:654180.69 E:944521.45	MANHOLE, 48" ø	1.54	STANDARD STANDARDSTANDARD	-8.89	15" RCP (OUT) 24" RCP (IN) 24" RCP (OUT) 18" RCP (IN)	-7.39 (N) 15" RCP -3.80 (W) 24" RCP -3.75 (E) 24" RCP -2.61 (S) 18" RCP
S-173	N:654203.76 E:944521.33	CATCH BASIN, TYPE 'C'	1.53	STANDARD STANDARDSTANDARD	-8.89	15" RCP (IN)	-7.39 (S) 15" RCP
S-174	N:654180.82 E:944559.22	MANHOLE, 48" ø	1.59	STANDARD STANDARDSTANDARD	-5.25	24" RCP (IN) 24" RCP (OUT)	-3.75 (W) 24" RCP -3.71 (N) 24" RCP
S-175	N:654220.73 E:944559.09	CATCH BASIN, 48" ø	1.21	STANDARD STANDARDSTANDARD	-7.48	24" RCP (OUT) 24" RCP (IN)	-5.98 (E) 24" RCP -3.71 (S) 24" RCP
S-176	N:654220.67 E:944599.45	MANHOLE, 48" ø	1.41	STANDARD STANDARDSTANDARD	-7.48	15" RCP (OUT) 24" RCP (OUT) 24" RCP (IN)	-3.13 (S) 15" RCP -4.28 (N) 24" RCP -5.98 (W) 24" RCP
S-177	N:654193.47 E:944604.46	CATCH BASIN, 48" ø	2.40	STANDARD STANDARDSTANDARD	-4.63	15" RCP (IN) 10" RCP (OUT) 12" RCP (OUT)	-3.13 (N) 15" RCP -2.62 (S) 10" SD -2.62 (S) 12" DIP
S-178	N:654263.57 E:944597.90	CATCH BASIN, 48" ø	1.14	STANDARD STANDARDSTANDARD	-5.88	24" RCP (IN) 24" RCP (IN)	-4.38 (N) 24" RCP -4.28 (S) 24" RCP
S-179	N:654394.64 E:944591.22	CATCH BASIN, 48" ø	1.16	STANDARD STANDARDSTANDARD	-6.83	24" RCP (OUT) 24" RCP (OUT)	-5.33 (W) 24" RCP -4.38 (S) 24" RCP
S-180	N:654394.74 E:944578.20	MANHOLE, 48" ø	1.32	STANDARD STANDARDSTANDARD	-6.83	24" RCP (OUT) 24" RCP (IN) 15" RCP (IN)	-3.81 (N) 24" RCP -5.33 (E) 24" RCP -3.31 (W) 15" RCP
S-181	N:654394.70 E:944558.78	CATCH BASIN, 48" ø	0.95	STANDARD STANDARDSTANDARD	-4.81	15" RCP (OUT)	-3.31 (E) 15" RCP
S-182	N:653637.27 E:942786.39	MANHOLE, 48" ø	7.23	STANDARD STANDARDSTANDARD	-0.93	18" RCP (IN) 15" RCP (OUT)	1.92 (E) 18" RCP 0.57 (N) 15" RCP
S-183	N:653658.13 E:942785.84	CATCH BASIN, TYPE 'C'	6.99	USF 4155 FRAME USF 6209 GRATE	-0.93	15" RCP (IN)	0.57 (S) 15" RCP
S-184	N:654292.50 E:943415.60	MANHOLE, 48" ø	5.97	STANDARD STANDARDSTANDARD	-2.93	15" RCP (IN) 15" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	0.20 (W) 15" RCP -0.93 (E) 15" RCP 0.99 (S) 18" RCP 1.18 (N) 18" RCP
S-185	N:654292.79 E:943426.16	CATCH BASIN, TYPE 'C'	5.46	USF 4155 FRAME USF 6209 GRATE	-2.43	15" RCP (OUT)	-0.93 (W) 15" RCP
S-186	N:654291.94 E:943399.29	CATCH BASIN, TYPE 'C'	5.92	USF 4155 FRAME USF 6209 GRATE	-1.30	15" RCP (OUT)	0.20 (E) 15" RCP
S-187	N:654557.50 E:943408.32	MANHOLE, 48" ø	7.72	STANDARD STANDARDSTANDARD	-3.00	18" RCP (OUT) 15" RCP (IN) 15" RCP (OUT)	1.18 (S) 18" RCP -1.00 (W) 15" RCP -0.66 (E) 15" RCP
S-188	N:654557.77 E:943417.54	CATCH BASIN, TYPE 'C'	7.87	USF 4155 FRAME USF 6209 GRATE	-2.16	15" RCP (IN)	-0.66 (W) 15" RCP
S-189	N:654556.97 E:943390.06	CATCH BASIN, TYPE 'C'	7.57	USF 4155 FRAME USF 6209 GRATE	-2.50	15" RCP (OUT)	-1.00 (E) 15" RCP
S-190	N:654238.94 E:942083.48	MANHOLE, 48" ø	8.68	STANDARD STANDARDSTANDARD	0.10	18" RCP (IN) 18" RCP (OUT) 15" RCP (OUT)	2.10 (N) 18" RCP 2.99 (S) 18" RCP 4.07 (E) 15" RCP
S-191	N:654238.20 E:942094.92	CATCH BASIN, TYPE 'C'	8.58	USF 4155 FRAME USF 6209 GRATE	2.57	15" RCP (IN)	4.07 (W) 15" RCP
S-192	N:654318.57 E:942081.33	MANHOLE, 48" ø	8.74	STANDARD STANDARDSTANDARD	0.10	18" RCP (IN) 18" RCP (OUT) 15" RCP (OUT)	3.70 (N) 18" RCP 2.10 (S) 18" RCP 4.21 (E) 15" RCP
S-193	N:654318.83 E:942088.97	CATCH BASIN, TYPE 'C'	8.64	USF 4155 FRAME USF 6209 GRATE	2.71	15" RCP (IN)	4.21 (W) 15" RCP
S-194	N:654548.98 E:942079.54	MANHOLE, 48" ø	8.64	STANDARD STANDARDSTANDARD	0.18	18" RCP (OUT) 18" RCP (IN)	3.70 (S) 18" RCP 2.18 (NE) 18" RCP
S-195	N:654579.57 E:942100.21	CATCH BASIN, 48" ø	8.39	STANDARD STANDARDSTANDARD	0.68	18" RCP (OUT) 23" RCP (OUT)	2.18 (SW) 18" RCP 4.64 (N) 23"X14" RCP

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SUMMARY OF STORM DRAIN STRUCTURES

SHEET NO. SD-60
SHT # 91
TOTAL: 233
CAD FILE: 12082-MULTI-STRC
DRAWING FILE NO. 4-144-88

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-196	N:654620.66 E:942113.55	CATCH BASIN, 48" ø	8.09	STANDARD STANDARDSTANDARD	0.31	18" RCP (OUT) 23" RCP (IN)	1.81 (W) 18" RCP 4.64 (S) 23"X14" RCP
S-197	N:654621.49 E:942085.14	MANHOLE, 48" ø	8.45	STANDARD STANDARDSTANDARD	0.31	18" RCP (IN) 18" RCP (IN)	2.45 (N) 18" RCP 1.81 (E) 18" RCP
S-198	N:654952.81 E:942074.42	MANHOLE, 48" ø	7.58	STANDARD STANDARDSTANDARD	0.45	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	2.45 (N) 18" RCP 2.45 (S) 18" RCP 2.86 (E) 15" RCP 3.03 (W) 15" RCP
S-199	N:654955.16 E:942093.80	CATCH BASIN, TYPE 'C'	7.75	USF 4155 FRAME USF 6209 GRATE	1.36	15" RCP (OUT)	2.86 (W) 15" RCP
S-200	N:654952.89 E:942061.55	CATCH BASIN, TYPE 'C'	7.58	USF 4155 FRAME USF 6209 GRATE	1.53	15" RCP (OUT)	3.03 (E) 15" RCP
S-201	N:655225.61 E:942064.71	MANHOLE, 48" ø	7.19	STANDARD STANDARDSTANDARD	0.45	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	2.45 (S) 18" RCP 2.52 (W) 15" RCP 2.72 (E) 18" RCP
S-202	N:655222.35 E:942017.88	CATCH BASIN, 48" ø	7.02	STANDARD STANDARDSTANDARD	1.00	15" RCP (OUT) 15" RCP (IN)	2.52 (E) 15" RCP 2.50 (N) 15" RCP
S-203	N:655253.58 E:942015.21	CATCH BASIN, TYPE 'C'	6.83	USF 4155 FRAME USF 6168 GRATE	1.00	15" RCP (OUT)	2.50 (S) 15" RCP
S-204	N:655225.69 E:942075.36	MANHOLE, 48" ø	7.46	STANDARD STANDARDSTANDARD	0.77	18" RCP (OUT) 18" RCP (IN)	2.72 (W) 18" RCP 2.27 (N) 18" RCP
S-205	N:655291.09 E:942073.05	MANHOLE, 48" ø	6.98	STANDARD STANDARDSTANDARD	−0.90	18" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	2.26 (N) 18" RCP 2.27 (S) 18" RCP 1.10 (E) 18" RCP
S-206	N:655292.66 E:942111.21	MANHOLE, 48" ø	7.04	STANDARD STANDARDSTANDARD	−0.90	15" RCP (OUT) 18" RCP (OUT) 18" RCP (IN)	2.13 (S) 15" RCP 1.10 (W) 18" RCP 2.40 (E) 18" RCP
S-207	N:655263.84 E:942112.37	CATCH BASIN, TYPE 'C'	6.84	USF 5130 FRAME USF 6168 GRATE	0.63	15" RCP (IN)	2.13 (N) 15" RCP
S-208	N:655567.12 E:942063.32	MANHOLE, 48" ø	7.06	STANDARD STANDARDSTANDARD	−1.28	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	1.96 (N) 18" RCP 2.26 (S) 18" RCP 2.17 (W) 15" RCP 0.72 (E) 15" RCP
S-209	N:655568.36 E:942075.28	CATCH BASIN, TYPE 'C'	7.10	USF 4155 FRAME USF 6209 GRATE	−0.78	15" RCP (OUT)	0.72 (W) 15" RCP
S-210	N:655564.21 E:942037.09	CATCH BASIN, TYPE 'C'	7.03	USF 4155 FRAME USF 6209 GRATE	0.67	15" RCP (OUT)	2.17 (E) 15" RCP
S-211	N:655857.35 E:942053.09	MANHOLE, 48" ø	6.69	STANDARD STANDARDSTANDARD	−1.66	18" RCP (IN) 18" RCP (OUT)	−0.16 (N) 18" RCP 1.96 (S) 18" RCP
S-212	N:655882.70 E:942052.20	MANHOLE, 48" ø	6.60	STANDARD STANDARDSTANDARD	−2.27	18" RCP (OUT) 18" RCP (IN) 18" RCP (IN) 15" RCP (IN)	−0.16 (S) 18" RCP 1.72 (NW) 18" RCP 1.61 (W) 18" RCP −0.27 (E) 15" RCP
S-213	N:655884.09 E:942086.92	MANHOLE, 48" ø	6.80	STANDARD STANDARDSTANDARD	−1.77	15" RCP (OUT) 15" RCP (IN)	−0.27 (W) 15" RCP 0.17 (S) 15" RCP
S-214	N:655865.45 E:942087.55	CATCH BASIN, 48" ø	6.49	USF 4155 FRAME USF 6209 GRATE	−1.33	15" RCP (OUT)	0.17 (N) 15" RCP
S-215	N:655881.10 E:941968.03	MANHOLE, 48" ø	6.31	STANDARD STANDARDSTANDARD	−0.08	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	1.61 (E) 18" RCP 1.48 (S) 15" RCP 1.42 (N) 15" RCP
S-216	N:655910.49 E:942033.52	MANHOLE, 48" ø	6.40	STANDARD STANDARDSTANDARD	−0.64	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	0.86 (N) 18" RCP 1.78 (W) 15" RCP 1.72 (SE) 18" RCP
S-217	N:655910.27 E:942021.01	CATCH BASIN, 48" ø	6.26	STANDARD STANDARDSTANDARD	0.28	15" RCP (OUT)	1.78 (E) 15" RCP
S-218	N:656192.87 E:942027.39	MANHOLE, 48" ø	5.64	STANDARD STANDARDSTANDARD	−0.64	18" RCP (OUT)	0.86 (S) 18" RCP
S-219	N:655959.69 E:941707.13	CATCH BASIN, 48" ø	5.00	USF 4155 FRAME USF 6209 GRATE	−1.28	18" RCP (OUT)	0.22 (S) 18" RCP
S-220	N:655891.05 E:941710.07	CATCH BASIN, 48" ø	5.00	STANDARD STANDARDSTANDARD	−4.44	18" RCP (IN) 15" RCP (IN)	0.22 (N) 18" RCP −2.94 (E) 15" RCP
S-221	N:655887.21 E:941752.29	CATCH BASIN, 48" ø	5.23	STANDARD STANDARDSTANDARD	−4.44	15" RCP (OUT) 15" RCP (OUT)	0.59 (E) 15" RCP −2.94 (W) 15" RCP
S-222	N:655302.96 E:942361.28	MANHOLE, 48" ø	7.35	STANDARD STANDARDSTANDARD	−1.10	18" RCP (OUT) 18" RCP (IN) 15" RCP (OUT)	2.40 (W) 18" RCP 0.90 (E) 18" RCP 2.53 (N) 15" RCP
S-223	N:655314.85 E:942360.83	CATCH BASIN, TYPE 'C'	7.08	USF 4155 FRAME USF 6209 GRATE	1.03	15" RCP (IN)	2.53 (S) 15" RCP
S-224	N:655303.72 E:942433.17	MANHOLE, 48" ø	7.05	STANDARD STANDARDSTANDARD	−4.75	23" RCP (OUT) 18" RCP (IN) 15" RCP (IN) 15" RCP (IN)	−2.75 (W) 23"X14" RCP 1.80 (E) 18" RCP 0.51 (S) 15" RCP 2.34 (N) 15" RCP
S-225	N:655311.59 E:942432.28	CATCH BASIN, TYPE 'C'	6.76	USF 4155 FRAME USF 6209 GRATE	0.84	15" RCP (OUT)	2.34 (S) 15" RCP
S-226	N:655274.93 E:942437.06	CATCH BASIN, 48" ø	6.86	STANDARD STANDARDSTANDARD	−0.99	15" RCP (OUT)	0.51 (N) 15" RCP
S-227	N:655271.76 E:942407.63	MANHOLE, 48" ø	7.25	STANDARD STANDARDSTANDARD	−1.01	18" RCP (OUT) 18" RCP (OUT) 15" RCP (OUT)	2.54 (S) 18" RCP 0.49 (N) 18" RCP 2.59 (W) 15" RCP
S-228	N:655270.17 E:942392.84	CATCH BASIN, TYPE 'C'	7.10	USF 4155 FRAME USF 6209 GRATE	1.09	15" RCP (IN)	2.59 (E) 15" RCP

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-229	N:655156.41 E:942418.69	MANHOLE, 48" ø	7.23	STANDARD STANDARDSTANDARD	0.85	18" RCP (IN) 18" RCP (OUT)	2.54 (N) 18" RCP 2.35 (W) 18" RCP
S-230	N:655156.31 E:942403.32	CATCH BASIN, 48" ø	7.16	STANDARD STANDARDSTANDARD	0.64	18" RCP (IN) 18" RCP (OUT)	2.35 (E) 18" RCP 2.14 (S) 18" RCP
S-231	N:655022.71 E:942407.44	CATCH BASIN, 48" ø	6.72	STANDARD STANDARDSTANDARD	−0.65	15" RCP (OUT) 18" RCP (IN)	0.85 (E) 15" RCP 2.14 (N) 18" RCP
S-232	N:655022.47 E:942440.26	CATCH BASIN, TYPE 'C'	7.04	USF 4155 FRAME USF 6209 GRATE	−0.65	15" RCP (IN)	0.85 (W) 15" RCP
S-233	N:655313.54 E:942663.94	MANHOLE, 48" ø	6.61	STANDARD STANDARDSTANDARD	−0.20	18" RCP (OUT) 15" RCP (IN) 18" RCP (IN)	1.80 (W) 18" RCP 1.94 (N) 15" RCP 2.01 (E) 18" RCP
S-234	N:655324.53 E:942663.51	CATCH BASIN, TYPE 'C'	6.12	USF 4155 FRAME USF 6209 GRATE	0.44	15" RCP (OUT)	1.94 (S) 15" RCP
S-235	N:655316.19 E:942691.39	MANHOLE, 48" ø	6.74	STANDARD STANDARDSTANDARD	−2.18	18" RCP (OUT) 18" RCP (IN) 18" RCP (IN)	2.01 (W) 18" RCP −0.18 (S) 18" RCP 1.85 (N) 18" RCP
S-236	N:655285.54 E:942685.08	MANHOLE, 48" ø	6.62	STANDARD STANDARDSTANDARD	−2.18	18" RCP (OUT) 18" RCP (IN) 15" RCP (IN)	−0.18 (N) 18" RCP 1.68 (S) 18" RCP 0.16 (E) 15" RCP
S-237	N:655281.15 E:942716.90	CATCH BASIN, TYPE 'C'	6.65	USF 4155 FRAME USF 6209 GRATE	−1.34	15" RCP (OUT)	0.16 (W) 15" RCP
S-238	N:655103.03 E:942651.84	CATCH BASIN, 48" ø	6.53	STANDARD STANDARDSTANDARD	−1.26	15" RCP (IN) 18" RCP (OUT)	0.24 (E) 15" RCP 1.68 (N) 18" RCP
S-239	N:655103.49 E:942682.01	CATCH BASIN, 48" ø	6.43	STANDARD STANDARDSTANDARD	−1.26	15" RCP (IN) 15" RCP (OUT)	0.50 (S) 15" RCP 0.24 (W) 15" RCP
S-240	N:655065.34 E:942685.29	CATCH BASIN, 48" ø	6.46	STANDARD STANDARDSTANDARD	−1.00	15" RCP (OUT)	0.50 (N) 15" RCP
S-241	N:655583.35 E:942681.26	MANHOLE, 48" ø	6.60	STANDARD STANDARDSTANDARD	−0.21	18" RCP (OUT) 18" RCP (IN) 15" RCP (IN) 15" RCP (IN)	1.85 (S) 18" RCP 1.79 (N) 18" RCP 2.05 (W) 15" RCP 1.84 (E) 15" RCP
S-242	N:655590.04 E:942704.16	CATCH BASIN, 48" ø	6.89	STANDARD STANDARDSTANDARD	0.34	15" RCP (OUT)	1.84 (W) 15" RCP
S-243	N:655583.13 E:942672.93	CATCH BASIN, TYPE 'C'	6.55	USF 4155 FRAME USF 6209 GRATE	0.55	15" RCP (OUT)	2.05 (E) 15" RCP
S-244	N:655876.78 E:942672.68	MANHOLE, 48" ø	6.57	STANDARD STANDARDSTANDARD	−3.81	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN) 18" RCP (IN)	1.79 (S) 18" RCP 1.90 (W) 15" RCP −1.81 (E) 15" RCP −0.43 (N) 18" RCP
S-245	N:655876.51 E:942664.61	CATCH BASIN, TYPE 'C'	6.53	USF 4155 FRAME USF 6209 GRATE	0.40	15" RCP (OUT)	1.90 (E) 15" RCP
S-246	N:655877.43 E:942691.40	CATCH BASIN, TYPE 'C'	6.28	USF 4155 FRAME USF 6209 GRATE	−3.31	15" RCP (OUT)	−1.81 (W) 15" RCP
S-247	N:655920.60 E:942671.26	MANHOLE, 48" ø	6.51	STANDARD STANDARDSTANDARD	−1.93	15" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	1.98 (W) 15" RCP −0.43 (S) 18" RCP 1.81 (NE) 15" RCP
S-248	N:655917.42 E:942646.19	CATCH BASIN, 48" ø	6.33	STANDARD STANDARDSTANDARD	0.48	15" RCP (OUT)	1.98 (E) 15" RCP
S-249	N:655940.50 E:942687.54	CATCH BASIN, 48" ø	6.19	STANDARD STANDARDSTANDARD	0.31	15" RCP (OUT)	1.81 (SW) 15" RCP
S-250	N:653531.31 E:941140.13	MANHOLE, 48" ø	5.84	STANDARD STANDARDSTANDARD	−1.74	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	0.26 (N) 18" RCP 0.92 (S) 18" RCP 0.72 (E) 15" RCP
S-251	N:653525.43 E:941158.74	CATCH BASIN, TYPE 'C'	5.93	USF 4155 FRAME USF 6209 GRATE	−0.78	15" RCP (OUT)	0.72 (W) 15" RCP
S-252	N:653222.32 E:941148.30	MANHOLE, 48" ø	5.79	STANDARD STANDARDSTANDARD	−1.65	18" RCP (IN) 15" RCP (IN) 18" RCP (IN)	0.92 (N) 18" RCP 0.35 (E) 15" RCP 0.83 (W) 18" RCP
S-253	N:653224.16 E:941175.55	CATCH BASIN, 48" ø	5.74	STANDARD STANDARDSTANDARD	−1.41	15" RCP (OUT)	0.09 (W) 15" RCP
S-254	N:653221.04 E:941129.35	CATCH BASIN, 48" ø	5.57	STANDARD STANDARDSTANDARD	−0.67	18" RCP (OUT) 18" RCP (IN)	0.83 (E) 18" RCP 0.87 (S) 18" RCP
S-255	N:653183.54 E:941133.86	CATCH BASIN, 48" ø	5.83	STANDARD STANDARDSTANDARD	−0.63	18" RCP (OUT) 18" RCP (OUT)	0.87 (N) 18" RCP 1.38 (E) 18" RCP
S-256	N:653183.76 E:941158.12	MANHOLE, 48" ø	5.84	STANDARD STANDARDSTANDARD	−1.84	15" RCP (IN) 18" RCP (OUT) 18" RCP (IN)	0.16 (E) 15" RCP 0.92 (S) 18" RCP 1.38 (W) 18" RCP
S-257	N:653184.21 E:941174.96	CATCH BASIN, 48" ø	5.72	STANDARD STANDARDSTANDARD	−1.34	15" RCP (OUT)	0.16 (W) 15" RCP
S-258	N:652883.19 E:941165.73	MANHOLE, 48" ø	5.90	STANDARD STANDARDSTANDARD	−3.30	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	0.92 (N) 18" RCP −1.30 (E) 15" RCP 1.01 (S) 18" RCP
S-259	N:652882.96 E:941178.50	CATCH BASIN, TYPE 'C'	5.46	USF 4155 FRAME USF 6209 GRATE	−2.80	15" RCP (OUT)	−1.30 (W) 15" RCP
S-260	N:652579.76 E:941174.01	MANHOLE, 48" ø	6.13	STANDARD STANDARDSTANDARD	−1.12	18" RCP (IN) 18" RCP (OUT)	1.01 (N) 18" RCP 0.38 (E) 18" RCP
S-261	N:652578.49 E:941197.19	CATCH BASIN, 48" ø	5.65	STANDARD STANDARDSTANDARD	−1.12	18" RCP (OUT) 18" RCP (IN)	0.75 (S) 18" RCP 0.38 (W) 18" RCP
S-262	N:652563.31 E:941195.14	MANHOLE, 48" ø	6.08	STANDARD STANDARDSTANDARD	−1.42	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	0.23 (N) 18" RCP 0.08 (S) 15" RCP 0.35 (E) 18" RCP

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
LIC. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DESIGNED BY: DECF | CHECKED BY: JJM | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK: ---

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SUMMARY OF STORM DRAIN STRUCTURES

SHEET NO. SD-61 | SHT # 92
TOTAL: 233
CAD FILE: 12082-MULTI-STRC
DRAWING FILE NO. 4-144-88

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-263	N:652538.46 E:941194.25	CATCH BASIN, TYPE 'C'	5.98	USF 4155 FRAME USF 6209 GRATE	-1.42	15" RCP (OUT)	0.08 (N) 15" RCP
S-264	N:652571.73 E:941490.69	MANHOLE, 48" ø	5.52	STANDARD STANDARDSTANDARD	-3.48	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	-0.18 (W) 18" RCP -1.98 (S) 15" RCP -1.22 (E) 18" RCP
S-265	N:652534.97 E:941491.75	CATCH BASIN, 48" ø	5.36	STANDARD STANDARDSTANDARD	-3.48	15" RCP (OUT)	-1.98 (N) 15" RCP
S-266	N:652572.83 E:941529.09	MANHOLE, 48" ø	5.43	STANDARD STANDARDSTANDARD	-3.50	18" RCP (IN) 15" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	-1.22 (W) 18" RCP 0.38 (N) 15" RCP -0.70 (E) 18" RCP -2.00 (S) 15" RCP
S-267	N:652588.65 E:941528.71	CATCH BASIN, TYPE 'C'	5.79	USF 4155 FRAME USF 6209 GRATE	-1.39	15" RCP (OUT)	0.11 (S) 15" RCP
S-268	N:652545.29 E:941529.88	CATCH BASIN, 48" ø	5.12	STANDARD STANDARDSTANDARD	-3.50	15" RCP (OUT)	-2.00 (N) 15" RCP
S-269	N:652580.90 E:941809.78	MANHOLE, 48" ø	5.14	STANDARD STANDARDSTANDARD	-4.39	18" RCP (IN) 18" RCP (OUT) 15" RCP (IN)	-0.70 (W) 18" RCP 0.23 (N) 18" RCP -2.89 (S) 15" RCP
S-270	N:652559.19 E:941809.73	CATCH BASIN, 48" ø	4.95	STANDARD STANDARDSTANDARD	-4.39	15" RCP (OUT)	-2.89 (N) 15" RCP
S-271	N:652591.25 E:941809.59	CATCH BASIN, 48" ø	4.81	STANDARD STANDARDSTANDARD	-1.27	18" RCP (IN) 23" RCP (OUT) 15" RCP (OUT)	0.23 (S) 18" RCP 1.30 (E) 23"X14" RCP 0.61 (N) 15" RCP
S-272	N:652581.46 E:941866.46	CATCH BASIN, 48" ø	4.94	STANDARD STANDARDSTANDARD	-1.49	23" RCP (IN) 18" RCP (IN)	1.30 (W) 23"X14" RCP 0.01 (S) 18" RCP
S-273	N:652574.04 E:941866.18	MANHOLE, 72" ø	5.26	STANDARD STANDARDSTANDARD	-2.72	15" RCP (IN) 18" RCP (OUT) 36" RCP (OUT) 36" RCP (OUT)	-1.22 (S) 15" RCP 0.01 (N) 18" RCP -0.85 (E) 36" RCP 0.03 (W) 36" RCP
S-274	N:652549.89 E:941864.06	CATCH BASIN, 48" ø	5.00	USF 4155 FRAME USF 6209 GRATE	-2.72	15" RCP (OUT)	-1.22 (N) 15" RCP
S-275	N:653934.84 E:942148.43	CONTROL STRUCTURE, 5'X8' TOP OF WEIR EL: 5.2	7.84	(2) USF 690-AH-M FRAMES (2) USF GL "STORMWATER" COVERS	-0.88	18" RCP (OUT) 18" RCP (OUT)	3.00 (E) 18" RCP 3.11 (W) 18" RCP
S-276	N:653366.46 E:943138.51	MANHOLE, 48" ø	6.36	STANDARD STANDARDSTANDARD	-3.28	18" RCP (OUT) 15" RCP (IN) 15" RCP (IN)	0.08 (N) 18" RCP 0.33 (W) 15" RCP -1.28 (E) 15" RCP
S-277	N:653966.13 E:942090.43	CONTROL STRUCTURE, 5'X8' TOP OF WEIR EL: 5.0	7.62	(2) USF 690-AH-M FRAMES (2) USF GL "STORMWATER" COVERS	-1.00	18" RCP (IN) 18" RCP (OUT)	2.99 (N) 18" RCP 2.18 (S) 18" RCP
S-278	N:652563.85 E:941216.70	CONTROL STRUCTURE 5'X8' TOP OF WEIR EL: 3.5 (SEE CITY STANDARD DETAIL STRM-004)	6.04	(2) USF 690-AH-M FRAMES (2) USF GL "STORMWATER" COVERS	-3.03	18" RCP (IN) 18" RCP (OUT)	0.35 (W) 18" RCP -0.18 (E) 18" RCP
S-279	N:655369.82 E:944997.60	OUTFALL STRUCTURE 60" MANHOLE	1.42	STANDARD STANDARDSTANDARD	-4.80	18" RCP (IN) 18" RCP (IN)	-1.29 (E) 18" RCP -3.30 (N) 18" RCP
S-280	N:655954.64 E:945044.77	OUTFALL STRUCTURE 60" MANHOLE	3.74	STANDARD STANDARDSTANDARD	-2.33	18" RCP (IN) 18" RCP (OUT)	-0.83 (W) 18" RCP -0.83 (E) 18" RCP
S-282	N:653621.71 E:943132.68	MANHOLE, 48" ø	7.29	STANDARD STANDARDSTANDARD	-1.92	18" RCP (IN) 18" RCP (IN) 15" RCP (IN) 15" RCP (IN)	1.68 (N) 18" RCP 0.08 (S) 18" RCP 2.65 (W) 15" RCP 2.05 (E) 15" RCP
S-283	N:653621.08 E:943120.67	CATCH BASIN, TYPE 'C'	7.11	USF 4155 FRAME USF 6209 GRATE	1.15	15" RCP (OUT)	2.65 (E) 15" RCP
S-284	N:653623.80 E:943154.61	CATCH BASIN, TYPE 'C'	7.39	USF 4155 FRAME USF 6209 GRATE	0.55	15" RCP (OUT)	2.05 (W) 15" RCP
S-285	N:653647.05 E:943130.07	MANHOLE, 48" ø	7.33	STANDARD STANDARDSTANDARD	-2.47	18" RCP (OUT) 18" RCP (OUT) 18" RCP (OUT)	1.68 (S) 18" RCP -0.47 (N) 18" RCP 1.92 (W) 18" RCP
S-286	N:653672.51 E:943140.38	MANHOLE, 48" ø	7.43	STANDARD STANDARDSTANDARD	-2.47	18" RCP (IN) 15" RCP (IN) 15" RCP (IN) 18" RCP (OUT)	-0.47 (S) 18" RCP -0.25 (W) 15" RCP 2.40 (E) 15" RCP 1.10 (N) 18" RCP
S-287	N:653669.48 E:943113.93	CATCH BASIN, 48" ø	7.08	STANDARD STANDARDSTANDARD	-1.75	15" RCP (OUT)	-0.25 (E) 15" RCP
S-288	N:653673.86 E:943157.99	CATCH BASIN, 48" ø	7.46	STANDARD STANDARDSTANDARD	0.90	15" RCP (OUT)	2.40 (W) 15" RCP
S-289	N:653828.75 E:943137.54	MANHOLE, 48" ø	6.55	STANDARD STANDARDSTANDARD	-1.36	15" RCP (OUT) 18" RCP (IN) 18" RCP (OUT)	0.14 (E) 15" RCP 1.10 (S) 18" RCP 1.01 (N) 18" RCP
S-290	N:653828.98 E:943147.21	CATCH BASIN, TYPE 'C'	6.26	??? ??????	-1.36	15" RCP (IN)	0.14 (W) 15" RCP
S-291	N:653949.29 E:943102.87	MANHOLE, 48" ø	5.86	STANDARD STANDARDSTANDARD	-3.30	18" RCP (OUT) 18" RCP (IN)	1.20 (W) 18" RCP -1.30 (E) 23"X14" RCP
S-292	N:655888.82 E:945008.83	MANHOLE, 48" ø	3.50	STANDARD STANDARDSTANDARD	-5.61	18" RCP (IN) 18" RCP (IN)	-1.26 (N) 18" RCP -4.11 (W) 18" RCP
S-293	N:653918.89 E:944059.82	MANHOLE, 48" ø	3.47	STANDARD STANDARDSTANDARD	-3.00	18" RCP (IN) 23" RCP (OUT)	-1.50 (S) 18" RCP -0.47 (N) 23"X14" RCP
S-294	N:655296.27 E:942402.79	MANHOLE, 48" ø	7.31	STANDARD STANDARDSTANDARD	-4.75	18" RCP (OUT) 23" RCP (IN) 18" RCP (IN)	0.90 (W) 18" RCP -2.75 (E) 23"X14" RCP 0.49 (S) 18" RCP
	N:653943.49			USF 4155 FRAME		18" RCP (IN)	1.29 (E) 18" RCP

SUMMARY OF STORM DRAIN STRUCTURES

STRUCTURE NO.	NORTHING EASTING	TYPE & SIZE	RIM EL	FRAME & GRATE OR COVER	SUMP EL	PIPE	INVERT EL
S-295	N:653943.49 E:941309.94	CATCH BASIN, 48" ø	5.96	USF 4155 FRAME USF 6209 GRATE	-3.36	18" RCP (OUT)	-1.36 (W) 18" RCP
S-296	N:655101.40 E:945006.37	OUTFALL STRUCTURE 60" MANHOLE	1.75	STANDARD STANDARDSTANDARD	-5.00	18" RCP (IN) 12" RCP (OUT)	-3.50 (NW) 18" RCP -1.13 (E) 12" HDPE
S-297	N:654181.17 E:944607.29	OUTFALL STRUCTURE 60" MANHOLE	1.38	STANDARD STANDARDSTANDARD	-2.71	12" RCP (IN) 12" RCP (OUT)	-1.21 (N) 12" DIP -1.11 (S) 12" RCP
S-298	N:655739.24 E:945019.40	CATCH BASIN, 48" ø	1.82	STANDARD STANDARDSTANDARD	-4.61	16" RCP (IN)	-3.11 (S) 15" HDPE
S-299	N:654166.30 E:944520.89	OUTFALL STRUCTURE 60" MANHOLE	1.53	STANDARD STANDARDSTANDARD	-2.61	18" RCP (OUT) 18" RCP (OUT)	-2.61 (S) 18" RCP -2.61 (N) 18" RCP

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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
FLORIDA LIC. No: 85558
DATE:
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DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SUMMARY OF STORM DRAIN STRUCTURES

SHEET NO.	SHT #
SD-62	93

TOTAL: 233

CAD FILE: 12082-MULTI-STRC

DRAWING FILE NO. 4-144-88

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
			SD-01			
1	5.31	EX 4" GAS	2.98	PR 15" SD	-2.27	5.25
2	5.42	EX 10" SAN	-1.34	PR 15" SD	-2.27	0.93
3	5.21	EX 10" WM	3.83	PR 15" SD	-2.27	6.1
4	5.21	EX 6" WM	1.81	PR 15" SD	0.95	0.86
5	5.43	PR 15" SD	-0.91	EX 12" VCP SAN	-4.87	3.96
6	5.26	EX GAS	3.09	PR 15" SD	0.95	2.14
7	4.78	EX GAS	2.61	PR 18" SD	2.2	0.41
8	4.85	PR 18" SD	0.46	EX 10" VCP SAN	-0.24	0.7
10	4.62	PR 18" SD	0.46	PR 6" DIP WM (OFFSET)	-1.86	2.32
11	4.73	ABN 2" WM	1.56	PR 18" SD	2.2	-0.64
12	4.64	EX 4" GAS	2.31	PR 15" SD	-0.33	2.64
14	4.68	EX 10" WM	0.85	PR 15" SD	-0.33	1.18
15	4.41	EX BT	2.24	PR 18" SD	0.52	1.72
16	4.31	EX 4" GAS	1.98	PR 15" SD	-0.45	2.43
17	4.27	EX 10" WM	0.44	PR 15" SD	-0.45	0.89
18	4.31	EX 10" SAN	-1.51	PR 15" SD	-1.18	-0.33
19	4.3	EX GAS	2.13	PR 15" SD	-1.18	3.31
20	4.28	EX 10" WM	1.56	PR 15" SD	-1.18	2.74
21	4.09	EX GAS	1.92	PR 18" SD	0.65	1.27
			SD-02			
22	4.4	EX 4" GAS	2.23	PR 15" SD	-2.28	4.51
23	4.45	EX 10" SAN	-1.28	PR 15" SD	-2.28	1
24	4.37	EX 10" WM	0.54	PR 15" SD	-2.28	2.82
25	4.32	EX GAS	2.15	PR 18" SD	1.53	0.62
26	4.24	PR 18" SD	0.36	EX 10" SAN	-0.33	0.69
27	4.19	PR 18" SD	0.36	PR 6" DIP WM (OFFSET)	-2.25	2.61
28	4.16	EX 2" WM	0.99	PR 18" SD	1.53	-0.54
29	4.98	EX 4" GAS	2.66	PR 15" SD	-1.83	4.49
30	4.89	EX 10" WM	0.83	PR 15" SD	-1.83	2.66
31	4.85	EX GAS	2.68	PR 15" SD	-2.67	5.35
32	4.98	EX 10" SAN	-1.67	PR 15" SD	-2.67	1
33	5	EX GAS	2.83	PR 15" SD	-2.67	5.5
34	4.95	EX 10" WM	1.07	PR 15" SD	-2.67	3.74
35	5.4	EX GAS	3.23	PR 18" SD	2.28	0.95
36	5.56	EX GAS	3.39	PR 18" SD	2.28	1.11
37	5.58	PR 18" SD	0.36	EX 10" SAN	-0.53	0.89
38	5.51	PR 18" SD	0.36	PR 6" DIP WM (OFFSET)	-0.53	0.89
39	5.76	EX BT	3.59	PR 18" SD	1.60	1.99
			SD-03			
40	6	EX BT	3.83	PR 18" SD	1.60	2.23
41	5.84	EX BT	3.67	PR 18" SD	1.60	2.07
42	5.86	EX BT	3.69	PR 18" SD	1.60	2.09
43	5.87	EX BT	3.70	PR 18" SD	1.60	2.10
44	5.38	PR 23" X 14" SD	1.79	PR 6" DIP WM (OFFSET)	0.75	1.04
45	5.53	PR 23" X 14" SD	1.79	PR GAS (OFFSET)	0.68	1.11
46	5.53	PR 23" X 14" SD	1.79	EX 10" SAN	1.29	0.5
47	5.53	PR 23" X 14" SD	1.79	PR GAS (OFFSET)	0.68	1.11
48	5.52	PR 23" X 14" SD	1.79	PR 2" WM (OFFSET)	0.68	1.11
50	5.23	EX BT	3.02	PR 18" SD	1.12	1.9
51	5.29	EX GAS	3.29	PR 18" SD	0.71	2.58
52A	5.49	PR 18" SD	-1.21	EX 10" PVC SAN	-1.62	0.41
52	5.26	PR 18" SD	-1.21	EX 48" FM (HDD)	-15.87	14.66
53	5.04	EX 10" WM	1.21	PR 18" SD	0.71	0.50
54	4.79	EX GAS	2.62	PR 18" SD	1.70	0.92
55	5.18	PR 15" SD	-0.93	EX 10" PVC SAN	-1.65	0.72
56	4.96	EX 6" WM	1.41	PR 15" SD	0.74	0.67
57	4.91	EX 2" GAS	2.74	PR 18" SD	-0.24	2.98
58	5.12	EX 6" WM	0.77	PR 18" SD	-0.24	1.01
59	5.11	PR 18" SD	-0.93	EX 10" SAN	-1.58	0.65
			SD-04			
60	5.77	PR 18" SD	-0.06	EX 6" VCP SAN	1.39	-1.45
61	5.94	EX BT	3.77	PR 18" SD	1.86	1.91
62	6.59	EX GAS	4.42	PR 15" SD	-0.90	5.32
63	6.75	PR 15" SD	-2.57	EX 48" FM (HDD)	-22.6	20.03
64	6.74	EX GAS	4.57	PR 15" SD	-0.90	5.47
65	6.12	EX 10" WM	1.90	PR 15" SD	-0.90	2.8
66	6.6	EX GAS	4.43	PR 15" SD	0.82	3.61
67	6.64	EX 10" VCP SAN	1.43	PR 15" SD	0.82	0.61
68	6.65	EX GAS	4.48	PR 15" SD	0.82	3.66
69	6.76	EX 6" WM	2.85	PR 15" SD	0.82	2.03
70	6.43	EX GAS	4.26	PR 18" SD	0.76	3.5
71	6.46	ABN 2" WM	3.29	PR 18" SD	0.76	2.53

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
72	6.63	EX 6" HDPE WM	5.96	PR 18" SD	0.76	5.2
73	6.65	EX 10" VCP SAN	1.51	PR 18" SD	0.76	0.75
			SD-05			
74	7.18	EX BFO	5.01	PR 18" SD	3.68	1.33
75	7.24	EX GAS	5.07	PR 15" SD	2.63	2.44
75A	7.35	EX GAS	5.18	PR 15" SD	2.46	2.72
76	7.28	PR 15" SD	0.77	EX 48" HDPE FM	-19.9	20.67
77	7.34	EX GAS	5.17	PR 15" SD	2.63	2.54
78	7.44	EX 10" WM	3.38	PR 15" SD	2.63	0.75
79	7.11	EX 2" GAS	4.94	PR 23" X 14" SD	3.92	1.02
80	7.17	PR 23" X 14" SD	2.42	EX 48" FM	3.30	-0.88
81	7.19	EX BFO	5.02	PR 23" X 14" SD	3.92	1.1
82	7.25	EX GAS	5.08	PR 23" X 14" SD	3.92	1.16
83	7.38	PR 23" X 14" SD	1.77	EX 36" WM	-1.65	3.42
84	7.35	EX 6" WM	3.85	PR 23" X 14" SD	3.92	-0.07
85	7.53	PR 15" SD	0.60	EX 48" HDPE FM	-16.05	16.65
86	7.17	EX 10" WM	3.34	PR 15" SD	2.46	0.88
88	7.33	EX GAS	5.16	PR 18" SD	4.19	0.97
89	7.43	PR 18" SD	-1.17	EX 48" HDPE FM	3.99	-5.16
90	7.56	EX 10" VCP SAN	1.63	PR 15" SD	1.02	0.61
91	7.35	EX 10" WM	3.52	PR 15" SD	1.02	2.5
92	7.73	EX GAS	5.56	PR 15" SD	4.14	1.42
93	7.97	EX 10" PVC SAN	1.80	PR 15" SD	1.02	0.78
94	7.83	EX 10" WM	3.52	PR 15" SD	1.02	2.5
95	7.32	EX GAS	5.15	PR 15" SD	3.40	1.75
95A	7.83	EX GAS	5.66	PR 18" SD	5.85	-0.19
96	7.75	EX 6" WM	4.25	PR 15" SD	3.40	0.85
			SD-06			
97	7.73	EX GAS	5.56	PR 15" SD	4.64	0.92
98	7.92	EX 10" PVC SAN	2.54	PR 15" SD	1.93	0.61
99	7.8	EX 10" WM	3.97	PR 15" SD	1.93	2.04
101	7.65	EX BT	5.48	PR 23" X 14" SD	2.45	3.03
102	7.65	EX BT	5.48	PR 23" X 14" SD	2.45	3.03
103	7.67	EX BT	5.50	PR 23" X 14" SD	2.45	3.05
105	7.83	EX 10" PVC SAN	2.99	PR 23" X 14" SD	2.45	0.54
106	7.67	EX 8" DIP WM	3.47	PR 23" X 14" SD	2.45	1.02
107	7.62	EX 2" WM	4.45	PR 23" X 14" SD	2.45	2.00
108	7.64	EX 2" GAS	5.47	PR 18" SD	4.57	0.9
109	7.77	EX GAS	6	PR 18" SD	4.57	1.03
110	8	EX BT	5.83	PR 15" SD	3.24	2.59
111	7.95	EX 10" WM	4.12	PR 15" SD	3.24	0.88
112	8.05	EX BT	5.88	PR 15" SD	3.24	2.64
113	7.65	EX BT	5.48	PR 15" SD	3.24	2.24
			SD-07			
116	7.94	EX BT	5.77	PR 18" SD	1.86	3.91
117	7.86	EX 10" PVC SAN	2.45	PR 18" SD	1.86	0.59
118	7.74	EX GAS	5.57	PR 15" SD	4.65	0.92
119	6.63	ABN 2" WM	3.46	PR 15" SD	2.65	0.81
120	6.9	EX 6" HDPE WM	3.42	PR 15" SD	2.65	0.77
121	7.79	ABN 2" WM	4.62	PR 18" SD	2.98	1.64
122	7.8	EX 6" HDPE WM	3.52	PR 18" SD	2.97	0.55
123	7.55	EX 10" WM	3.72	PR 15" SD	2.84	0.88
124	5.8	EX 2" GAS	3.63	PR 18" SD	0.41	3.22
124A	5.69	EX 2" GAS	3.52	PR 18" SD	2.87	0.65
125	5.83	EX 6" HDPE WM	2.17	PR 18" SD	0.41	1.76
125A	5.84	EX 6" HDPE WM	2.25	PR 18" SD	1.21	1.04
125B	5.71	EX 6" HDPE WM	2.13	PR 18" SD	2.86	-0.73
126	5.9	PR 15" SD	0.70	EX 10" PVC SAN	0.91	-0.21
126A	5.97	EX 10" PVC SAN	0.91	PR 18" SD	0.41	0.5
126B	5.8	PR 15" SD	0.97	EX 10" PVC SAN	0.88	0.09
127	5.96	EX BT	3.79	PR 18" SD	0.94	2.85
128	5.97	EX 2" WM	2.80	PR 18" SD	0.41	2.39
128A	5.82	EX 2" WM	2.65	PR 18" SD	2.85	-0.2
129	5.86	EX GAS	3.69	PR 18" SD	1.21	2.48
129A	5.89	EX GAS	3.72	PR 18" SD	0.41	3.31
129B	5.67	EX GAS	3.50	PR 15" SD	2.80	0.7
130	6.04	EX BT	3.87	PR 15" SD	0.78	3.09
131	6.06	EX 10" PVC SAN	1.28	PR 15" SD	0.78	0.5
132	5.83	EX BT	3.66	PR 18" SD	0.94	2.72
133	5.81	EX 10" WM	1.94	PR 18" SD	0.94	1

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PIPE CROSSING TABLE

SHEET NO. SD-63 | SHT # 94
TOTAL: 233
CAD FILE: 12082-MULTI-CROS
DRAWING FILE NO. 4-144-88

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
134	5.65	EX 2" GAS	3.48	PR 15" SD	2.56	0.92
135	5.77	EX BT	3.60	PR 18" SD	2.79	0.81
473	5.71	EX 6" DIP WM	2.21	PR 18" SD	1.21	1
474	5.8	EX GAS	3.63	PR 15" SD	0.78	2.85
SD-08						
138	8.92	EX 6" HDPE WM	4.72	PR 18" SD	2.83	1.89
138A	8.67	EX 6" HDPE WM	5.09	PR 15" SD	5.08	0.01
139	8.95	EX BT	6.78	PR 18" SD	2.83	3.95
139A	8.73	EX BT	6.56	PR 15" SD	5.08	1.48
140	9.06	EX BT	6.89	PR 15" SD	6.02	0.87
141	8.9	EX 10" WM	4.78	PR 15" SD	6.02	-1.24
142	9.22	EX BT	7.05	PR 18" SD	2.89	4.16
143	8.97	EX GAS	6.80	PR 18" SD	2.89	3.91
144	8.77	EX BT	6.60	PR 18" SD	2.89	3.71
145	8.53	EX BT	6.36	PR 18" SD	2.89	3.47
146	9.19	EX 12" WM	4.86	PR 15" SD	4.77	0.09
146A	8.95	EX 12" WM	4.62	PR 15" SD	2.36	2.26
147	11.16	EX 10" PVC SAN	5.64	PR 18" SD	4.58	1.06
148	11.23	EX BT	9.06	PR 18" SD	3.13	5.93
149	10.84	EX GAS	8.67	PR 18" SD	3.13	5.54
SD-09						
150	6.39	EX GAS	4.22	PR 15" SD	1.15	3.07
151	6.53	EX 10" PVC SAN	1.77	PR 15" SD	1.15	0.62
152	6.45	EX 6" WM	2.95	PR 15" SD	2.10	0.85
SD-10						
153	6.62	EX GAS	4.45	PR 15" SD	0.60	3.85
154	6.74	EX 10" PVC SAN	1.21	PR 15" SD	0.60	0.61
155	6.92	EX 6" WM	2.53	PR 15" SD	-1.53	4.06
156	7.01	EX 2" WM	3.84	PR 15" SD	-1.53	5.37
157	6.73	EX 6" HDPE WM	5.27	PR 18" SD	2.46	2.81
158	6.8	EX 6" WM	3.30	PR 18" SD	2.67	0.63
159	6.87	PR 18" SD	1.64	EX 15" PVC SAN	-7.56	9.2
160	6.92	EX BT	4.75	PR 15" SD	3.83	0.92
161	6.86	PR 18" SD	0.78	EX 15" PVC SAN	-7.53	8.31
161A	6.82	PR 15" SD	2.8	EX 15" PVC SAN	-7.53	10.33
162	6.8	EX BT	4.63	PR 18" SD	2.78	1.85
162A	6.8	EX BT	4.63	PR 15" SD	4.46	0.17
163	6.76	PR 18" SD	0.78	EX 6" VCP SAN	1.30	-0.52
166	7.44	EX 6" WM	3.90	PR 15" SD	3.87	0.03
167	7.58	PR 15" SD	2.01	EX 10" PVC SAN	-1.02	3.03
SD-11						
168	8.41	EX GAS	6.24	PR 18" SD	5.26	0.98
169	8.75	PR 18" SD	3.05	EX 10" PVC SAN	-1.00	4.05
170	8.36	EX 6" WM	4.86	PR 18" SD	4.01	0.85
SD-12						
171	9.42	EX BT	7.25	PR 15" SD	6.33	0.92
172	9.41	PR 15" SD	4.47	EX 15" PVC SAN	-8.94	13.41
173	4.04	EX GAS	1.87	PR 15" SD	0.95	0.92
174	3.93	EX BT	1.76	PR 15" SD	0.84	0.92
175	3.94	PR 15" SD	-1.02	EX 18" PVC SAN	-9.31	8.29
176	3.8	EX 6" HDPE WM	3.02	PR 15" SD	0.84	2.18
177	3.75	ABN 2" WM	0.58	PR 15" SD	0.84	-0.26
SD-13						
178	2.03	EX BT	-0.14	PR 15" SD	-0.96	0.82
179	2	PR 15" SD	-2.82	EX 18" PVC SAN	-8.12	5.30
180	1.97	PR 18" SD	-5.21	EX 12" PVC SAN	-5.95	0.74
183	1.71	PR 15" SD	-4.10	EX 12" PVC SAN	-5.95	1.85
184	1.8	EX GAS	-0.37	PR 15" SD	-2.24	1.87
185	1.73	EX 6" HDPE WM	-0.72	PR 15" SD	-2.24	1.52
186	1.75	EX 2" WM	-1.42	PR 15" SD	-2.24	0.82
187	1.93	EX 6" HDPE WM	-0.72	PR 18" SD	-3.21	2.49
188	1.92	EX 2" WM	-1.25	PR 18" SD	-3.21	1.96
189	2.03	PR 24" SD	-0.20	EX 12" PVC SAN	-2.46	2.26
190	1.97	EX BT	-0.20	PR 24" SD	-4.05	3.85
191	1.79	EX BT	-0.38	PR 24" SD	-4.05	3.67
194	1.61	EX 6" HDPE WM	-0.44	PR 24" SD	-4.05	3.61
195	1.54	EX BT	-0.63	PR 24" SD	-1.47	0.84
SD-14						
197	1.8	EX 6" HDPE WM	-0.45	PR 15" SD	-3.17	2.72
198	1.79	EX BT	-0.38	PR 15" SD	-3.17	2.79

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
199	1.80	EX 12" PVC SAN	-2.63	PR 15" SD	-3.17	0.54
203	1.63	EX 6" HDPE WM	-0.56	PR 42" SD	-1.76	1.20
206	1.51	EX 6" HDPE WM	-0.56	PR 18" SD	-1.88	1.32
SD-15						
209	1.74	EX 2" WM	-1.43	PR 36" SD	-4.06	2.63
210	1.79	EX 6" HDPE WM	-1.48	PR 36" SD	-4.06	2.58
211	1.59	PR 15" SD	-0.08	EX 6" HDPE WM	-0.50	0.42
212	1.67	EX 6" HDPE WM	-0.56	PR 15" SD	-1.33	0.77
213	1.72	EX 8" PVC SAN	-2.07	PR 36" SD	-3.41	1.34
214	1.55	PR 15" SD	-1.17	EX 10" PVC SAN	-1.52	0.35
215	1.50	EX 6" HDPE WM	-0.56	PR 18" SD	-1.37	0.81
217	1.31	PR 15" SD	-2.56	EX 6" WM	-1.69	-0.87
218	1.37	PR 15" SD	-2.49	EX 10" PVC SAN	-1.31	-1.18
219	2.00	EX 6" WM	-1.50	PR 24" SD	-2.78	1.28
220	2.08	EX 10" PVC SAN	-2.14	PR 24" SD	-3.05	0.91
SD-16						
221	1.64	EX 6" HDPE WM	-0.56	PR 18" SD	-1.31	0.75
221A	1.96	EX 6" HDPE WM	0.34	PR 15" SD	-1.07	1.41
222	2.14	EX 6" HDPE WM	0.34	PR 24" SD	-2.92	3.26
223	2.21	EX 10" PVC SAN	-0.93	PR 24" SD	-2.92	1.99
224	1.64	EX 8" PVC SAN	-0.90	PR 15" SD	-1.50	0.60
225	2.43	EX GAS	0.26	PR 24" SD	-1.34	1.60
225A	2.15	EX GAS	-0.02	PR 15" SD	-1.54	1.52
226	2.06	EX 6" HDPE WM	0.63	PR 18" SD	-0.14	0.77
SD-17						
227	2.98	EX GAS	0.81	PR 15" SD	-0.28	1.09
228	3.15	EX BE	0.98	PR 18" SD	-3.11	4.09
229	3.2	EX BE	1.03	PR 18" SD	-3.11	4.14
230	3.23	EX 6" HDPE WM	1.72	PR 18" SD	-3.11	4.83
232	3.16	EX GAS	0.99	PR 15" SD	-0.05	1.04
233	3.72	EX 10" PVC SAN	-1.88	PR 18" SD	-2.47	0.59
234	3.26	EX 6" HDPE WM	1.88	PR 18" SD	-2.47	4.35
235	4	EX GAS	1.83	PR 15" SD	1.01	0.82
236	4.12	PR 18" SD	2.68	EX 48" FM	-2.11	4.79
237	4.42	EX BT	2.25	PR 18" SD	0.76	1.49
241	4.11	EX GAS	1.94	PR 18" SD	1.02	0.92
242	4.14	EX GAS	1.97	PR 15" SD	-1.58	3.55
243	4.37	EX 10" PVC SAN	-0.97	PR 15" SD	-1.58	0.61
244	4.05	EX 6" HDPE WM	2.49	PR 15" SD	0.72	1.77
SD-18						
245	4.68	EX 10" PVC SAN	-0.67	PR 18" SD	-1.26	0.59
246	4.65	EX GAS	2.48	PR 18" SD	-1.26	3.74
247	4.14	EX 6" HDPE WM	2.72	PR 18" SD	-1.26	3.98
SD-19						
248	2.67	EX 2" WM	-0.50	PR 15" SD	-1.32	0.82
249	2.47	EX GAS	0.30	PR 15" SD	-2.41	2.71
250	2.34	EX 10" PVC SAN	-1.80	PR 15" SD	-2.41	0.61
251	2.21	EX 2" WM	0.75	PR 18" SD	-2.50	3.25
252	2.28	EX 6" WM	-1.22	PR 18" SD	-2.50	1.28
SD-20						
254	3.32	EX 10" PVC SAN	-3.31	PR 15" SD	-3.92	0.61
SD-21						
256	3.51	PR 18" SD	1.00	EX 6" DIP SAN	-1.34	2.34
260	3.38	EX 6" DIP SAN	-1.84	PR 15" SD	-2.45	0.61
261	3.38	EX 2" WM	0.21	PR 15" SD	-2.50	2.71
262	3.5	EX 6" HDPE WM	1.64	PR 18" SD	-0.31	1.95
266	3.68	EX 6" HDPE WM	1.72	PR 18" SD	0.18	1.54
267	3.41	EX 16" FM	-0.92	PR 15" SD	-1.67	0.75
268	3.55	EX GAS	1.38	PR 15" SD	-1.67	3.05
269	3.44	EX BT	1.27	PR 15" SD	-1.67	2.94
270	3.43	PR 15" SD	-3.53	EX 10" PVC SAN	-5.05	1.52
271	3.44	EX 6" HDPE WM	0.13	PR 15" SD	-1.67	1.8
272	3.49	EX GAS	1.32	PR 15" SD	-1.67	2.99
SD-22						
273	2.71	EX 16" FM	-3.14	PR 18" SD	-2.49	-0.65
274	2.81	EX GAS	0.64	PR 15" SD	-2.39	3.03
275	2.53	PR 15" SD	-3.55	EX 12" PVC SAN	-5.42	1.87
275A	2.83	EX 10" DIP SAN	-1.889	PR 15" SD	-2.39	0.501
276	2.49	EX BT	0.32	PR 15" SD	-1.62	1.94
277	2.88	EX GAS	0.71	PR 15" SD	-2.39	3.1
278	2.42	EX 6" HDPE WM	0.69	PR 15" SD	-1.62	2.31
278A	2.48	EX 6" HDPE WM	-1.10	PR 15" SD	-2.39	1.29
279	2.58	EX 2" WM	-0.59	PR 24" SD	-1.58	0.99

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PIPE CROSSING TABLE

SHEET NO. SD-64
SHT # 95
TOTAL: 233
CAD FILE: 12082-MULTI-CROS
DRAWING FILE NO. 4-144-88

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
			SD-40			
444	5.72	EX 2" WM	2.55	PR 18" SD	1.61	0.94
445	5.7	EX 10" PVC SAN	0.01	PR 15" SD	-2.36	2.37
446	5.47	EX 6" HDPE WM	1.89	PR 15" SD	-0.50	2.39
448	5.6	EX GAS	3.43	PR 18" SD	0.85	2.58
449	5.43	EX 6" CIP WM	1.53	PR 18" SD	0.85	0.68
450	5.55	PR 15" SD	0.59	EX 48" FM	-0.55	1.14
451	5.33	PR 2" WM (OFFSET)	2.95	PR 15" SD	2.45	0.50
452	5.61	EX 10" VCP SAN	-0.04	PR 15" SD	-0.54	0.50
453	5.45	EX 6" HDPE WM	1.87	PR 15" SD	-0.54	2.41
454	5.41	EX 12" CIP WM	1.41	PR 15" SD	-0.54	1.95
			SD-41			
455	5.56	EX 2' WM	2.39	PR 18" SD	1.21	1.18
456	5.21	EX 2' WM	2.04	PR 18" SD	1.21	0.83
457	5.02	EX 6" HDPE WM	1.44	PR 18" SD	2.39	-0.95
458	5.49	PR 18" SD	0.18	EX 10" VCP SAN	-0.08	0.26
459	5.02	EX BFO	2.85	PR 23" X 14" SD	1.90	0.95
460	5.42	PR 23" X 14" SD	0.40	EX 10" VCP SAN	-0.10	0.50
461	5.69	EX 2" WM	2.52	PR 23" X 14" SD	1.90	0.62
462	5.33	PR 23" X 14" SD	0.40	EX 36" DIP WM	-0.49	0.89
463	5.09	ABN 2" WM	1.92	PR 23" X 14" SD	1.90	0.02
464	4.97	PR 23" X 14" SD	0.40	PR 6" HDPE WM (OFFSET)	-0.10	0.50
465	5.08	EX GAS	2.91	PR 23" X 14" SD	1.51	1.40
466	5.33	EX GAS	3.16	PR 18" SD	2.15	1.01
467	5.37	EX 6" HDPE WM	1.87	PR 18" SD	0.28	1.59
468	5.28	EX 12" CIP WM	1.28	PR 18" SD	0.28	1.00
			SD-42			
305	5.86	EX 2" GAS	3.69	PR 15" SD	4.11	-0.42
306	6.33	PR 15" SD	2.25	EX 10" VCP SAN	1.74	0.51
			SD-43			
307	7.12	EX 2" GAS	4.95	PR 15" SD	4.03	0.92
308	7.2	EX 6" HDPE WM	4.42	PR 15" SD	1.31	3.11
310	7.39	EX GAS	5.22	PR 15" SD	3.75	1.47
311	7.38	EX 6" HDPE WM	4.52	PR 15" SD	3.75	0.77
312	7.31	EX 2" WM	4.14	PR 18" SD	1.31	2.83
313	7.29	EX 10" PVC SAN	1.76	PR 18" SD	0.86	0.9
314	7.17	EX GAS	5.00	PR 18" SD	3.46	1.54
315	7.13	EX 2" GAS	4.96	PR 15" SD	1.10	3.86
316	7.41	EX BT	5.24	PR 15" SD	1.10	4.14
317	7.44	EX 10" PVC SAN	1.71	PR 15" SD	1.10	0.61
318	7.39	EX GAS	5.22	PR 15" SD	4.15	1.07
319	7.38	EX 6" HDPE WM	4.92	PR 15" SD	4.15	0.77
469	6.29	EX GAS	3.12	PR 18" SD	2.76	0.36
470	6.19	EX 6" HDPE WM	2.61	PR 18" SD	2.76	-0.15

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PIPE CROSSING TABLE

SHEET NO. SD-65
SHT # 96
TOTAL: 233
CAD FILE: 12082-MULTI-CROS
DRAWING FILE NO. 4-144-88

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
279A	2.4	EX 2" WM	-0.77	PR 15" SD	-2.39	1.62
280	1.54	EX 12" PVC SAN	-5.42	PR 24" SD	-6.02	0.6
280A	1.47	PR 24" SD	-3.94	EX 12" PVC SAN	-4.58	0.64
281	1.22	EX BT	-0.95	PR 15" SD	-1.19	0.24
284	1.48	EX BT	-0.69	PR 24" SD	-6.02	5.33
284A	0.96	EX BT	-1.21	PR 24" SD	-1.24	0.03
285	1.06	EX 6" HDPE WM	0.42	PR 24" SD	-6.02	6.44
285A	1.1	EX 6" HDPE WM	0.42	PR 24" SD	-1.23	1.65
287	1.56	EX 6" WM	0.42	PR 24" SD	-1.02	1.44
287A	1.54	EX 6" WM	-2.04	PR 24" SD	-6.02	3.98
287B	1.47	EX 6" WM	-2.11	PR 24" SD	-1.18	-0.93
288	1.19	EX 16" FM	-2.78	PR 24" SD	-3.98	1.2
289	1.26	EX 6" HDPE WM	0.42	PR 24" SD	-3.98	4.4
290	1.24	EX BT	-0.93	PR 24" SD	-3.98	3.05
294	1.24	PR 24" SD	-6.23	EX 12" PVC SAN	-6.94	0.71
296	1.18	EX 8" WM	-2.49	PR 24" SD	-3.98	1.49
298	1.24	EX BT	-0.93	PR 15" SD	-1.23	0.3
299	1.65	EX BT	-1.13	PR 15" SD	-3.26	2.13
SD-23						
301	1.47	EX BT	-0.70	PR 15" SD	-1.62	0.92
302	1.47	PR 15" SD	-3.48	EX 18" PVC SAN	-9.23	5.75
303	1.21	EX 8" WM	-2.03	PR 15" SD	-3.22	1.19
304	1.18	EX 6" HDPE WM	-0.68	PR 15" SD	-3.22	2.54
SD-24						
320.00	6.45	EX GAS	4.28	PR 18" SD	3.36	0.92
320.00	6.97	EX GAS	4.80	PR 18" SD	2.04	2.76
471.00	6.84	EX 10" PVC SAN	2.53	PR 18" SD	2.04	0.49
471.00	7.24	EX 10" PVC SAN	2.54	PR 18" SD	2.04	0.50
SD-25						
321	6.4	EX BT	4.23	PR 18" SD	2.68	1.55
322	6.33	EX BT	4.16	PR 18" SD	2.68	1.48
323	6.01	EX BT	3.84	PR 18" SD	2.68	1.16
325	5.7	EX 6" HDPE WM	4.32	PR 15" SD	1.55	2.77
326	5.87	EX GAS	3.70	PR 15" SD	1.55	2.15
327	5.9	EX 10" PVC SAN	2.16	PR 15" SD	1.55	0.61
328	5.59	EX 12" DIP WM	1.59	PR 15" SD	0.70	0.89
SD-26						
330	7.56	EX 12" DIP WM	4.39	PR 15" SD	0.59	3.80
331	7.67	EX 6" HDPE WM	4.22	PR 15" SD	0.90	3.32
332	7.79	EX 10" PVC SAN	0.97	PR 15" SD	0.90	0.07
333	7.76	EX GAS	5.59	PR 15" SD	0.90	4.69
SD-27						
334	8.43	EX 6" WM	4.85	PR 18" SD	4.81	0.04
335	8.56	EX 2" WM	5.39	PR 18" SD	4.81	0.58
336	8.56	ABN 2" WM	5.39	PR 18" SD	4.81	0.58
SD-28						
337	8.43	EX 6" DIP WM	4.93	PR 15" SD	3.87	1.06
339	8.67	EX BT	6.50	PR 15" SD	5.94	0.56
340	8.58	PR 15" SD	4.31	EX 6" WM	4.13	0.18
341	8.66	PR 15" SD	4.32	EX 12" PVC SAN	-3.86	8.18
342	8.62	EX BT	6.45	PR 15" SD	5.88	0.57
343	8.53	PR 15" SD	4.20	EX 36" WM	3.10	1.10
344	8.56	PR 15" SD	1.95	EX 10" PVC SAN	-3.43	5.38
345	8.2	EX 6" DIP WM	4.57	PR 15" SD	3.81	0.76
346	7.54	PR 15" SD	2.80	EX 48" HDPE FM	-18.6	21.4
347	7.75	PR 15" SD	2.63	EX "10 PVC SAN	-2.56	5.19
SD-29						
348	7.08	PR 15" SD	2.10	EX 48" HDPE FM	-4.00	6.10
349	7.18	EX GAS	5.01	PR 15" SD	2.19	2.82
350	7.5	PR 15" SD	3.50	EX 10" PVC SAN	-1.78	5.28
351	7.4	PR 18" SD	2.35	EX 12" DIP WM	-2.92	5.27
352	7.1	PR 15" SD	0.35	EX 12" DIP WM	-3.22	3.57
353	7.15	PR 15" SD	0.35	EX 36" FM	1.74	-1.39
354	7.34	EX 6" WM	3.84	PR 18" SD	3.85	-0.01
SD-30						
355	7.09	PR 15" SD	1.94	EX 48" HDPE FM	3.32	-1.38
356	6.89	EX GAS	4.72	PR 15" SD	3.80	0.92
357	7.19	PR 15" SD	1.94	EX 10" PVC SAN	-0.48	2.42
358	6.95	EX 6" WM	3.20	PR 15" SD	2.64	0.56
359	6.71	EX BE	4.54	PR 18" SD	3.30	1.24
360	6.66	EX BT	4.49	PR 18" SD	2.30	2.19
361	6.64	EX BT	4.47	PR 18" SD	2.30	2.17
362	6.69	EX 12" DIP WM	2.63	PR 18" SD	2.30	0.33

PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
363	6.24	PR 15" SD	1.19	EX 48" FM	-0.50	1.69
364	6.38	EX BE	4.21	PR 18" SD	3.07	1.14
365	6.38	EX BT	4.21	PR 18" SD	3.07	1.14
366	6.49	PR 18" SD	0.86	EX 48" FM	-0.47	1.33
367	6.71	PR 18" SD	0.86	EX 10" PVC SAN	0.24	0.62
368	6.45	EX 8" DIP WM	2.48	PR 18" SD	3.56	-1.08
369	6.69	EX 12" DIP WM	2.69	PR 15" SD	1.80	0.89
370	6.45	PR 18" SD	0.87	EX 48" FM	-1.82	2.69
371	6.3	EX BT	4.13	PR 15" SD	3.09	1.04
372	6.37	PR 15" SD	1.23	EX 48" FM	-40.00	41.23
373	6.67	PR 18" SD	0.87	EX 10" PVC SAN	0.26	0.61
SD-31						
377	6.12	EX BE	3.95	PR 18" SD	1.18	2.77
SD-32						
378	4.87	EX 10" VCP SAN	-0.82	PR 18" SD	-1.43	0.61
379	5.11	EX BT	2.94	PR 18" SD	2.02	0.92
380	5.68	EX BT	3.51	PR 15" SD	1.44	2.07
472	4.87	PR 18" SD	3.10	EX 12" DIP WM	1.87	1.23
474	5.01	EX BFO	2.84	PR 18" SD	3.50	-0.66
475	5.05	PR 18" SD	5.19	EX 10" SAN	0.53	4.66
476	5.06	PR 18" SD	6.50	EX 18" FM	0.56	5.94
SD-33						
388	7.35	EX BT	5.18	PR 18" SD	2.66	2.52
389	7.33	EX 8" DIP WM	3.66	PR 18" SD	2.66	1.00
390	7.42	EX GAS	5.25	PR 18" SD	2.66	2.59
391	6.9	PR 18" SD	0.66	EX 10" VCP SAN	-1.44	2.10
392	7.41	PR 18" SD	3.46	EX 36" DIP WM	2.96	0.50
394	7.14	EX 2" GAS	4.97	PR 15" SD	4.05	0.92
395	7.28	PR 15" SD	2.36	EX 10" PVC SAN	-1.44	3.80
398	6.88	EX 2" DIP WM	3.71	PR 18" SD	2.01	1.70
SD-34						
399	7.22	PR 15" SD	2.13	EX 10" PVC SAN	-2.27	4.40
SD-35						
403	6.44	EX 2" WM	3.27	PR 15" SD	1.75	1.52
404	6.29	EX 6" HDPE WM	2.52	PR 15" SD	1.75	0.77
405	6.26	ABN 2" WM	2.63	PR 15" SD	1.94	0.69
406	6.29	EX 6" HDPE WM	2.71	PR 15" SD	1.94	0.77
407	6.44	PR 15" SD	0.08	EX 10" PVC SAN	-0.98	1.06
408	6.71	PR 15" SD	0.07	EX 10" PVC SAN	-0.58	0.65
409	6.57	EX 6" HDPE WM	2.52	PR 15" SD	1.93	0.59
410	6.6	ABN 2" WM	3.43	PR 15" SD	1.93	1.50
411	6.61	EX 12" DIP WM	2.61	PR 18" SD	2.04	0.57
412	6.55	EX GAS	4.38	PR 18" SD	3.51	0.87
SD-36						
413	6.71	PR 15" SD	1.71	EX 10" PVC SAN	0.91	0.80
414	6.66	EX BT	4.49	PR 15" SD	3.56	0.93
415	6.63	EX 6" HDPE WM	4.32	PR 15" SD	3.56	0.76
416	6.49	EX 6" HDPE WM	2.92	PR 15" SD	-0.45	3.37
417	6.59	EX 10" PVC SAN	0.16	PR 15" SD	-0.45	0.61
418	6.36	EX 12" DIP WM	2.36	PR 18" SD	1.76	0.60
419	6.66	PR 18" SD	-0.24	EX 48" FM	-1.78	1.54
420	6.38	EX GAS	4.21	PR 15" SD	3.23	0.98
421	6.36	PR 15" SD	1.58	EX 10" PVC SAN	1.12	0.46
SD-37						
422	5.95	PR 15" SD	0.59	EX 10" PVC SAN	-2.64	3.23
423	6.09	EX 6" HDPE WM	3.22	PR 15" SD	2.45	0.77
SD-38						
424	5.75	EX BT	3.58	PR 18" SD	2.56	1.02
425	5.97	PR 18" SD	-0.39	EX 10" PVC SAN	-3.66	3.27
426	5.9	EX BE	3.73	PR 15" SD	2.59	1.14
430	5.69	EX GAS	3.52	PR 15" SD	2.59	0.93
430A	5.69	EX GAS	3.52	PR 15" SD	-0.70	4.22
431	5.93	EX 6" WM	2.43	PR 18" SD	1.60	0.83
434	5.95	EX 10" PVC SAN	-0.19	PR 15" SD	-0.70	0.51
435	5.78	EX 6" WM	2.28	PR 18" SD	1.41	0.87
437	5.81	EX 6" HDPE WM	0.72	PR 15" SD	-0.05	0.77
SD-39						
438	6.21	EX 6" WM	2.71	PR 18" SD	1.88	0.83
439	5.99	EX BFO	3.82	PR 18" SD	2.00	1.82
440	5.97	PR 18" SD	0.00	EX 48" FM	-0.52	0.52
441	5.96	ABN 2" WM	2.79	PR 18" SD	2.00	0.79
442	6.06	EX 6" WM	2.56	PR 15" SD	1.07	1.49
443	5.94	EX 12" CIP WM	3.91	PR 15" SD	1.07	2.84

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DRAWN BY: JLS | DESIGNED BY: DECF | CHECKED BY: JJM
DATE: 03/25/25 | SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PIPE CROSSING TABLE

SHEET NO. SD-66 | SHT # 97
TOTAL: 233
CAD FILE: 12082-MULTI-CROS
DRAWING FILE NO. 4-144-88

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DRAWN BY:	DATE:	
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:	FIELD BOOK:	
JJM		

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NO.	DATE	BY (CHK'D)	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

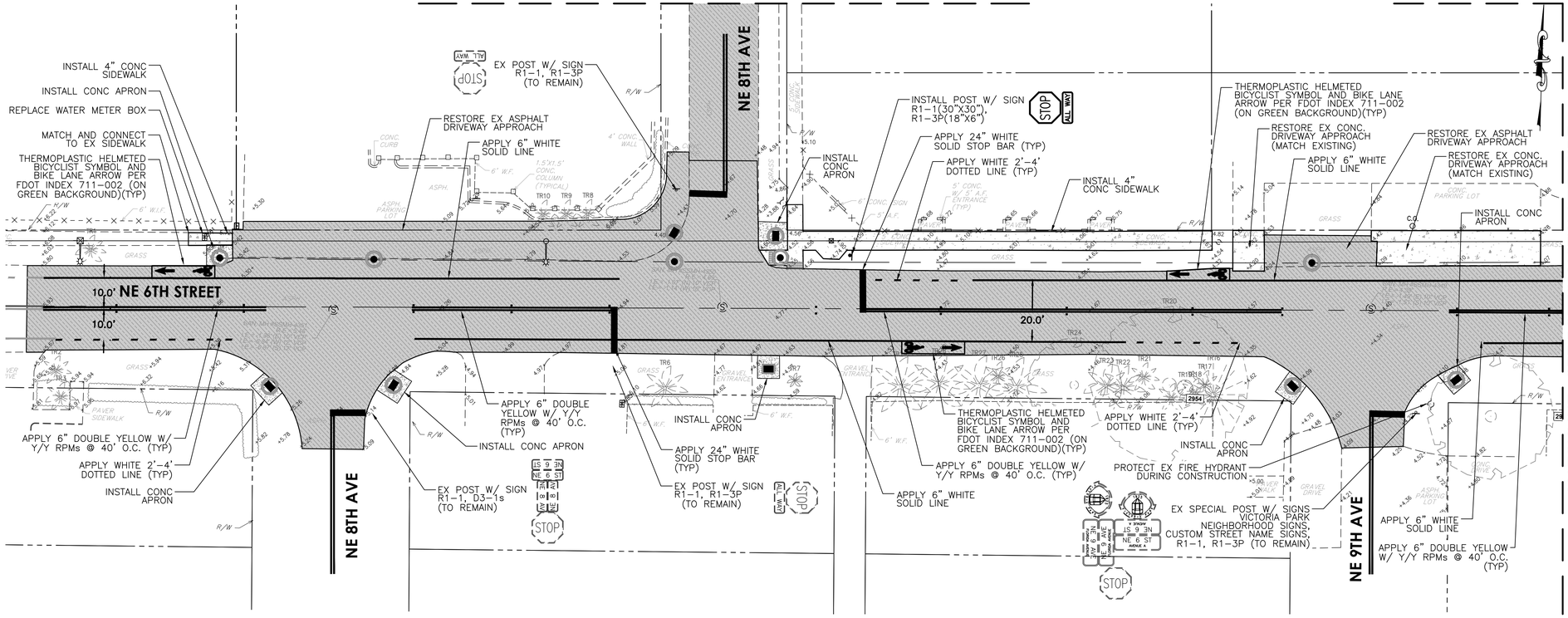
PAVING AND GRADING KEY MAP

SHEET NO.	SHT #
PG-00	98
TOTAL:	233
CAD FILE: 12082-PG-00	
DRAWING FILE NO. 4-144-88	

CAM #25-0925
Exhibit 1F
Page 1825 of 2050

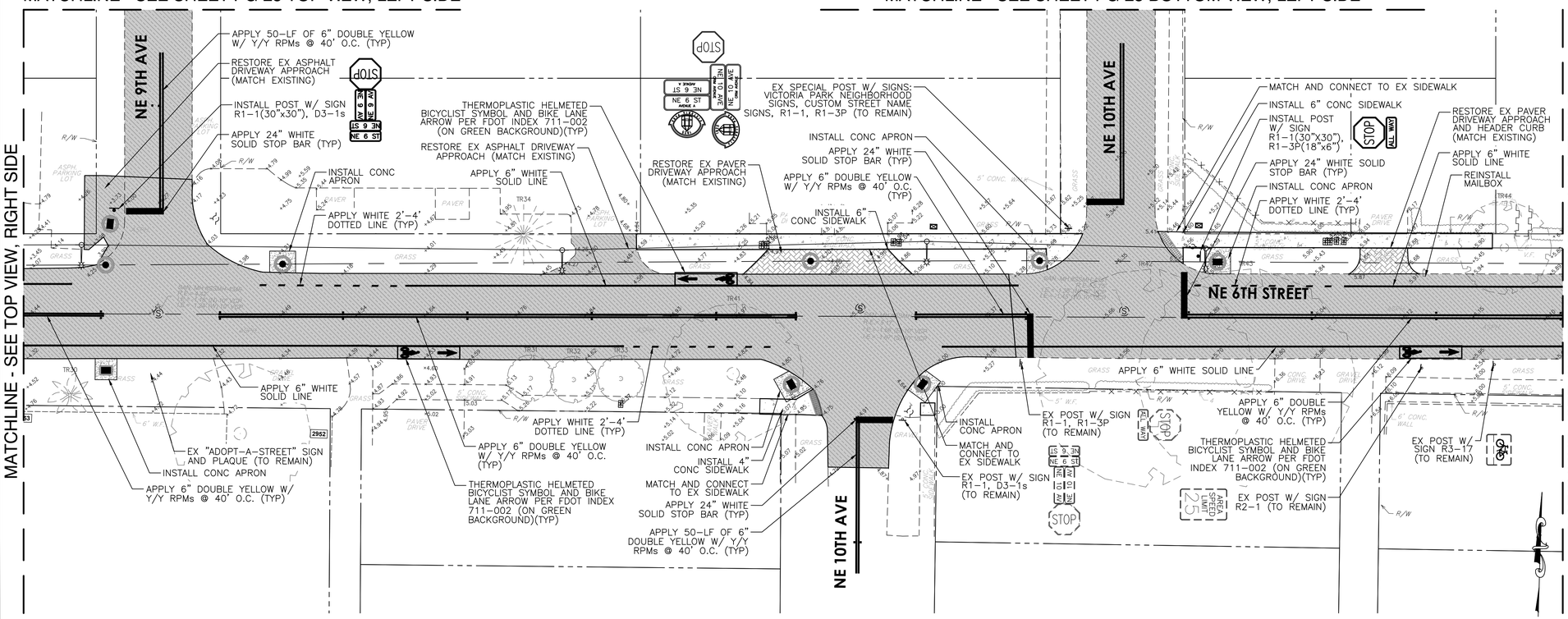
MATCHLINE - SEE SHEET PG-24 BOTTOM VIEW, LEFT SIDE

MATCHLINE - SEE SHEET PG-25 TOP VIEW, LEFT SIDE



MATCHLINE - SEE SHEET PG-25 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET PG-25 BOTTOM VIEW, LEFT SIDE



RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

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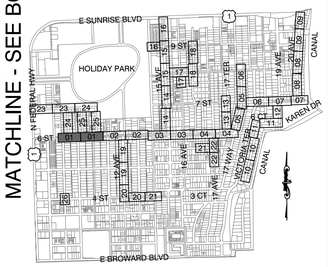
0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

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DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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NO.	DATE	BY	CHK'D	DESCRIPTION

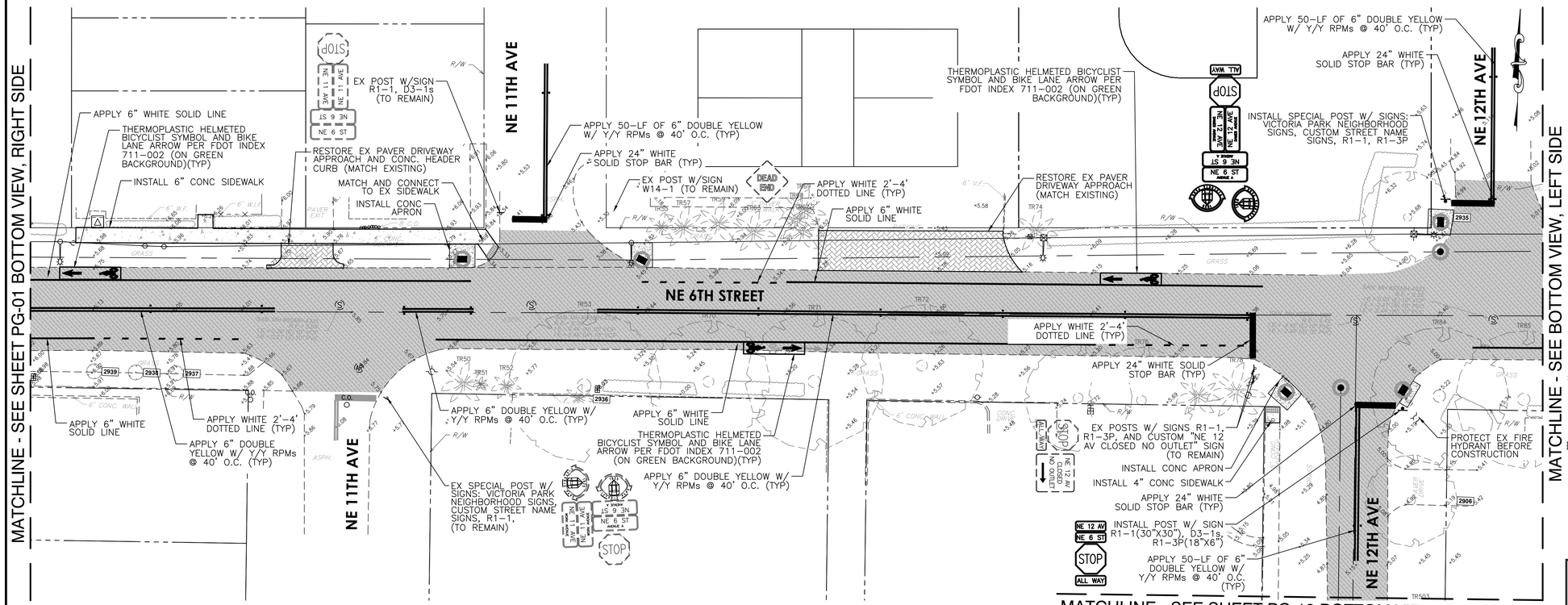
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PAVING AND GRADING PLAN

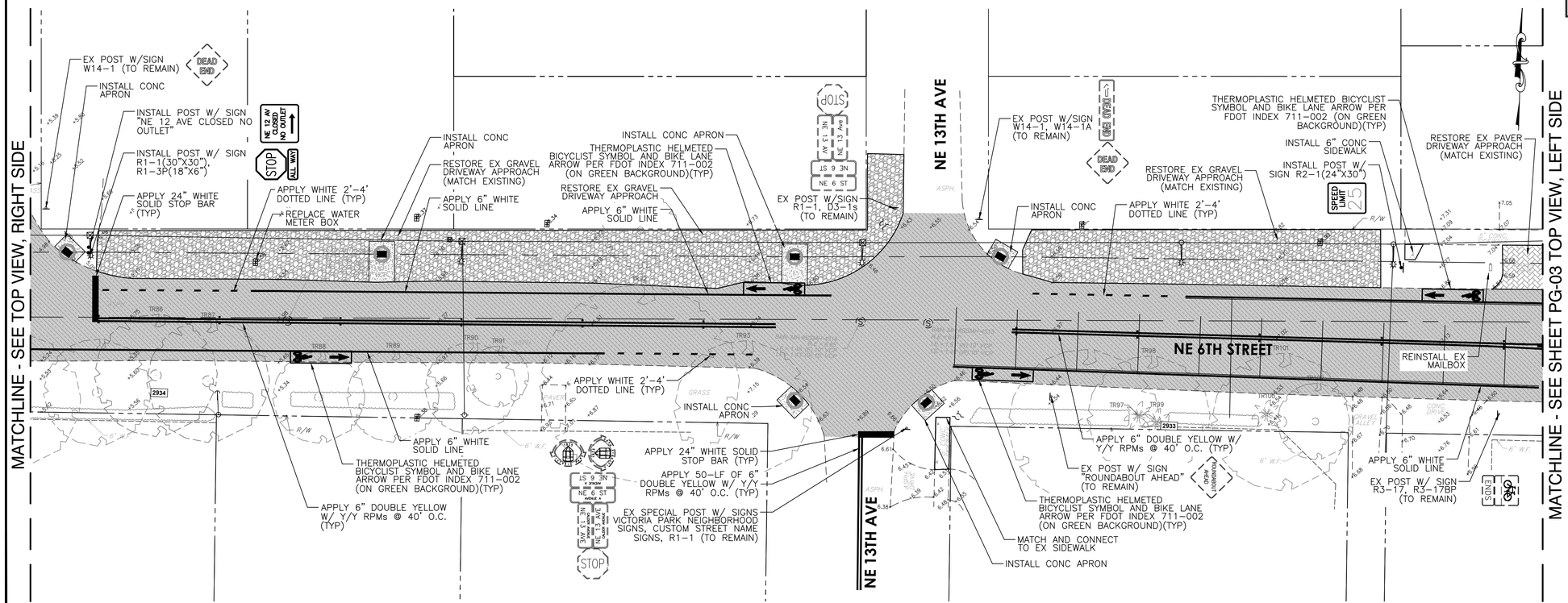
SHEET NO.	SHT #
PG-01	99

TOTAL: 233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88





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REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

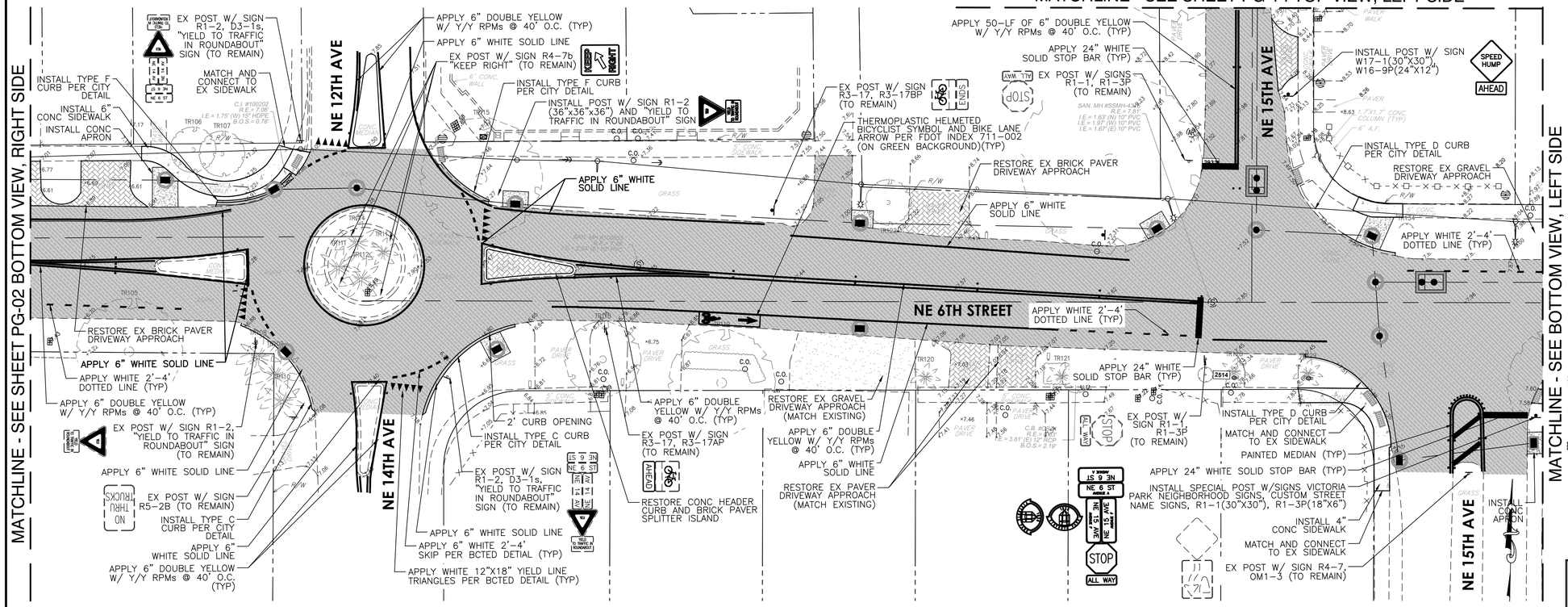
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-02	100
TOTAL:	233
CAD FILE: 12082-MULTI-GRAD	
DRAWING FILE NO. 4-144-88	

CAM #25-0925
Exhibit 1F
Page 1827 of 2050



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0 20' 40'

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-03	101
TOTAL:	233

CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-03 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET PG-12 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

NE 16TH TER

NE 6TH STREET

NE 17TH AVE

EX SPECIAL POST W/ SIGNS VICTORIA PARK NEIGHBORHOOD SIGNS, CUSTOM STREET NAME SIGNS, R1-1 (TO REMAIN)

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 4" CONC SIDEWALK

INSTALL CONC APRON

APPLY WHITE 2'-4' DOTTED LINE (TYP)

APPLY 6" WHITE SOLID LINE

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY 6" WHITE SOLID LINE

MATCH AND CONNECT TO EX SIDEWALK

INSTALL CONC APRON

INSTALL 6" CONC SIDEWALK

MATCH AND CONNECT TO EXISTING SIDEWALK

INSTALL POST W/ SIGN R3-17 (18"X24")

APPLY 6" DOUBLE W/ Y/Y RPMs @ 40' O.C. (TYP)

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX SPECIAL POST W/SIGNS VICTORIA PARK NEIGHBORHOOD SIGNS, CUSTOM STREET NAME SIGNS, R1-1 (TO REMAIN)

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY WHITE 2'-4' DOTTED LINE (TYP)

APPLY WHITE 2'-4' DOTTED LINE (TYP)

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 6" CONC SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1 (30"X30")

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL 6" CONC SIDEWALK

KEY MAP

E SUNRISE BLVD · HOLIDAY PARK · N FEDERAL HWY · E BROWARD BLVD · CANAL

Hazen

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0 20' 40'

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

MATCHLINE - SEE SHEET PG-13 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET PG-05 TOP VIEW, LEFT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

NE 17TH TER

NE 17TH WAY

NE 6TH STREET

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX SPECIAL POST W/SIGNS VICTORIA PARK NEIGHBORHOOD SIGNS, CUSTOM STREET NAME SIGNS, R1-1, R1-3P (TO REMAIN)

INSTALL 6" CONC SIDEWALK

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY WHITE 2'-4' DOTTED LINE (TYP)

APPLY 6" DOUBLE W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 6" WHITE SOLID LINE

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY 6" WHITE SOLID LINE

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1 (30"X30"), R1-3P (18"X6")

INSTALL 4" CONC SIDEWALK

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

INSTALL CONC APRON

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY WHITE 2'-4' DOTTED LINE (TYP)

APPLY 6" WHITE SOLID LINE

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

THERMOPLASTIC HELMETED BICYCLIST SYMBOL AND BIKE LANE ARROW PER FDOT INDEX 711-002 (ON GREEN BACKGROUND)(TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX POST W/ SIGN R1-1 (TO REMAIN)

EX POST W/ SIGN R1-1 (TO REMAIN)

ISSUED FOR BID

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DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO. PG-04 | SHT # 102

TOTAL: 233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1829 of 2050

MATCHLINE - SEE SHEET PG-04 BOTTOM VIEW, RIGHT SIDE

NE 17TH WAY

MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK

RESTORE EX GRAVEL DRIVEWAY APPROACH (MATCH EXISTING)
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK

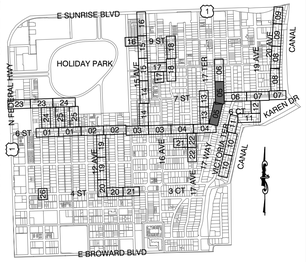
MATCHLINE - SEE SHEET PG-06 TOP VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

MATCHLINE - SEE SHEET PG-06 TOP VIEW, RIGHT SIDE

NE 7TH STREET

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")
INSTALL 4" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
APPLY 24" WHITE SOLID STOP BAR (TYP)
EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

NE 17TH WAY

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6"), D3-1s
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)
INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")
INSTALL 4" CONC SIDEWALK
INSTALL CONC APRON
MATCH AND CONNECT TO EX SIDEWALK

NE 17TH WAY

INSTALL 6" CONC SIDEWALK
INSTALL CONC APRON
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK

MATCHLINE - SEE SHEET PG-06 BOTTOM VIEW, LEFT SIDE

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO. PG-05
SHT # 103
TOTAL: 233
CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-05 BOTTOM VIEW, RIGHT SIDE

NE 17TH WAY

NE 8TH STREET

MATCH AND CONNECT TO EX SIDEWALK
INSTALL 4" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
APPLY 24" WHITE SOLID STOP BAR (TYP)
MATCH AND CONNECT TO EX SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL POST W/ SIGN R1-1(30"X30"), (2) D3-1s
INSTALL 6" CONC SIDEWALK

SAN. MH #SSMH-3993 R.E.= 8.13' I.E.= -1.85' (N) 10" PVC I.E.= -1.87' (S) 10" PVC

SAN. MH #SSMH-3877 R.E.= 8.93' I.E.= -0.66' (W) 10" PVC I.E.= -0.90' (S) 10" PVC

SAN. MH #SSMH-3878 R.E.= 8.93' I.E.= -0.68' (N) 10" PVC I.E.= -0.68' (S) 10" PVC

7.83% 8.22%

Hazen

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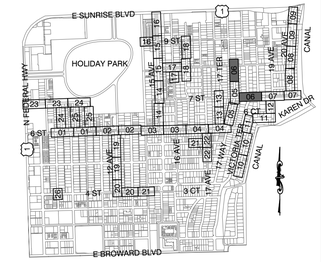
0 20' 40'



KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

MATCHLINE - SEE SHEET PG-05 BOTTOM VIEW, BOTTOM SIDE

N VICTORIA PARK ROAD

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)
INSTALL CONC APRON
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
MATCH AND CONNECT TO EX SIDEWALK
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK
EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)
APPLY 24" WHITE SOLID STOP BAR (TYP)
MATCH AND CONNECT TO EX SIDEWALK

EX SPECIAL POST W/SIGN R2-1 (TO REMAIN)
AREA SPEED LIMIT 25
EX SPECIAL POST W/SIGNS VICTORIA PARK NEIGHBORHOOD SIGNS, CUSTOM STREET NAME SIGNS, R1-1, R1-3P (TO REMAIN)
EX POST W/ SIGN R1-1(30"X30"), (2) D3-1s (TO REMAIN)
EX POST W/ SIGN W3-1 (TO REMAIN)
EX POST W/ SIGN W11-1 (TO REMAIN)

NE 7TH STREET

NE 18TH AVE

INSTALL 4" CONC SIDEWALK
INSTALL CONC APRON
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
EX POST W/ SIGN R1-1 (TO REMAIN)

SAN. MH #SSMH-4091 R.E.= 10.02' I.E.= -9.08' (E) 15" PVC I.E.= -8.98' (W) 15" PVC I.E.= -2.01' (N) 10" PVC I.E.= 1.57' (S) 10" PVC

SAN. MH #SSMH-4089 R.E.= 9.18' I.E.= -9.28' (E) 18" PVC I.E.= -9.26' (W) 15" PVC I.E.= 0.20' (N) 10" PVC

MATCHLINE - SEE SHEET PG-07 TOP VIEW, LEFTSIDE

ISSUED FOR BID

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No.: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO. PG-06
SHT # 104
TOTAL: 233
CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1831 of 2050

MATCHLINE - SEE SHEET PG-06 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET PG-12 TOP-LEFT VIEW, RIGHT SIDE

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 4" CONC SIDEWALK

MATCH AND CONNECT TO EX SIDEWALK

INSTALL CONC APRON

NE 7TH STREET

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")

INSTALL CONC APRON

NE 19TH AVE

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6"), R3-1s

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 4" CONC SIDEWALK

INSTALL CONC APRON

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")

MATCH AND CONNECT TO EX SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

MATCHLINE - SEE SHEET PG-08 TOP VIEW, LEFT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

INSTALL TYPE D CURB PER CITY DETAIL

FILL EX CONC. GUTTER WITH CONCRETE TO MATCH EX SIDEWALK GRADE AND PITCH

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

NE 20TH AVE

MATCH AND CONNECT TO EX CURB

INSTALL TYPE F CURB PER CITY DETAIL

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 6" CONC SIDEWALK

INSTALL POST W/ SIGN W1-6 (36"X18")

INSTALL POST W/ SIGN R1-1(30"X30"), D3-1s

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 6" YELLOW DOTTED (2'-4')

INSTALL 4" CONC SIDEWALK

INSTALL TYPE F CURB PER CITY DETAIL (TYP)

INSTALL 4" CONC SIDEWALK

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

NE 7TH STREET

APPLY 6" WHITE SOLID LINE

PROTECT OHE DURING CONSTRUCTION

INSTALL POST W/ SIGN W1-1(30"X30"), W13-1P(18"X6")

MATCH AND CONNECT TO EX SIDEWALK

PROTECT EX FIRE HYDRANT BEFORE CONSTRUCTION

EX POSTS W/ SIGNS W1-6, "NO PARKING" SIGN (TO REMAIN)

RESTORE EX GRAVEL DRIVEWAY APPROACH

INSTALL 6" CONC SIDEWALK

INSTALL CONC APRON

INSTALL 6" CONC SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY WHITE DIRECTIONAL ARROW PER BCTED DETAIL (TYP)

INSTALL POST W/ SIGN R5-1 (30"X30")

INSTALL 11'X15' RIPRAP AREA AT OUTFALL. REFER TO DETAIL ON SHEET DT-14.

INSTALL HINGED MANATEE GRATE AT OUTFALL. REFER TO DETAIL ON SHEET DT-15.

FOR PUMP STATION GRADING REFER TO SHEET PS-02

APPLY 6" YELLOW SOLID LINES

SAN. MH #13
R.E.= 2.15'
I.E.= -2.07' (SW) 8" PVC
I.E.= -2.02' (S) 8" PVC
I.E.= -2.17' (E) 8" VCP

SAN. MH #14
R.E.= 2.22'
I.E.= -1.72' (E) 8" PVC
I.E.= -1.76' (N) 8" PVC

SAN. MH #SSMH-4085
R.E.= 1.71'
I.E.= 2.63' (W) 12" PVC
I.E.= 2.56' (NE) 8" VCP
I.E.= 2.56' (E) 12" PVC

STM. MH #100215
R.E.= 1.38'
I.E.= 1.61' (SW) 12" DIP
I.E.= 3.31' (N) 12" DIP
I.E.= -1.58' (SE) 15" DIP
B.O.S.= -2.84'

SAN. MH #12
R.E.= 1.52'
I.E.= -0.62' (NW) 6" PVC
I.E.= -1.37' (S) 8" PVC
I.E.= -1.49' (NE) 8" PVC

MHW EL. = 0.33' (NAVD88)
MLW EL. = -1.92' (NAVD88)
AVG. EL. = 0.80' (NAVD88)

ISSUED FOR BID

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

KEY MAP

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ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO. PG-07 | SHT # 105

TOTAL: 233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1832 of 2050

MATCHLINE - SEE SHEET PG-07 BOTTOM VIEW, TOP SIDE

NE 7TH COURT

MATCH AND CONNECT TO EX CURB
INSTALL TYPE D CURB PER CITY DETAIL (TYP)
EXTEND TYPE D CURB
INSTALL TYPE D CURB PER CITY DETAIL
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX SIDEWALK
FILL EX CONC. GUTTER WITH CONCRETE TO MATCH EX SIDEWALK GRADE AND PITCH
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
INSTALL EX POST W/ SIGN R1-1(30"X30"), D3-1s
APPLY 24" WHITE SOLID STOP BAR (TYP)
APPLY 6" WHITE SOLID LINE
APPLY WHITE 2'-4' DOTTED LINE (TYP)
APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX SIDEWALK
INSTALL TYPE F CURB PER CITY DETAIL
APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
INSTALL 4" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK

NE 20TH AVE

MATCH AND CONNECT TO EX SIDEWALK
MATCH AND CONNECT TO EX CURB
INSTALL TYPE F CURB PER CITY DETAIL
INSTALL 6" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
APPLY 24" WHITE SOLID STOP BAR (TYP)
MATCH AND CONNECT TO EX CURB
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK
INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6"), R3-1s
INSTALL TYPE D CURB PER CITY DETAIL
MATCH AND CONNECT TO EX SIDEWALK
INSTALL TYPE D CURB PER CITY DETAIL
EXTEND TYPE D CURB
EX SIGNS ON UTILITY POLE R1-1, R1-3P (TO REMAIN)
APPLY 24" WHITE SOLID STOP BAR (TYP)

NE 7TH PLACE

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
INSTALL CONC APRON
INSTALL 6" CONC SIDEWALK
FILL EX CONC. GUTTER WITH CONCRETE TO MATCH EX SIDEWALK GRADE AND PITCH
EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)
APPLY 24" WHITE SOLID STOP BAR (TYP)
APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

MATCHLINE - SEE SHEET PG-09 BOTTOM-LEFT VIEW, LEFT SIDE

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
APPLY 24" WHITE SOLID STOP BAR (TYP)
INSTALL POST W/ SIGN R1-1 (30"X30"), R3-1s
INSTALL 4" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
APPLY WHITE 2'-4' DOTTED LINE (TYP)
APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)
MATCH AND CONNECT TO EX CURB
APPLY 6" WHITE SOLID LINE

NE 8TH AVE

PROTECT EX POST W/ SIGN, SOLAR PANEL AND ELECTRONIC SPEED SIGN DURING CONSTRUCTION
INSTALL 6" CONC SIDEWALK
INSTALL TYPE F CURB PER CITY DETAIL
MATCH AND CONNECT TO EX SIDEWALK
MATCH AND CONNECT TO EX CURB

NE 20TH AVE

APPLY 6" WHITE SOLID LINE
APPLY WHITE 2'-4' DOTTED LINE (TYP)
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX SIDEWALK
INSTALL 6" CONC SIDEWALK
APPLY 6" WHITE SOLID LINE
INSTALL TYPE F CURB PER CITY DETAIL
MATCH AND CONNECT TO EX CURB
RESTORE CONC HEADER CURB AND BRICK PAVER CROSSWALK SEE CITY STANDARD DETAIL ROAD-039
APPLY 6" YELLOW SKIP (10'-30')
APPLY WHITE 2'-4' DOTTED LINE (TYP)
INSTALL TYPE F CURB PER CITY DETAIL
INSTALL 6" CONC SIDEWALK
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
INSTALL 6" CONC SIDEWALK
INSTALL TYPE F CURB PER CITY DETAIL
MATCH AND CONNECT TO EX CURB
MATCH AND CONNECT TO EX SIDEWALK

MATCHLINE - SEE SHEET PG-09 BOTTOM-LEFT VIEW, LEFT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

ISSUED FOR BID

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

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0 20' 40'

KEY MAP

Sunshine811
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ENGINEER: DAVID E. CASTRO FELIU, P.E.
FLORIDA No: 85538
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

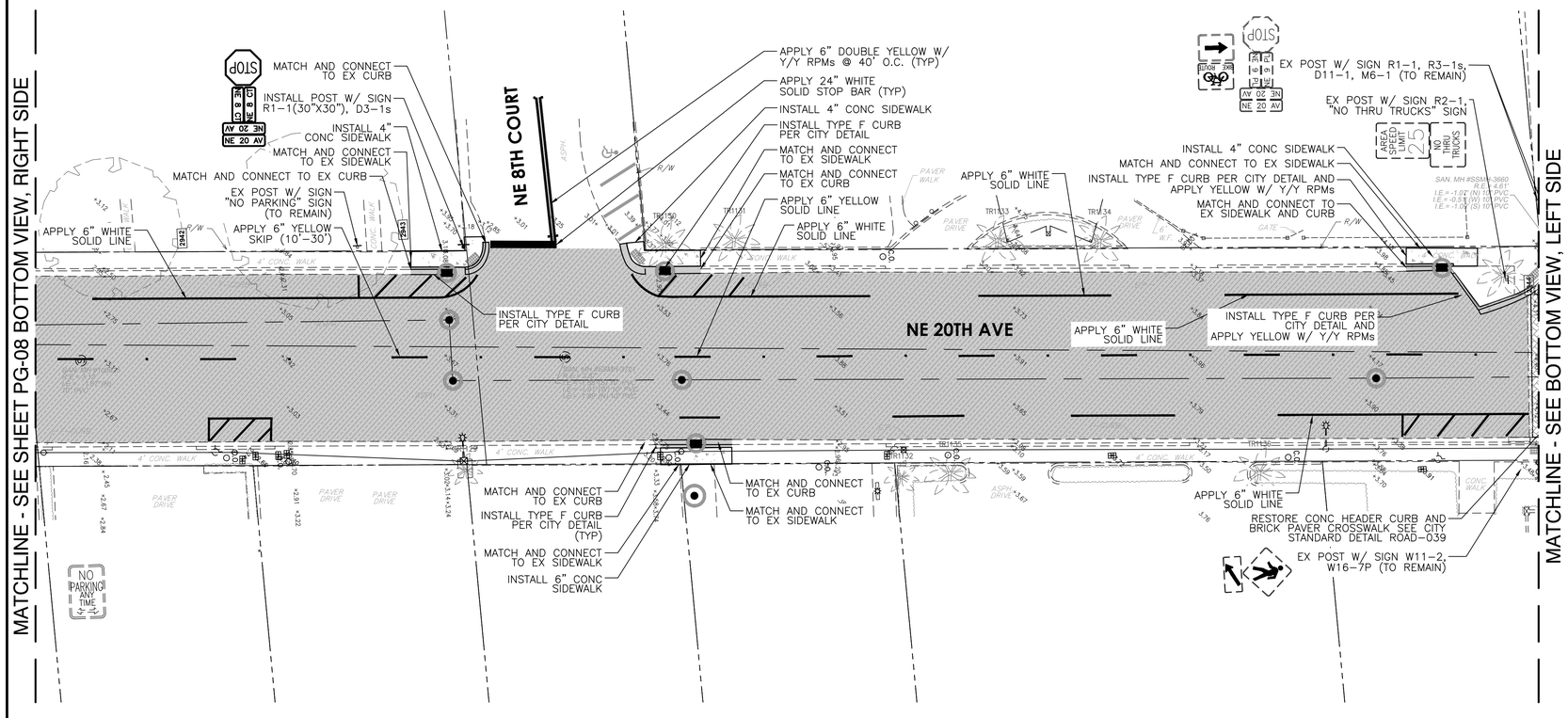
PAVING AND GRADING PLAN

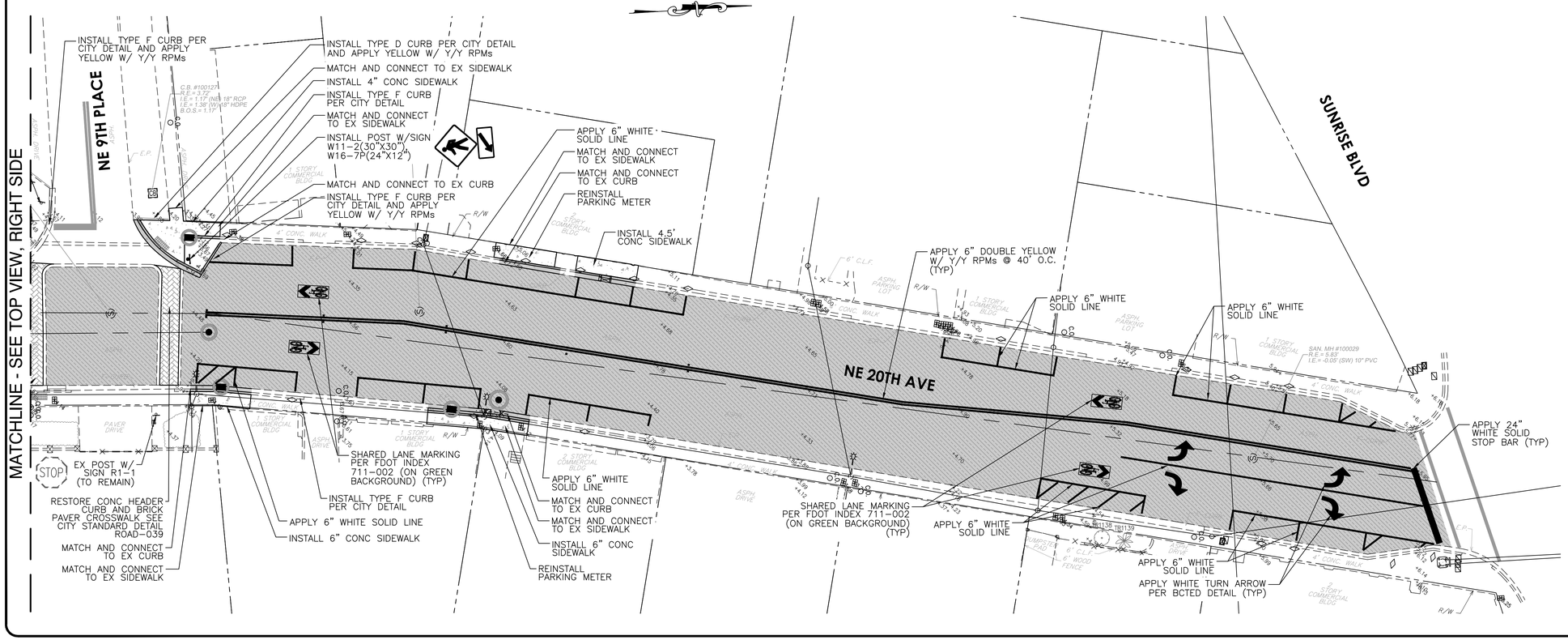
SHEET NO.	SHT #
PG-08	106

TOTAL: 233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88





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0 20' 40'

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- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

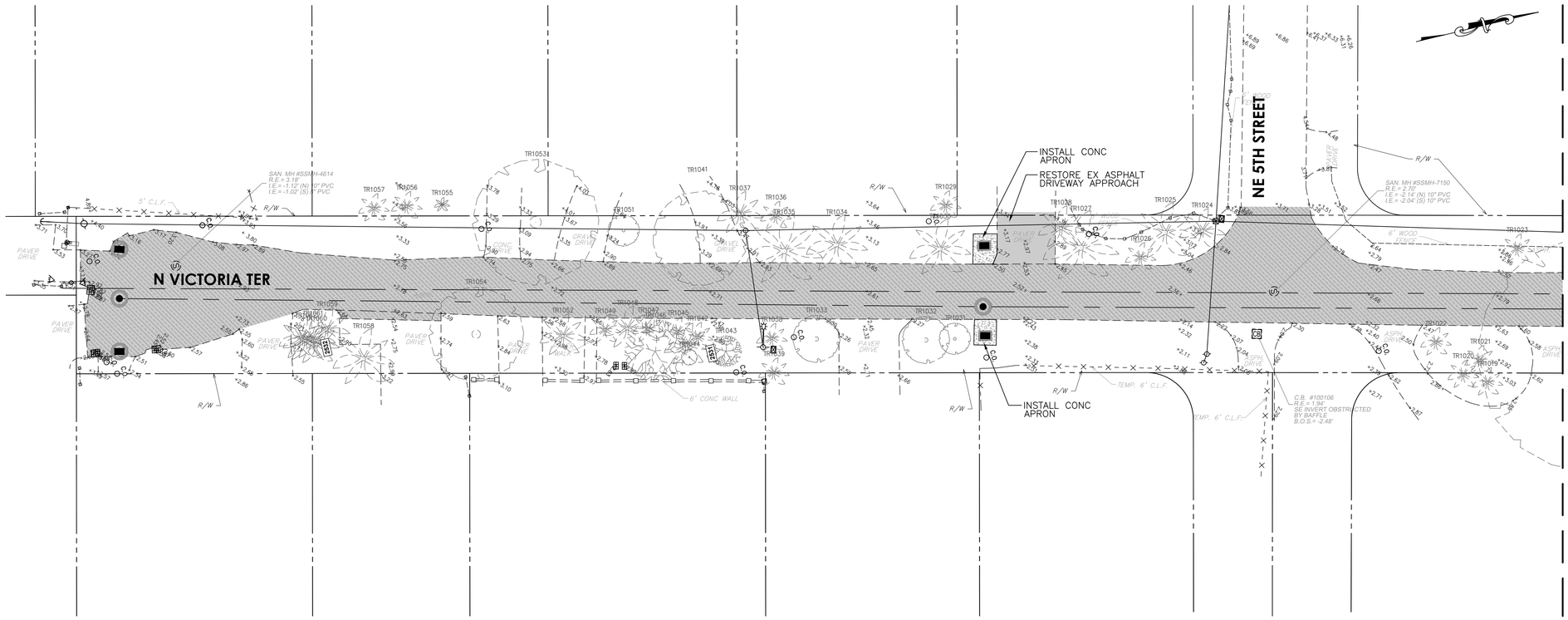
REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

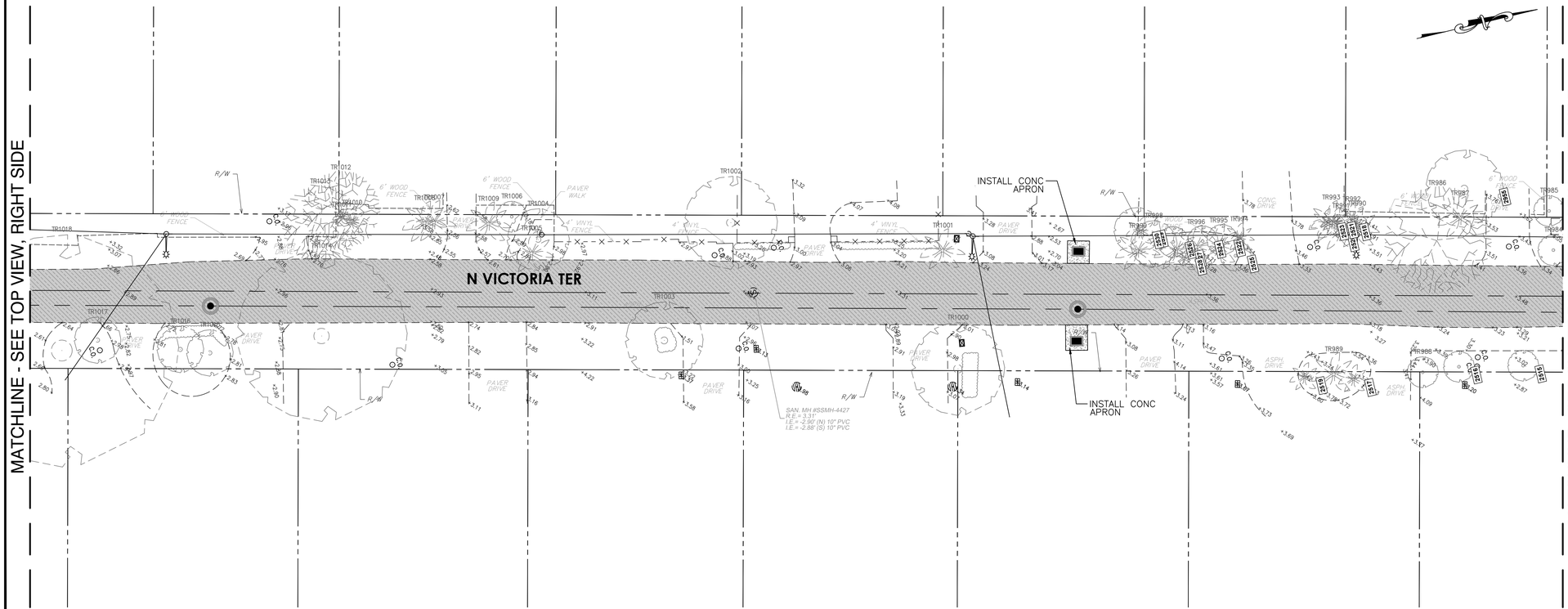
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-09	107
TOTAL:	233

CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88





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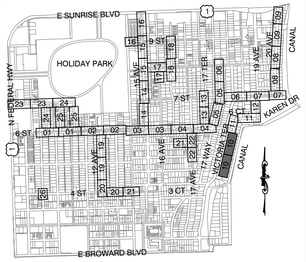
0 20' 40'



KEY MAP

Sunshine811

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- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	FIELD BOOK:
JLS	03/25/25	
DESIGNED BY:	SCALE:	
DECF	AS SHOWN	
CHECKED BY:		
JJM		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

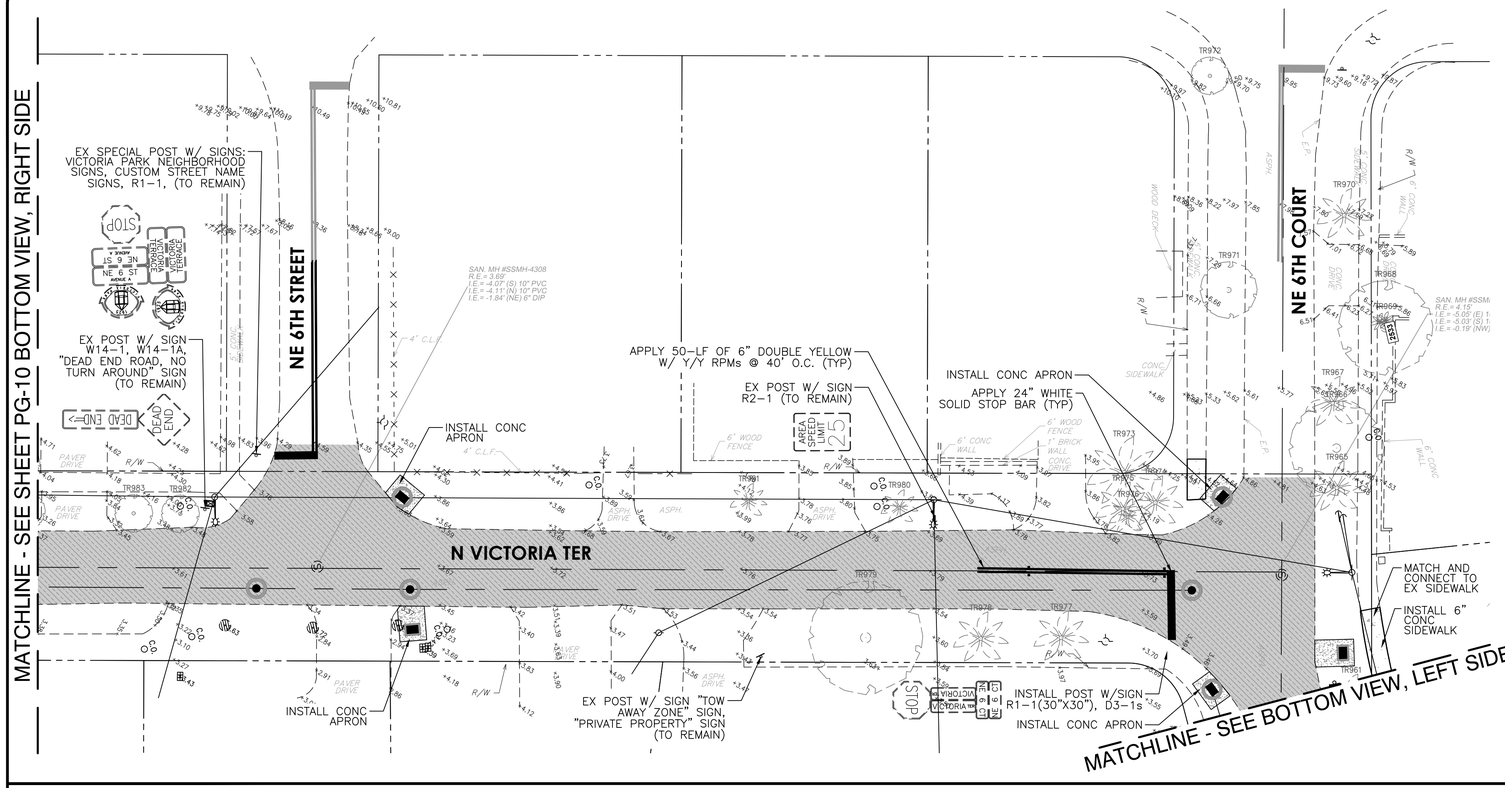
PAVING AND GRADING PLAN

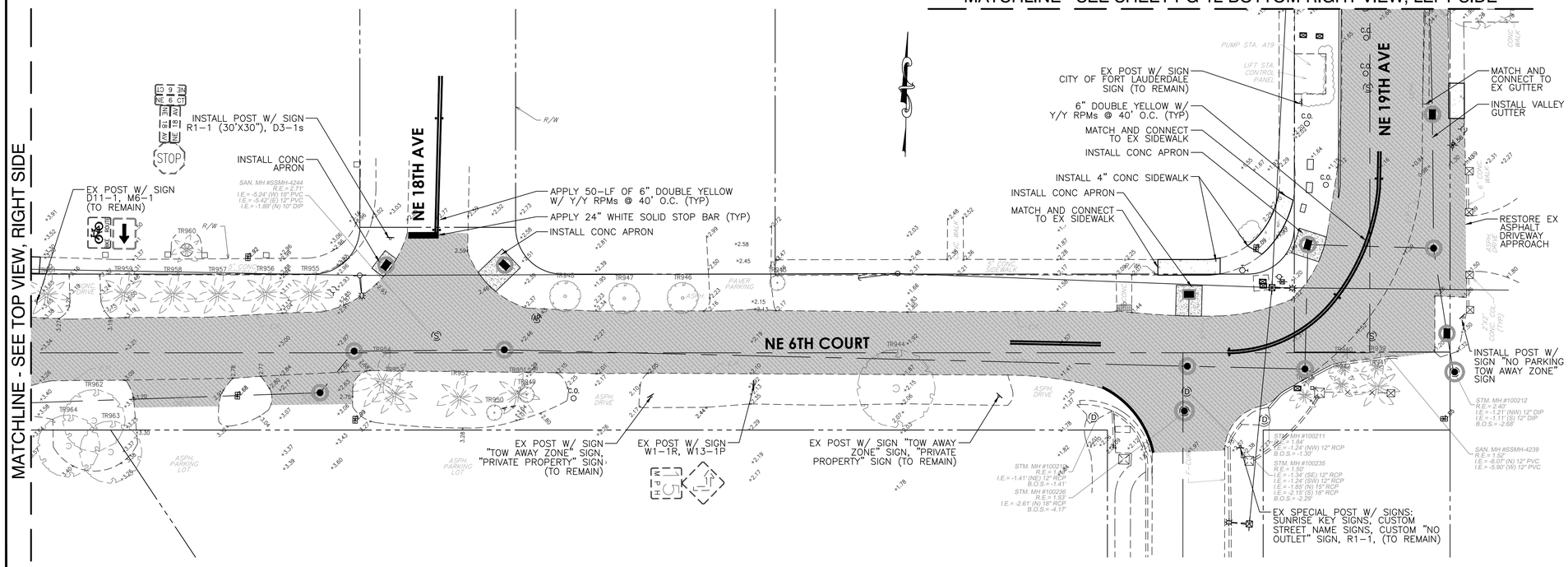
SHEET NO.	SHT #
PG-10	108

TOTAL: 233

CAD FILE:
12082-MULTI-GRAD

DRAWING FILE NO.
4-144-88



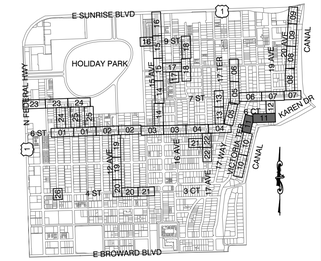


Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

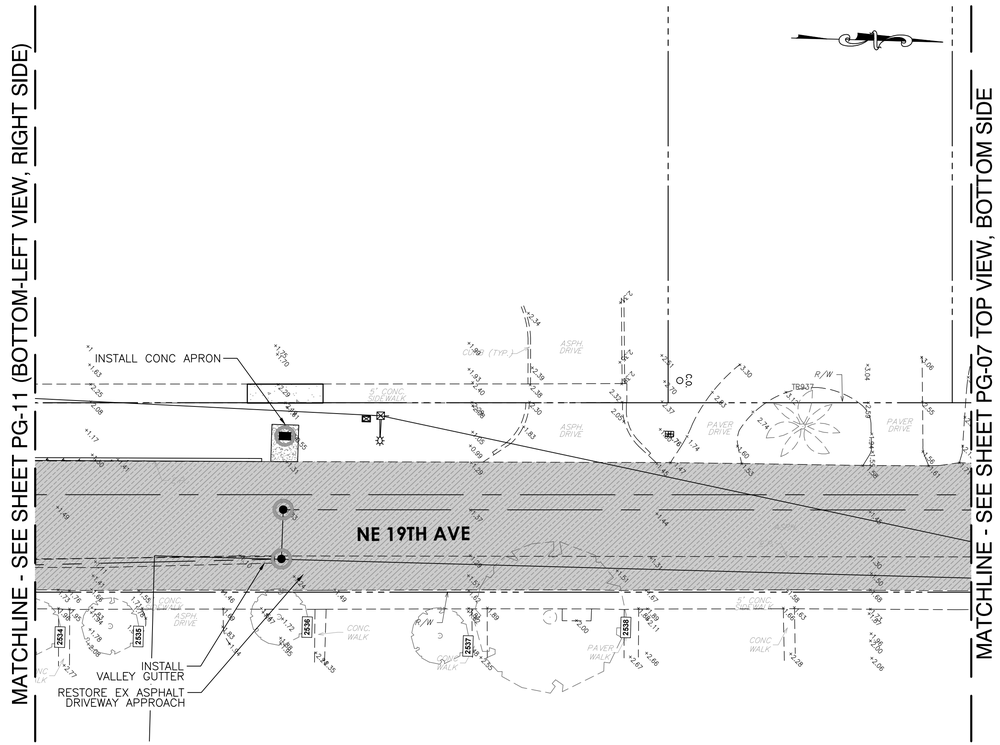
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-11	109
TOTAL:	233

CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88



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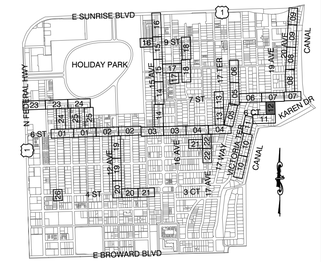
0 20' 40'



KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS	DESIGNED BY: DECF	CHECKED BY: JJM	FIELD BOOK:
DATE: 03/25/25	SCALE: AS SHOWN		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

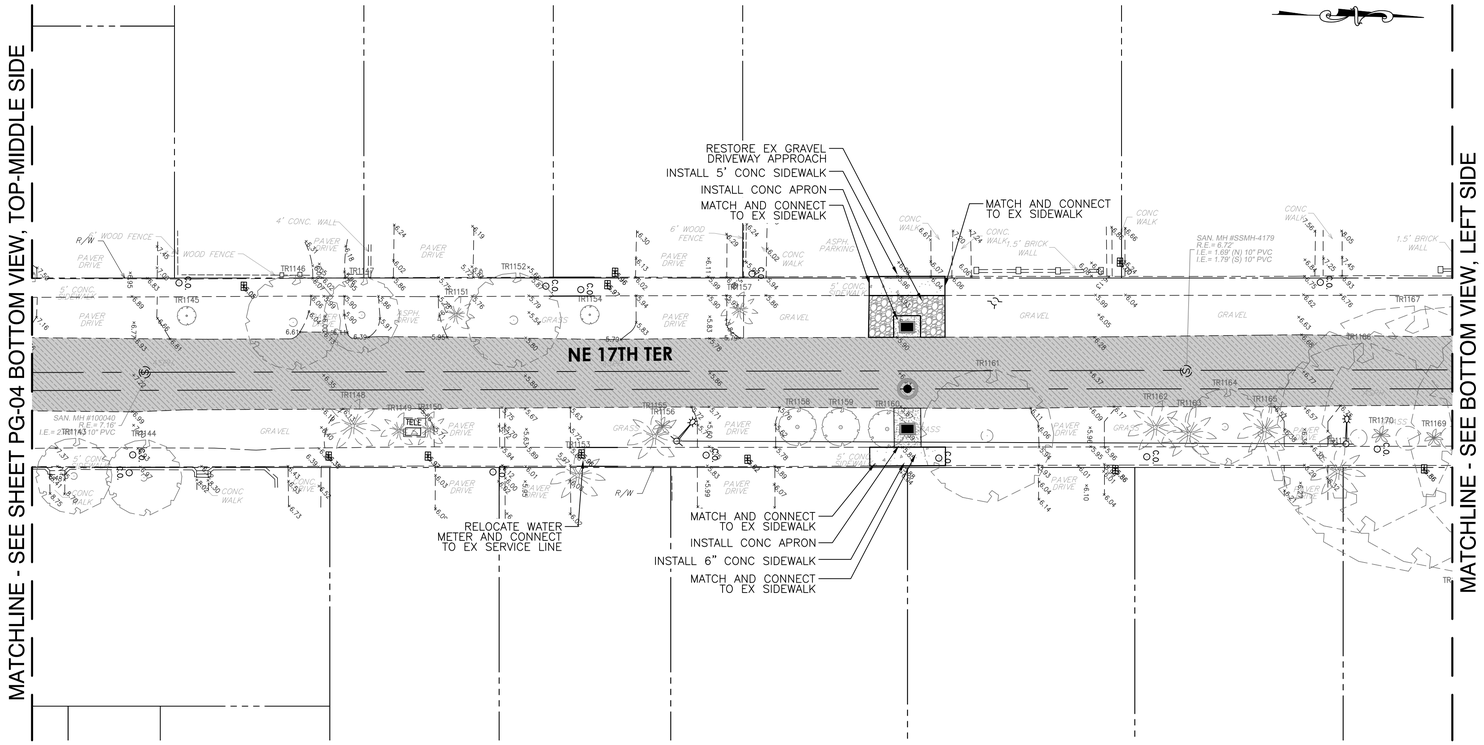
NO.	DATE	BY	CHK'D	DESCRIPTION

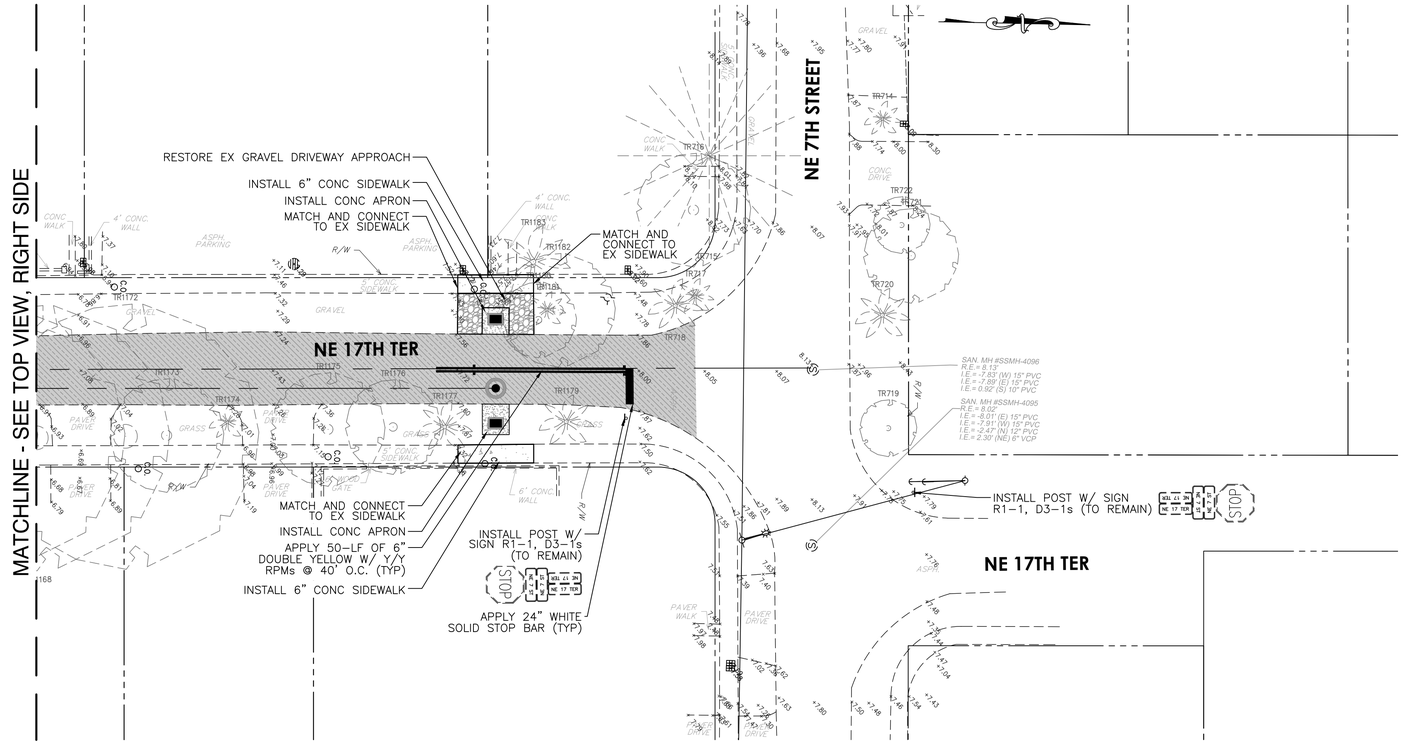
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-12	110
TOTAL:	233

CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88





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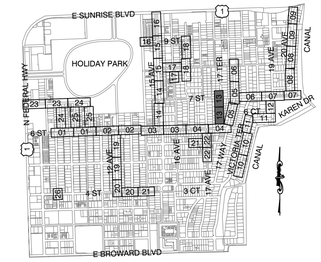

KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-13	111

TOTAL: 233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-03 TOP VIEW, TOP SIDE

INSTALL POST W/SIGN W17-1(30"X30")

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

REPLACE EXISTING ASPHALT SPEED HUMPS WITH 21'x6'x3" SPEED CUSHIONS BY TRAFFICLOGIX, OR APPROVED EQUAL. SEE SPEED HUMP DETAIL ON SHEET DT-17. (TYP)

INSTALL POST W/SIGN W13-1P (30"X30") (DOUBLE PLATE FRONT AND BACK)

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

NE 15TH AVE

NE 6TH COURT

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

INSTALL CONC APRON

REPLACE EXISTING ASPHALT SPEED HUMPS WITH 21'x6'x3" SPEED CUSHIONS BY TRAFFICLOGIX, OR APPROVED EQUAL. SEE SPEED HUMP DETAIL ON SHEET DT-17. (TYP)

EX POST W/ SIGN R1-1, D3-1s (TO REMAIN)

INSTALL POST W/SIGN W17-1(30"X30")

INSTALL CONC APRON

INSTALL 4" CONC SIDEWALK

MATCH AND CONNECT TO EX SIDEWALK

CLEAR LANDSCAPE AREA

CLEAR LANDSCAPE AREA

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

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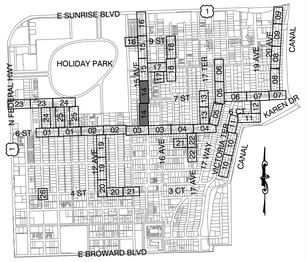

KEY MAP

Sunshine811

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MATCHLINE - SEE TOP VIEW, RIGHT SIDE

INSTALL POST W/ SIGN R1-1, R1-3P, W14-1 (TO REMAIN)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

EX POST W/ SIGN W14-1 (TO REMAIN)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX POST W/ SIGN R1-1, R1-3P TO REMAIN)

INSTALL CONC APRON

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")

NE 7TH STREET

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL CONC APRON

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6"), D3-1s

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

INSTALL POST W/SIGN W17-1(30"X30")

RESTORE EX BRICK PAVER DRIVEWAY APPROACH

RESTORE EX ASPHALT DRIVEWAY APPROACH

RESTORE EX GRAVEL DRIVEWAY APPROACH

RESTORE EX BRICK PAVER DRIVEWAY APPROACH

INSTALL POST W/SIGN W17-1(30"X30")

INSTALL CONC APRON

RESTORE EX GRAVEL DRIVEWAY APPROACH

INSTALL CONC APRON

REPLACE EXISTING ASPHALT SPEED HUMPS WITH 21'x6'x3" SPEED CUSHIONS BY TRAFFICLOGIX, OR APPROVED EQUAL. SEE SPEED HUMP DETAIL ON SHEET DT-17. (TYP)

NE 15TH AVE

MATCHLINE - SEE SHEET PG-15 TOP VIEW, LEFT SIDE

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-14	112
TOTAL:	233

CAD FILE:
12082-MULTI-GRAD

DRAWING FILE NO.
4-144-88

MATCHLINE - SEE SHEET PG-14 BOTTOM VIEW, RIGHT SIDE

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

RESTORE EX GRAVEL DRIVEWAY APPROACH

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6"), D3-1s

RESTORE EX ASPHALT DRIVEWAY APPROACH

MATCH AND CONNECT TO EX CURB

INSTALL FLUME

INSTALL TYPE D CURB PER CITY DETAIL

MATCH AND CONNECT TO EX CURB

RESTORE EX ASPHALT DRIVEWAY APPROACH

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL TYPE D CURB PER CITY DETAIL

MATCH AND CONNECT TO EX SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL 4" CONC SIDEWALK

MATCH AND CONNECT TO EX SIDEWALK

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

NE 15TH AVE

INSTALL FLUME

INSTALL TYPE D CURB PER CITY DETAIL

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

MATCH AND CONNECT TO EX CURB

INSTALL TYPE D CURB PER CITY DETAIL

MATCH AND CONNECT TO EX CURB

INSTALL CONC APRON

NE 8TH STREET

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1(30"X30"), R1-3P(18"X6")

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

RESTORE EX GRAVEL DRIVEWAY APPROACH

MATCHLINE - SEE SHEET PG-17 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET PG-16 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET PG-15 TOP VIEW, LEFT SIDE

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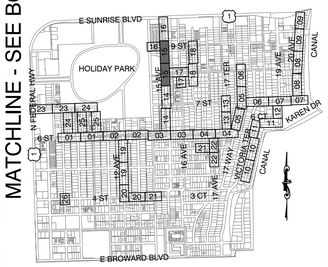
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

MATCHLINE - SEE SHEET PG-16 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET PG-16 TOP VIEW, LEFT SIDE

AREA SPEED LIMIT 25

EX POST W/ SIGN R2-1 (TO REMAIN)

MATCH AND CONNECT TO EX SIDEWALK

INSTALL POST W/SIGN W17-1(30"X30")

INSTALL 6" CONC SIDEWALK

INSTALL CONC APRON

MATCH AND CONNECT TO EX SIDEWALK

INSTALL POST W/ SIGN W17-1(30"X30"), W16-9P(24"X12")

NE 15TH AVE

INSTALL CONC APRON

REPLACE EXISTING ASPHALT SPEED HUMPS WITH 21'x6'x3" SPEED CUSHIONS BY TRAFFICLOGIX, OR APPROVED EQUAL. SEE SPEED HUMP DETAIL ON SHEET DT-17. (TYP)

INSTALL POST W/SIGN W17-1(30"X30")

RESTORE EX GRAVEL DRIVEWAY APPROACH

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

RESTORE CONC HEADER CURB AND BRICK PAVER CROSSWALK SEE CITY STANDARD DETAIL ROAD-039

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

INSTALL CONC APRON

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

EX POST W/ SIGN "ABSOLUTELY NO TRESPASSING" SIGN, "PET WASTE" SIGN (TO REMAIN)

APPLY 24" WHITE SOLID STOP BAR (TYP)

EX POST W/ SIGN R1-1, R1-3P, D3-1s (TO REMAIN)

MATCH AND CONNECT TO EX VALLEY GUTTER

INSTALL VALLEY GUTTER

INSTALL TYPE D CURB PER CITY DETAIL

NE 9TH STREET

EX POST W/ SIGN R4-11 (TO REMAIN)

MATCH AND CONNECT TO EX SIDEWALK

INSTALL 6" CONC SIDEWALK

INSTALL POST W/ SIGN R1-1, R1-3P

MATCH AND CONNECT TO EX SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

APPLY WHITE TURN ARROW PER BCTED DETAIL (TYP)

INSTALL TYPE F CURB PER CITY DETAIL

EX POST W/ SIGN R1-1, R1-3P (TO REMAIN)

APPLY 6" WHITE SOLID LINE W/ W/R RPMs @ 20' O.C.

APPLY 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

APPLY WHITE TURN ARROW PER BCTED DETAIL (TYP)

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
FLA. Reg. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

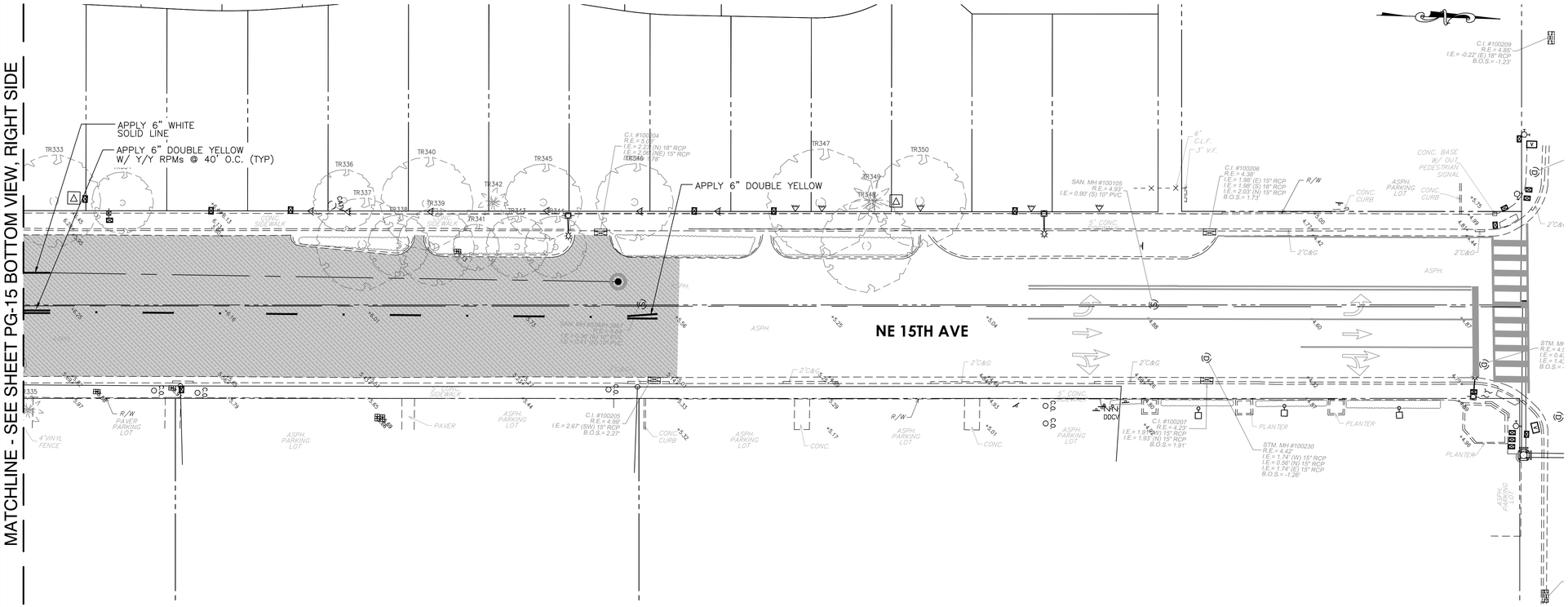
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-15	113
TOTAL:	233

CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-15 BOTTOM VIEW, RIGHT SIDE



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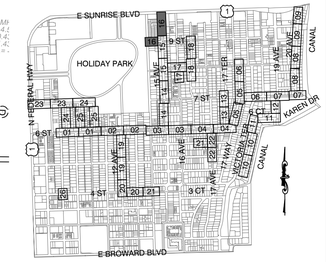
0 20' 40'



KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

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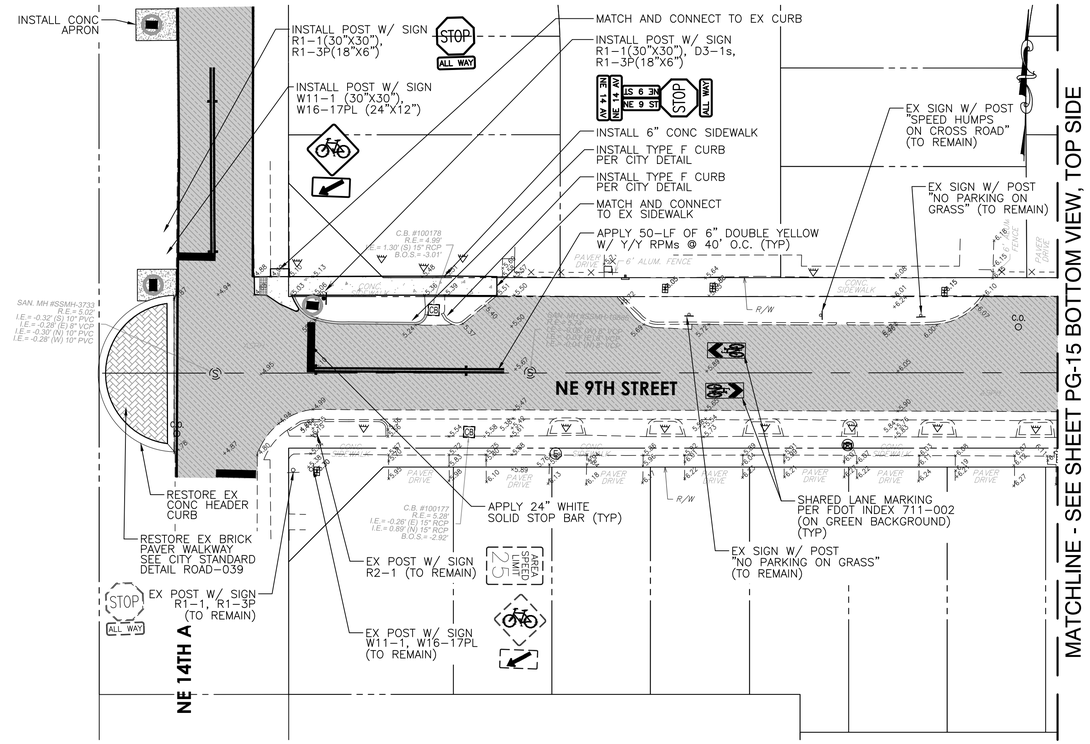


MATCHLINE - SEE SHEET PG-15 BOTTOM VIEW, TOP SIDE

ISSUED FOR BID

ENGINEER:	DAVID E. CASTRO FELIU, P.E.
REG. No:	65538
DATE:	
TEL:	954.730.0707
FAX:	954.730.2030
DRAWN BY:	JLS
DESIGNED BY:	DECF
CHECKED BY:	JJM
DATE:	03/25/25
SCALE:	AS SHOWN
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

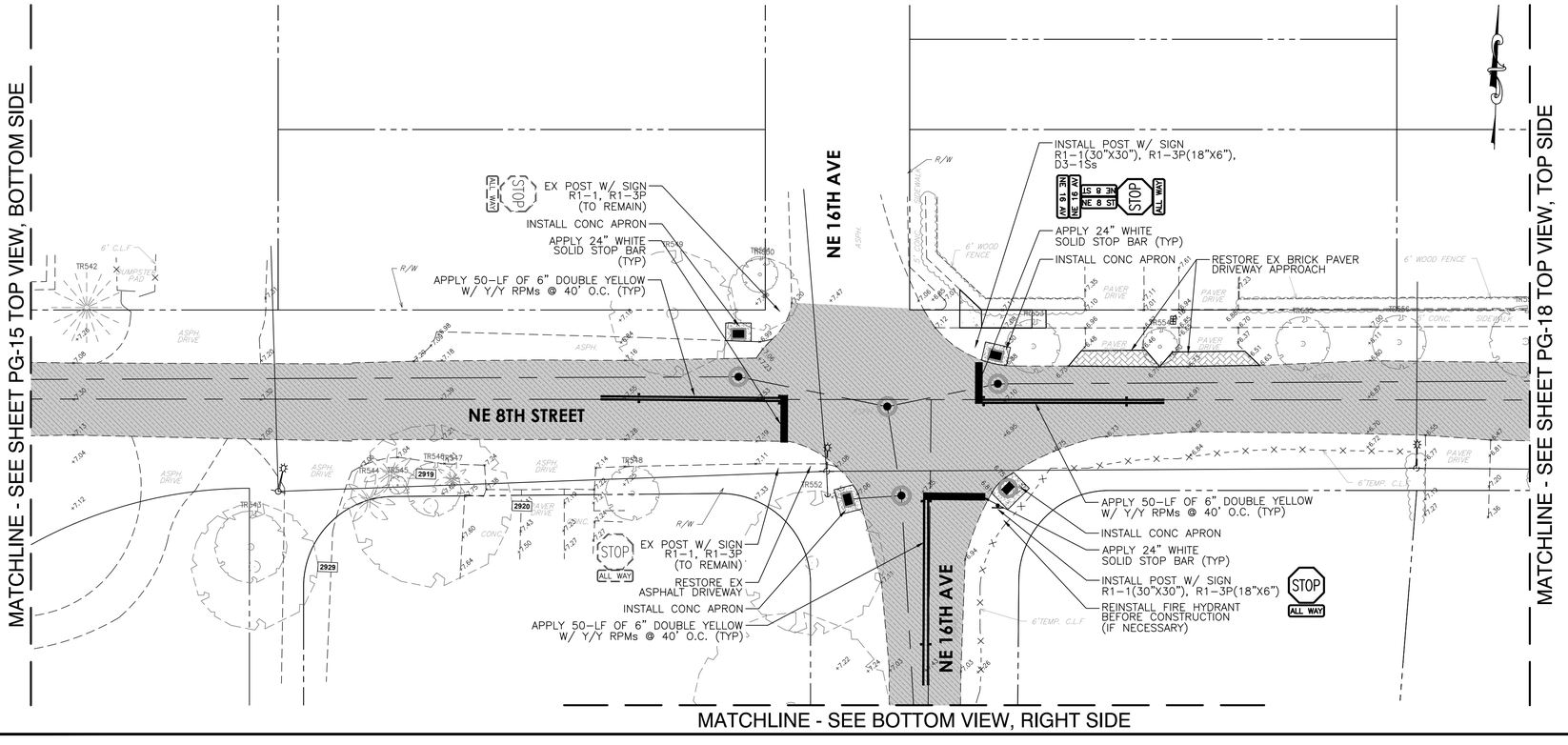
NO.	DATE	BY	CHK'D	DESCRIPTION

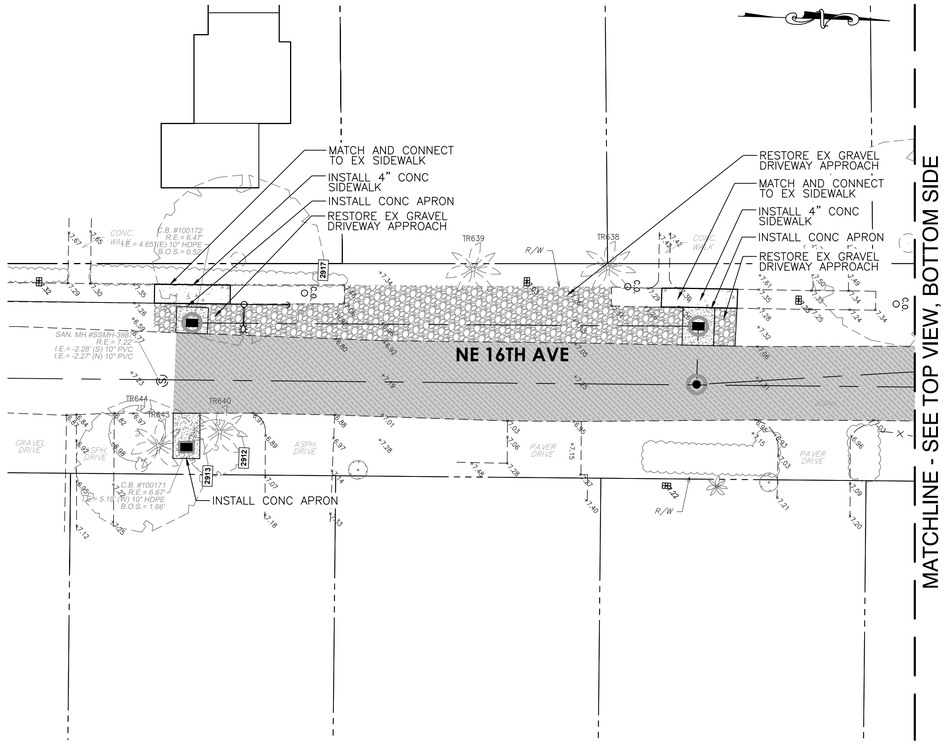
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-16	114
TOTAL:	233
CAD FILE:	12082-MULTI-GRAD
DRAWING FILE NO.	4-144-88

CAM #25-0925
Exhibit 1F
Page 1841 of 2050





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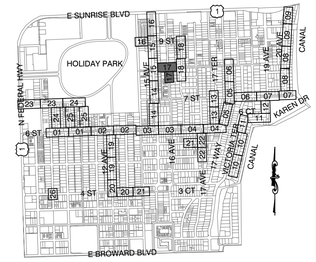

KEY MAP

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- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
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DRAWN BY: JLS | DATE: 03/25/25
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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

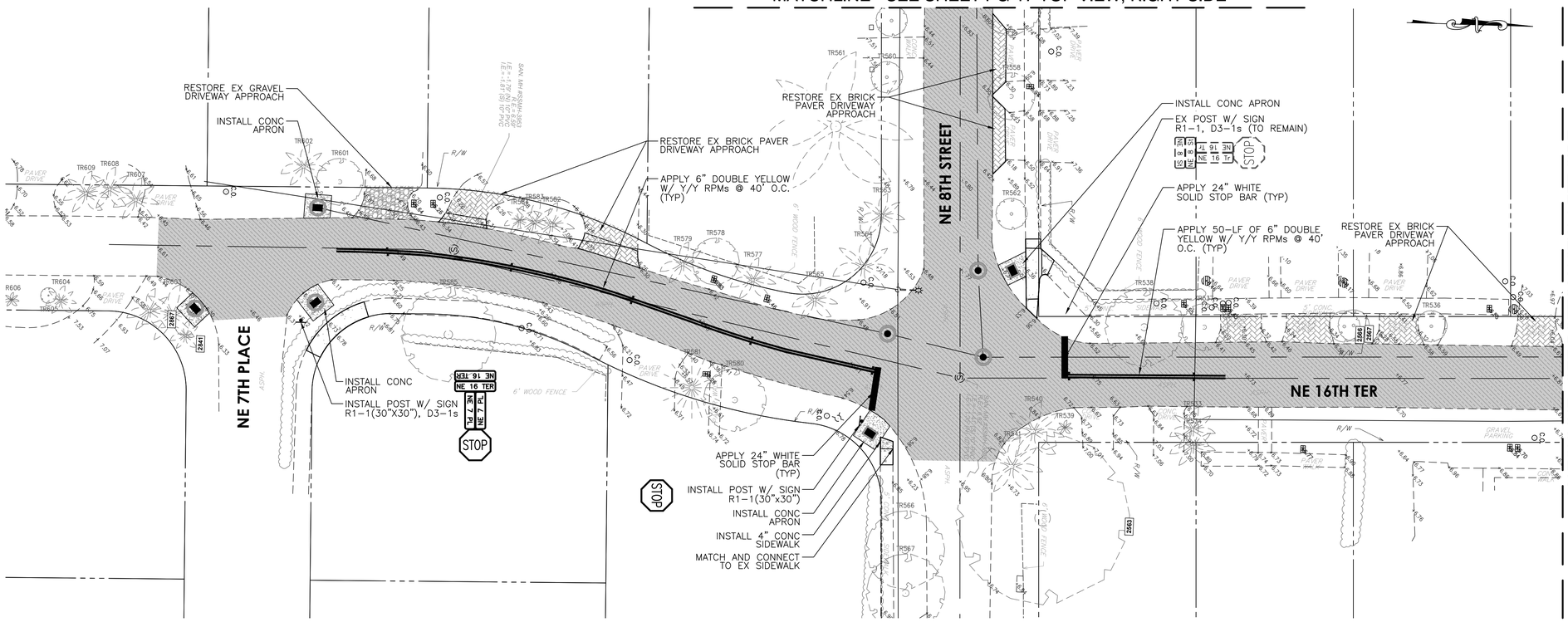
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

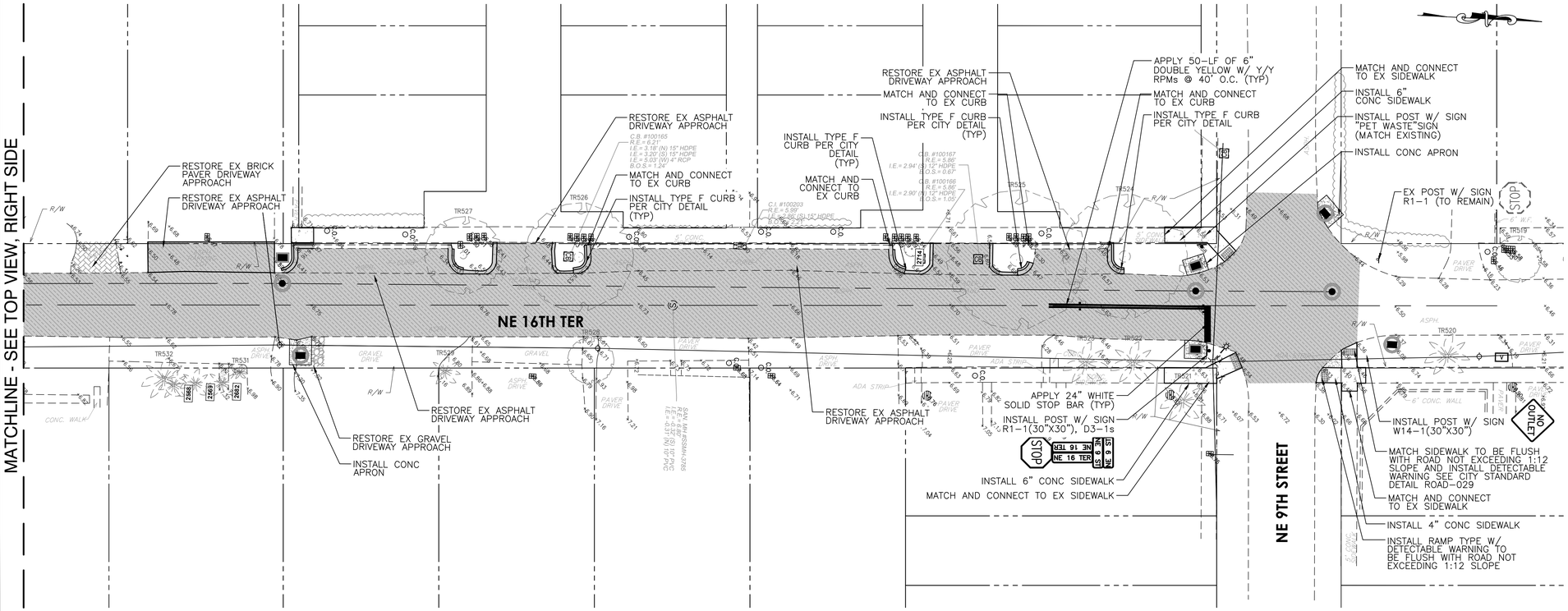
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-17	115
TOTAL:	233
CAD FILE: 12082-MULTI-GRAD	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET PG-17 TOP VIEW, RIGHT SIDE



MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE



MATCHLINE - SEE TOP VIEW, RIGHT SIDE

RESTORATION HATCH LEGEND:

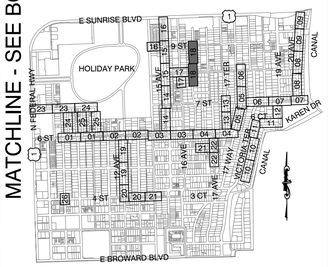
- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ISSUED FOR BID

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PAVING AND GRADING PLAN

SHEET NO. PG-18
SHT # 116
TOTAL: 233
CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-20 TOP VIEW, RIGHT SIDE

NE 12TH AVE

NE 5TH STREET

INSTALL 6" CONC SIDEWALK
MATCH AND CONNECT TO EX SIDEWALK
APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL CONC APRON
EX POST W/ SIGN R1-1 (TO REMAIN)

APPLY 24" WHITE SOLID STOP BAR (TYP)

RESTORE EX GRAVEL DRIVEWAY APPROACH

APPLY 50-LF OF 6" DOUBLE YELLOW W/ Y/Y RPMs @ 40' O.C. (TYP)

INSTALL CONC APRON

RESTORE EX BRICK PAVER DRIVEWAY APPROACH

INSTALL CONC APRON
MATCH AND CONNECT TO EX SIDEWALK
INSTALL 6" CONC SIDEWALK

APPLY 24" WHITE SOLID STOP BAR (TYP)

INSTALL POST W/ SIGN R1-1(30"X30"), D3-1s

INSTALL CONC APRON

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

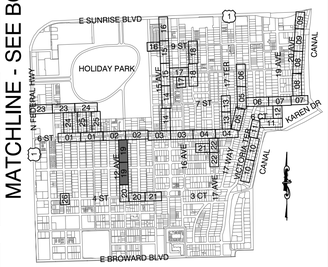
Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

NE 12TH AVE

RESTORE EX BRICK PAVER DRIVEWAY APPROACH SEE CITY STANDARD DETAIL ROAD-039

RESTORE EX BRICK PAVER DRIVEWAY APPROACH SEE CITY STANDARD DETAIL ROAD-039

RESTORE EX GRAVEL DRIVEWAY APPROACH

INSTALL CONC APRON

MATCHLINE - SEE SHEET PG-02 TOP VIEW, BOTTOM SIDE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

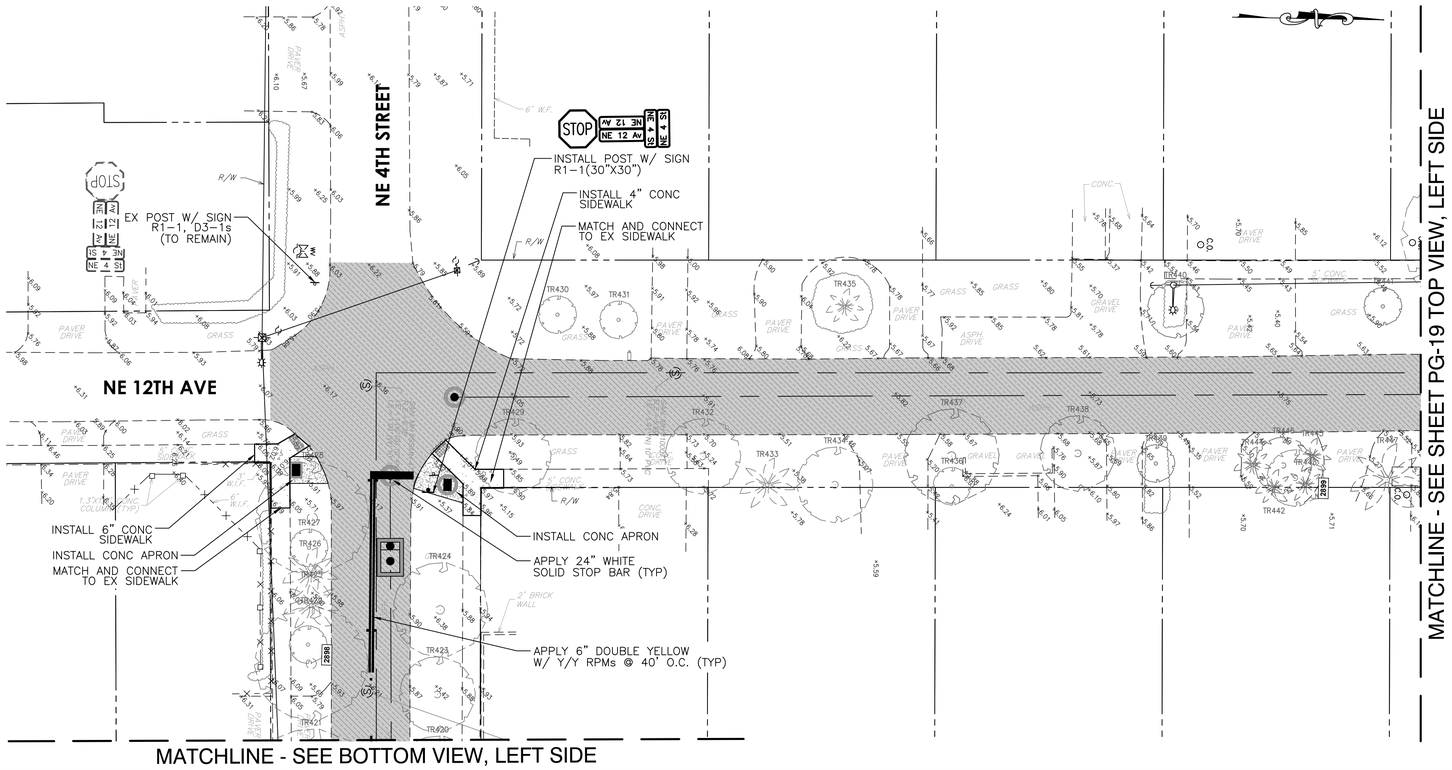
REVISIONS

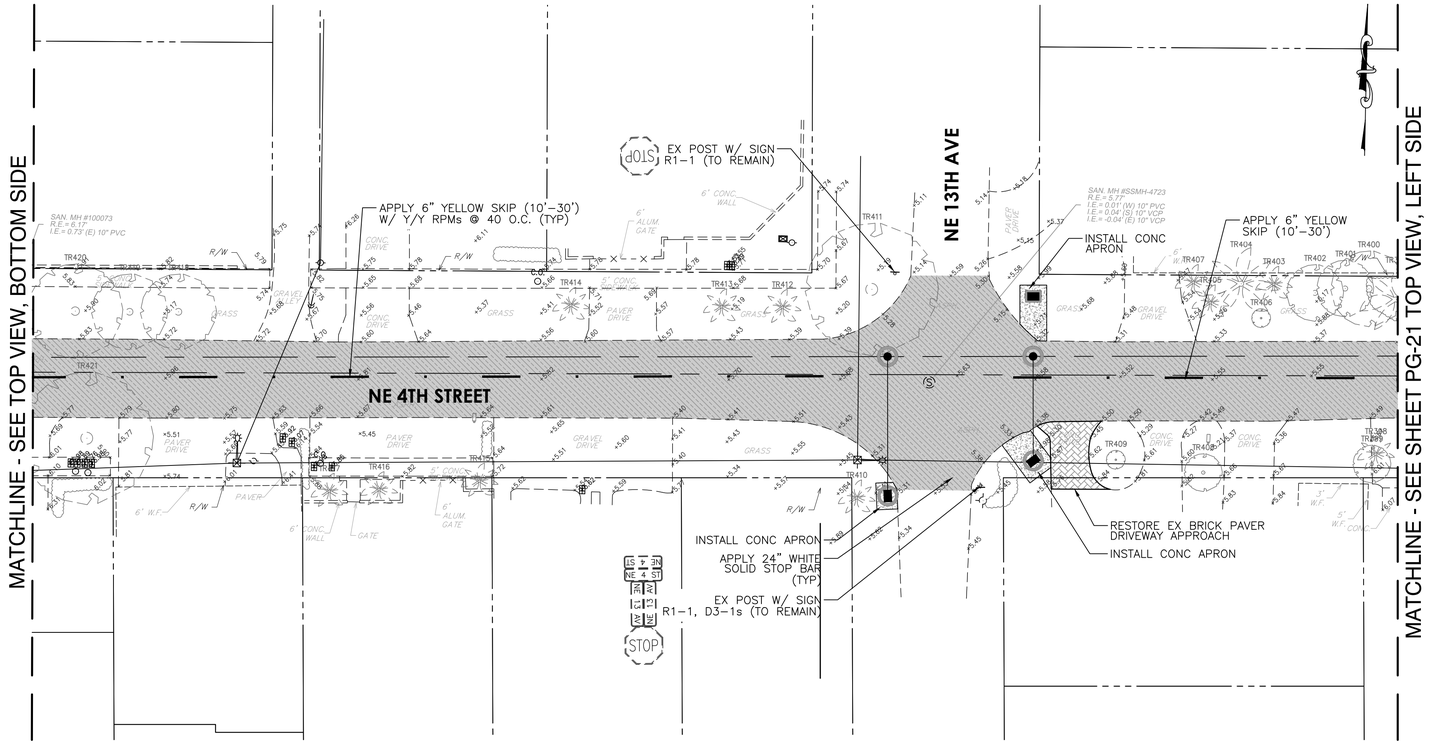
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO. PG-19
SHT # 117
TOTAL: 233
CAD FILE: 12082-MULTI-GRAD
DRAWING FILE NO. 4-144-88



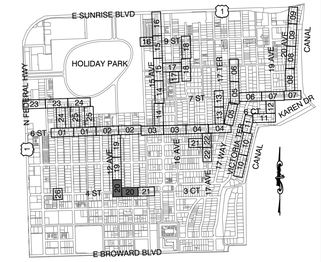


Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

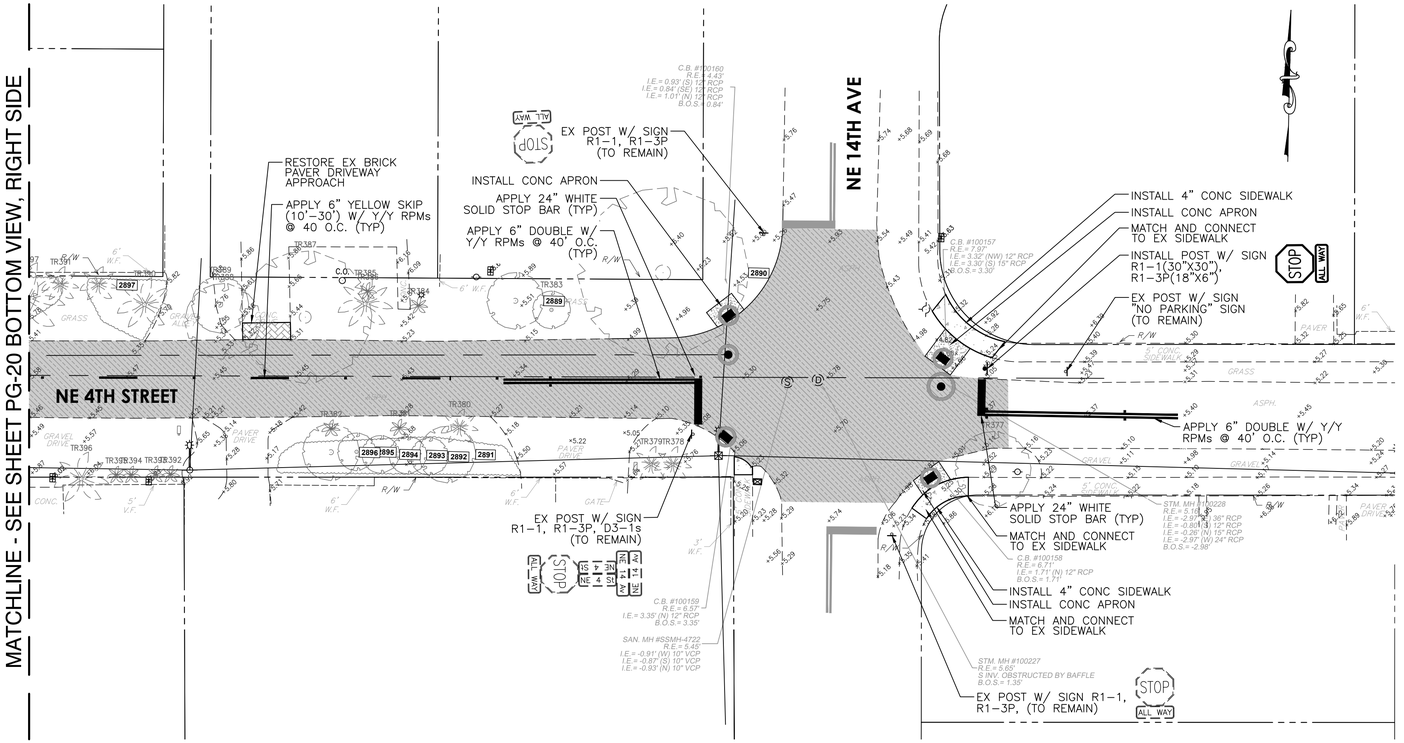
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-20	118
TOTAL:	233

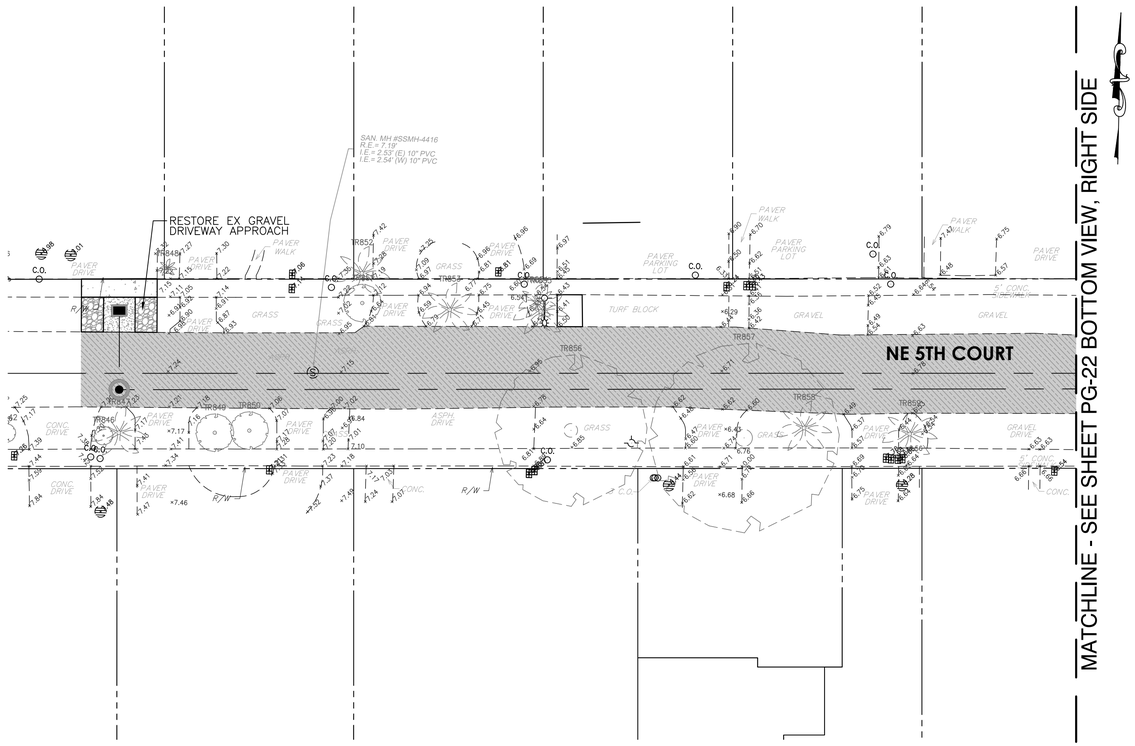
CAD FILE: 12082-MULTI-GRAD

DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-20 BOTTOM VIEW, RIGHT SIDE



MATCHLINE - SEE SHEET PG-22 BOTTOM VIEW, RIGHT SIDE



RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

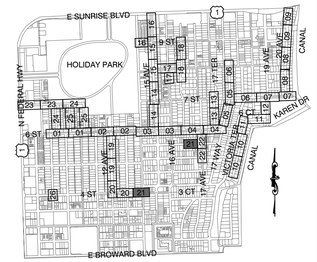
ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

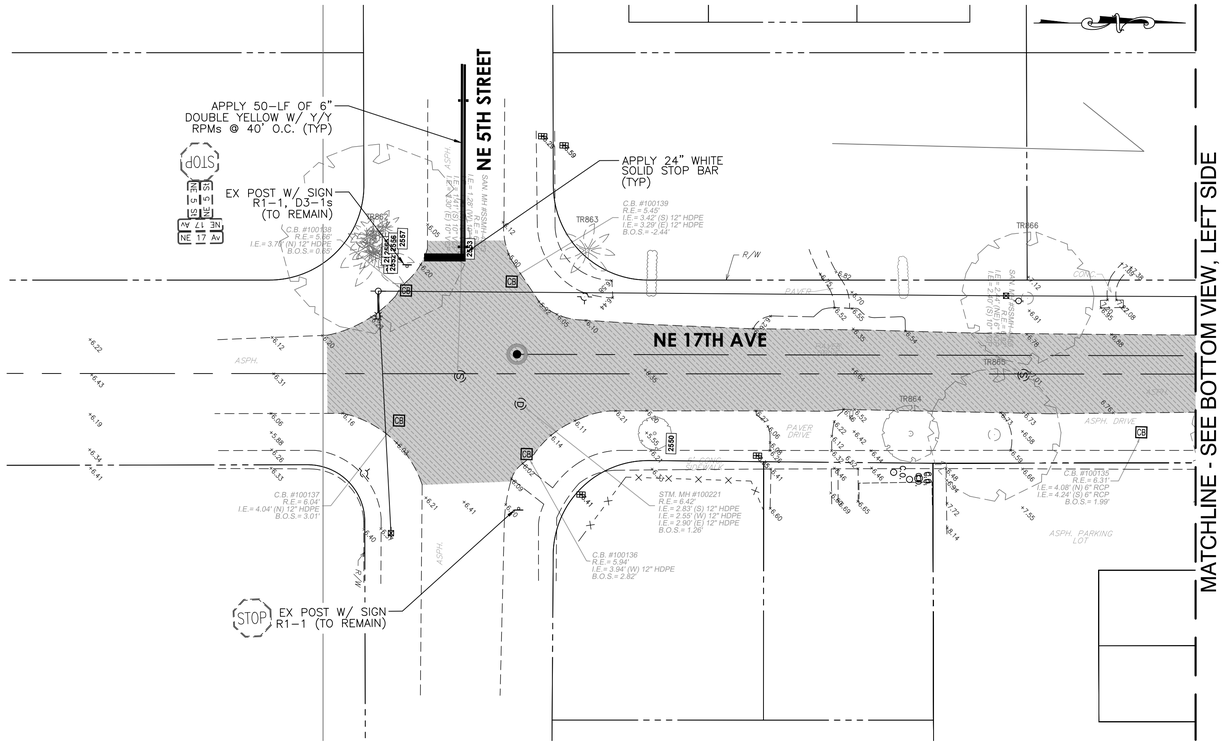
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

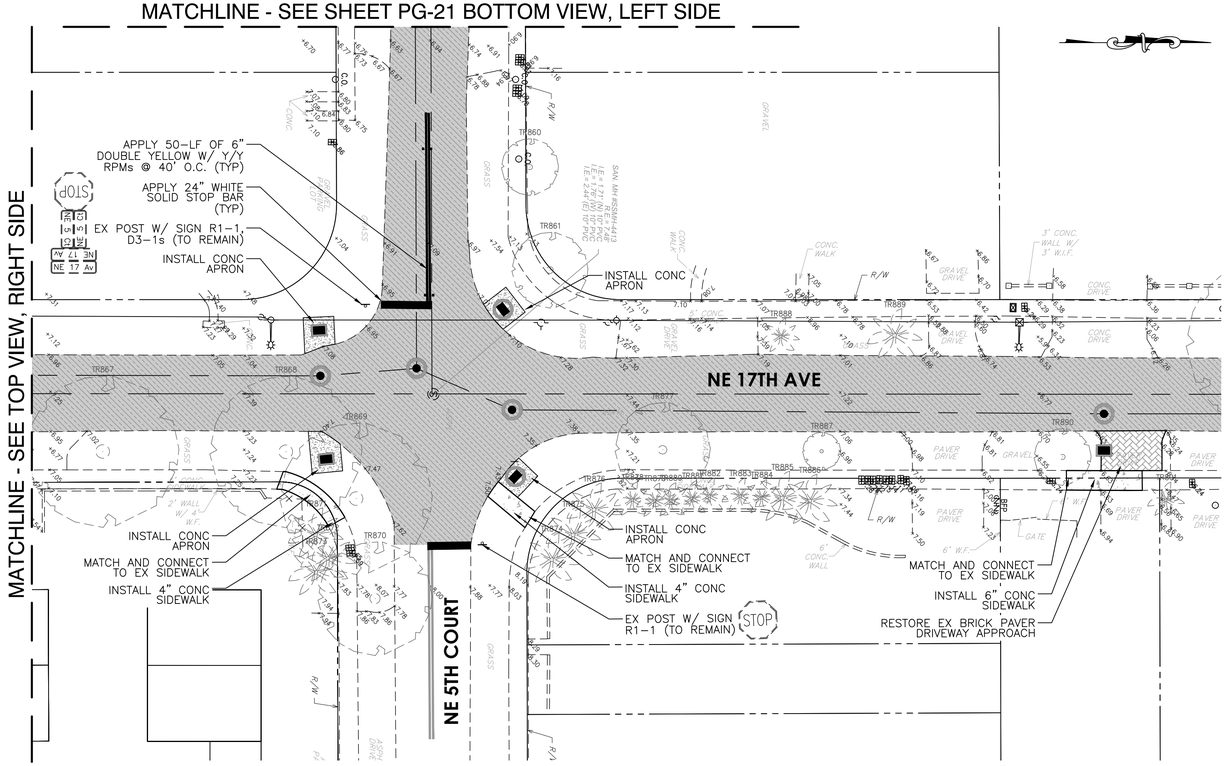
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-21	119
TOTAL:	233
CAD FILE: 12082-MULTI-GRAD	
DRAWING FILE NO. 4-144-88	



MATCHLINE - SEE SHEET PG-21 BOTTOM VIEW, LEFT SIDE



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
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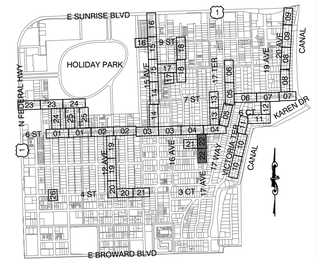
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No. 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

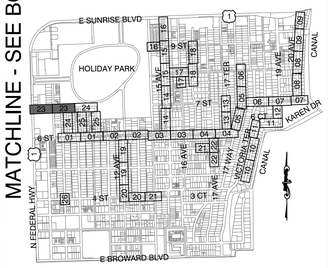
REVISIONS			
NO.	DATE	BY CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-22	120
TOTAL:	233
CAD FILE: 12082-MULTI-GRAD	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE



KEY MAP

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'

Sunshine811

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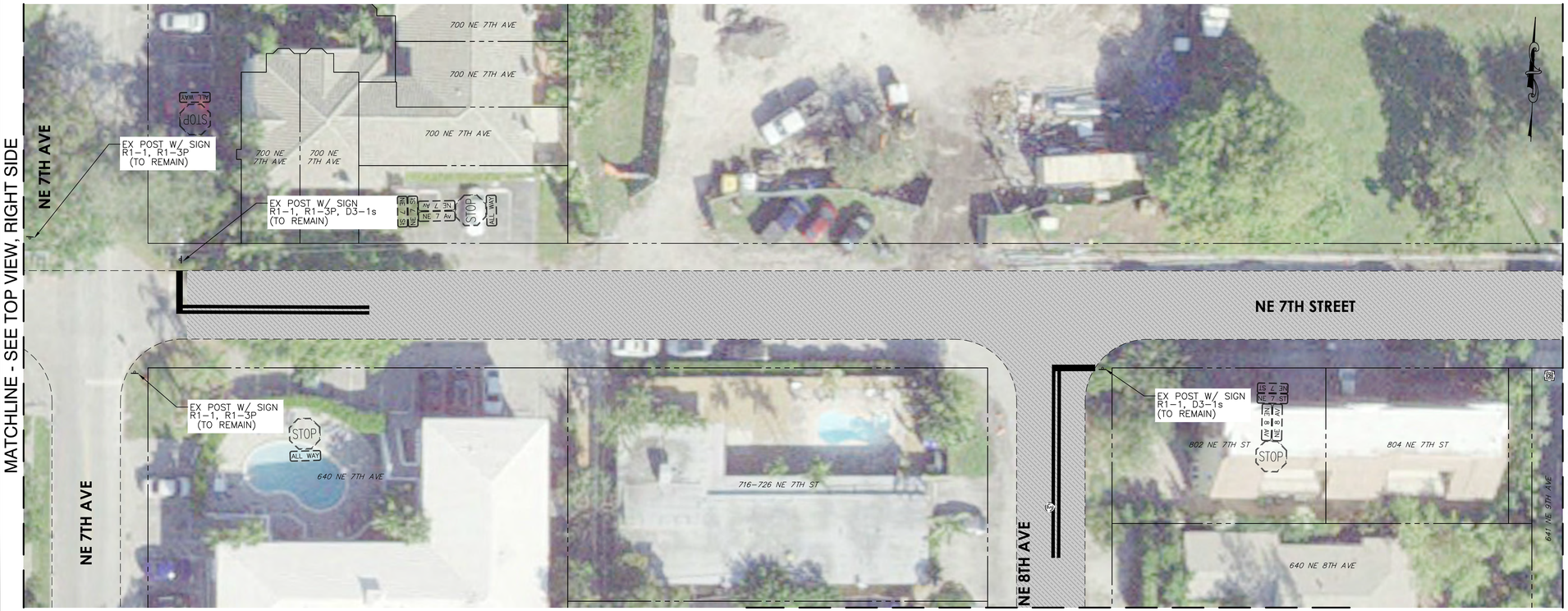
Check positive response codes before you dig!



MATCHLINE - SEE SHEET PG-24 TOP VIEW, LEFT SIDE

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

NOTES:

1. **CONTRACTOR SHALL NOT PROCEED WITH THE SCOPE OF WORK PRESENTED ON THIS SHEET WITHOUT WRITTEN APPROVAL FROM THE CITY AND THE ENGINEER.**
2. **SITE INFORMATION ON THIS SHEET WAS PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER, INCLUDING AERIAL IMAGERY AND GIS MAPS.**
3. **A TOPOGRAPHIC SURVEY WAS NOT PERFORMED FOR THIS AREA.**

MATCHLINE - SEE SHEET PG-24 BOTTOM VIEW, RIGHT SIDE

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-23	121

TOTAL: 233

CAD FILE:
12082-MULTI-GRAD-ADDT

DRAWING FILE NO.
4-144-88

RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

NOTES:

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2. **SITE INFORMATION ON THIS SHEET WAS PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER, INCLUDING AERIAL IMAGERY AND GIS MAPS.**
3. **A TOPOGRAPHIC SURVEY WAS NOT PERFORMED FOR THIS AREA.**

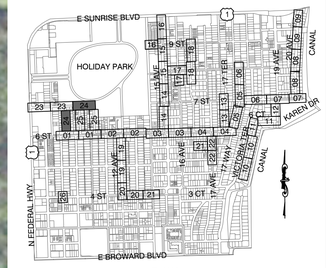
ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-24	122

TOTAL: 233

CAD FILE:
12082-MULTI-GRAD-ADDT

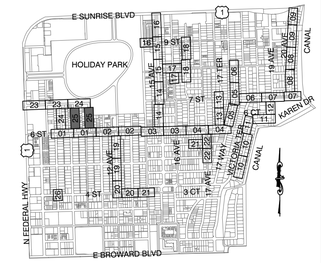
DRAWING FILE NO.
4-144-88

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

NOTES:

1. **CONTRACTOR SHALL NOT PROCEED WITH THE SCOPE OF WORK PRESENTED ON THIS SHEET WITHOUT WRITTEN APPROVAL FROM THE CITY AND THE ENGINEER.**
2. **SITE INFORMATION ON THIS SHEET WAS PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER, INCLUDING AERIAL IMAGERY AND GIS MAPS.**
3. **A TOPOGRAPHIC SURVEY WAS NOT PERFORMED FOR THIS AREA.**

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE: 03/25/25
JLS	
DESIGNED BY:	SCALE: AS SHOWN
DECF	
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

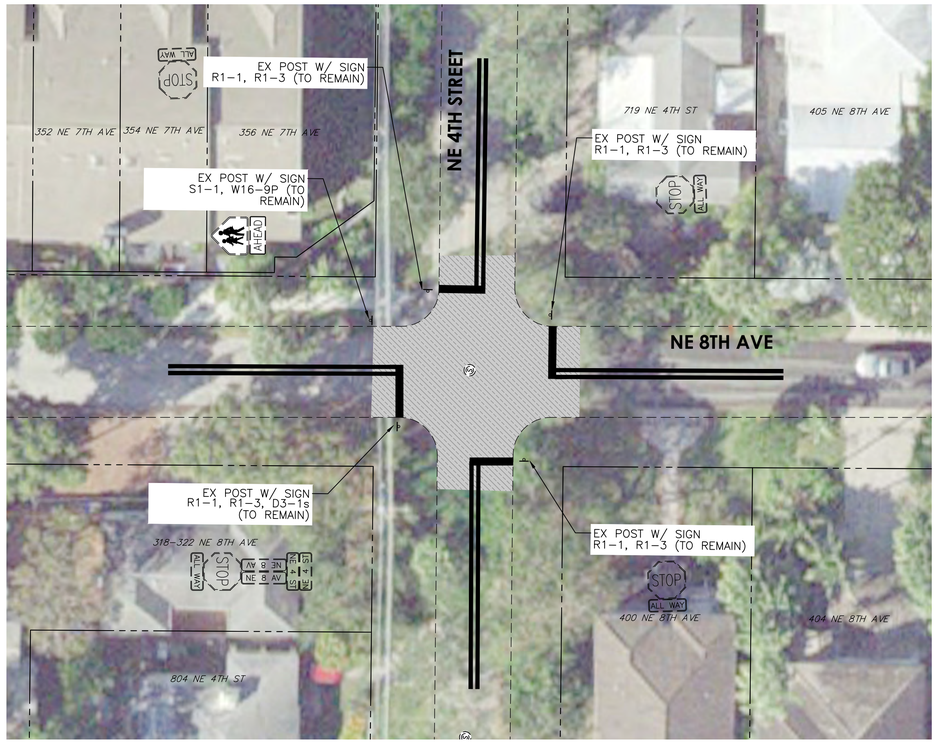
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-25	123
TOTAL:	233

CAD FILE:
12082–MULTI–GRAD–ADDT

DRAWING FILE NO.
4–144–88

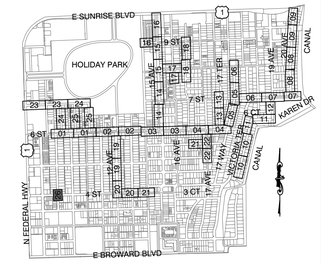


Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 20' 40'



KEY MAP

Sunshine811

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RESTORATION HATCH LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- GRASSY SWALE

NOTES:

1. **CONTRACTOR SHALL NOT PROCEED WITH THE SCOPE OF WORK PRESENTED ON THIS SHEET WITHOUT WRITTEN APPROVAL FROM THE CITY AND THE ENGINEER.**
2. **SITE INFORMATION ON THIS SHEET WAS PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER, INCLUDING AERIAL IMAGERY AND GIS MAPS.**
3. **A TOPOGRAPHIC SURVEY WAS NOT PERFORMED FOR THIS AREA.**

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE: 03/25/25
JLS	
DESIGNED BY:	SCALE: AS SHOWN
DECF	
CHECKED BY:	FIELD BOOK:
JJM	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

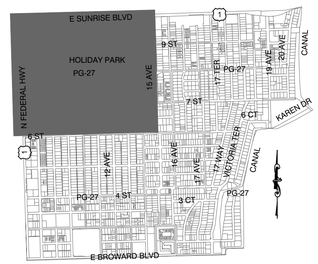
PAVING AND GRADING PLAN

SHEET NO.	SHT #
PG-26	124
TOTAL:	233

CAD FILE:
12082-MULTI-GRAD-ADDT

DRAWING FILE NO.
4-144-88

SWALE DATA TABLE		
SWALE #	LENGTH	DESCRIPTION
32	28'-0"	North
35	40'-0"	North
36	50'-0"	West
37	59'-0"	West



KEY MAP

0 150' 300'

LEGEND

NEW/RESTORE SWALE

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

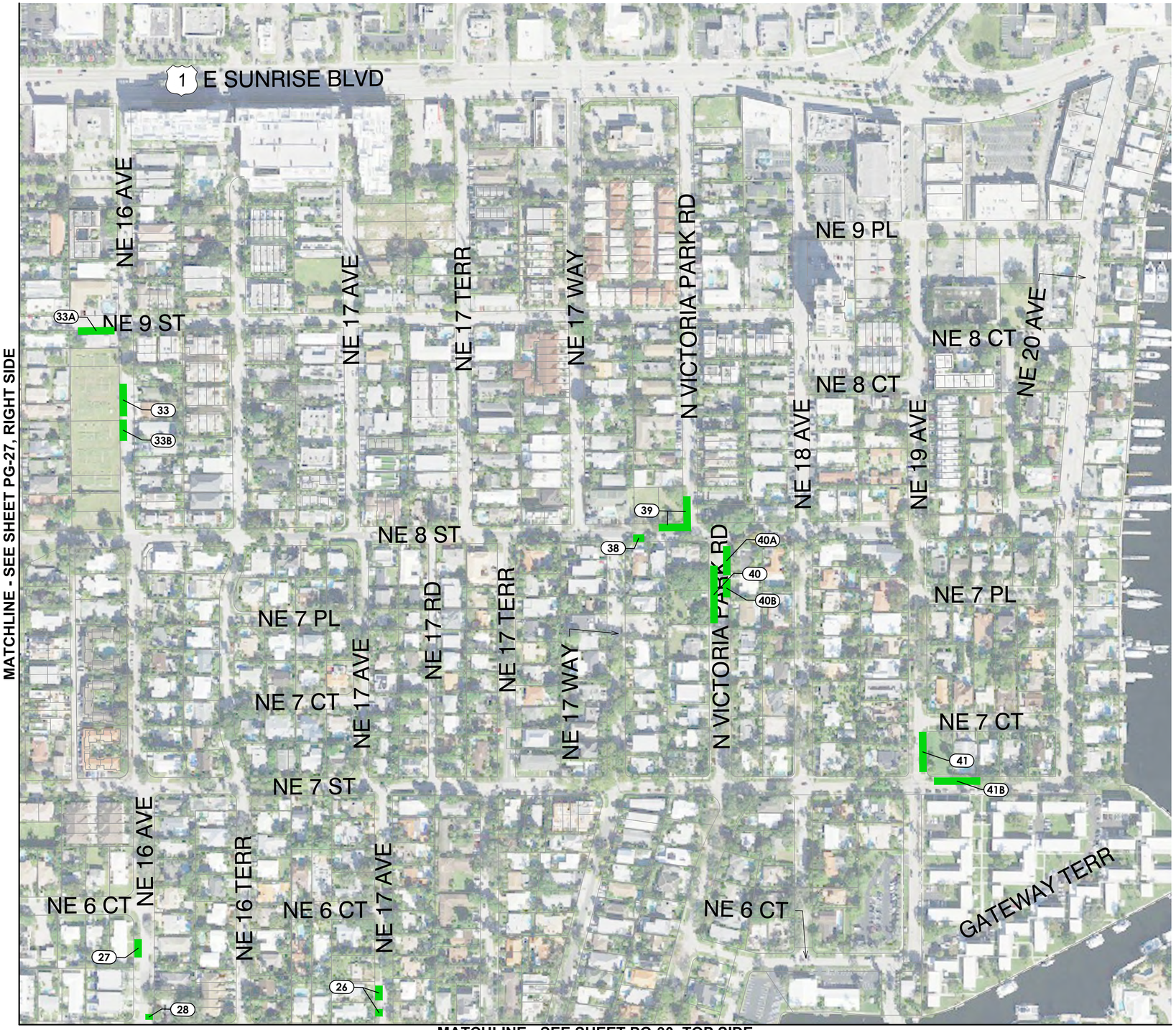
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

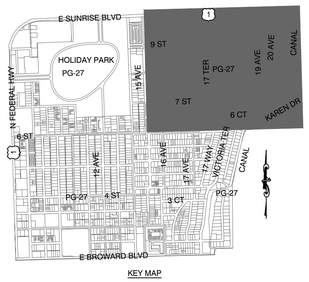
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SWALE PLAN

SHEET NO. PG-27
SHT # 125
TOTAL: 233
CAD FILE: 12082-MULTI-SWAL
DRAWING FILE NO. 4-144-88



SWALE DATA TABLE		
SWALE #	LENGTH	DESCRIPTION
26	60'-0"	West
27	50'-0"	West
28	15'-0"	East
33	89'-0"	West
38	30'-0"	South
39	160'-0"	North
40	158'-0"	West
41	110'-0"	East
33A	100'-0"	South
33B	58'-0"	West
40A	80'-0"	East
40B	50'-0"	East
41B	127'-0"	North



KEY MAP

0 150' 300'

LEGEND

NEW/RESTORE SWALE

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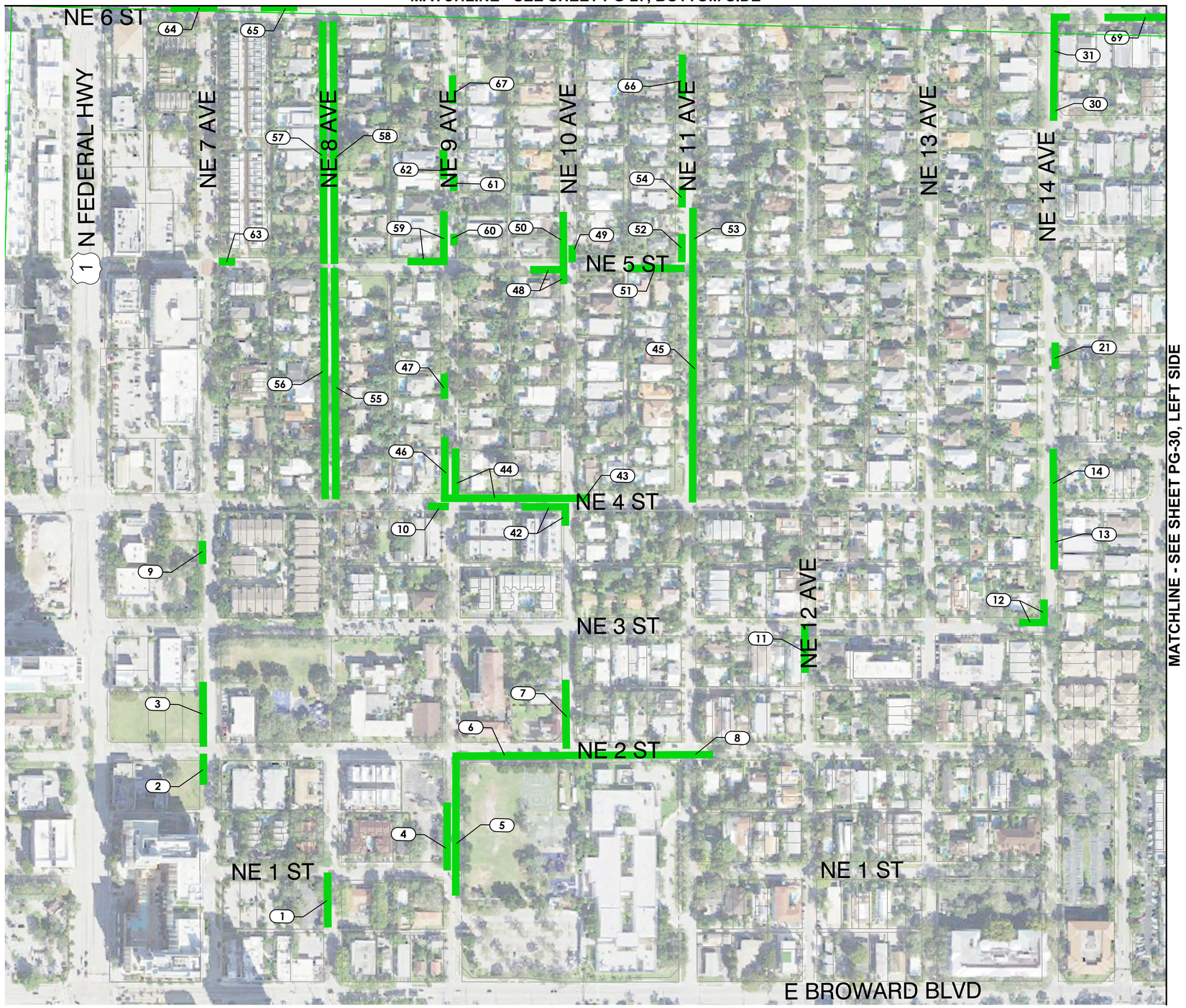
REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SWALE PLAN

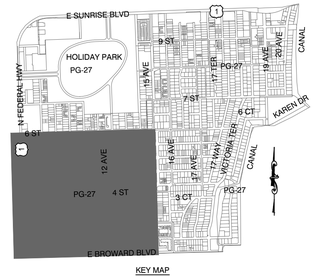
SHEET NO. PG-28
SHT # 126
TOTAL: 233
CAD FILE: 12082-MULTI-SWAL
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-27, BOTTOM SIDE

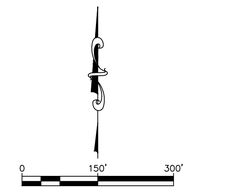


MATCHLINE - SEE SHEET PG-30, LEFT SIDE

SWALE DATA TABLE		
SWALE #	LENGTH	DESCRIPTION
1	56'-6"	East
2	66'-6"	East
3	97'-0"	East
4	130'-0"	East
5	300'-0"	West
6	260'-0"	South
7	107'-6"	East
8	44'-0"	South
10	40'-0"	South
12	70'-0"	South
14	30'-0"	West
42	32'-0"	East
43	28'-0"	North
44	125'-9"	North
45	35'-0"	West
46	75'-6"	East
48	42'-0"	South
52	49'-6"	South
53	91'-3"	West
63	45'-0"	North



KEY MAP



LEGEND

NEW/RESTORE SWALE

ISSUED FOR BID

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ENGINEER:
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DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

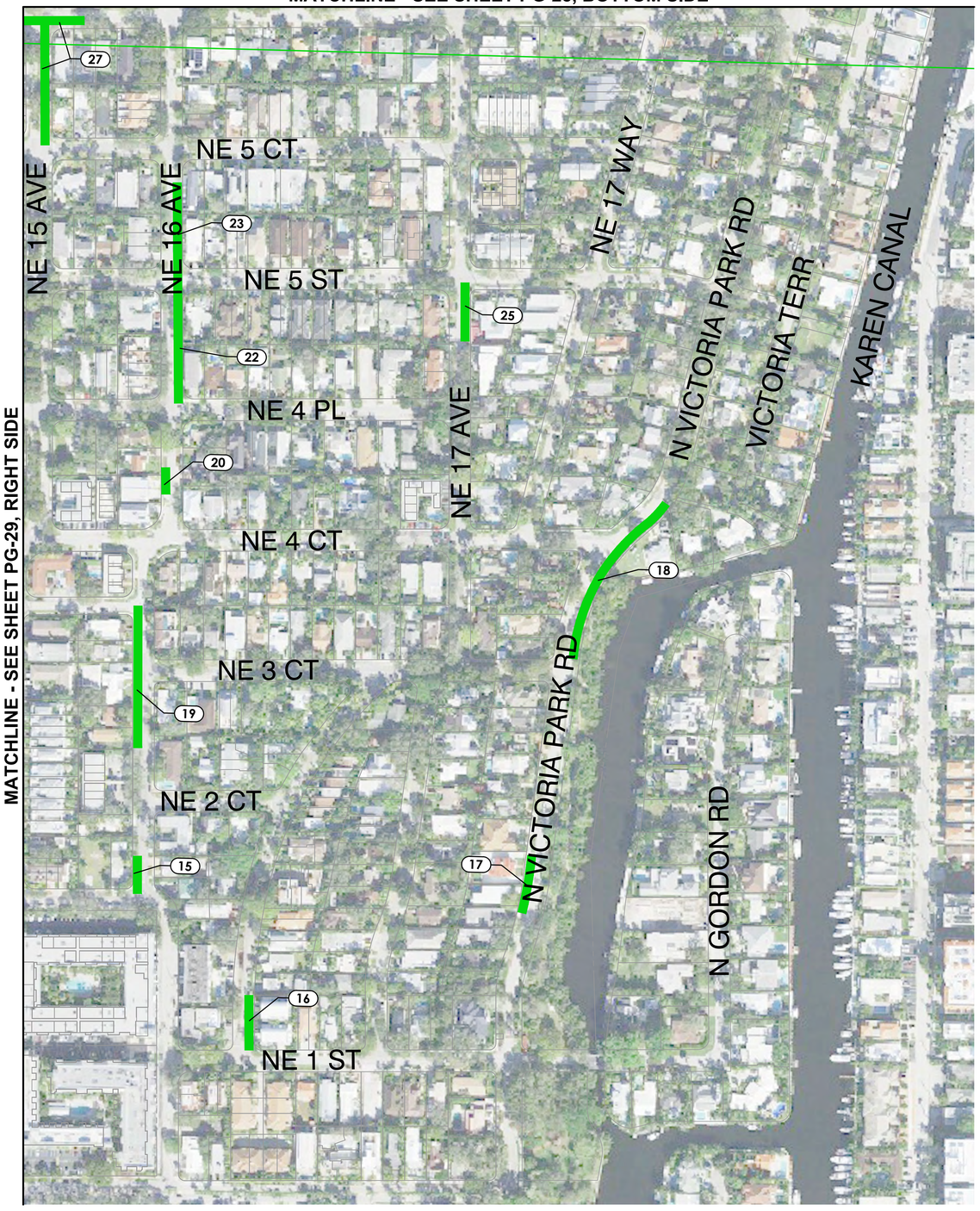
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SWALE PLAN

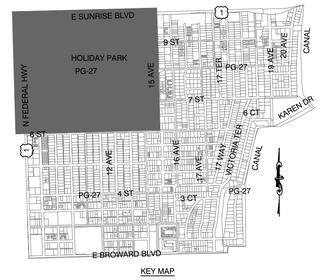
SHEET NO. PG-29
SHT # 127
TOTAL: 233
CAD FILE: 12082-MULTI-SWAL
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET PG-28, BOTTOM SIDE



MATCHLINE - SEE SHEET PG-29, RIGHT SIDE

SWALE DATA TABLE		
SWALE #	LENGTH	DESCRIPTION
15	40'-0"	East
17	39'-3"	East
18	41'-0"	West
19	84'-0"	East
23	65'-3"	East
25	62'-6"	West
27	40'-0"	West



KEY MAP

0 150' 300'

LEGEND

NEW/RESTORE SWALE

ISSUED FOR BID

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

SWALE PLAN

SHEET NO. PG-30
SHT # 128
TOTAL: 233
CAD FILE: 12082-MULTI-SWAL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025

GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
2. REFER TO SPECIFICATION SECTION 01001 AND 01520 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
3. SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED BY XXXX. SURVEYING, LLC DATED FEBRUARY 2013.
4. HORIZONTAL CONTROL IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
5. RECORD DRAWINGS USED FOR EXISTING FEATURES: XXXXX. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
7. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
8. ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
9. THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
10. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
11. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN OR AROUND EXISTING CITY-OWNED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION WITHIN TEN FEET OF A CITY-OWNED UTILITY SO THAT A CITY REPRESENTATIVE MAY BE PRESENT.
12. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	GENERAL NOTES SHEET 1	STDS. NO. GNRL 001 2017/07/19

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14. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
15. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
17. FOR REFERENCE MONUMENTS, SEE DRAWING (EX. CONDITIONS DWG # THAT SHOWS MONUMENTS).
18. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
19. THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
20. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
21. ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.
22. PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WHERE SHOWN ON THE PLANS.
23. RESILIENT SEATED GATE VALVES WITH BEVEL TYPE GEAR SHALL BE INSTALLED IN HORIZONTAL ORIENTATION WHEN LESS THAN 7-FEET OF COVER FROM TOP OF PIPE IS PRESENT.
24. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
26. THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.
27. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	GENERAL NOTES SHEET 2	STDS. NO. GNRL 001 2017/07/13

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28. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
29. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
30. ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
31. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
32. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
33. CONTRACTOR SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
34. STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
35. THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
36. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
37. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
38. CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
39. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
40. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
41. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
42. CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAYED WITH ASPHALT.
43. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	GENERAL NOTES SHEET 3	STDS. NO. GNRL 001 2017/07/13

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44. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
45. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W'S WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
46. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR CITY APPROVAL PRIOR TO ORDERING MATERIALS AND INSTALLATION.
47. EXISTING GAS MAINS SHALL BE IDENTIFIED BY THE APPROPRIATE UTILITY, PRIOR TO START OF CONSTRUCTION.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	GENERAL NOTES SHEET 4	STDS. NO. GNRL 001 2017/07/13

TRAFFIC CONTROL PLAN NOTES:

1. THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600-660. MUTCD AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR'S RESPONSE TIME TO ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS SHALL BE NO MORE THAN TWO (2) HOURS AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT TO ITS LEVEL OF OPERATION PRIOR TO THE MALFUNCTIONING WITHIN TWENTY-FOUR (24) HOURS. DURING THIS TIME THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGLER PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED WORK ZONE. THE ENGINEER OR THE CITY OF FORT LAUDERDALE SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR IMPLEMENTATION.
2. THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES AND LOOP DETECTORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS BY THE ENGINEER.
3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
4. A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE.
5. EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION. REMOVE AND REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.
6. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF FORT LAUDERDALE FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT. NO LANE CLOSURE SHALL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THROUGH FRIDAY UNLESS APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS FOR LIST OF UTILITY COMPANIES.
9. TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS OF THE BROWARD COUNTY ENGINEERING DEPARTMENT.
10. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO BE ATS CERTIFIED.
11. THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD COUNTY AND THE CITY OF FORT LAUDERDALE TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY AFFECT TRAFFIC DURING RUSH HOUR.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TRAFFIC CONTROL PLAN NOTES	STDS. NO. GNRL 002 2017/07/13

12082-MULTI-DETL Sunday, March 23, 2025

BROWARD COUNTY COMMUNICATION NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS - COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.
2. IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
3. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
4. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

UTILITY OWNER CONTACT PERSON:

INTERCONNECT COMMUNICATIONS CABLES - (ROBERT BLOUNT) BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) 954-847-2745

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	BROWARD COUNTY COMMUNICATION NOTES	STDS. NO. GNRL 006 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025

DRAINAGE NOTES:

1. DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) OR REINFORCED CONCRETE (RCP). THE USE OF RCP PIPE FOR PUBLIC ROADWAY CROSSINGS IS PREFERRED.
2. CATCH BASINS, INLETS AND JUNCTION BOXES SHALL NOT BE INSTALLED IN DRIVEWAYS.
3. PRIOR TO BACKFILLING EXFILTRATION TRENCHES, DRAINAGE INLETS OR MANHOLES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING INSPECTOR FOR AN INSPECTION.
4. DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY CITY.
5. ALL PIPES SHALL BE LAID IN DRY TRENCH. ALL MUCK OR UNSUITABLE MATERIALS IN TRENCHES, INLETS OR MANHOLES SHALL BE REMOVED AND BACKFILLED WITH SELECTED MATERIAL APPROVED BY THE ENGINEER.
6. MINIMUM COVER FOR HDPE PIPE UNDER ASPHALT SHALL BE 24-INCH COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
8. MAINTENANCE ACCESS SHALL BE PROVIDED ON BOTH SIDES OF EXFILTRATION TRENCHES IN THE FORM OF MANHOLES OR CATCH BASINS. THE MAXIMUM DISTANCE BETWEEN STORM STRUCTURES SHALL NOT EXCEED TREE HUNDRED (300) FEET).
9. ALL EXFILTRATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DOCUMENT TITLED "DRAINAGE DESIGN GUIDE", LATEST EDITION.
10. GEOTEXTILE MATERIALS USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FLORIDA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS LATEST EDITION AND CITY OF FORT LAUDERDALE'S SPECIFICATIONS.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	DRAINAGE NOTES	STDS. NO. GNRL 008 2017/07/13

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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
DATE:
No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK: ---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
STANDARD DETAILS - SHEET 1

SHEET NO. DT-01
SHT # 129
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

DEMOLITION NOTES:

GENERAL DEMOLITION SPECIFICATIONS:

1. THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
2. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND OTHER FEATURES AFFECTING THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MIGHT IMPACT THE WORK.
3. CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.
5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
6. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED.
7. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED.
   - 7.1. DEMOLITION AND REMOVAL OF A 5' MIN.± STRIP OF EXISTING ON-SITE ASPHALT, CONCRETE AND CURBING AROUND THE PERIMETER OF THE EXISTING STRUCTURES AND UTILITIES BEING DEMOLISHED.
   - 7.2. REMOVAL OF EXISTING ON-SITE ABOVEGROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
8. PRIOR TO REMOVAL OF ANY UNDERGROUND TANK AND OTHER COMPONENT, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL TO AN APPROVED LOCATION, AS REQUIRED BY DISPOSAL PERMIT.
9. PROTECT ALL UTILITIES, UNLESS OTHERWISE NOTED.
10. ALL THE CONCRETE AND PAVEMENT TO BE REMOVED MUST BE SAW CUT CLEAN PRIOR TO REMOVAL.
11. WET DOWN MASONRY WALLS AND DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST (AS APPLICABLE TO PROJECT).
12. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER ON-SITE EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR (AS APPLICABLE TO PROJECT).

13. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ON THE DRAWINGS ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
14. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO REMOVAL OR RELOCATION OF ANY ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES. SUFFICIENT TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
15. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER/ENGINEER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINANT IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
16. FILL FOR LOWER LEVELS OF DEMOLISHED STRUCTURES MAY INCLUDE CONCRETE OR MASONRY RUBBLE RESULTING FROM DEMOLITION, SUBJECT TO THE ENGINEER'S/ARCHITECT'S APPROVAL. RUBBLE SHALL PASS THROUGH A THREE-INCH RING.
17. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS.
18. MAINTAIN ACCESS TO SURROUNDING PROPERTIES AND BUILDINGS.
19. PRIOR TO DEMOLITION OCCURRING ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
20. ALL TRAFFIC SIGNS OUTSIDE THE DEMOLITION AREA ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.
21. ANY MUCK ENCOUNTERED UNDER PROPOSED STRUCTURES SHALL BE REMOVED TO FIVE-FEET BEYOND THE FOOTPRINT OF THAT STRUCTURE. BACKFILL WITH APPROVED FILL MATERIAL SATISFYING ALL COMPACTION REQUIREMENTS.
22. ALL EXISTING UTILITIES WITHIN THE DEMOLITION SITE AREA SHALL BE ADJUSTED, REMOVED OR RELOCATED AT THE CONTRACTOR'S EXPENSE. WORK SHALL BE COORDINATED BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY COMPANY. ALL EXPENSES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
23. ALL TRASH, DEBRIS AND OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PRE-DEMOLITION RESPONSIBILITIES:

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-DEMOLITION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND THE CONTRACTOR.
2. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK.
3. PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE FOR THE OWNER A LISTING OF THE FACILITIES THE CONTRACTOR SHALL UTILIZE FOR RECYCLING AND DISPOSAL OF SPECIFIC MATERIALS. CONTRACTOR TO INDICATE THE MATERIALS INTENDED FOR RECYCLING AND THE MATERIALS INTENDED FOR DISPOSAL FOR OWNER'S APPROVAL.
4. PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE THE OWNER SKETCHES SHOWING PROPOSED HAULING ROUTES TO RECYCLING AND DISPOSAL FACILITIES FOR APPROVAL.
5. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF DEMOLITION.
6. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CITY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
8. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY.
9. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL FIELD LOCATE EXISTING UNDERGROUND UTILITIES WITH THE UTILITY OWNERS.
10. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATION'S OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON DEMOLITION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
11. SUNSHINE STATE ONE CALL OF FLORIDA, INC. REQUIRES THE CONTRACTOR TO CALL TWO (2) FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) PRIOR TO BREAKING GROUND TO FIND OUT WHERE BURIED FACILITIES (ELECTRICAL, GAS, TELEPHONE, CABLE, WATER) ARE LOCATED.

DEMOLITION SAFETY:

1. ALL DEMOLITION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
2. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE UNNECESSARILY BLOCKED BY DEBRIS AND EQUIPMENT.
3. BUILDING MATERIALS TO BE REMOVED SHALL BE TESTED FOR ASBESTOS AND LEAD PAINT.
4. IF PETROLEUM PRODUCTS ARE FOUND WHILE DEMOLISHING, DISPOSE OF PETROLEUM WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PAVEMENT DEMOLITION:

1. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF DEMOLITION RESULTS IN RAVELING OF SAW CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
2. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED WITH NEW PAVEMENT, ETC. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
3. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE DRAWINGS. HOWEVER, IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, BUILDINGS, UTILITIES, ETC., THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPLACEMENT. REPLACEMENT PAVEMENT, SIDEWALK, ETC., SHALL BE NEW.

DEMOLITION PERMITTING:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES WHILE FULLY ACKNOWLEDGING AND COMPLYING WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
2. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION, RECYCLING OR REUSE REQUIRED TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
3. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL AND/OR RELOCATION OF ALL EXISTING LANDSCAPING WITHIN DEMOLITION AREAS TO BE CONDUCTED BY A LANDSCAPE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE SITEWORK DEMOLITION CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PRESERVING TREES AS INDICATED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TREE REMOVAL PERMIT OR ANY OTHER APPLICABLE PERMIT TO REMOVE, RELOCATE, OR PRESERVE EXISTING LANDSCAPE AND TREES.
4. ANY TREES FOR REMOVAL FOUND TO BE GREATER THAN OR EQUAL TO THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT (DBH) SHALL REQUIRE A PERMIT WITH THE BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT (BCEPGMD).
5. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE THE LIGHTING, STORM INLET STRUCTURES, OR OTHER STRUCTURES DESIGNATED TO BE SAVED, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DEMOLITION EROSION AND SEDIMENT CONTROL NOTES:

1. THE SCHEDULING, SEQUENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO THE FINAL DEFINITION BY THE CONTRACTOR WHO SHALL BE SELECTED TO PERFORM THE WORK AND SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
2. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN ENCOMPASSING THE PRINCIPALS AND THE REQUIREMENTS DESCRIBED HEREIN AND A SCHEDULE FOR THEIR IMPLEMENTATION AND MAINTENANCE FOR THE PROJECT DURATION.
3. DURING DEMOLITION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING DRAINAGE SYSTEMS AND ADJACENT WATER BODIES AND WETLANDS, IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES.
4. METHODS MAY INCLUDE TEMPORARY EROSION AND SEDIMENT CONTROLS SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, SILT SCREENS, TURBIDITY BARRIERS OR THE BEST MANAGEMENT PRACTICES AVAILABLE TO THE INDUSTRY.
5. EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PERIOD AND UNTIL NEW VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
6. THROUGHOUT THE DEMOLITION PERIOD, THE CONTRACTOR SHALL INSPECT DAILY THE EROSION AND SEDIMENT CONTROL INSTALLATIONS FOR FAILURE OR SIGNS OF FAILURE OR MALFUNCTION. REPAIR OR REPLACE THE EROSION AND SEDIMENT CONTROL INSTALLATIONS IMMEDIATELY UPON DISCOVERY OF FAILURE OR MALFUNCTION.
7. INLETS AND CATCH BASINS, EXISTING ON-SITE AND OFF-SITE, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF.
8. THE CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO DEMOLITION.
9. DEWATERING ACTIVITIES SHALL NOT RESULT IN ANY DISCHARGE OF TURBID WATER FROM THE PROJECT SITE WITHOUT PROPER EROSION AND SEDIMENT CONTROL AND APPROVAL FROM ENGINEER.
10. PHASING OF EROSION CONTROL DEMOLITION SHALL BE RECOMMENDED AS FOLLOWS:
    - 10.1. PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, TURBIDITY BARRIERS, ETC.) AROUND ON-SITE FEATURES TO BE RETAINED, AT POINTS OF OFF-SITE DISCHARGE AND AROUND WORK AREAS TO BE EXCAVATED OR FILLED.
    - 10.2. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEMOLITION AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY DEMOLITION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION OCCURS (AS APPLICABLE TO THE PROJECT).

- 10.3. SELECT LOCATIONS FOR PLACEMENT OF EXCAVATED MATERIAL, WHERE SUITABLE FOR FILL OR UNSUITABLE MATERIAL, AND CONSTRUCT CONTAINMENT BERMS AROUND THE AREA. THE USE OF STRIPING FOR THIS PURPOSE MAY ACCELERATE BERM REVEGETATION. CONSTRUCT TEMPORARY OUTLETS FOR CONTAINMENT AREAS WITH SCREENS, HAY BALES, SETTLING BASINS OR OTHER MEASURES TO PREVENT SILT TRANSPORT.
- 10.4. SELECT / DESIGNATE ACCESS ROUTING FOR DEMOLITION EQUIPMENT AND VEHICLES AND PROVIDE PERIMETER PROTECTIVE MEASURES WHERE EXISTING TERRAIN SHALL BE SUBJECT TO DISRUPTION BY SUCH TRAFFIC.
- 10.5. CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR DEMOLITION AREA RUNOFF. PROVIDE SCREENS, HAY BALES, ETC. TO FILTER DISCHARGE FROM THOSE AREAS.
- 10.6. SPOIL MOUNDS SHALL NOT BE LEFT FOR MORE THAN ONE WEEK PRIOR TO REPLACEMENT UNLESS PROTECTIVE CONTAINMENT MEASURES IN THE WORK AREA ARE APPLIED.
- 10.7. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF REGRADING, SWALE SLOPES AND THE CONSTRUCTED OR DISTURBED AREAS.

11. THE CONTRACTOR IS REQUIRED TO ADHERE TO THE REQUIREMENT OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT PRACTICES (BMPS) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN ALL RECORDS REQUIRED BY ITS NPDES STORMWATER PERMIT FOR ITS CONSTRUCTION ACTIVITIES.
13. PRIOR TO CONSTRUCTION, A SILT FENCE IN ACCORDANCE WITH CITY'S DETAIL SHALL BE ERECTED AS NOTED ON PLANS. ALL PROPOSED CATCH BASINS SHALL HAVE THEIR INLETS PROTECTED BY THE INSTALLATION OF FILTER INLET INSERTS INTO THE FRAME AND GRATE. SILT FENCES AND FILTER INLET INSERTS SHALL REMAIN IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.
14. CONTRACTOR SHALL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO BEGINNING ANY WORK AND SHALL ENSURE ITS STABILIZATION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EXISTING SOD DISTURBED BY CONSTRUCTION THAT IS NOT AFFECTED BY PROPOSED GRADING SHALL BE RESTORED TO NEW CONDITION UPON COMPLETION OF CONSTRUCTION. SODDED SLOPES STEEPER THAN FOUR HORIZONTAL TO ONE VERTICAL SHALL BE PEGGED.
15. ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE CODES AND BECOME FAMILIAR WITH STATE, LOCAL AND FEDERAL REGULATIONS PRIOR TO BEGINNING CONSTRUCTION.
16. TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED, CONTRACTOR SHALL PUT INTO PRACTICE THE METHODS DETAILED IN FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 106 (2010 DESIGN STANDARDS) AND BMPS.

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DRAWN BY: JLS | DESIGNED BY: DECF | CHECKED BY: JJM | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 2

SHEET NO. DT-02 | SHT # 130
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

17. DUST GENERATED FROM CONSTRUCTION SHALL BE MINIMIZED BY DAILY WATERING OF THE SITE.

18. AT ANY TIME DURING CONSTRUCTION THAT THE SILT FENCING IS DISTURBED, THE SILT FENCING SHALL BE RESTORED TO ITS ORIGINAL STATE WITHIN 24 HOURS. AT NO TIME DURING CONSTRUCTION SHALL WORK BE PERFORMED WITHOUT THE INTEGRITY OF THE SILT FENCING SECURED.

19. A QUALIFIED INSPECTOR, PROVIDED BY THE CONTRACTOR, SHALL INSPECT ALL POINTS OF DISCHARGE INTO NEARBY SURFACE WATER. THE INSPECTION SHALL OCCUR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. INSPECTION INCLUDES THE WRITTEN RECORDING OF THE CONDITION OF ALL DISCHARGE POINTS, INTEGRITY OF SILT FENCING, DAILY DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR.

20. THE INSPECTION REPORT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION: NAME AND QUALIFICATION OF PERSONNEL MAKING THE INSPECTION, DATE OF INSPECTION, RAINFALL DATE, MAJOR OBSERVATIONS RELATING TO THE SWPPP, ACTIONS TAKEN BY CONTRACTOR AND ANY INCIDENT OF NONCOMPLIANCE WITH PERMIT. WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENT OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT.

21. THE CONTRACTOR SHALL RETAIN A COPY OF THE SWPPP AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THE PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

22. THE CONTRACTOR SHALL RETAIN THE SWPPP, NOI AND ALL RECORDS ASSOCIATED THEREWITH FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

23. SEE LANDSCAPE PLANS FOR TREE REMOVAL AND LANDSCAPE DEMOLITION.

24. CONTRACTOR SHALL COORDINATE THROUGH CITY'S CONSTRUCTION DIVISION AND CITY'S PARKS DEPARTMENT ON HOW TO STOCK AND RE-USE EXCAVATED SOIL FROM SITE (AS APPLICABLE TO THE PROJECT).

INTERRUPTION OF EXISTING UTILITIES:

1. ANY DEMOLITION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR WRITTEN NOTICE TO, AND WRITTEN APPROVAL BY, THE APPROPRIATE UTILITY COMPANY.

2. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUT DOWN TO ASSESS THE SCOPE OF WORK.

3. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL-TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR.

4. EACH CUSTOMER AFFECTED BY THE SHUT-DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

TEMPORARY DEMOLITION FACILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING DEMOLITION.

2. MAINTENANCE OF TRAFFIC (MOT) IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

3. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

4. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS WRITTEN PERMISSION OF THE CITY OR RESPECTIVE GOVERNING AGENCY.

WASTE MANAGEMENT PLAN:

1. IMPLEMENT A WASTE MANAGEMENT PLAN FOR APPROVAL BY THE OWNER. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION AND OTHER ITEMS AS NEEDED TO IMPLEMENT THE WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.

2. DESIGNATE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN. COORDINATOR SHALL BE PRESENT AT PROJECT SITE FULL-TIME FOR DURATION OF PROJECT.

3. TRAIN WORKERS, SUBCONTRACTORS AND SUPPLIERS ON PROPER WASTE MANAGEMENT PROCEDURES, AS APPROPRIATE FOR THE WORK AT THE PROJECT SITE.

4. DISTRIBUTE A WASTE MANAGEMENT PLAN BEFORE WORK BEGINS. REVIEW PLAN PROCEDURES AND LOCATION ESTABLISHED FOR SALVAGE, RECYCLING AND DISPOSAL.

RECYCLING DEMOLITION WASTE:

1. SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH AND DEBRIS. SEPARATE RECYCLABLE WASTE BY TYPE AT THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL.

2. PROVIDE APPROPRIATELY MARKED CONTAINERS OR BINS FOR CONTROLLING RECYCLABLE WASTE UNTIL THEY ARE REMOVED FROM THE PROJECT SITE. INCLUDE A LIST OF ACCEPTABLE AND UNACCEPTABLE MATERIALS AT EACH CONTAINER AND BIN.

3. INSPECT CONTAINERS AND BINS FOR CONTAMINATION AND REMOVE CONTAMINATED MATERIALS IF FOUND.

4. STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE, GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

5. STOCKPILE MATERIALS AWAY FROM DEMOLITION AREA. DO NOT STORE WITHIN DRIP LINE OF REMAINING TREES.

6. STORE COMPONENTS OFF THE GROUND AND PROTECT FROM THE WEATHER.

7. REMOVE RECYCLABLE WASTE OFF THE OWNER'S PROPERTY AND TRANSPORT TO RECYCLING RECEIVER OR PROCESSOR.

8. ASPHALTIC CONCRETE PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT RECYCLING FACILITY.

9. CONCRETE: REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER METALS.

10. MASONRY: MASONRY WASTE SHALL INCLUDE WHOLE OR BROKEN BRICK AND CONCRETE MASONRY UNITS. WHOLE MASONRY UNITS SHALL BE CLEANED AND REUSED OR DONATED. BROKEN MASONRY SHALL BE CRUSHED AND USED AS FILL FOR OFFSITE AREAS. REMOVE METAL REINFORCEMENT, ANCHORS AND TIES FROM MASONRY AND SORT WITH OTHER METALS.

11. METALS: METALS FROM REINFORCED CONCRETE, REINFORCED MASONRY, STRUCTURAL STEEL MEMBERS, FLASHING AND SHEET METAL, CONDUIT PIPE, SIDING, PIPING AND WIRING SHALL BE SEPARATED BY TYPE.

12. STRUCTURAL STEEL: STACK MEMBERS ACCORDING TO THEIR SIZE, TYPE AND LENGTH.

13. NUTS AND BOLTS: REMOVE BOLTS, NUTS, WASHERS AND OTHER ROUGH HARDWARE.

14. SITE-CLEARING WASTE SHALL BE RECYCLED BY CHIPPING BRUSH, BRANCHES AND TREES, THEN HAUL TO WOOD RECYCLING CENTER.

DISPOSAL OF WASTE:

1. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED, RECYCLED OR OTHERWISE REUSED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR OTHER PERMITTED DISPOSAL FACILITY.

2. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF TO ACCUMULATE ON-SITE.

3. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT SHALL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

4. BURNING: DO NOT BURN WASTE MATERIALS.

5. DISPOSAL: TRANSPORT WASTE MATERIALS OFF THE OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.

MINIMUM DENSITY REQUIREMENTS

LOCATION	MATERIAL	MINIMUM DENSITY (% OF MAX)	TESTING FREQUENCY
ROADS (INCLUDES SIDEWALKS, ASPHALT PATHS)	BACKFILL	98%	VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT TOP OF FIRST LIFT AND PROCEEDING UPWARD TO GRADE. HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF ROADWAY, SIDEWALK OR PATHWAY.
	SUBGRADE	98%	
	BASE	98%	
MANHOLES AND VAULTS (IN ROADS AND PARKING AREAS)	IN-PLACE SUBGRADE BENEATH STRUCTURES	95%	VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT THE BOTTOM OF THE STRUCTURE AND PROCEEDING UPWARD TO GRADE. HORIZONTAL DISTRIBUTION: PERFORM TESTING AT EACH STRUCTURE.
	BACKFILL BENEATH STRUCTURES	98%	
	BACKFILL AROUND STRUCTURES	98%	
	CRUSHED STONE BENEATH STRUCTURES	NOTE 6	
PARKING AREAS	BACKFILL	98%	VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT TOP OF FIRST LIFT AND PROCEEDING UPWARD TO GRADE. HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED EVERY 6,000 SQUARE FEET OF PARKING AREA.
	SUBGRADE	98%	
	BASE	98%	
UTILITY TRENCH BACKFILL	BEDDING AND BACKFILL	98%	VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT THE SPRING LINE AND PROCEEDING UPWARD TO GRADE. HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF A PIPE INSTALLATION, AND BETWEEN EACH SET OF STRUCTURES SEPARATED BY LESS THAN 300 FEET.
ROADS AND PARKING	ASPHALT	94%	ASPHALT TESTING MAY BE DONE BY CORE SAMPLING OR NUCLEAR GAUGE DENSITY TESTING. ASPHALT TESTING SHALL BE AT MAXIMUM 300 LINEAR FOOT ALONG ROADWAYS AND 6,000 SQUARE FOOT INTERVALS FOR PARKING AREAS.

NOTES:

1. THE DENSITY REQUIREMENTS PRESENTED ASSUME DRY TRENCH CONDITIONS.
2. UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS, TESTING SHALL COMPLY WITH THE REQUIREMENTS PRESENTED IN THIS TABLE.
3. LIFT THICKNESSES FOR BASE, SUBGRADE AND BACKFILL SHALL BE AS INDICATED ON THE DETAILS OR DESCRIBED IN THE SPECIFICATIONS.
4. MAXIMUM DENSITY SHALL BE DETERMINED BY ASTM D 1557 OR AASHTO T180 (MODIFIED PROCTOR).
5. FIELD DENSITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR D 2922.
6. THE AGGREGATE SHALL BE COMPACTED TO A DEGREE ACCEPTABLE TO THE ENGINEER BY USE OF A VIBRATORY COMPACTOR AND/OR CRAWLER TRACTOR.

EROSION AND SEDIMENT CONTROL:

1. CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION IN ORDER TO ENSURE POLLUTION PREVENTION. CONTRACTOR TO COMPLY WITH ALL LOCAL STATE AND OTHER GOVERNMENTAL ENVIRONMENTAL REGULATIONS THROUGHOUT CONSTRUCTION.
2. DURING CONSTRUCTION ALL CATCH BASIN INLETS SHALL BE PROTECTED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CATCH BASIN.
3. SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT DISCHARGE OF SEDIMENT ONTO ADJACENT UNDISTURBED AREAS, OR OFF-SITE AREAS.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
5. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
6. ALL EXPOSED AREAS SHALL BE SODDED AS SPECIFIED WITHIN 30 DAYS OF FINAL GRADING.
7. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
9. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY CITY, COUNTY, AND STATE OF FLORIDA ON SITE INSPECTION, AT NO ADDITIONAL COST TO THE OWNER.
11. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
12. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
13. BURNING OF DEBRIS WILL NOT BE ALLOWED.
14. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
15. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATER WAYS. IN ADDITION CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE IF IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES IF EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC. THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. EROSION CONTROL BARRIER SHALL BE ESTABLISHED AS THE FIRST ITEM OF WORK.

16. THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM APPLIES TO ALL CONSTRUCTION ACTIVITY THAT: 1) CONTRIBUTE STORMWATER DISCHARGES TO SURFACE WATER OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); 2) DISTURBS ONE OR MORE ACRES OF LAND; OR 3) LESS THAN ONE ACRE IS INCLUDED IF THE ACTIVITY IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT THAT WILL MEET OR EXCEED THE ONCE ACRE THRESHOLD. DISTURB INCLUDES CLEARING, GRADING AND EXCAVATING.
17. FOR CONSTRUCTION ACTIVITY THAT IS SUBJECT TO THE NPDES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM, THE CONTRACTOR SHALL:
    - 17.1.1. OBTAIN A GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOCUMENT 62-621.300(4)(A).
    - 17.1.2. COMPLY WITH ALL REQUIREMENTS OF THE GENERIC PERMIT.
    - 17.1.3. DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
    - 17.1.4. COMPLETE A NOTICE OF INTENT (NOI) FLORIDA DEPARTMENT OF ENVIORNMENTAL PROTECTION FORM 62-621.300(4)(B) IN ITS ENTIRETY USING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S WEBSITE.
18. SUBMIT COPIES OF THE SWPPP AND THE NOI TO THE ENGINEER AS INFORMATIONAL RECORDS. THESE SUBMITTALS WILL NOT BE REVIEWED BY THE ENGINEER.
19. CONTRACTOR TO CLEAN AND REPAIR ALL EXISTING STORMWATER INFRASTRUCTURE THAT IS IMPACTED BY CONSTRUCTION ACTIVITIES, BEFORE LEAVING THE JOBSITE.
20. CONTRACTOR TO REMOVE ALL FILTER FABRIC AND POLLUTION PREVENTION ITEMS BEFORE THE FINAL WALK-THROUGH.

Hazen
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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
FLORIDA LIC. No: 85558
DATE:
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FAX: 954.730.2030

DRAWN BY: JLS | DESIGNED BY: DECF | CHECKED BY: JJM | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK: ---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

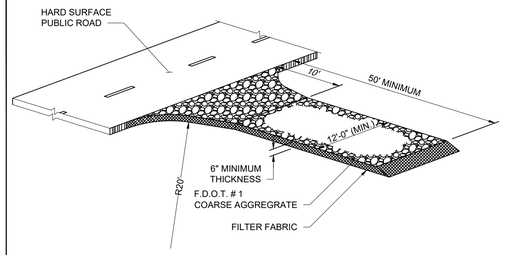
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 3

SHEET NO. DT-03 | SHT # 131
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

CITY OF FORT LAUDERDALE
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

GRAVEL CONSTRUCTION ENTRANCE

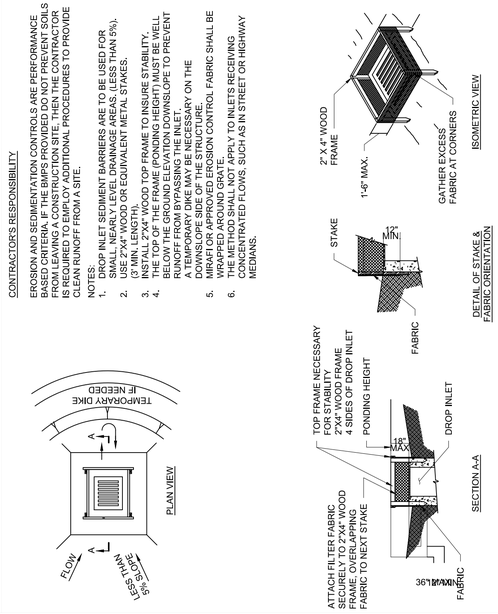
DETAIL NO. ESC 002
REVISION 2017/07/08

CONTRACTOR'S RESPONSIBILITY

EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CONTROLS, THEREFORE IT IS THE CONTRACTOR'S OBLIGATION TO, FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM A SITE.

NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, FLAT, CONTRIBUTING AREAS (LESS THAN 5%).
2. USE 2"X4" WOOD OR EQUIVALENT METAL STAKES (3' MIN. LENGTH).
3. INSTALL 2"X4" WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME SHALL BE PROVIDING CREST AT LEAST 0.1' BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET.
5. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
6. MIRAFOR APPROVED EROSION CONTROL FABRIC SHALL BE WRAPPED AROUND GRATE.
7. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



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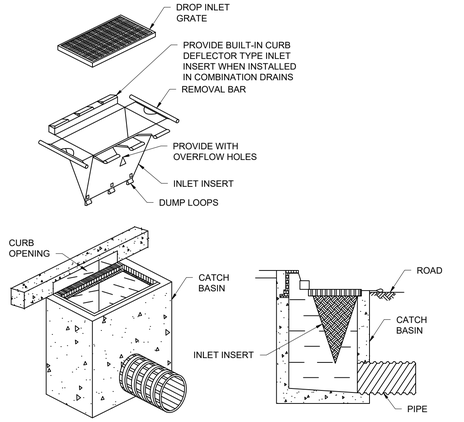
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DROP INLET PROTECTION - SEDIMENT BARRIER

DETAIL NO. ESC 004
REVISION 2015/09/21



NOTES:

1. THE INLET INSERT SHALL BE A SEDIMENT CONTROL DEVICE DESIGNED FOR DROP INLETS OR COMBINATION DRAINS WHERE A DROP INLET IS COUPLED WITH A CURB INLET.
2. THE INLET INSERT SHALL BE MADE OF A PERMEABLE GEOTEXTILE THAT ALLOWS WATER TO PASS BUT PREVENTS SILT AND SEDIMENT FROM CLOGGING THE DRAIN SYSTEM.
3. THE CONTRACTOR SHALL CLEAN AND INSPECT REGULARLY AND AFTER EVERY MAJOR RAIN EVENT.
4. INLET INSERTS SHALL BE "SILTSACK" BY ACF ENVIRONMENTAL, OR EQUAL. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.

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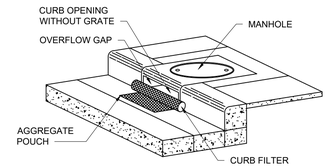
DROP INLET PROTECTION - INLET INSERT

DETAIL NO. ESC 005
REVISION 2017/07/13



NOTES:

1. INSTALL CURB FILTERS AT ALL INLETS WITHOUT GRATES TO KEEP SILT, SEDIMENT AND CONSTRUCTION DEBRIS OUT OF THE STORM SYSTEM
2. THE CURB FILTER SHALL BE DANDY CURB AS MANUFACTURED BY DANDY PRODUCTS INC., OR EQUAL. SUBMIT SHOP A SHOP DRAWING FOR THE CURB FILTERS.
3. THE CURB FILTER SHALL FORM OF A CYLINDRICAL TUBE PLACED IN FRONT OF AND EXTENDING BEYOND THE INLET OPENING ON BOTH SIDES.
4. THE CURB FILTER SHALL HAVE A POUCH ON THE STREET SIDE OF THE UNIT FOR STONE AGGREGATE TO HOLD THE FILTER IN PLACE.
5. THE CURB FILTER SHALL BE CONSTRUCTED OF A HIGH VISIBILITY ORANGE MONOFILAMENT FABRIC.
6. FILL POUCH WITH FDOT #57 STONE AGGREGATE TO A LEVEL (AT LEAST HALF-FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE CURB FILTER AND THE SURFACE OF THE STREET.
7. CENTER THE UNIT AGAINST CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE. THERE WILL BE APPROXIMATELY TWELVE (12) INCHES OF THE INLET PROTECTION UNIT OVERHANGING ON EACH SIDE OF THE OPENING.
8. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT.

CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS
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CURB INLET PROTECTION - CURB FILTER

DETAIL NO. ESC 006
REVISION 2017/07/19

ENGINEER:
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DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING
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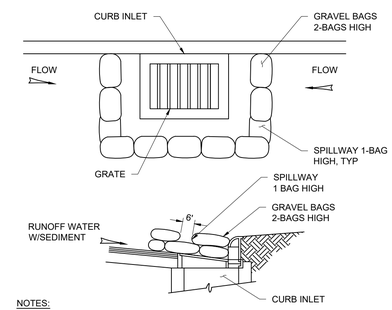

NOTES:

1. A SPILLWAY SHALL BE DESIGNATED FOR EACH DIRECTION OF APPROACHING FLOW AS SHOWN. THE SPILLWAY SHALL BE LOCATED TO ALLOW THE MAXIMUM AMOUNT OF STORMWATER TO POOL WITHOUT FLOODING AREAS UP GRADE OF THE INLET.
2. FOR INLETS THAT ARE NOT ADJACENT TO CURBS, PLACE GRAVEL BAGS ONE BAG HIGH AROUND THE ENTIRETY OF THE INLET TO ACCOMMODATE FLOW FROM ALL DIRECTIONS.
3. BAG MATERIAL: BAGS SHALL BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT FOUR OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM D4355.
4. BAG SIZE: EACH GRAVEL-FILLED BAG SHALL BE 18-INCHES X 12-INCHES X 3-INCHES AND HAVE A MASS OF APPROXIMATELY 33 LBS. ALTERNATIVE BAG SIZES SHALL BE CONSIDERED BASED ON LOCALLY AVAILABLE MATERIALS.
5. FILL MATERIAL: GRAVEL SHALL BE PEA GRAVEL 3/8 INCHES IN DIAMETER AND SHALL BE CLEAN AND FREE OF CLAY BALLS, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS.

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CURB INLET PROTECTION - GRAVEL BAG

DETAIL NO. ESC 007
REVISION 2017/08/08

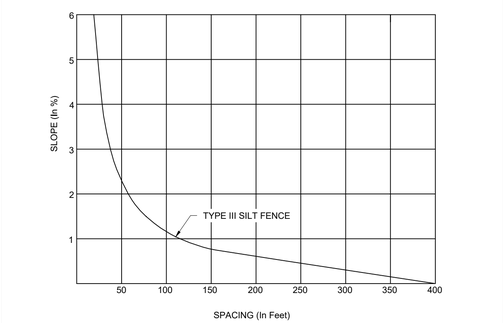
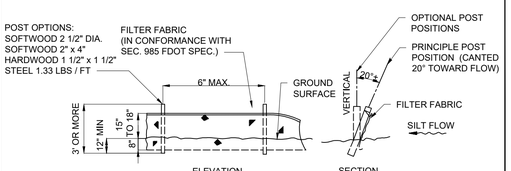


CHART 1: SILT FENCE SPACING

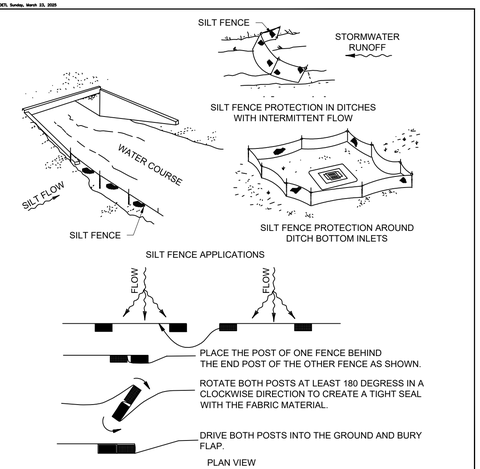


TYPE III SILT FENCE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SILT FENCE - SHEET 1

DETAIL NO. ESC 009
REVISION 2017/07/12



NOTES:

1. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1.
2. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
3. WHERE USED AS SLOPE PROTECTION , SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SILT FENCE - SHEET 2

DETAIL NO. ESC 010
REVISION 2017/07/11

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Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
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REVISIONS

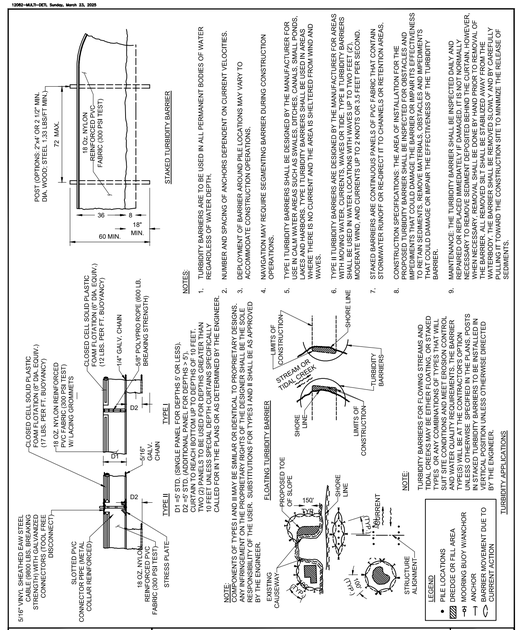
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 4

SHEET NO. DT-04
SHT # 132
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025

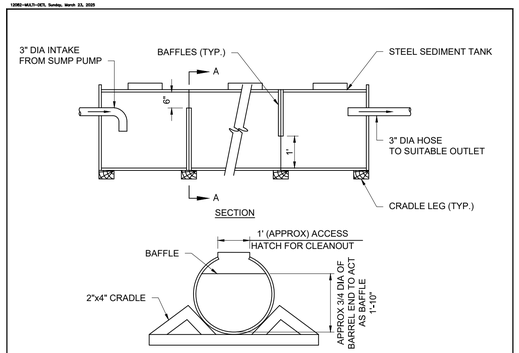


CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TURBIDITY BARRIER - FLOATING

STRM. NO. ESC 011
2017.07.08

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

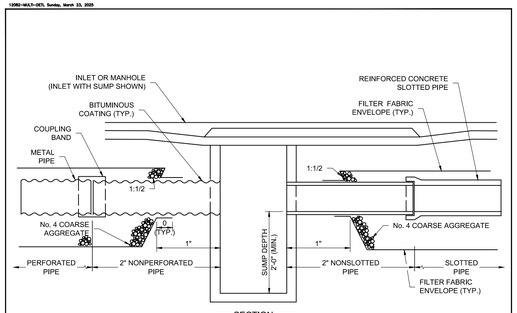
1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE, AN APPROVED LOCATION IN WHICH FURTHER SEDIMENT TRANSPORT WILL NOT OCCUR OR AS APPROVED BY THE INSPECTOR.
3. PORTABLE SEDIMENT TANK SHALL BE AN ABOVE GROUND HORIZONTAL SINGLE-WALL UL-142 MANUFACTURED BY HIGHLAND TANK OR WEIR BOX MANUFACTURED BY RAIN FOR RENT OR EQUIVALENT.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PORTABLE SEDIMENT TANK

STRM. NO. ESC 012
2017.07.08

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

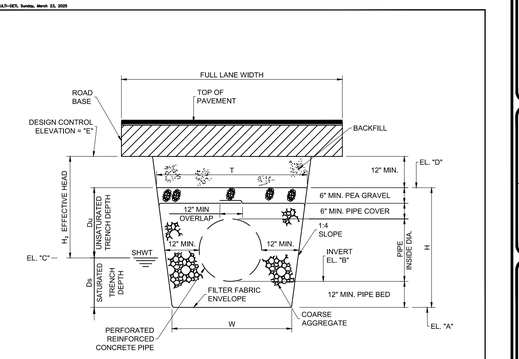
1. EXFILTRATION PIPE SHALL COMPLY WITH FDOT STANDARD SPECIFICATION SECTION 443.
2. CONCRETE PIPE SHALL BE PLACED WITH SLOTS POSITIONED ON SIDES.
3. ALIGNMENT JOINTS ARE STANDARD (GASKETS NOT REQUIRED). RECORREGATION OF METAL PIPE ENDS NOT REQUIRED.
4. FILTER FABRIC SHALL BE SUBSURFACE DRAINAGE TYPE PER FDOT SECTION 985. ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF 2 FEET.
5. PREVENT CONTAMINATION OF THE EXFILTRATION TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.
6. NO WEEP HOLES SHALL BE PERMITTED IN STRUCTURES.
7. PIPE INVERT SHALL BE AT OR ABOVE THE WATER TABLE WHEN POSSIBLE.
8. COAT END OF METAL PIPE AT MANHOLE CONNECTION WITH A BITUMINOUS COATING. COATING SHALL EXTEND 12" BEYOND EXTERIOR OF MANHOLE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

EXFILTRATION TRENCH
LONGITUDINAL SECTION

STRM. NO. STRM 001
2016.09.21

12082-MULTI-DETL Sunday, March 23, 2025



TRENCH SCHEDULE		
PARAMETER	TRENCH 1	TRENCH 2
PIPE DIAMETER		
W		
T		
H		
Ds		
Du		
H_2		
EL. "A"		
EL. "B"		
EL. "C"(SHWT)		
EL. "D"		
EL. "E" (DCE)		

NOTES:
DCE: DESIGN CONTROL ELEVATION
SHWT: SEASONAL HIGH WATER TABLE

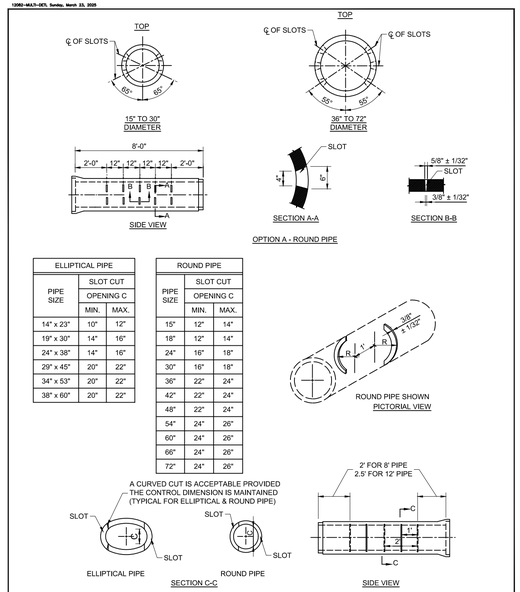
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

EXFILTRATION TRENCH
CROSS SECTION

STRM. NO. STRM 002
2016.09.21

PLEASE SEE SHEET DT-19 FOR EXFILTRATION TRENCH DATA TABLE

12082-MULTI-DETL Sunday, March 23, 2025

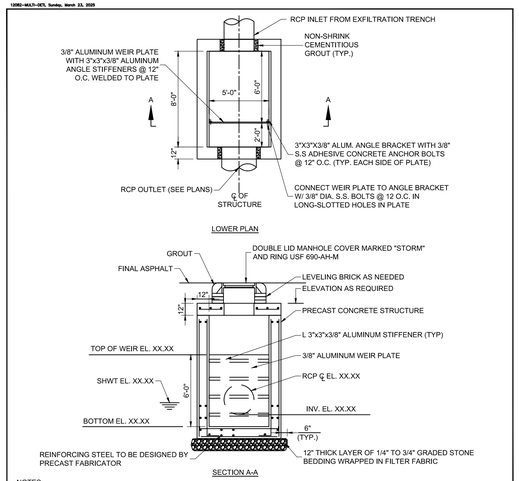


CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REINFORCED CONCRETE SLOTTED PIPE

STRM. NO. STRM 003
2016.09.21

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

1. ALL PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C478.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ENGINEER'S REVIEW AND APPROVAL. SHOP DRAWING SHALL INCLUDE DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
3. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS DEMONSTRATING THAT STRUCTURE WILL RESIST FLOATION WHEN EMPTY AND SUBJECT TO GROUNDWATER TO TOP OF STRUCTURE.
4. PRECAST CONCRETE SECTION SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
   a. LATERAL SOIL PRESSURE.
   b. GROUNDWATER ELEVATION = AT GRADE
   c. COMPACTION OF SOIL DURING BACKFILL.
   d. ADDITION STRESSES INDUCED BY TRANSPORTATION AND HANDLING.
   e. PIPE THRUST = 500 LB.
   f. H-20 TRUCK LOAD.

LEGEND:

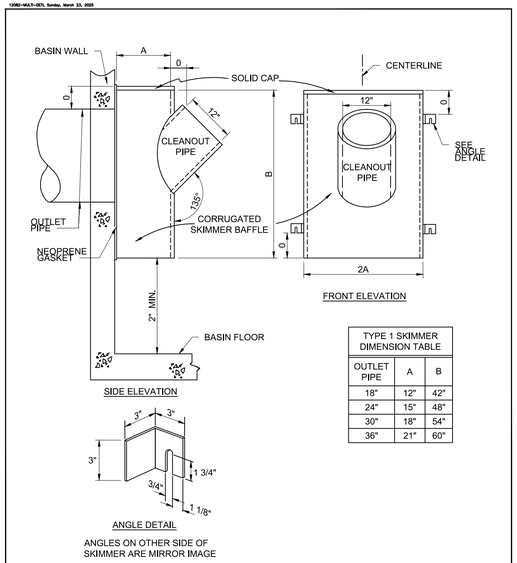
SHWT: SEASONAL HIGH WATER TABLE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TRENCH OVERFLOW STRUCTURE
PLAN AND SECTION
SHEET 1

STRM. NO. STRM 004
2016.09.21

12082-MULTI-DETL Sunday, March 23, 2025



ANGLES ON OTHER SIDE OF SKIMMER ARE MIRROR IMAGE

TYPE 1 SKIMMER DIMENSION TABLE		
OUTLET PIPE	A	B
18"	12"	42"
24"	15"	48"
30"	18"	54"
36"	21"	60"

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

SKIMMER FOR EXFILTRATION TRENCH OUTLET
TYPE 1 - SHEET 1

STRM. NO. STRM 005
2016.09.21

Hazen

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DAVID E. CASTRO FELIU, P.E.
REG. No: 85538
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FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK: ---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

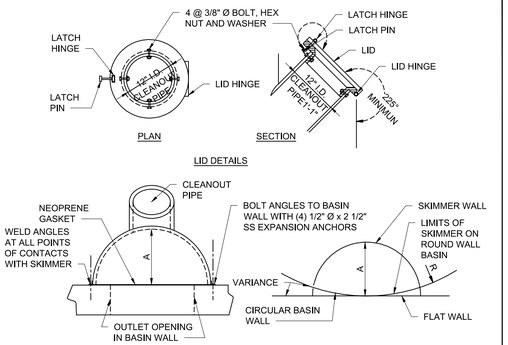
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 5

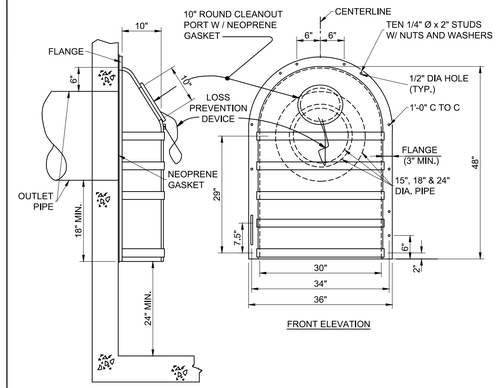
SHEET NO. DT-05
SHT # 133
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	2016/09/21 SKIMMER FOR EXFILTRATION TRENCH OUTLET TYPE 1 - SHEET 2	STRM No. STRM 006 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SKIMMER FOR EXFILTRATION TRENCH OUTLET TYPE 2	STRM No. STRM 007 2016/09/21

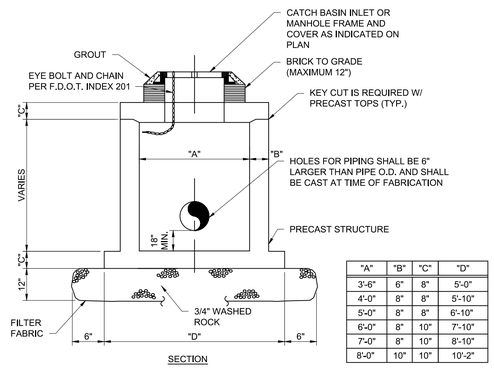
12082-MULTI-DETL Sunday, March 23, 2025

NOTES:

1. THE SKIMMER IS A HOODED COVER, MOUNTED OVER AN OUTLET IN A CATCHBASIN, THAT PREVENTS OIL AND FLOATING DEBRIS FROM EXITING THE BASIN. USE THIS SKIMMER IN CATCHBASINS WHERE THERE IS A NEED TO PREVENT OIL, DEBRIS OR OTHER FLOATING CONTAMINANTS FROM EXITING CATCHBASINS THROUGH OUTLET PIPES.
2. PLACE NEOPRENE GASKET MATERIAL BETWEEN THE SKIMMER AND THE CATCHBASIN AT ALL POINTS OF CONTACT. TRIM THE GASKET NEATLY TO EXTEND 1/2 INCH BEYOND THE JOINT ON ALL SIDES.
3. SKIMMER BAFFLE, CLEANOUT PIPE AND ANGLES SHALL BE PRIMARILY CONSTRUCTED OF EITHER GALVANIZED STEEL, ALUMINUM, POLYVINYL CHLORIDE, POLYETHYLENE, FIBERGLASS OR ACRYLONITRITE BUTADIENE STYRENE. ALL STEEL COMPONENTS, OTHER THAN STAINLESS STEEL, SHALL BE HOT–DIP GALVANIZED.
4. MOUNTING HARDWARE, HINGES AND LATCHES SHALL ALL BE 316 STAINLESS STEEL. LOSS PREVENTION DEVICE SHALL BE EITHER 316 STAINLESS STEEL CHAIN OR RIVETED NYLON STRAP.
5. MATERIAL USED IN CONSTRUCTION OF SKIMMER BODIES (BAFFLES) AND CLEANOUT PIPE SHALL COMPLY WITH FDOT STANDARD SPECIFICATION 943 FOR STEEL, 945 FOR ALUMINUM OR 948 FOR PLASTICS.
6. ALL COST FOR FURNISHING AND INSTALLING A SKIMMER SHALL BE INCLUDED IN THE COST OF THE BASIN IN WHICH IT IS INSTALLED.
7. PLASTIC SKIMMER SHALL CONTAIN A MINIMUM OF 1.5% BY WEIGHT OF CARBON BLACK FOR UV PROTECTION.
8. THE BACKS OF SKIMMERS MUST CONFORM TO THE SHAPE OF THE BASIN WALLS ON WHICH THEY ARE MOUNTED.
9. THE CLEANOUT PORT FOR THE TYPE 2 SKIMMER SHALL BE GASKETED, WITH EITHER A THREADED SCREW–IN LID OR A LID SECURED BY FOUR STAINLESS STEEL QUICK–RELEASE LATCHES.
10. TYPE II SKIMMER ARE TO BE USED ONLY WITH OUTLET PIPE DIAMETERS OF 15", 18" AND 24".

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SKIMMER FOR EXFILTRATION TRENCH OUTLET NOTES	STRM No. STRM 008 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



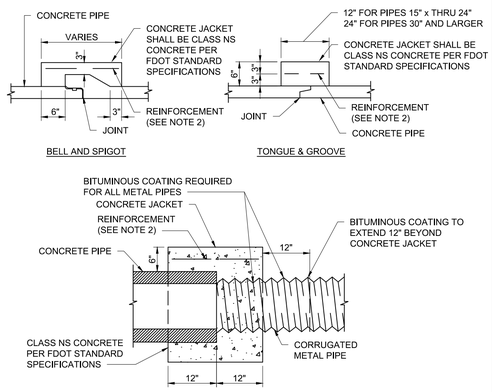
"A"	"B"	"C"	"D"
3'-6"	6"	8"	5'-0"
4'-0"	8"	8"	5'-10"
5'-0"	8"	8"	6'-10"
6'-0"	8"	10"	7'-10"
7'-0"	8"	10"	8'-10"
8'-0"	10"	10"	10'-2"

NOTES:

1. PRECAST STRUCTURE SHALL BE EITHER SQUARE OR ROUND AS INDICATED ON THE PLANS.
2. REINFORCING SHALL BE DESIGNED BY THE PRECAST MANUFACTURER TO COMPLY WITH FDOT INDEX 200.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
4. DESIGN STRUCTURE FOR H-20 TRUCK LOAD.
5. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS DEMONSTRATING THAT STRUCTURE WILL RESIST FLOATION WHEN EMPTY AND SUBJECT TO GROUNDWATER TO TOP OF STRUCTURE.
6. CATCH BASINS SHALL HAVE USF 4155 FRAME AND 6209 GRATE.
7. MANHOLES SHALL HAVE USF 230 RING AND TYPE AA COVER WITH THE LETTERING "STORM SEWER" CAST IN THE COVER.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	PRECAST CIRCULAR & SQUARE DRAINAGE STRUCTURES	STRM No. STRM 009 2017/07/14

12082-MULTI-DETL Sunday, March 23, 2025

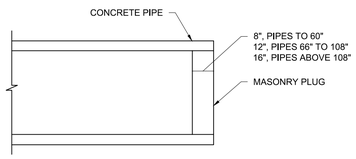


NOTES:

1. CONCRETE JACKET SHALL NOT BE USED TO JOIN METAL PIPES OF DISSIMILAR MATERIALS.
2. ANY WIRE MESH ARRANGEMENT WHICH PROVIDES 0.126 SQUARE INCHES OF STEEL AREA PER LINEAR FOOT BOTH WAYS MAY BE USED; PROVIDED THE WIRES ARE SPACED A MINIMUM OF 2" AND/OR A MAXIMUM OF 6" ON CENTERS.
3.
4. COST OF CONCRETE JACKET AND BITUMINOUS COATING SHALL BE INCLUDED IN THE COST OF THE PIPE.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE JACKET FOR STORMWATER PIPE	STRM No. STRM 010 2017/07/24

12082-MULTI-DETL Sunday, March 23, 2025

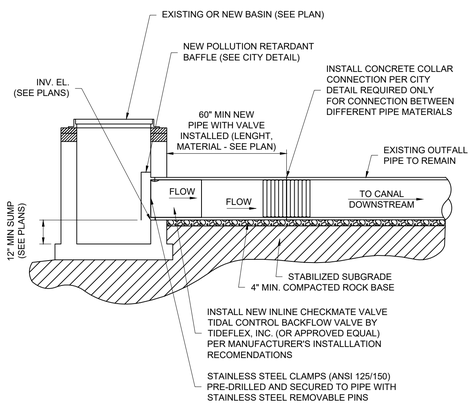


NOTES:

1. THE COST OF PLUGGING PIPES TO BE INCLUDED IN CONTRACT UNIT PRICE FOR NEW PIPE.
2. EITHER BRICK MASONRY OR CONCRETE BRICK MAY BE USED FOR THE PLUG.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	PIPE PLUG	STRM No. STRM 011 2017/07/19

12082-MULTI-DETL Sunday, March 23, 2025



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	INLINE CHECKVALVE INSTALLATION FOR TIDAL FLOOD CONTROL	STRM No. STRM 016 2017/07/28

Hazen

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DEPT. No: 65558
DATE:

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FAX: 954.730.2030

DRAWN BY: JLS | DESIGNED BY: SCALE: AS SHOWN | CHECKED BY: JJM | DATE: 03/25/25 | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 6

SHEET NO. DT-06 | SHT # 134

TOTAL: 233

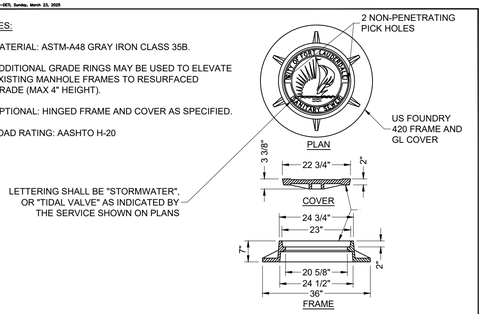
CAD FILE: 12082–MULTI–DETL

DRAWING FILE NO. 4–144–88

12082-MULTI-DETL Sunday, March 23, 2025

NOTES:

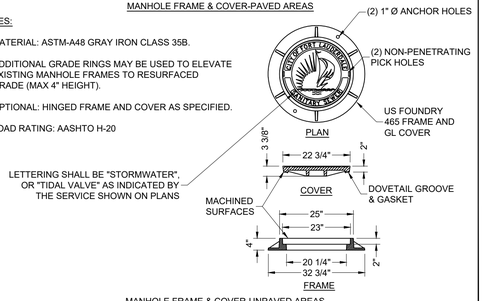
1. MATERIAL: ASTM-A48 GRAY IRON CLASS 35B.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX 4" HEIGHT).
3. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.
4. LOAD RATING: AASHTO H-20



MANHOLE FRAME & COVER-PAVED AREAS

NOTES:

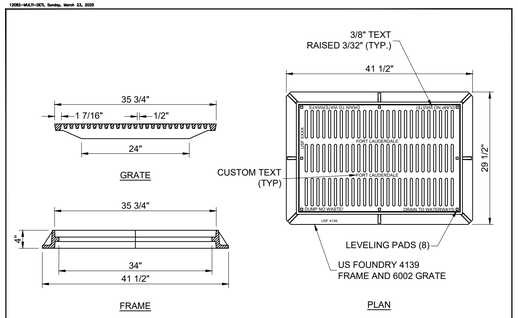
1. MATERIAL: ASTM-A48 GRAY IRON CLASS 35B.
2. ADDITIONAL GRADE RINGS MAY BE USED TO ELEVATE EXISTING MANHOLE FRAMES TO RESURFACED GRADE (MAX 4" HEIGHT).
3. OPTIONAL: HINGED FRAME AND COVER AS SPECIFIED.
4. LOAD RATING: AASHTO H-20



MANHOLE FRAME & COVER-UNPAVED AREAS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	MANHOLE FRAME AND COVER	STRM 017 2017/12/22

12082-MULTI-DETL Sunday, March 23, 2025



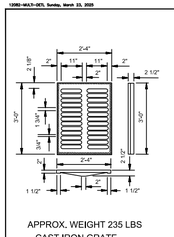
23-3/4" x 35-3/4" RECTANGULAR GRATE

NOTES:

1. FRAME WEIGHT: 165 POUNDS
2. GRATE WEIGHT: 190 POUNDS
3. LOAD RATING: AASHTO H-20
4. OPEN AREA: 233 SQUARE INCHES
5. INSTALL DRAIN MARKER

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	ADA COMPLIANT CATCH BASIN FRAME AND GRATE 23" x 35"	STRM 019 2018/11/13

12082-MULTI-DETL Sunday, March 23, 2025

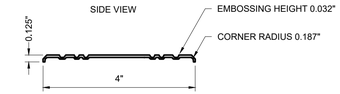


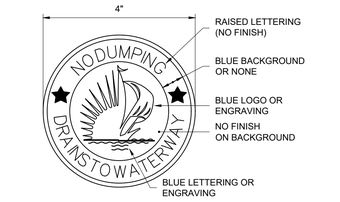
NOTES

1. THESE INLETS ARE SUITABLE FOR BICYCLE TRAFFIC AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO INFREQUENT TRAFFIC LOADINGS BUT ARE NOT TO BE PLACED IN AREAS SUBJECT TO ANY HEAVY WHEEL LOADS. THESE INLETS MAY BE PLACED IN AREAS SUBJECT TO OCCASIONAL PEDESTRIAN TRAFFIC SUCH AS LANDSCAPED AREAS AND PAVEMENT AREAS WHERE PEDESTRIANS TRAFFIC SUCH AS LANDSCAPED AREAS AND PAVEMENT AREAS WHERE PEDESTRIANS CAN WALK AROUND THE INLET.
2. INLETS SUBJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN ROADWAY CLEAR ZONES AND AREAS SUBJECT TO PEDESTRIANS SHALL HAVE TRAVERSABLE SLOTS. TRAVERSABLE SLOTS SHALL NOT BE USED IN AREAS SUBJECT TO OCCASIONAL BICYCLE TRAFFIC.
3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH NON-TRAVERSABLE SLOTS.
4. STEEL GRATES ARE REQUIRED ON INLETS WITH TRAVERSABLE SLOTS AND ON INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	DITCH BOTTOM INLET TYPE C GRATES	STRM 020 2017/12/22

12082-MULTI-DETL Sunday, March 23, 2025





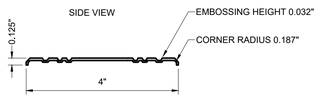
FINISH		
UV BAKED ENAMEL - 1 COLOR OPTION		
MATERIAL	THICKNESS	WEIGHT
304 ANNEALED STAINLESS STEEL	0.062"	0.218 LBS.

NOTES:

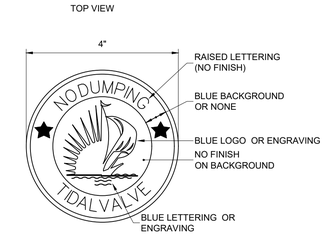
1. DRAIN MARKER SHALL BE BY LORDON, INC., OR EQUAL.
2. SECURE WITH SIKAFLEX IIFC ADHESIVE.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	DRAIN MARKER	STRM 021 2017/12/22

12082-MULTI-DETL Sunday, March 23, 2025



TOP VIEW



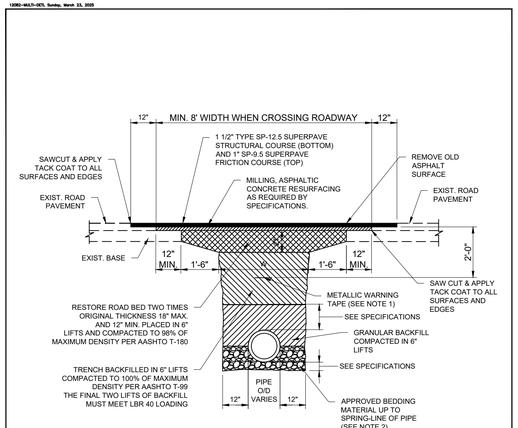
FINISH		
UV BAKED ENAMEL - 1 COLOR OPTION		
MATERIAL	THICKNESS	WEIGHT
304 ANNEALED STAINLESS STEEL	0.062"	0.218 LBS.

NOTES:

1. DRAIN MARKER SHALL BE BY LORDON, INC., OR EQUAL.
2. SECURE WITH SIKAFLEX IIFC ADHESIVE.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TIDAL VALVE MARKER	STRM 022 2017/12/22

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

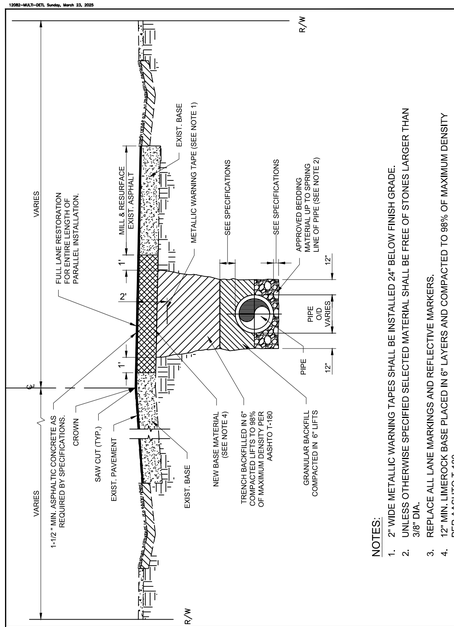
1. METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE ABOVE MAIN. (SEE SPECIFICATION 2320 SECTION 3.6 FOR MARKING TYPE)
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.

T=6" PARKING
T=6" RESIDENTIAL STREETS
T=10" MAJOR STREETS (4 LANE)
T=12" MAJOR STREETS (6 LANE)

2T=18" MAX. 12" MIN.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TYPICAL TRENCH AND PAVEMENT RESTORATION FOR TRANSVERSE PIPE CROSSING SHEET 1	ROAD 001 2017/03/11

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

1. 2" WIDE METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE.
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.
4. 12" MIN. LIMEROCK BASE PLACED IN 6" LAYERS AND COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TYPICAL ROAD SECTION, TYPICAL TRENCH AND TRENCH RESTORATION FOR PARALLEL PIPE TRENCH SHEET 2	ROAD 002 2018/06/04

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
DADE No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: SCALE: AS SHOWN
DECF
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 7

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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500 West Cypress Creek Road,
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Ft. Lauderdale, FL 33309
954.730.0707
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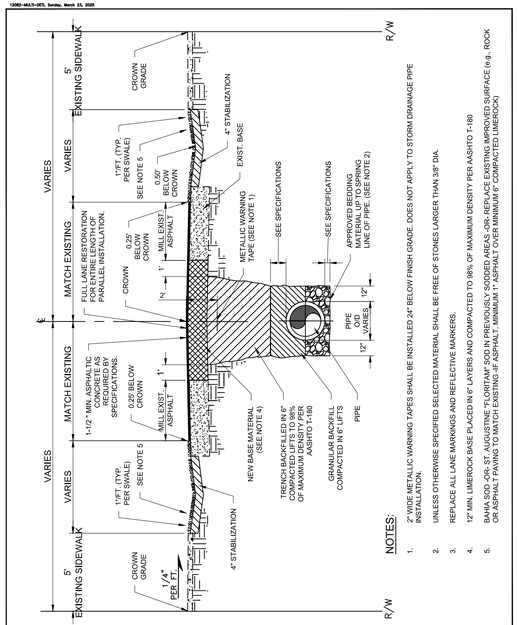
SHEET NO. DT-07
SHT # 135
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025

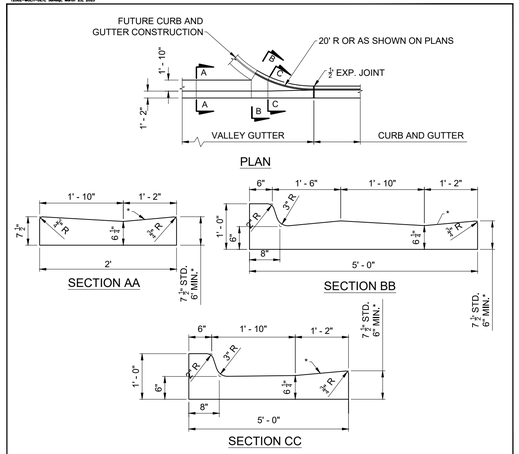


NOTES:

1. 2" WIDE METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE. DOES NOT APPLY TO STORM DRAINAGE PIPE INSTALLATION.
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.
4. 12" MIN. LIMEROCK BASE PLACED IN 6" LAYERS AND COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180
5. BASE SLOPE TO BE ADJUSTED TO MATCH EXISTING ASPHALT SLOPE IN TRANSITIONAL AREAS OR, WHERE EXISTING IMPROVED SURFACE (e.g., ROCK OR ASPHALT) IS TO MATCH EXISTING ASPHALT, MINIMUM 1" ASPHALT OVER MINIMUM 6" COMPACTED LIMEROCK)

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TYPICAL ROAD SECTION, TYPICAL TRENCH, PAVEMENT AND SWALE RESTORATION FOR PARALLEL PIPE TRENCH SHEET 3	STD. NO. ROAD 003 2017/08/07

12082-MULTI-DETL Sunday, March 23, 2025

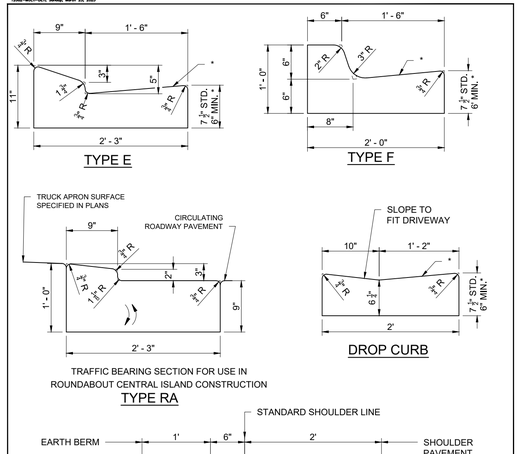


NOTES:

1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.
2. ROTATE ENTIRE SECTION SO THAT GUTTER CROSS SLOPE MATCHES SLOPE OF ADJACENT CIRCULATING ROADWAY PAVEMENT.
3. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT. FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE SHEET 2. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE SHEET 2.
4. 4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE CURB AND GUTTER VALLEY GUTTER SHEET 1	STD. NO. ROAD 005 2017/03/11

12082-MULTI-DETL Sunday, March 23, 2025

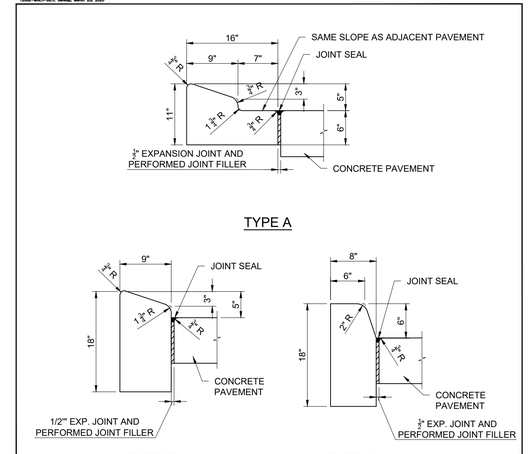


NOTE:

4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE CURB AND GUTTER TYPE E, TYPE F, TYPE RA, DROP CURB, AND SHOULDER GUTTER SHEET 2	STD. NO. ROAD 006 2017/03/11

12082-MULTI-DETL Sunday, March 23, 2025

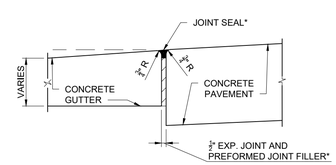


NOTES:

1. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.
2. 4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE CURB AND GUTTER TYPE A, TYPE B, AND TYPE D SHEET 3	STD. NO. ROAD 007 2018/06/04

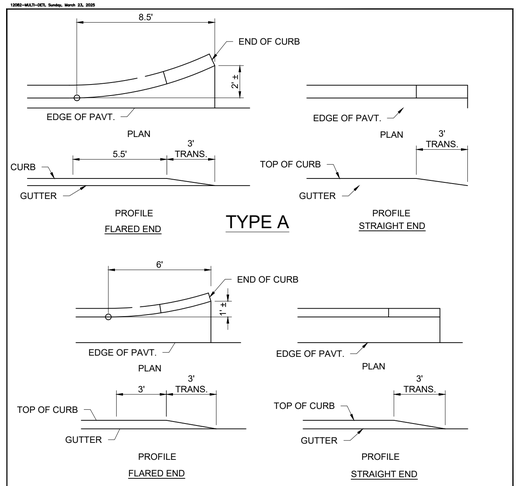
12082-MULTI-DETL Sunday, March 23, 2025



* APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE CURB AND GUTTER EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT SHEET 4	STD. NO. ROAD 008 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025

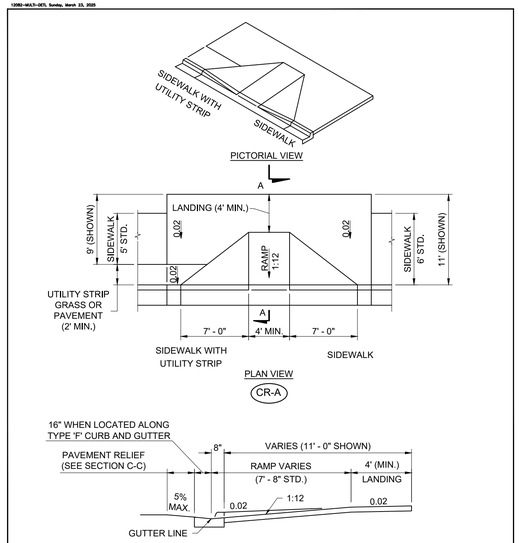


NOTES:

1. FOR CURB, GUTTER AND CURB & GUTTER PROVIDE ⅛" - ¼" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3'.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE CURB AND GUTTER CURB AND GUTTER ENDINGS SHEET 5	STD. NO. ROAD 009 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 1	STD. NO. ROAD 014 2018/06/04

Hazen

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ENGINEER:
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REG. No: 65558
DATE:

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DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK: ---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

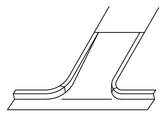
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 8

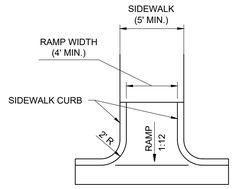
SHEET NO. DT-08
SHT # 136
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025



PICTORIAL VIEW

CR-E



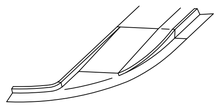
PLAN VIEW

CR-A

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC

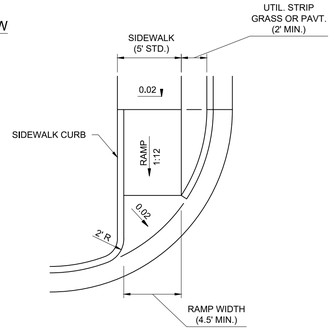
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 5	INDEX NO. ROAD 018 DATE 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025



PICTORIAL VIEW

CR-F



PLAN VIEW

CR-F

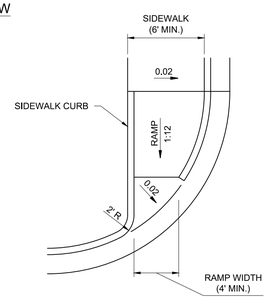
DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 6	INDEX NO. ROAD 019 DATE 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025

PICTORIAL VIEW

CR-G



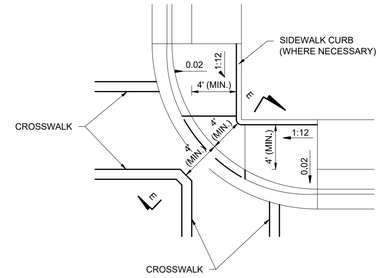
PLAN VIEW

CR-G

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 7	INDEX NO. ROAD 020 DATE 2018/06/04

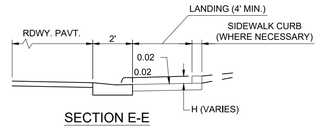
12082-MULTI-DETL Sunday, March 23, 2025



PLAN VIEW

CR-F

NOTE: CROSSWALK WIDTH AND CONFIGURATION VARY; MUST CONFORM TO INDEX NO. 17344 AND 17346. 15' RADIUS CURVE SHOWN FOR CR-L.



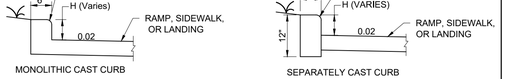
SECTION E-E

SECTION THROUGH LANDING
(RESTRICTED CONDITIONS)

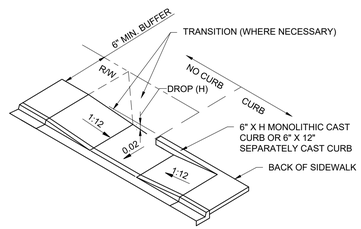
SIDEWALK CURB RAMPS WHERE RAMP AND LANDING DEPTHS ARE RESTRICTED

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 10	INDEX NO. ROAD 023 DATE 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025



SIDEWALK CURB OPTIONS

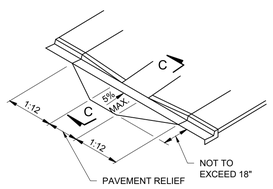


CONSTRUCT SIDEWALK CURB IN CUT SECTIONS

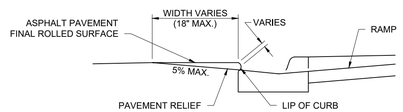
SIDEWALK CURB

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 11	INDEX NO. ROAD 024 DATE 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025



PICTORIAL VIEW



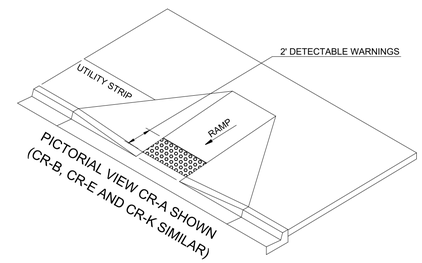
NOTE: REMOVE ELEVATED PAVEMENT BY SPADING AND ROLLING; SMOOTH MILLING; OR GRINDING

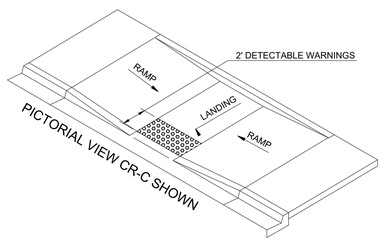
SECTION C-C

PAVEMENT RELIEF AT LIP OF CURB

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 12	INDEX NO. ROAD 025 DATE 2018/06/04

12082-MULTI-DETL Sunday, March 23, 2025





TYPICAL PLACEMENT OF DETECTABLE WARNINGS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 15	INDEX NO. ROAD 028 DATE 2018/06/04

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JLS	DECF	JJM	
DATE: 03/25/25	SCALE: AS SHOWN		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

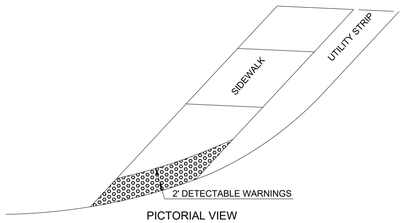
STANDARD DETAILS - SHEET 9

SHEET NO.	SHT #
DT-09	137
TOTAL:	233

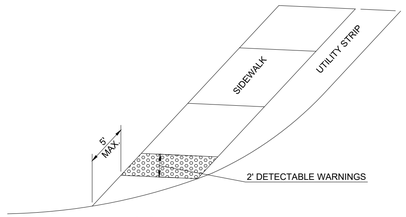
CAD FILE: 12082-MULTI-DETL

DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025



PICTORIAL VIEW
FLUSH SHOULDER
(OPTION A)

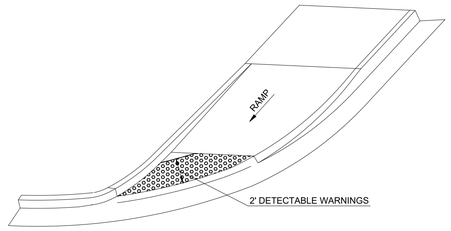


PICTORIAL VIEW
FLUSH SHOULDER
(OPTION B)

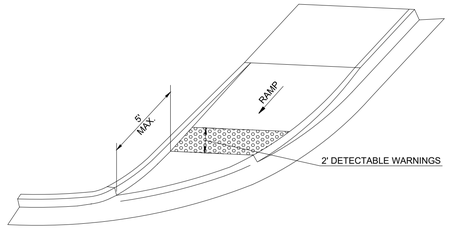
TYPICAL PLACEMENT OF DETECTABLE WARNINGS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 16	STD. NO. ROAD 029 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



PICTORIAL VIEW CR-G SHOWN
(OPTION A) (CR-F AND CR-H SIMILAR)

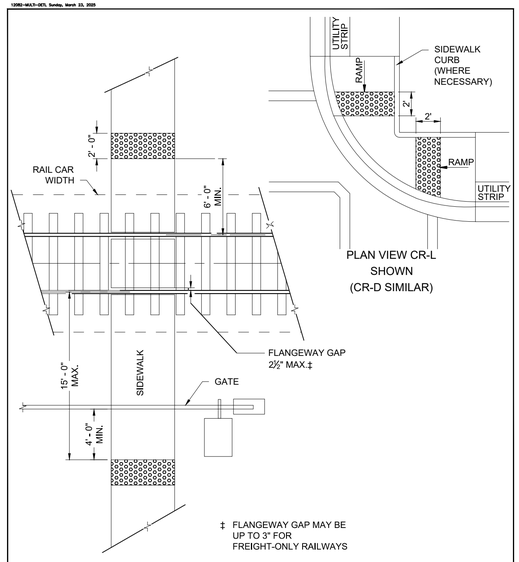


PICTORIAL VIEW CR-G SHOWN
(OPTION B) (CR-F AND CR-H SIMILAR)

TYPICAL PLACEMENT OF DETECTABLE WARNINGS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 17	STD. NO. ROAD 030 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



PLAN VIEW CR-L
SHOWN
(CR-D SIMILAR)

‡ FLANGEWAY GAP MAY BE
UP TO 3" FOR
FREIGHT-ONLY RAILWAYS

PLAN VIEW
RAILROAD CROSSING

TYPICAL PLACEMENT OF DETECTABLE WARNINGS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	SIDEWALK CURB RAMPS SHEET 19	STD. NO. ROAD 032 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025

TABLE OF DETECTABLE WARNINGS		
CURB RAMP TYPE	CURB RADIUS (FT)	TOTAL AREA (SF)
CR-A	N/A	8
CR-B	N/A	8
CR-C	N/A	8
CR-D	25	11
CR-E	N/A	8
CR-F	10	9
	20	11
	25	13
	30	14
CR-G	10	10
	20	11
	25	12
	30	14
CR-H	20	8
	25	8
	30	8
CR-K	N/A	8
CR-L	10	18
	15	13
FLUSH SHOULDER		
OPTION A	10	11
	20	14
	25	15
	30	17
	40	19
	50	21
OPTION B	10	10
	20	10
	25	10

NOTE:

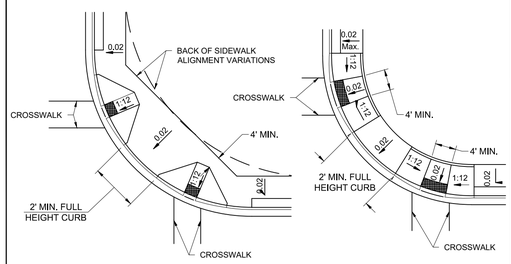
DUE TO CONSTRUCTION APPLICATIONS, CR-L IS THE ONLY CURB RAMP FOR WHICH A DETECTABLE WARNING QUANTITY WAS CALCULATED USING A CURB RADIUS OF 15'.

FOR FLUSH SHOULDER OPTIONS WITH 5' SIDEWALKS, THE BACK OF SIDEWALK IS MEASURED AT 10' FROM THE EDGE OF TRAVELED WAY.

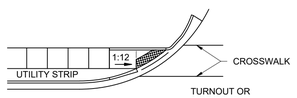
AREAS OF DETECTABLE WARNINGS FOR SIDEWALK CURB RAMP AND FLUSH SHOULDER APPLICATIONS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TABLE OF DETECTABLE WARNINGS SHEET 20	STD. NO. ROAD 033 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



RADIAL SIDEWALK RAMPS



LINEAR SIDEWALK RAMPS

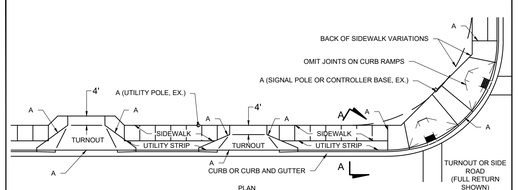
NOTES:

1. WHERE CROSSWALK MARKINGS ARE USED, RAMPS SHALL FALL WITHIN THE CROSSWALK LIMITS. A CLEAR SPACE OF 48" MINIMUM IS REQUIRED AT THE BOTTOM OF THE RAMP WITHIN A MARKED CROSSWALK. IF CROSSWALK MARKINGS ARE NOT PRESENT, A CLEAR SPACE OF 48" MINIMUM IS REQUIRED AT THE BOTTOM OF THE RAMP OUTSIDE OF ACTIVE TRAVEL LANES.
2. CROSSWALK WIDTHS AND CONFIGURATIONS VARY; MUST CONFORM TO INDEX NO. 17344 AND 17346.

TYPICAL PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS

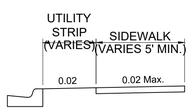
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	TYPICAL PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS SHEET 21	STD. NO. ROAD 034 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



PLAN

SIDEWALK WITH UTILITY STRIP



SECTION AA

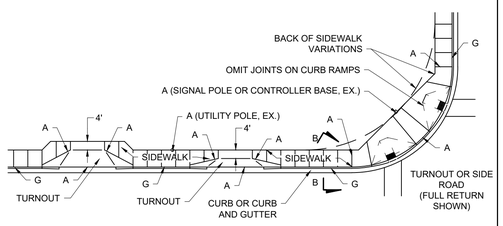
NOTES FOR CONCRETE SIDEWALK ON CURBED ROADWAYS

1. CONSTRUCT SIDEWALKS IN ACCORDANCE WITH SPECIFICATION SECTION 522.
2. INCLUDE DETECTABLE WARNINGS ON SIDEWALK CURB RAMPS AND CONSTRUCT IN ACCORDANCE WITH INDEX NO. 304.
3. DETECTABLE WARNINGS ARE NOT REQUIRED WHERE SIDEWALKS INTERSECT URBAN FLARED TURNOUTS.
4. BOND BREAKER MATERIAL CAN BE ANY IMPERMEABLE COATED OR SHEET MEMBRANE OR PREFORMED MATERIAL HAVING A THICKNESS OF NOT LESS THAN 6 MILS NOR MORE THAN ½".
5. FOR TURNOUTS SEE INDEX NO. 515.
6. CONSTRUCT SIDEWALKS WITH 1' THICK EDGE BEAM THROUGH THE LIMITS OF ANY SURFACE MOUNTED PEDESTRIAN/BICYCLE PICKET RAILING OR PIPE GUIDERAIL SHOWN IN THE PLANS.

CONCRETE SIDEWALK ON CURBED ROADWAYS

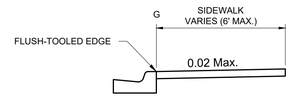
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE SIDEWALK SHEET 1	STD. NO. ROAD 035 REVISION 2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



PLAN

SIDEWALK WITHOUT UTILITY STRIP



SECTION BB

NOTES FOR CONCRETE SIDEWALK ON CURBED ROADWAYS

1. CONSTRUCT SIDEWALKS IN ACCORDANCE WITH SPECIFICATION SECTION 522.
2. INCLUDE DETECTABLE WARNINGS ON SIDEWALK CURB RAMPS AND CONSTRUCT IN ACCORDANCE WITH INDEX NO. 304.
3. DETECTABLE WARNINGS ARE NOT REQUIRED WHERE SIDEWALKS INTERSECT URBAN FLARED TURNOUTS.
4. BOND BREAKER MATERIAL CAN BE ANY IMPERMEABLE COATED OR SHEET MEMBRANE OR PREFORMED MATERIAL HAVING A THICKNESS OF NOT LESS THAN 6 MILS NOR MORE THAN ½".
5. FOR TURNOUTS SEE INDEX NO. 515.
6. CONSTRUCT SIDEWALKS WITH 1' THICK EDGE BEAM THROUGH THE LIMITS OF ANY SURFACE MOUNTED PEDESTRIAN/BICYCLE PICKET RAILING OR PIPE GUIDERAIL SHOWN IN THE PLANS.

CONCRETE SIDEWALK ON CURBED ROADWAYS

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONCRETE SIDEWALK SHEET 2	STD. NO. ROAD 036 REVISION 2018/08/04

Hazen

HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021

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Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

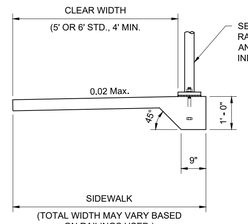
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 10

SHEET NO. DT-10
SHT # 138
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025



SIDEWALK WITH EDGE BEAM FOR SURFACE MOUNTED RAILINGS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

CONCRETE SIDEWALK
SHEET 3

MSTA. NO. ROAD 037
2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025

BASE THICKNESS AND OPTION CODES

BASE GROUP	STRUCTURAL RANGE	BASE GROUP PAY ITEM NUMBER	Base Options								
			LIMEROCK, LBR 100	CEMENTED COQUINA, LBR 100	SHELL ROCK, LBR 100	BANK RUN SHELL, LBR 100	RECYCLED CONCRETE AGGREGATE, LBR 150 **	GRADED AGGREGATE BASE, LBR 100	TYPE B-12.5	B-12.5 AND 4" GRANULAR SUBBASE, LBR 100	RAP BASE
			STRUCTURAL NUMBER (PER, IN.)								
			(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.15)	(0.30)	(0.30 & 0.15)	(NA)
1	0.65-0.75	701	4"	4"	4"	4"	4"	4½"	4"		☐ 5"
2	0.80-0.90	702	5"	5"	5"	5"	5"	5½"	4"		
3	0.95-1.05	703	5½"	5½"	5½"	5½"	5½"	6½"	4"		
4	1.05-1.15	704	6"	6"	6"	6"	6"	7½"	4"		
5	1.25-1.35	705	7"	7"	7"	7"	7"	8½"	4½"		
6	1.35-1.50	706	8"	8"	8"	8"	8"	9"	5"		
7	1.50-1.65	707	8½"	8½"	8½"	8½"	8½"	10"	5½"		
8	1.65-1.75	708	9½"	9½"	9½"	9½"	9½"	11"	5½"		
9	1.75-1.85	709	10"	10"	10"	10"	10"	12"	6"	4"	
10	1.90-2.00	710	11"	11"	11"	11"	11"	Ø 13"	6½"	4½"	
11	2.05-2.15	711	12"	12"	12"	12"	12"	Ø 14"	7"	5"	
12	2.20-2.30	712	12½"	12½"	12½"	12½"	12½"		7½"	5½"	
13	2.35-2.45	713	Ø 13½"	Ø 13½"	Ø 13½"	Ø 13½"	Ø 13½"		8"	6"	
14	2.45-2.55	714	Ø 14"	Ø 14"	Ø 14"	Ø 14"	Ø 14"		8½"	6½"	
15	2.60-2.70	715							9"	7"	

* FOR GRANULAR SUBBASE, THE CONSTRUCTION OF BOTH THE SUBBASE AND TYPE B-12.5 WILL BE BID AND USED AS OPTIONAL BASE. GRANULAR SUBBASES INCLUDE LIMEROCK, CEMENTED COQUINA, SHELL ROCK, BANK RUN SHELL. RECYCLED CONCRETE AGGREGATE AND GRADED AGGREGATE BASE. THE BASE THICKNESS SHOWN IS TYPE B-12.5. ALL SUBBASE THICKNESSES ARE 4" MINIMUM.

** FOR RESTRICTIONS ON THE USE OF RECYCLED CONCRETE AGGREGATE - SEE SPECIFICATIONS SECTION 911.

Ø TO BE USED FOR WIDENING, THREE FEET OR LESS.

BASED ON MINIMUM PRACTICAL THICKNESSES.

☐ FOR RESTRICTIONS ON THE USE OF RAP BASE - SEE STANDARD SPECIFICATIONS.

GENERAL NOTES

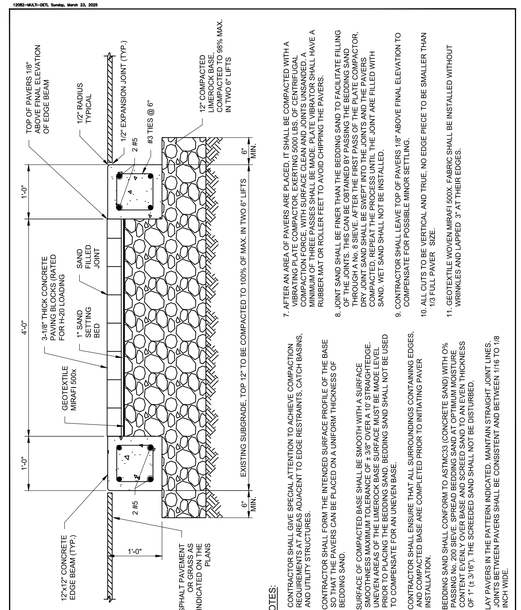
1. WHERE BASE OPTIONS ARE SPECIFIED IN THE PLANS, ONLY THOSE OPTIONS MAY BE BID AND USED.
2. IN SITUATIONS WHERE THE DESIGNER REQUIRES THE USE OF A SINGLE BASE OPTION, AS SHOWN IN THE PLANS, BID AND USE AS OPTIONAL BASE.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

OPTIONAL BASE GROUP & STRUCTURAL NUMBERS

MSTA. NO. ROAD 038
2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

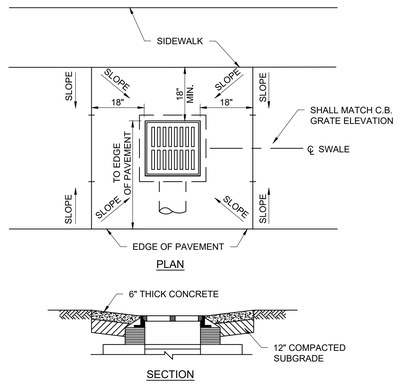
1. CONTRACTOR SHALL GIVE SPECIAL ATTENTION TO ACHIEVE COMPACTION REQUIREMENTS AT AREAS ADJACENT TO EDGE RESTRAINTS, CATCH BASINS, AND UTILITY STRUCTURES.
2. CONTRACTOR SHALL FORM THE INTENDED SURFACE PROFILE OF THE BASE WITH THE PLACED SAN BEF PLACED ON A UNIFORM THICKNESS OF BEDDING SAND.
3. SURFACE OF COMPACTED BASE SHALL BE SMOOTH WITH A SURFACE SMOOTHNESS MAXIMUM TOLERANCE OF ± 3/8" OVER A 10' STRAIGHTEDGE. USE CARE NOT TO DISTURB THE SURFACE OF THE SUBGRADE OR BASE LOOSE PRIOR TO PLACING THE BEDDING SAND. BEDDING SAND SHALL NOT BE USED TO COMPENSATE FOR AN UNEVEN BASE.
4. CONTRACTOR SHALL ENSURE THAT ALL SURROUNDINGS CONTAINING EDGES, AND COMPACTED BASE ARE COMPLETED PRIOR TO INITIATING PAVER INSTALLATION.
5. BEDDING SAND SHALL CONFORM TO ASTMC33 (CONCRETE SAND) WITH 0% PASSING No. 200 SIEVE, SPREAD BEDDING SAND AT OPTIMUM MOISTURE CONTENT AND SCREED TO A UNIFORM LOOSE THICKNESS OF 1" (± 1/8"). THE SCREEDED SAND SHALL NOT BE DISTURBED.
6. LAY PAVERS IN THE PATTERN INDICATED, MAINTAIN STRAIGHT JOINT LINES. JOINTS BETWEEN PAVERS SHALL BE CONSISTENT AND BETWEEN 1/16 TO 1/8 INCH WIDE.
7. AFTER AN AREA OF PAVERS ARE PLACED, IT SHALL BE COMPACTED WITH A VIBRATORY PLATE COMPACTOR. PLACE DRY JOINT SAND AND SWEEP IT INTO THE JOINTS. COMPACT AGAIN AND SWEEP IN MORE SAND. REPEAT A MINIMUM OF THREE PASSES SHALL BE MADE. PLATE VIBRATOR SHALL HAVE A RUBBER MAT OR ROLLER T KEET TO AVOID CHIPPING THE PAVERS.
8. JOINT SAND SHALL BE FINER THAN THE BEDDING SAND TO FACILITATE FILLING THE JOINTS. SAND SHALL BE CLEAN AND DRY AND SHALL BE GRADED FROM THROUGH # No. 8 SIEVE. AFTER THE FIRST PASS OF THE PLATE COMPACTOR, SWEEP IN A SECOND LAYER OF JOINT SAND AND COMPACT THE PAVERS. COMPACT AGAIN. REPEAT THE PROCESS UNTIL THE JOINT ARE FILLED WITH SAND. WET SAND SHALL NOT BE INSTALLED.
9. CONTRACTOR SHALL LEAVE TOP OF PAVERS 1/8" ABOVE FINAL ELEVATION TO COMPENSATE FOR POSSIBLE MINOR SETTLING.
10. ALL CUTS TO BE VERTICAL AND TRUE. NO EDGE PIECE TO BE SMALLER THAN 1/3 FULL PAVER SIZE.
11. GEOTEXTILE WOVEN MIRAFI 500X, FABRIC SHALL BE INSTALLED WITHOUT WRINKLES AND LAPPED 1-4" ON SIDES AND ENDS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DECORATIVE PAVERS
IN ROADWAY

MSTA. NO. ROAD 039
2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



NOTES

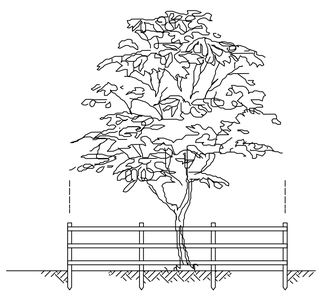
1. PAVING AROUND CATCH BASIN TO BE 6" THICK CONCRETE ON COMPACTED SUBGRADE
2. PAVE 18" WIDE (MIN.) APRON ON (3) SIDES. EXTEND FOURTH SIDE TO EDGE OF PAVEMENT.
3. IF DISTANCE FROM BACK OF CATCH BASIN TO FRONT OF SIDEWALK IS 3.0' OR LESS, EXTEND APRON TO FRONT OF SIDEWALK.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

CATCH BASIN APRON DETAIL
CONCRETE
SHEET 1

MSTA. NO. ROAD 040
2018/08/04

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

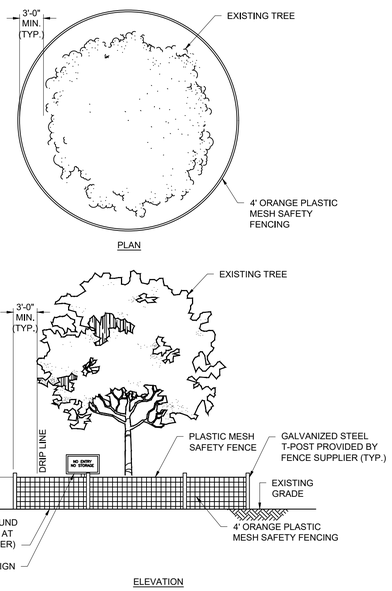
1. BEFORE SITE CLEARING BEGINS PROVIDE NECESSARY MEASURES TO ASSURE SURVIVAL OF VEGETATION.
2. REMOVE BARRIERS AND RESTORE SURFACES PRIOR TO FINAL CLOSEOUT.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TREE PROTECTION BARRIER

MSTA. NO. ROAD 101
2017/07/17

12082-MULTI-DETL Sunday, March 23, 2025

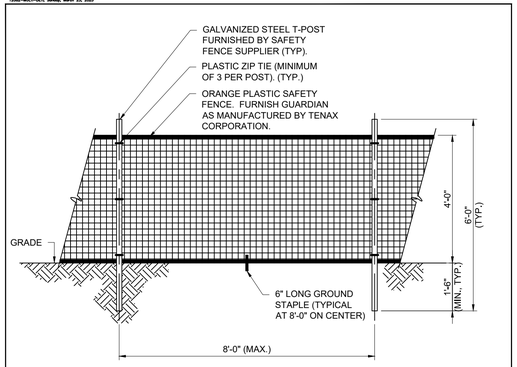


CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

TREE PROTECTION FENCE

MSTA. NO. ROAD 102
2017/07/24

12082-MULTI-DETL Sunday, March 23, 2025



NOTES:

1. REBAR SHALL NOT BE USED FOR SUPPORTING THE FENCE.
2. LOOP THE ZIP TIES THROUGH THE AVAILABLE HOLES OR "TEETH" IN THE POST TO PREVENT THE FENCE FROM SLIDING DOWN THE POST.
3. PLASTIC ZIP TIES SHALL BE AS FOLLOWS:
   A. MINIMUM WIDTH = 0.3 INCHES.
   B. LENGTH = AS REQUIRED.
   C. COLOR = BLACK WITH UV STABILIZER.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PLASTIC SAFETY FENCE

MSTA. NO. ROAD 103
2016/08/21

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DATE: 03/25/25
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

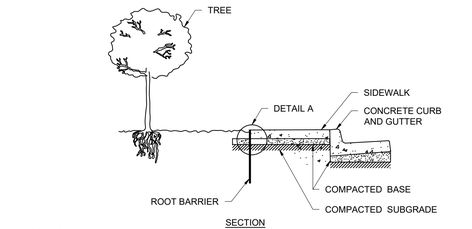
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

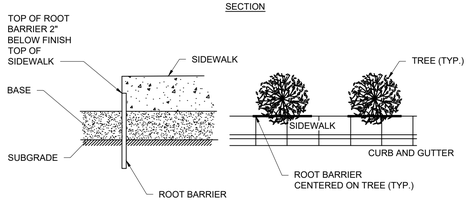
STANDARD DETAILS - SHEET 11

SHEET NO. DT-11
SHT # 139
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025



SECTION



DETAIL A PLAN

NOTES:

1. ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS WITHIN 8'-0" OF SIDEWALK OR AS INDICATED ON THE PLANS.
2. ROOT BARRIER SHALL BE UB 24-2 BY DEEPROOT, OR EQUAL. SUBMIT SHOP DRAWING.
3. TRENCH TO APPROPRIATE DEPTH FOR INSTALLATION OF ROOT BARRIER SO THAT TOP OF BARRIER IS 2" BELOW TOP OF SIDEWALK .
4. PLACE ROOT BARRIER IN TRENCH, VERTICAL RIBS MUST FACE TOWARD TREE ROOTS.
5. BACKFILL AND COMPACT.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	ROOT BARRIER	MTHD. NO. ROAD 104 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

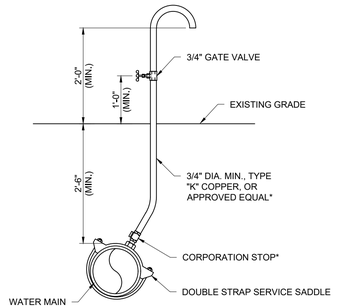
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (NOTE 1)	JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (NOTE 2)	WATER MAIN 3 FT. MINIMUM OTHER PIPE	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR STORM SEWER, THEN 6 INCHES IS THE MINIMUM AND12 INCHES IS PREFERRED OTHER PIPE	NOTE 4 WATER MAIN JOINT (TYP.)
VACUUM SANITARY SEWER	WATER MAIN 10 FT PREFERRED 3 FT. MINIMUM OTHER PIPE	WATER MAIN 12 INCHES IS PREFERRED 6 INCHES MINIMUM OTHER PIPE	NOTE 4 WATER MAIN
GRAVITY SANITARY SEWER, (NOTE 3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	WATER MAIN 10 FT PREFERRED 6 FT. MINIMUM OTHER PIPE	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED OTHER PIPE	NOTE 4 WATER MAIN OTHER PIPE (TYP.)
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT. MINIMUM	—	—

NOTES:

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATE JOINT LOCATIONS ALLOWED UNDER FAC 62-555.314 WILL ONLY BE ALLOWED BY THE ENGINEER ON A CASE-BY-CASE BASIS.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	WATER MAIN SEPARATION	MTHD. NO. WATR 001 2016/09/01

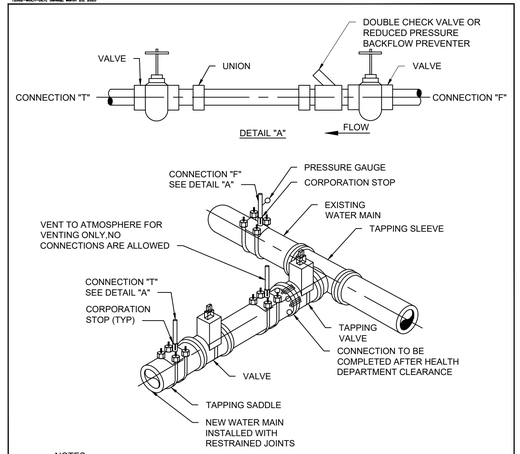
12082-MULTI-DETL Sunday, March 23, 2025



* NOTE: AFTER TESTS REMOVE 3/4" TUBING AND INSTALL PLUG ON CORPORATION STOP.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	BACT SAMPLE POINT - TEMPORARY	MTHD. NO. WATR 002 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025

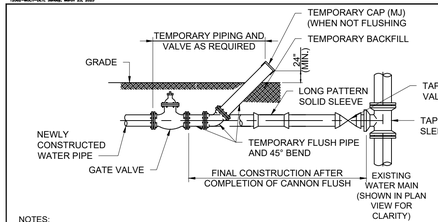


NOTES:

1. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN CLEARED BY HEALTH DEPARTMENT.
3. CLOSE CORPORATION STOPS AND PLUG/CAP WITH LEAD-FREE BRASS FITTINGS AFTER SAMPLING IS COMPLETED.
4. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	FILLING AND FLUSHING CONNECTION	MTHD. NO. WATR 004 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



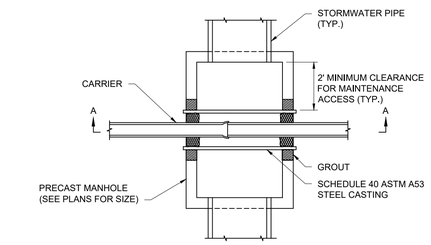
NOTES:

1. FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER OF RECORD.
2. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
3. INSTALL A TEMPORARY 45° BEND, VALVE AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
4. BENDS AND PIPING SHALL BE THE SAME SIZE OR LARGER AS THE LINE BEING FLUSHED.
5. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION THE CONTRACTOR SHALL PROPERLY NOTIFY OWNER'S INSPECTOR OF SUCH INTENDED WATER USE.
6. NO EXISTING VALVES SHALL BE OPERATED, EXCEPT BY AUTHORIZED OWNER PERSONNEL.
7. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE OWNER'S INSPECTOR.
8. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
9. ALL PIPING SHALL BE RESTRAINED.
10. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.
11. CONTRACTOR IS CAUTIONED THAT GOVERNING AGENCIES OR UTILITIES MAY HAVE REGULATIONS LIMITING OR PROHIBITING DISCHARGE INTO SEWERS, SURFACE WATERS, CANALS, DITCHES AND OTHER CONVEYANCES/RETENTION AREAS. ALL COMPLIANCE WITH GOVERNING AGENCY REQUIREMENTS (INCLUDING PERMITTING, IF REQUIRED) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. CANNON FLUSHING TO PROCEED AFTER HEALTH DEPARTMENT CLEARANCE IS RECEIVED.

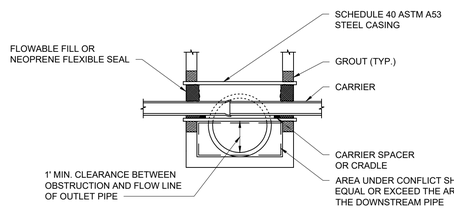
FLUSHING CONNECTION
NOT TO SCALE

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CANNON FLUSHING	MTHD. NO. WATR 005 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



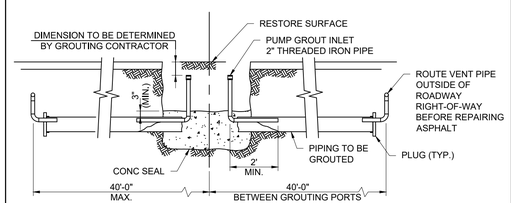
PLAN



SECTION A-A

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	CONFLICT MANHOLE	MTHD. NO. WATR 011 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



NOTE:

1. PROVIDE PLUGS, CORPORATION STOPS AND PIPING AS REQUIRED TO REMOVE AIR FROM THE ABANDONED PIPELINES WHILE GROUTING.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	PIPE GROUTING	MTHD. NO. WATR 012 2016/09/21

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
LIC. No: 65558
DATE:

TEL: 954.730.0707
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DATE: 03/25/25
DRAWN BY: JLS
DESIGNED BY: DECF
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK: ---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

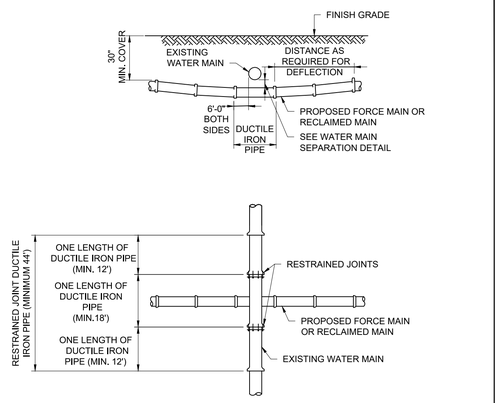
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
STANDARD DETAILS - SHEET 12

SHEET NO. DT-12
SHT # 140
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

12082-MULTI-DETL Sunday, March 23, 2025

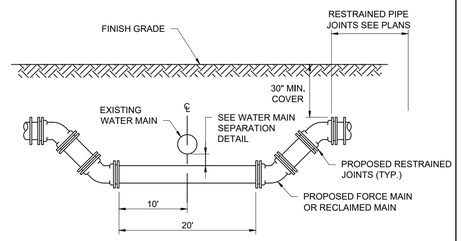


NOTE:

1. JOINTS SHALL NOT BE DEFLECTED MORE THAN 50% OF MANUFACTURER'S RECOMMENDED DEFLECTION.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	UTILITY CROSSING DEFLECTION TYPE	WATR. NO. WATR 013 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025

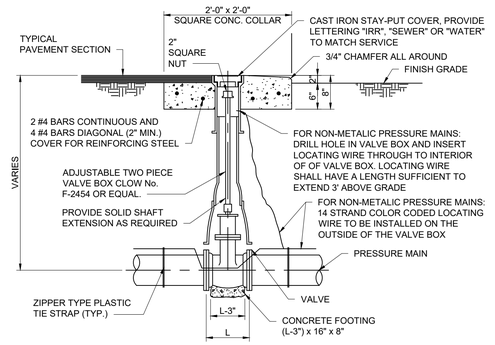


NOTE:

1. WHEREVER POSSIBLE, DEFLECTION OF THE PIPE (PER THE DETAIL TITLED "UTILITY CROSSING - DEFLECTION TYPE") SHALL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS DETAIL SHALL BE USED ONLY WHEN APPROVED BY ENGINEER.

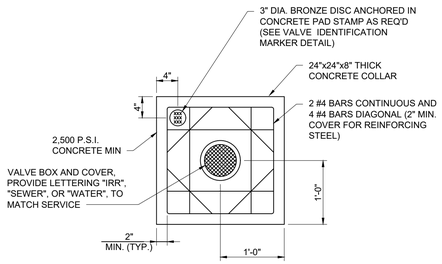
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	UTILITY CROSSING FITTING TYPE	WATR. NO. WATR 014 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



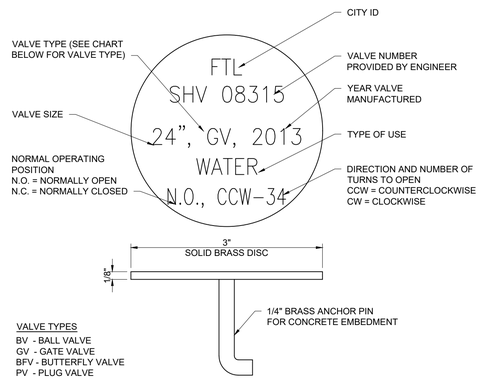
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	VALVE BOX	WATR. NO. WATR 015 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	VALVE BOX COLLAR	WATR. NO. WATR 016 2016/09/21

12082-MULTI-DETL Sunday, March 23, 2025



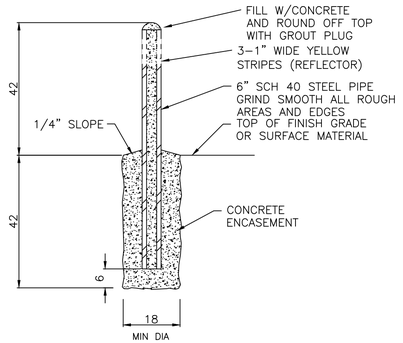
VALVE TYPES

BV - BALL VALVE
GV - GATE VALVE
BFV - BUTTERFLY VALVE
PV - PLUG VALVE

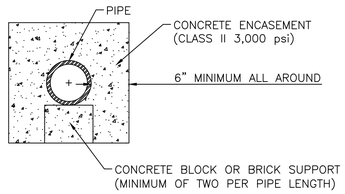
NOTES:

1. VALVE INFORMATION TO BE ENGRAVED INTO TOP SURFACE WITH 1/4" CAPITAL LETTERS.
2. ENTIRE MARKER TO BE COATED WITH CLEAR EPOXY TO PREVENT TARNISHING.
3. MARKERS SHALL BE MANUFACTURED BY WAGER COMPANY OF FLORIDA.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS 100 North Andrews Avenue, Fort Lauderdale, Florida 33301	VALVE ID MARKER	WATR. NO. WATR 017 2016/09/21



NOTE:
ALL STEEL MUST BE COMPLETELY PAINTED AFTER INSTALLATION WITH ZINC-RICH RUST INHIBITIVE PAINT. (TRAFFIC YELLOW).



NOTES:

1. WHERE MINIMUM COVER, 36", IS NOT AVAILABLE ENCASEMENT WILL BE REQUIRED.
2. ALL CONCRETE ENCASEMENTS MUST BE FORMED AND INSPECTED BY THE CITY'S INSPECTOR PRIOR TO PLACING CONCRETE AND BACKFILLING.
3. WRAP PIPE IN VISQUEEN PRIOR TO POURING ENCASEMENT.
4. AT CROSSINGS, ENCASEMENT SHALL EXTEND TEN FEET (10') ON EITHER SIDE OF CROSSING.
5. BEGINNING AND ENDING OF ENCASEMENTS SHALL NOT BE MORE THAN 6" FROM A PIPE JOINT.

Hazen

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HOLLYWOOD, FLORIDA 33021

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ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

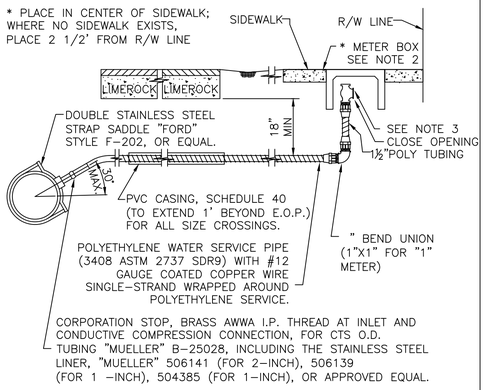
DRAWN BY:	DATE:
JLS	03/25/25
DESIGNED BY:	SCALE:
DECF	AS SHOWN
CHECKED BY:	FIELD BOOK:
JJM	---

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
STANDARD DETAILS - SHEET 13

SHEET NO.	SHT #
DT-13	141
TOTAL:	233
CAD FILE: 12082-MULTI-DETL	
DRAWING FILE NO. 4-144-88	

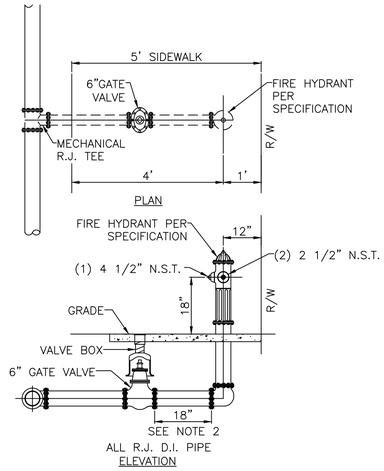


NOTE:

1. GROUND KEY ANGLE METER STOP,CONDUCTIVE COMPRESSION FOR CTS O.D. TUBING, X METER FLANGE 180° TURN CHECK-LOCK WING "MUELLER" H-14277, FOR 2-INCH INCLUDING THE STAINLESS STEEL LINER, "MUELLER" 506141 (FOR 2-INCH) OR APPROVED EQUAL, AND MUELLER 110 COMPRESSION CONNECTION.
2. METER BOXES FOR 5/8, 3/4, AND 1 INCH METERS SHALL BE THE OKIE DOKIE #890-40-260282 MEDIUM BOX AND 890-40-260257 MEDIUM LID OR EQUAL.
3. CONNECT ANGLE VALVE TO EXISTING METER WHERE APPLICABLE.

300 TYPICAL WATER SERVICE INSTALLATION

Scale: 1" = 1'

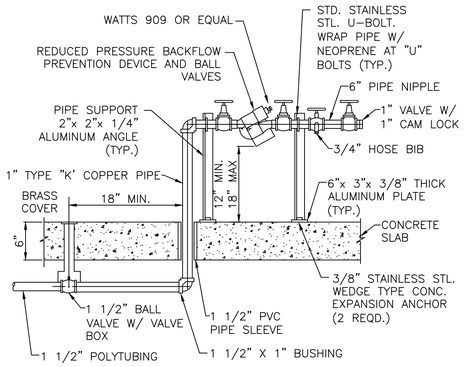


NOTES:

1. ACTUAL LOCATION OF FIRE HYDRANT TO BE DECIDED IN THE FIELD WITH ENGINEER'S APPROVAL.
2. KEEP VALVE AS CLOSE AS POSSIBLE TO THE HYDRANT.

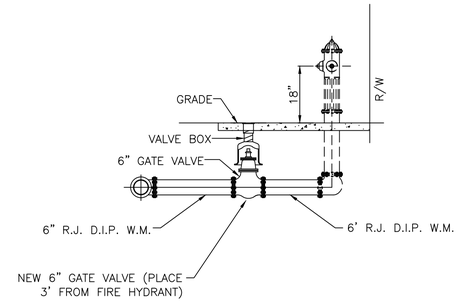
302 TYPICAL NEW FIRE HYDRANT ASSEMBLY INSTALLATION

Scale: 1" = 2'



307 REDUCED PRESSURE BACKFLOW PREVENTER WITH HOSE CONNECTION FOR LIFT STATION

Scale: 1" = 1'

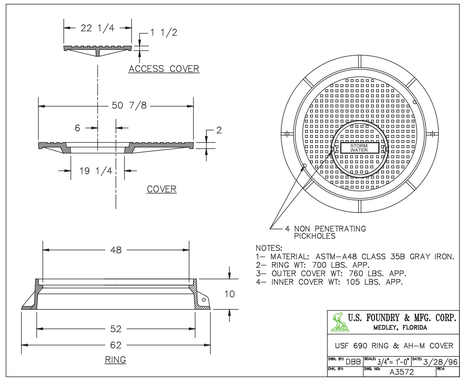


NOTES:

1. RECONNECT EXISTING FIRE HYDRANT TO NEW WATER MAIN.
2. KEEP VALVE AS CLOSE AS POSSIBLE TO THE HYDRANT.
3. WHEN FIRE HYDRANT "TEE" IS ON P.V.C. PIPE RUN, CONSTRUCT 1 LENGTH OF D.I.P. (R.J.) PIPE ON EACH SIDE OF FIRE HYDRANT "TEE".

308 RELOCATE OR CONNECT EXISTING FIRE HYDRANT

Scale: 1" = 2'

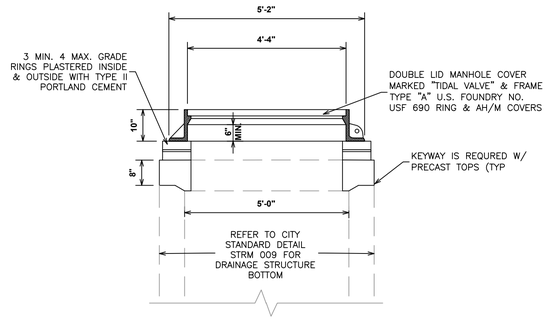


NOTES:

1. PRECAST CONCRETE TOP SLAB 4000 P.S.I.
2. REINFORCEMENT SHALL BE DESIGN BY THE MANUFACTURER TO COMPLY WITH FDOT INDEX 425.
3. LIFT HOLES ARE PERMITTED AND SHALL BE COATED WITH MORTAR INSIDE AND OUTSIDE AFTER INSTALLATION.
4. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH A.S.T.M. C-478 LATEST STANDARD.
5. CONCRETE COLLAR REQUIRED WHEN MANHOLE IS OUTSIDE PAVEMENT, SEE CITY STANDARD DETAIL ROAD 040.
6. IF MANHOLE IS LARGER THAN 4' DIAMETER USE REDUCING GRADE RING OR CONE SECTION.
7. SET STRUCTURE FRAME ON A BED OF PORTLAND CEMENT AND SILICA SAND. BRING MORTAR UP TO FRAME.

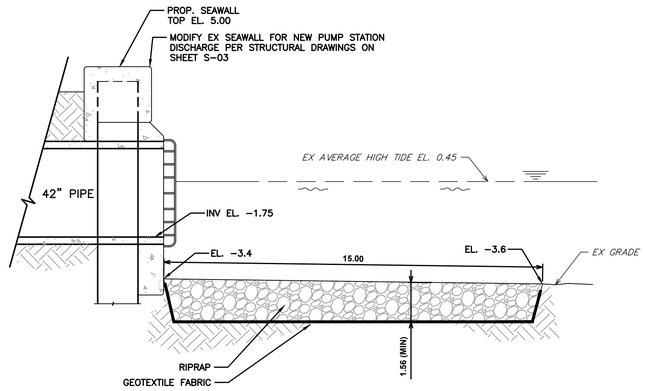
60" Ø OUTFALL STRUCTURE DETAIL

N.T.S



12" SWALE PROFILE

N.T.S



NOTES:

1. CONTRACTOR SHALL REMOVE ANY EXISTING FILTER FABRIC, RUBBLE, AND DEBRIS PRIOR TO INSTALLING RIPRAP.
2. CONTRACTOR SHALL ADD AND/OR REMOVE MATERIAL DURING INSTALLATION TO ENSURE THE BOTTOM ELEVATION OF THE WATERWAY, PRIOR TO SCOUR, IS NOT ALTERED.
3. CONTRACTOR SHALL FIELD VERIFY AREA OF EXISTING SCOUR PRIOR TO INSTALLING RIPRAP SYSTEM.
4. RIPRAP SHALL BE WELL-GRADED, ROUNDED STONES WITH AN AVERAGE EQUIVALENT DIAMETER OF 7 INCHES (APPROXIMATELY 5 INCHES TO 9 INCHES AND 5 TO 40 POUNDS). CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ENGINEER'S REVIEW.
5. CONTRACTOR TO PROTECT EXISTING SEAGRASS, TO REMAIN.
6. CONTRACTOR SHALL REFER TO STRUCTURAL DRAWINGS FOR OUTFALL/SEAWALL REQUIREMENTS.

PUMP STATION OUTFALL RIPRAP DETAIL

N.T.S

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
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DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
STANDARD DETAILS - SHEET 14

SHEET NO. DT-14 | SHT # 142
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1869 of 2050

PROPRIETARY AND CONFIDENTIAL
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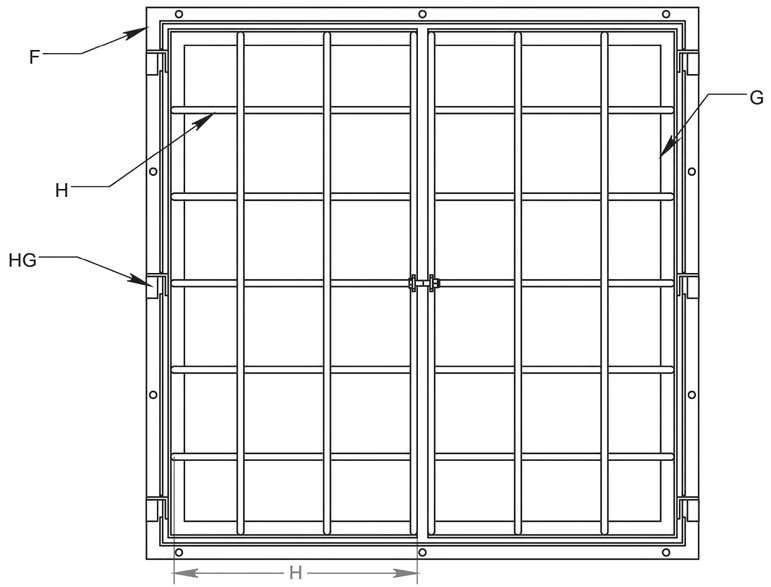
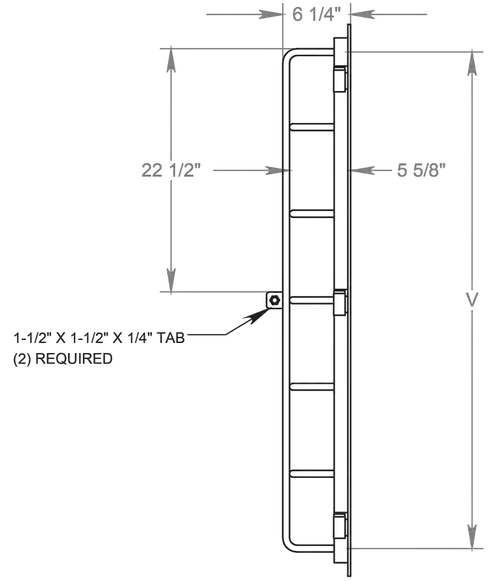
HINGED MANATEE GATE FOR A 42" DIA. PIPE



FRONT VIEW



SIDE VIEW

ITEM	DESCRIPTION	QTY.	DIMENSIONS
F	1 ½" X 1 ½" X ¼" STEEL ANGLE FRAME	1	51" X 51"
G	1 ½" X 1 ½" X ¼" STEEL ANGLE GATE	2	23" X 47"
H	½" STEEL ROUND BAR – HORIZONTAL	10	22-7/16"
V	½" STEEL ROUND BAR – VERTICAL	6	45-7/8"
HG	STANDARD STEEL HINGE	6	2" X 2"

HARDWARE: (10) 3/8" X 2-3/4" SS WEDGE ANCHORS

SCALE: NTS

DIMENSIONS ARE IN INCHES. TOLERANCE ±N/A UNLESS OTHERWISE SPECIFIED

3RD ANGLE PROJECTION

DATE: February 18, 2025 **QUOTE #:** 2502297 **QT LINE #:** 1

CUSTOMER: CHEN MOORE AND ASSOCIATES **DRN BY:** PBRENNAN

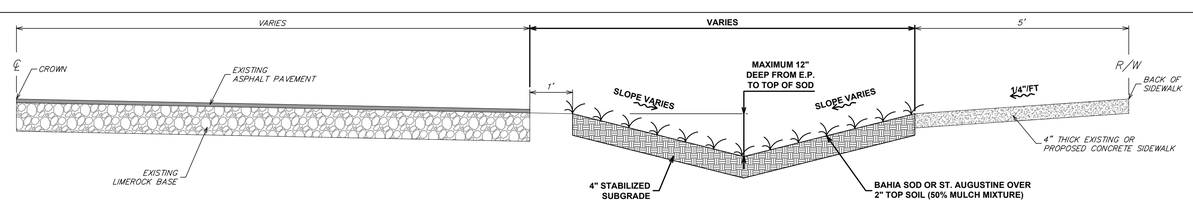
JOB CITY OF FT LAUDERDALE HINGED GRATE 42

SO#: **SO LINE#:** **QTY:** 1

STRUCTURE # (s):

ENVIRONMENTAL COMPOSITES
4250 LAKE INDUSTRIAL BLVD.
TAVARES, FL 32778-9506 USA
PHONE: 352-343-3449 FAX: 352-343-5577

SOLIDWORKS



NOTES:

1. CONTRACTOR SHALL CENTER BOTTOM OF SWALE BETWEEN EDGE OF PAVEMENT AND R/W LINE IF NO SIDEWALK EXIST.
2. SLOPE VARIES BY ELEVATION OF INVERT OF SWALE ON PLANS TO A MAXIMUM OF 1.8:/FT. IF NOT INVERT IS PROVIDED FOLLOW STANDARD MAXIMUM SWALE DEPTH OF 6" TO CONSTRUCT SIDE SLOPE.

12" SWALE PROFILE
N.T.S

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ISSUED FOR BID

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DESIGNED BY: DECF | CHECKED BY: JJM | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

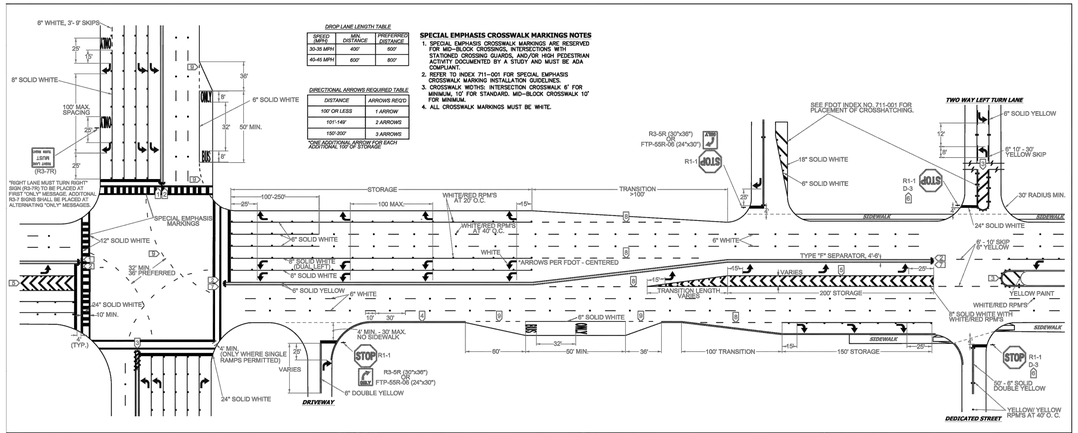
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 15

SHEET NO. DT-15 | SHT # 143
TOTAL: 233
CAD FILE: 12082–MULTI–DETL
DRAWING FILE NO. 4–144–88



DROP LANE LENGTH TABLE		
SPEED (MPH)	MIN. DISTANCE	PREFERRED DISTANCE
30-35 MPH	400'	600'
40-45 MPH	600'	800'

DIRECTIONAL ARROWS REQUIRED TABLE	
DISTANCE	ARROWS REQ'D
100' OR LESS	1 ARROW
101'-149'	2 ARROWS
150'-200'	3 ARROWS

*ONE ADDITIONAL ARROW FOR EACH ADDITIONAL 100' OF STORAGE

SPECIAL EMPHASIS CROSSWALK MARKINGS NOTES

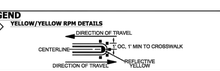
1. SPECIAL EMPHASIS CROSSWALK MARKINGS ARE RESERVED FOR MID-BLOCK CROSSWALK INTERSECTIONS WITH STATIONED CROSSING GUARDS, AND/OR HIGH PEDESTRIAN ACTIVITY DOCUMENTED BY A STUDY AND MUST BE ADA COMPLIANT.
2. REFER TO INDEX 711-001 FOR SPECIAL EMPHASIS CROSSWALK MARKING INSTALLATION GUIDELINES.
3. CROSSWALK WIDTHS: INTERSECTION CROSSWALK 6' FOR MINIMUM, 10' FOR STANDARD. MID-BLOCK CROSSWALK 10' FOR MINIMUM.
4. ALL CROSSWALK MARKINGS MUST BE WHITE.

NOTES

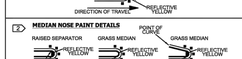
1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND APPLIED WITH PXD ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.
4. SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM's (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
5. RPM's SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.
8. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
9. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
10. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.
11. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
12. RPM'S SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.
13. LONGITUDINAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS ON COUNTY ROADS THAT ARE FOUR LANES OR GREATER.

LEGEND

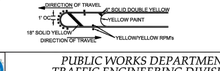
1 YELLOW/YELLOW RPM DETAILS



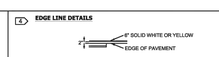
2 MEDIAN NOSE PAINT DETAILS



3 PAINTED MEDIAN DETAILS



4 EDGE LINE DETAILS



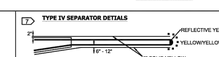
5 CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS

SEE FDOT INDEX NO. 17346 FOR PLACING OF CHEVRONS

6 STREET NAME BLADE DETAILS

SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS.

7 TYPE IV SEPARATOR DETAILS



8 6'-10' SKIP DETAILS

6' - 10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:

- TRANSITIONS AT ALL LEFT AND RIGHT TURN LANES

9 2'-4' SKIP DETAILS

2' - 4' SKIPS 8" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:

- RADIUS SECTIONS OF INTERSECTIONAL LEFTS TURN MOVEMENT (80' RADIUS OR LESS) (INCLUDING TURN LANES)
- BUS BAY TRANSITIONS

STOP SIGN NOTE

WHERE SIDE ROADS INTERSECT A MULTI LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"X36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 30"X30".

REVISIONS	
DATE	DESCRIPTION
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES
05-06-2022	UPDATED NOTES

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

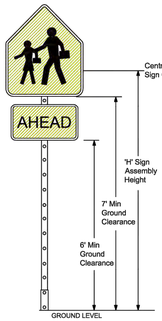
DESIGN BY: CARMELO CARATOZZOLO, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: CARMELO CARATOZZOLO, P.E.	

PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET NO. 1 OF 1

GUIDE TO USE THIS STANDARD:

1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.

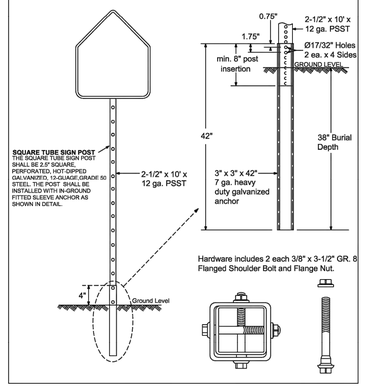


Post Size Table

Total Panel Area (sf)	'H' Sign Assembly Height (ft) (measure from ground)				
	8	8.5	9	9.5	10
3					
4					
5	Sign Post with 3" x 7 ga. Square Anchor				
6					
7					
8					
9					
10					
11					
12					
13	Sign Post with Triangular Slip Base Assembly				
14					
15					
16					
17					
18					
19	Two Post Installation Required with Triangular Slip Base				
20+					

*REGARDLESS OF POST SIZE TABLE: IF A SIGN PANEL IS EQUAL TO OR GREATER THAN 4 FEET IN WIDTH, A TWO POST INSTALLATION IS REQUIRED WITH A TRIANGULAR SLIP BASE.

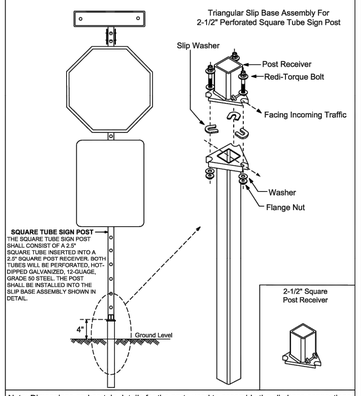
Sign Post with 3" x 7 ga. Square Anchor



SQUARE TUBE SIGN POST
THE SQUARE TUBE SIGN POST SHALL BE 2.5" SQUARE, PERFORATED, HOT-DIPPED GALVANIZED, 12-GUAGE,GRADE 50 STEEL. THE POST SHALL BE INSTALLED WITH IN-GROUND FITTED SLEEVE ANCHOR AS SHOWN IN DETAIL.

Hardware includes 2 each 3/8" x 3-1/2" GR. 8 Flanged Shoulder Bolt and Flange Nut.

Sign Post with Triangular Slip Base



SQUARE TUBE SIGN POST
THE SQUARE TUBE SIGN POST SHALL CONSIST OF A 2.25" SQUARE TUBE INSERTED INTO A SQUARE TUBE POST RECEIVER. BOTH TUBES WILL BE PERFORATED, HOT-DIPPED GALVANIZED, 12-GUAGE, GRADE 50 STEEL. THE POST SHALL BE INSTALLED INTO THE SLIP BASE ASSEMBLY SHOWN IN DETAIL.

Note: Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

REVISIONS	
DATE	DESCRIPTION
03-21-2017	UPDATED POST SIZE
11-24-2020	ADDED POST SIZE NOTE
02-05-2021	UPDATED POST BASE HEIGHT

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: YVES D'ANJOU, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: ANDREW SEBO, P.E., PTOE	

GROUND SIGN ASSEMBLY DETAILS

SHEET NO. 1 OF 1

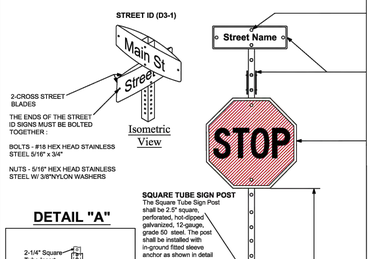
ENGINEER: DAVID E. CASTRO FELIU, P.E.
LICENSE No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: SCALE: AS SHOWN
DECF | CHECKED BY: JJM
FIELD BOOK:

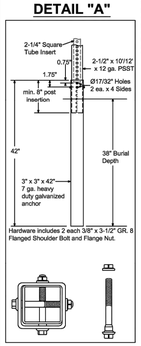
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

FOR SIGN ASSEMBLIES WITH MAXIMUM 8.75 SQUARE FOOT PANEL AREA

Typical Details

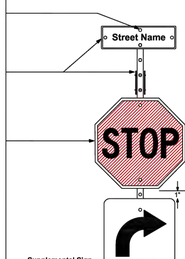


DETAIL "A"



FOR SIGN ASSEMBLIES WITH GREATER THAN 8.75 SQUARE FOOT PANEL AREA WITH SUPPLEMENTAL SIGN

Typical Details



STREET ID (D3-1) MATERIALS:

LETTERS
WHITE TYPE XI SHEETING
LETTERING OF STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWERCASE LETTERS WITH INITIAL UPPERCASE LETTERS

BORDER
BORDER WIDTHS WILL VARY BASED ON LETTER HEIGHTS

LETTER HEIGHTS - BORDER WIDTHS
4 INCH LETTER = 0.375 INCH BORDER WIDTH
6 INCH LETTER = 0.500 INCH BORDER WIDTH
8 INCH LETTER = 0.750 INCH BORDER WIDTH

GREEN BACKGROUND
GREEN TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT

LETTER SIZES
SEE MUTCD TABLE 2D-2 (PG 163) FOR MINIMUM LETTER HEIGHTS LENGTH VARIES BY STREET NAME.

HARDWARE
BOLTS - #18 HEX HEAD STAINLESS STEEL 5/16" x 3"
NUTS - 5/16" STAINLESS STEEL W/ NYLON WASHERS.

REGULATORY SIGN
WHEN NO STREET ID IS PRESENT
THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST WHILE MAINTAINING 7 FEET MIN. CLEARANCE BETWEEN BOTTOM OF SIGN AND GROUND LEVEL. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN SHALL BE SMALLER THAN THE STOP SIGN.

STOP, DO NOT ENTER OR YIELD
WHITE TYPE XI SHEETING
PRESSURE-SENSITIVE RED TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT.

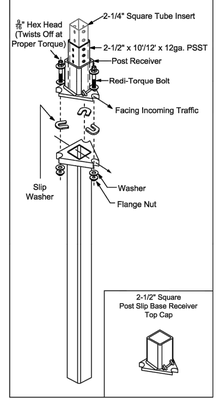
HARDWARE
FRONT: #18 HEX HEAD STAINLESS STEEL 5/16" x 3" BOLT W/ 3/8" NYLON WASHER
BACK: 5/16" HEX HEAD STAINLESS STEEL NUT W/ 3/8" STAINLESS STEEL WASHER.

NOTES: 1. ALL TYPE XI SHEETING UTILIZED MUST BE ON THE FDOT APL LIST.

2. SEE BCTED TECHNICAL POLICY MEMO #TPM - 16-001 - SPECIFICATIONS FOR RETROFLECTIVE TRAFFIC SIGN MATERIALS.

DETAIL "B"

Triangular Slip Base Assembly For 2-1/2" Perforated Square Steel Tube Sign Post



SQUARE TUBE SIGN POST
The Square Tube Sign Post shall consist of a 6 foot x 2.25" square tube insert inserted into a 2.5" square post receiver. Both tubes will be perforated, hot-dipped galvanized, 12-gauge, grade 50 steel. The post shall be installed into the slip base assembly shown in detail "B".

Notes:
1. Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.
2. For standard ground sign installation, see detail entitled " Ground Sign Assembly Details".

REVISIONS	
DATE	DESCRIPTION
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT
06-22-2023	UPDATED SIGN POST NOTES

BROWARD COUNTY FLORIDA

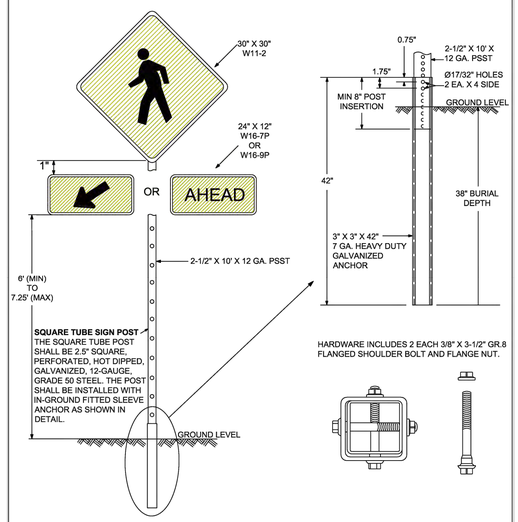
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: CARMELO CARATOZZOLO, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: CARMELO CARATOZZOLO, P.E.	

STOP SIGN AND STREET IDENTIFICATION ASSEMBLY TYPICAL DETAILS

SHEET NO. 1 OF 1

W11-2 (30"x 30") & SUPPLEMENTAL (24"x12") SIGN ASSEMBLY



HARDWARE INCLUDES 2 EACH 3/8" X 3-1/2" GR.8 FLANGED SHOULDER BOLT AND FLANGE NUT.

1. SCHOOL ZONE AND PEDESTRIAN SIGNS SHALL BE COMPRISED OF REFLECTIVE FLUORESCENT YELLOW-GREEN SHEETING. (SEE BCTED TECHNICAL POLICY MEMO #TPM-16-001 ON BCTED WEBSITE)
2. NOT FOR USE WITH RECTANGULAR RAPID FLASHING BEACONS

BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

W11-2 (30"x 30") & SUPPLEMENTAL (24"x 12") SIGN ASSEMBLY	
REVISION: 11-15-18	SCALE: NTS
	DESIGN BY: YVES D'ANJOU, P.E.
	DRAWN BY: STEPHON RAMOUTAR
SHEET 1 OF 1	CHECKED BY: ANDREW SEBO, P.E., PTOE

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ISSUED FOR BID

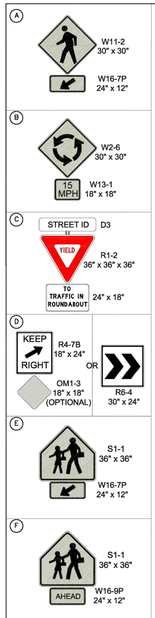
REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

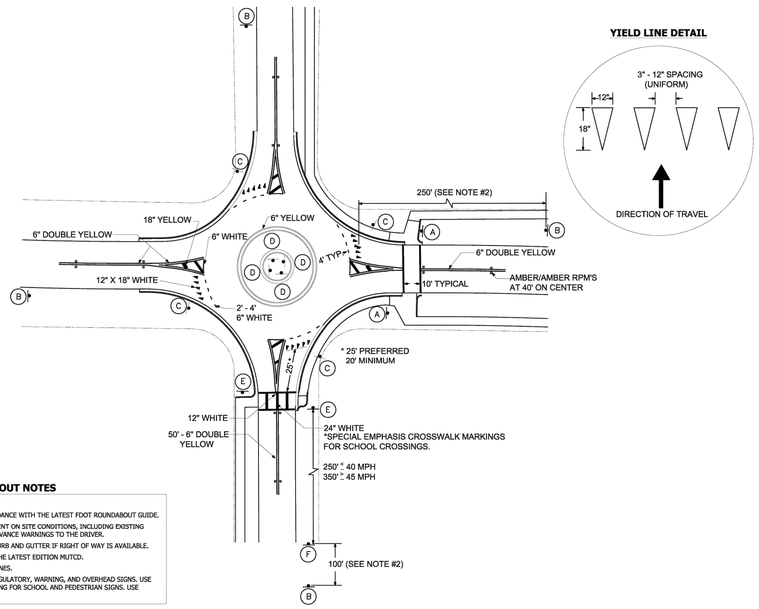
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 16

SHEET NO. DT-16 | SHT # 144
TOTAL: 233
CAD FILE: 12082-MULTI-DETL
DRAWING FILE NO. 4-144-88

CAM #25-0925
Exhibit 1F
Page 1871 of 2050





YIELD LINE DETAIL

ROUNDABOUT NOTES

GENERAL NOTES:

1. ROUNDABOUT GEOMETRY SHALL BE IN ACCORDANCE WITH THE LATEST FDOT ROUNDABOUT GUIDE.
2. PLACEMENT OF ADVANCE SIGNAGE IS DEPENDENT ON SITE CONDITIONS, INCLUDING EXISTING SIGNAGE, AND SHALL PROVIDE SUFFICIENT ADVANCE WARNINGS TO THE DRIVER.
3. SIGNS SHALL NOT OVERHANG SIDEWALK OR CURB AND GUTTER IF RIGHT OF WAY IS AVAILABLE.
4. SIGN SIZES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION MUTCD.
5. *i' AND 'i' SIGNS SHALL BE USED IN SCHOOL ZONES.
6. TYPE XI SHEETING SHALL BE USED FOR ALL REGULATORY, WARNING, AND OVERHEAD SIGNS. USE TYPE IV YELLOW-GREEN FLUORESCENT SHEETING FOR SCHOOL AND PEDESTRIAN SIGNS. USE TYPE IV SHEETING FOR ALL OTHER SIGNS.

REVISIONS	
DATE	DESCRIPTION
01-18-2017	Minor Changes
04-12-2018	Added Sign
04-09-2019	Updated Sign Requirements

BROWARD COUNTY FLORIDA

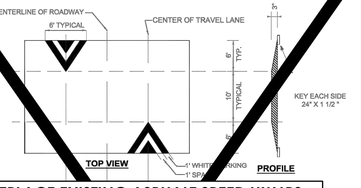
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: LEI CAI, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: CARMELO CARATOZZOLO, P.E.	

PAVEMENT MARKINGS & SIGNING DETAILS FOR ROUNDABOUTS –LOCAL STREETS

SHEET NO. 1 OF 1

FLAT TOPPED SPEED TABLE
MUTCD MARKINGS FIGURE 3B-30, OPTION "A"



REPLACE EXISTING ASPHALT SPEED HUMPS WITH SPEED CUSHIONS BY TRAFFICLOGIX, OR APPROVED EQUAL. SPEED CUSHIONS SHALL BE 21' x 6' x 3" AND SHALL HAVE INTERLOCKING RUBBER PANELS. PAVEMENT MARKINGS SHALL MEET MUTCD REQUIREMENTS AND REFLECTIVITY REQUIREMENTS. INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM THE ENGINEER AND/OR CITY REGARDING FINAL PRODUCT SELECTION AND PAVEMENT MARKING PREFERENCES PRIOR TO PROCURING THE MATERIAL.

NOTES:

THE FOLL
BROWARD

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3. APPROVED MAINTENANCE OF TRAFFIC PLAN SHALL BE ESTABLISHED FOR EACH SPEED HUMP INSTALLATION.
4. INSTALLATION SHALL BE IN COMPLIANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2023-2024.

REVISIONS	
DATE	DESCRIPTION

BROWARD COUNTY FLORIDA

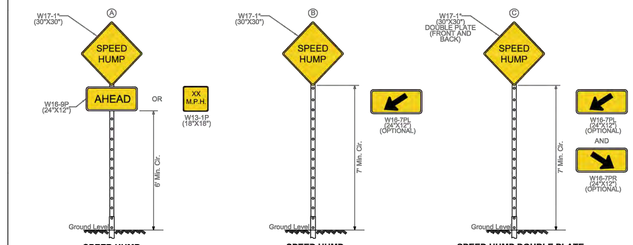
PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

DESIGN BY: LIANA BORREGO CARMONA, P.E.	SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR	
CHECKED BY: LEI CAI, P.E., PTOE	

SPEED HUMP DETAILS AND SPECIFICATIONS

SHEET NO. 1 OF 1

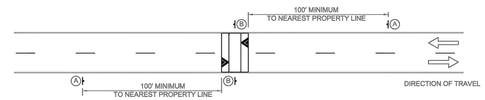
SPEED HUMP WARNING SIGNS PER MUTCD FIGURE 2C-6



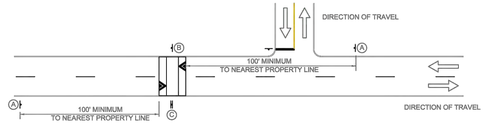
SPEED HUMP ADVANCE WARNING SIGN | **SPEED HUMP WARNING SIGN** | **SPEED HUMP DOUBLE PLATE WARNING SIGN**

*USE 36" X 36" ON MULTILANE ROADWAYS

STANDARD



INTERSECTION



ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CH'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

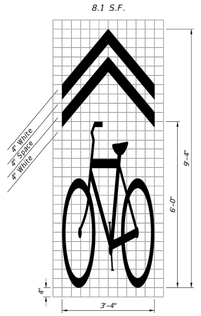
STANDARD DETAILS - SHEET 17

SHEET NO. DT-17
SHT # 145
TOTAL: 233
CAD FILE: 12082–MULTI–DETL
DRAWING FILE NO. 4–144–88

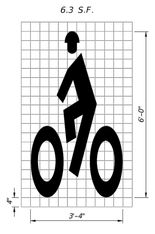
ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

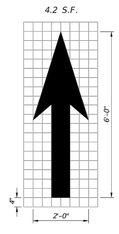
cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



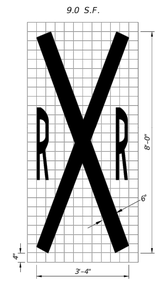
SHARED LANE MARKING (SLM)



HELMETED BICYCLIST SYMBOL



BIKE LANE ARROW



RAILROAD CROSSING

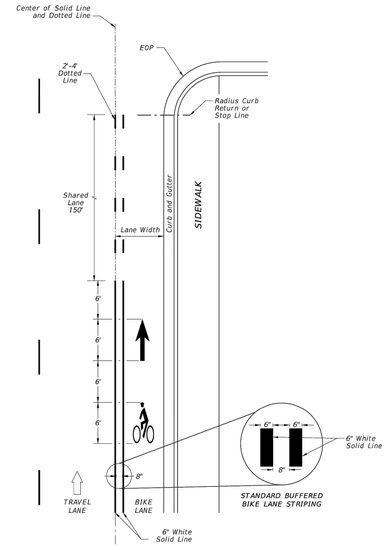
NOTES:

1. All bicycle markings and pavement messages shall be White.
2. All bicycle markings shall be preformed thermoplastic.
3. All grids are 4" x 4".

STANDARD PAVEMENT MARKING MESSAGE LAYOUTS

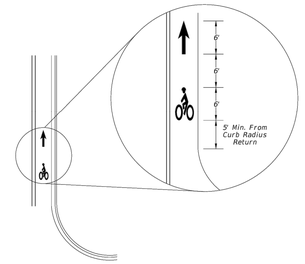
2/10/2023 8:01:58 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	BICYCLE MARKINGS	INDEX	SHEET
11/01/17						711-002	1 of 2



APPROACH TO INTERSECTIONS DETAILS

STANDARD BUFFERED BIKE LANE STRIPING



FAR SIDE OF INTERSECTION DETAIL

BUFFERED BIKE LANES

2/10/2023 8:01:57 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	BICYCLE MARKINGS	INDEX	SHEET
11/01/17						711-002	2 of 2

ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No: 65558
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
CHECKED BY: JJM
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CH'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 18

SHEET NO.	SHT #
DT-18	146
TOTAL:	233

CAD FILE: 12082-MULTI-DETL

DRAWING FILE NO. 4-144-88

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
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Suite 600
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954.730.0707
www.chenmoore.com

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TRENCH SCHEDULE

Parameter	S-23 to S-24	S-30 to S-29	S-34 to S-33	S-39 to S-37	S-40 to S-39	S-42 to S-41	S-48 to S-45	S-54 to S-51	S-59 to S-57	S-65 to S-59	S-70 to S-65	S-71 to S-70	S-72 to S-71	S-75 to S-72	S-83 to S-79	S-86 to S-83	S-89 to S-80	S-184 to S-67	S-187 to S-184	S-289 to S-73	S-286 to S-289
Pipe Diameter	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Legth between structure ceter	261	238	221	113	97	170	289	264	379	274	172	191	269	209	298	366	216	313	265	102	156
L	253	230	213	105	89	162	281	256	371	266	164	183	261	201	290	358	208	305	257	94	148
Lowest rim El	4.84	4.65	6.29	7.25	7.28	7.31	7.79	7.72	5.9	5.9	9.1	9.13	6.48	6.48	6.78	7.55	6.78	6	6	5.93	6.52
Asphalt and Base	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
top of exfil to road base	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
W	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
T	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Ds	3.49	3.68	2.04	1.08	1.05	1.02	0.54	0.61	2.43	2.43	-0.77	-0.80	1.85	1.85	1.55	0.78	1.55	2.33	2.33	2.40	1.81
Du	0.01	-0.18	1.46	2.42	2.45	2.48	2.96	2.89	1.07	1.07	4.27	4.30	1.65	1.65	1.95	2.72	1.95	1.17	1.17	1.10	1.69
H2	0.5	0.5	0.5	0.5	0.5	0.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
EL "A"	-0.49	-0.68	0.96	1.92	1.95	1.98	2.46	2.39	0.57	0.57	3.77	3.80	1.15	1.15	1.45	2.22	1.45	0.67	0.67	0.60	1.19
EL "B"	0.51	0.32	1.96	2.92	2.95	2.98	3.46	3.39	1.57	1.57	4.77	4.80	2.15	2.15	2.45	3.22	2.45	1.67	1.67	1.60	2.19
EL "C"	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
EL "D"	3.01	2.82	4.46	5.42	5.45	5.48	5.96	5.89	4.07	4.07	7.27	7.30	4.65	4.65	4.95	5.72	4.95	4.17	4.17	4.10	4.69
EL "E"	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2

Parameter	S-182 to S-285	S-276 to S-282	S-190 to S-47	S-194 to S-192	S-198 to S-197	S-201 to S-198	S-208 to S-205	S-211 to S-208	S-218 to S-216	S-219 to S-220	STIN 70 - STIN 71	S-222 to S-206	S-229 to S-227	S-231 to S-230	S-233 to S-224	S-238 to S-236	S-241 to S-235	S-244 to S-241	S-27 to S-250	S-256 to S-25	S-258 to S-260
Pipe Diameter	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Legth between structure ceter	343	255	288	230	331	273	276	292	282	68	47	250	115	134	231	185	267	293	361	300	303
L	335	247	280	222	323	265	268	284	274	60	39	242	107	126	223	177	259	285	353	292	295
Lowest rim El	7.22	6.14	5.27	8.62	7.64	7.35	7.05	6.66	5.56	5	5.2	7.11	7.29	7.26	6.58	6.54	6.52	6.51	5.09	5.87	5.95
Asphalt and Base	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
top of exfil to road base	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
W	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
T	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Ds	1.11	2.19	3.06	-0.29	0.69	0.98	1.28	1.67	2.77	3.33	3.13	1.22	1.04	1.07	1.75	1.79	1.81	1.82	3.24	2.46	2.38
Du	2.39	1.31	0.44	3.79	2.81	2.52	2.22	1.83	0.73	0.17	0.37	2.28	2.46	2.43	1.75	1.71	1.69	1.68	0.26	1.04	1.12
H2	2.2	2.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.5	0.5	0.5
EL "A"	1.89	0.81	-0.06	3.29	2.31	2.02	1.72	1.33	0.23	-0.33	-0.13	1.78	1.96	1.93	1.25	1.21	1.19	1.18	-0.24	0.54	0.62
EL "B"	2.89	1.81	0.94	4.29	3.31	3.02	2.72	2.33	1.23	0.67	0.87	2.78	2.96	2.93	2.25	2.21	2.19	2.18	0.76	1.54	1.62
EL "C"	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
EL "D"	5.39	4.31	3.44	6.79	5.81	5.52	5.22	4.83	3.73	3.17	3.37	5.28	5.46	5.43	4.75	4.71	4.69	4.68	3.26	4.04	4.12
EL "E"	5.2	5.2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3.5	3.5	3.5

ISSUED FOR BID

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HOLLYWOOD, FLORIDA 33021

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Suite 600
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ENGINEER:
DAVID E. CASTRO FELIU, P.E.
REG. No. 65538
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CH'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

STANDARD DETAILS - SHEET 19

SHEET NO. DT-19 | SHT # 147

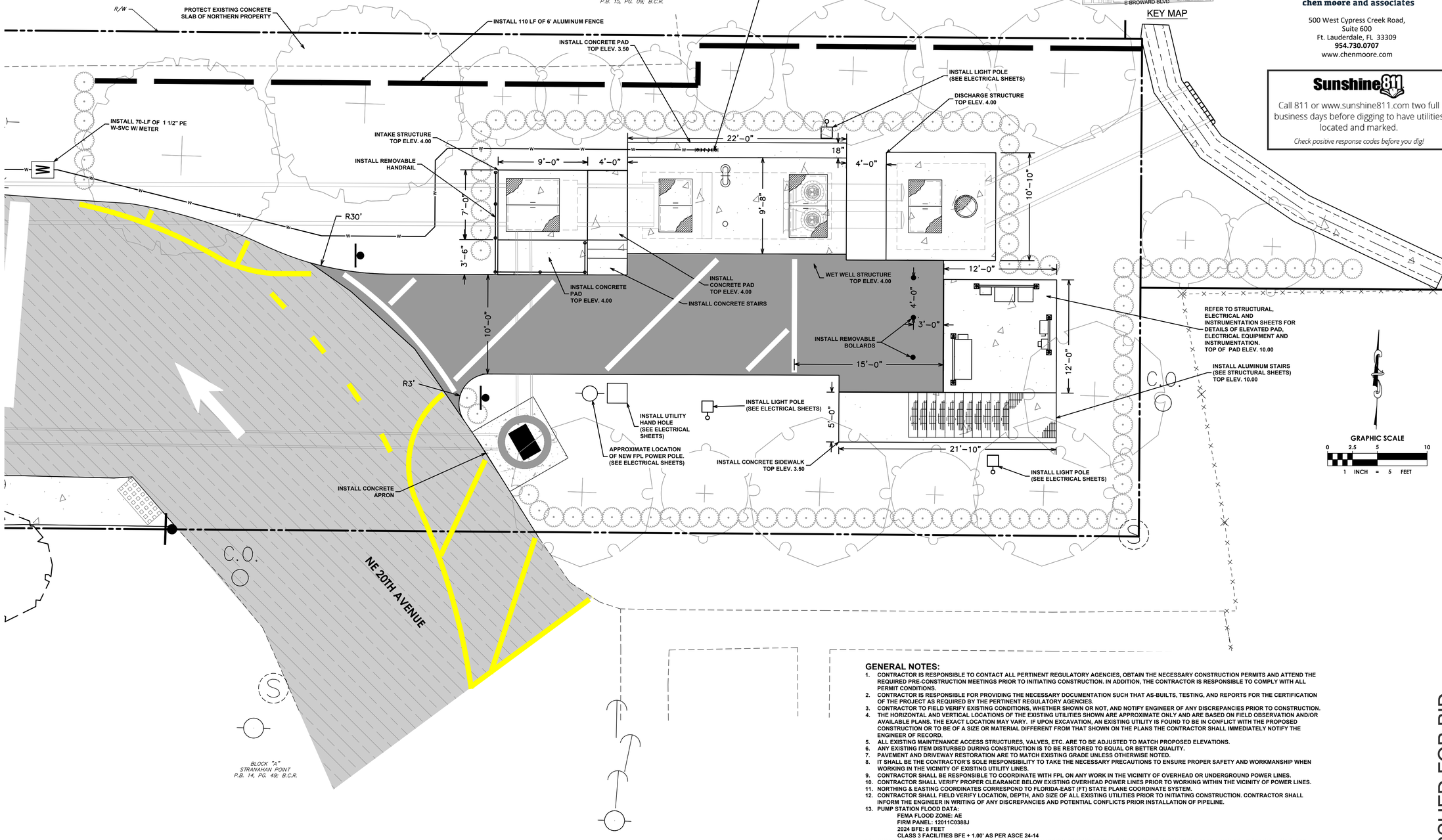
TOTAL: 233

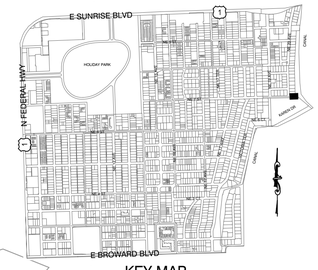
CAD FILE: 12082-MULTI-DETL

DRAWING FILE NO. 4-144-88

LEGEND

- PROPOSED ASPHALT
- PROPOSED ASPHALT MILL & RESURFACING
- PROPOSED BOLLARD
- RIGHT-OF-WAY LINE
- PROPOSED HANDRAIL
- PROPOSED BACKFLOW PREVENTER
- PROPOSED WATER METER AND SERVICE LATERAL
- *EXISTING SANITARY SEWER MANHOLE*
- *EXISTING CLEANOUT*
- *EXISTING CHAIN OR WIRE FENCE*





KEY MAP

GRAPHIC SCALE
0 2.5 5 10
1 INCH = 5 FEET

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO CONTACT ALL PERTINENT REGULATORY AGENCIES, OBTAIN THE NECESSARY CONSTRUCTION PERMITS AND ATTEND THE REQUIRED PRE-CONSTRUCTION MEETINGS PRIOR TO INITIATING CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL PERMIT CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY DOCUMENTATION SUCH THAT AS-BUILTS, TESTING, AND REPORTS FOR THE CERTIFICATION OF THE PROJECT AS REQUIRED BY THE PERTINENT REGULATORY AGENCIES.
3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, WHETHER SHOWN OR NOT, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. THE HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE BASED ON FIELD OBSERVATION AND/OR AVAILABLE PLANS. THE EXACT LOCATION MAY VARY. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
5. ALL EXISTING MAINTENANCE ACCESS STRUCTURES, VALVES, ETC. ARE TO BE ADJUSTED TO MATCH PROPOSED ELEVATIONS.
6. ANY EXISTING ITEM DISTURBED DURING CONSTRUCTION IS TO BE RESTORED TO EQUAL OR BETTER QUALITY.
7. PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
8. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
9. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
10. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF POWER LINES.
11. NORTHING & EASTING COORDINATES CORRESPOND TO FLORIDA-EAST (FT) STATE PLANE COORDINATE SYSTEM.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO INITIATING CONSTRUCTION. CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES AND POTENTIAL CONFLICTS PRIOR INSTALLATION OF PIPELINE.
13. PUMP STATION FLOOD DATA:
    - FEMA FLOOD ZONE: AE
    - FIRM PANEL: 12011C0388J
    - 2024 BFE: 8 FEET
    - CLASS 3 FACILITIES BFE + 1.00' AS PER ASCE 24-14
14. CONTRACTOR SHALL ADJUST THE PROPOSED GRADE ELEVATIONS APPROXIMATELY 3-INCH HIGHER, BEGINNING 4-FEET AWAY FROM SEAWALL CAP. SEE STRUCTURAL SHEET S-03.

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 65538
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS
DESIGNED BY: DECF
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: JJM
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
PUMP STATION SITE PLAN

SHEET NO. PS-01
SHT # 148
TOTAL: 233
CAD FILE: 12082–MULTI–PUMP
DRAWING FILE NO. 4–144–88

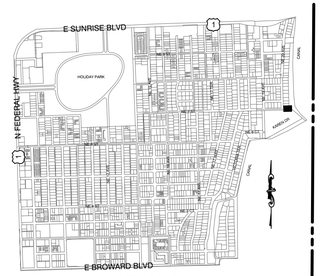
LEGEND

- PROPOSED ELEVATION (00.00)
- PROPOSED SURFACE FLOW ARROW
- PROPOSED ASPHALT
- PROPOSED ASPHALT MILL & RESURFACING
- PROPOSED GRASS
- PROPOSED CONCRETE
- PROPOSED BOLLARD
- PROPOSED ALUMINUM FENCE
- RIGHT-OF-WAY LINE
- PROPOSED CONTOUR
- PROPOSED HANDRAIL
- EXISTING SANITARY SEWER MANHOLE (S)
- EXISTING ELEVATION (+0.00)
- EXISTING CHAIN OR WIRE FENCE

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!



KEY MAP

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

ENGINEER: DAVID E. CASTRO FELIU, P.E.
REG. No: 85558
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JLS | DATE: 03/25/25
DESIGNED BY: DECF | SCALE: AS SHOWN
CHECKED BY: JJM | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PUMP STATION GRADING PLAN

ISSUED FOR BID

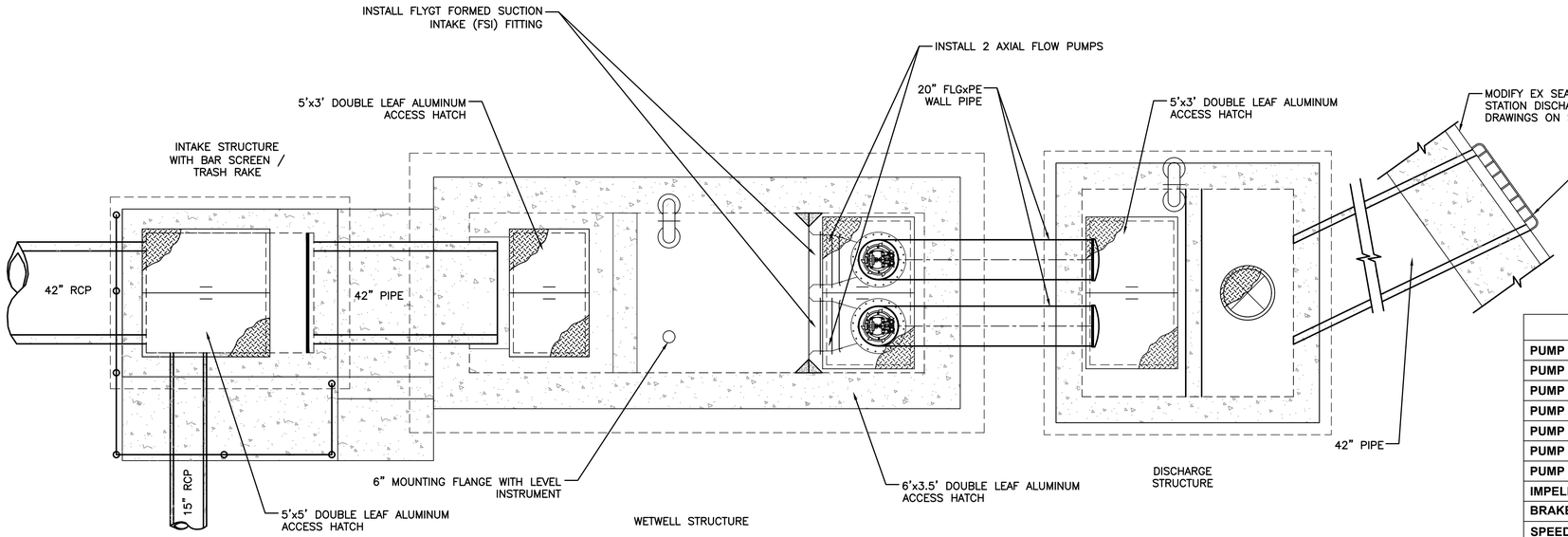
SHEET NO.	SHT #
PS-02	149
TOTAL:	233
CAD FILE: 12082-PS-02	
DRAWING FILE NO. 4-144-88	

GRAPHIC SCALE
0 2.5 5 10
1 INCH = 5 FEET

R/W
PROTECT EXISTING CONCRETE SLAB OF NORTHERN PROPERTY
INSTALL 110 LF OF 6' ALUMINUM FENCE
BLOCK 1
VICTORIA HIGHLANDS AMD
P.B. 15, PG. 09; B.C.R.
INSTALL CONCRETE PAD TOP ELEV. 4.00
INSTALL CONCRETE PAD TOP ELEV. 3.50
WET WELL STRUCTURE TOP ELEV. 4.00
INTAKE STRUCTURE TOP ELEV. 4.00
DISCHARGE STRUCTURE TOP ELEV. 4.00
42" RCP SD
MATCH EXISTING GRADES
INSTALL CONCRETE PAD TOP ELEV. 4.00
10'
15" RCP SD
22' 5%
15' 1%
15" RCP SD
INSTALL CONCRETE SIDEWALK TOP ELEV. 3.50
REFER TO STRUCTURAL, ELECTRICAL AND INSTRUMENTATION SHEETS FOR DETAILS OF ELEVATED PAD, ELECTRICAL EQUIPMENT AND INSTRUMENTATION. TOP OF PAD ELEV. 10.00
INSTALL ALUMINUM STAIRS (SEE STRUCTURAL SHEETS) TOP ELEV. 10.00
C.O.
NE 20TH AVENUE
BLOCK "A"
STRANAHAN POINT
P.B. 14, PG. 49; B.C.R.

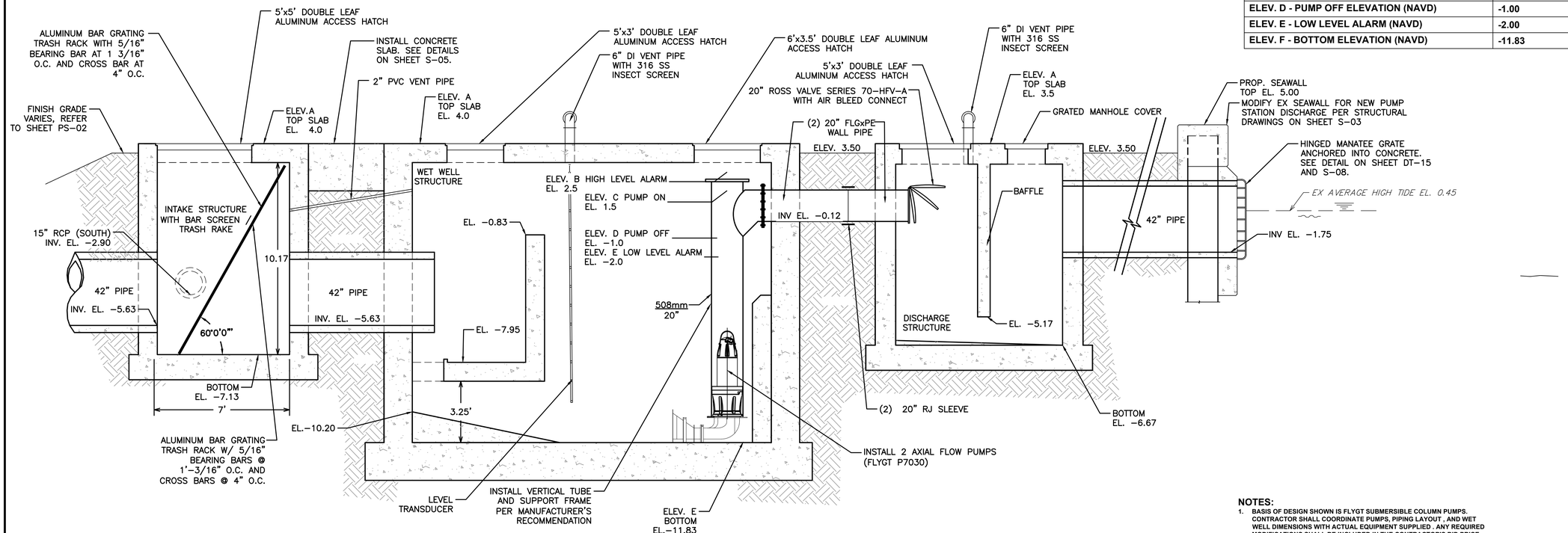
GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO CONTACT ALL PERTINENT REGULATORY AGENCIES, OBTAIN THE NECESSARY CONSTRUCTION PERMITS AND ATTEND THE REQUIRED PRE-CONSTRUCTION MEETINGS PRIOR TO INITIATING CONSTRUCTION. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL PERMIT CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY DOCUMENTATION SUCH THAT AS-BUILTS, TESTING, AND REPORTS FOR THE CERTIFICATION OF THE PROJECT AS REQUIRED BY THE PERTINENT REGULATORY AGENCIES.
3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, WHETHER SHOWN OR NOT, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. THE HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE BASED ON FIELD OBSERVATION AND/OR AVAILABLE PLANS. THE EXACT LOCATION MAY VARY. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
5. ALL EXISTING MAINTENANCE ACCESS STRUCTURES, VALVES, ETC. ARE TO BE ADJUSTED TO MATCH PROPOSED ELEVATIONS.
6. ANY EXISTING ITEM DISTURBED DURING CONSTRUCTION IS TO BE RESTORED TO EQUAL OR BETTER QUALITY.
7. PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
8. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
9. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
10. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF POWER LINES.
11. NORTHING & EASTING COORDINATES CORRESPOND TO FLORIDA-EAST (FT) STATE PLANE COORDINATE SYSTEM.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO INITIATING CONSTRUCTION. CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES AND POTENTIAL CONFLICTS PRIOR INSTALLATION OF PIPELINE.
13. CONTRACTOR SHALL ADJUST THE PROPOSED GRADE ELEVATIONS APPROXIMATELY 3-INCH HIGHER, BEGINNING 4-FEET AWAY FROM SEAWALL CAP. SEE STRUCTURAL SHEET S-03.



PLAN VIEW

SCALE: 1" = 3'



PROFILE VIEW

SCALE: 1" = 3'

PUMP STATION DATA TABLE		
PUMP STATION CONFIGURATION	N+1 (1 DUTY + 1 REDUNDANT)	
PUMP P-1 PUMPING CAPACITY	8,465	GPM
PUMP P-1 TOTAL DYNAMIC HEAD	8.10	FT
PUMP P-2 PUMPING CAPACITY	8,465	GPM
PUMP P-2 TOTAL DYNAMIC HEAD	8.10	FT
PUMP MANUFACTURER	FLYGT	
PUMP MODEL	P7030	
IMPELLER DIAMETER	331	MM
BRAKE HORSEPOWER (EACH MOTOR)	38	HP
SPEED	1,165	
ELECTRICAL SERVICE	3 PHASE, 60 HZ, 460 VOLTS	
WET WELL INSIDE DIMENSION(S)	19' x 6.67'	FT
INFLUENT PIPE DIAMETER	42	IN
PUMP DISCHARGE PIPE DIAMETER	20	IN
ELEV. A - TOP SLAB ELEVATION (NAVD)	4.00	FT
ELEV. B - HIGH WATER ALARM ELEVATION (NAVD)	2.50	FT
ELEV. C - PUMP ON ELEVATION (NAVD)	1.50	FT
ELEV. D - PUMP OFF ELEVATION (NAVD)	-1.00	FT
ELEV. E - LOW LEVEL ALARM (NAVD)	-2.00	FT
ELEV. F - BOTTOM ELEVATION (NAVD)	-11.83	FT

NOTES:

1. BASIS OF DESIGN SHOWN IS FLYGT SUBMERSIBLE COLUMN PUMPS. CONTRACTOR SHALL COORDINATE PUMPS, PIPING LAYOUT , AND WET WELL DIMENSIONS WITH ACTUAL EQUIPMENT SUPPLIED . ANY REQUIRED MODIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
2. MODIFICATIONS TO LAYOUT SHALL BE APPROVED BY ENGINEER.
3. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURE DIMENSIONS.

ISSUED FOR BID

Hazen

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DRAWN BY: JLS | DATE: 03/25/25
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

PUMP STATION DETAILS

SHEET NO. PS-03 | SHT # 150
TOTAL: 233
CAD FILE: 12082-MULTI-PUMP
DRAWING FILE NO. 4-144-88

GENERAL STRUCTURAL NOTES

G–1 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

G–2 STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.

G–3 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2023 FLORIDA BUILDING CODE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES G–4 THROUGH G–7 WERE USED FOR DESIGN OF STRUCTURES CODE, 8TH EDITION. UNLESS NOTED OTHERWISE ON THE DRAWINGS.

G–4 SOIL LOADS: SEAWALLS DESIGNED FOR A LANDSIDE SOIL ELEVATION AT TOP OF SEAWALL.

G–5 HYDRAULIC LOADS: SEAWALLS DESIGNED FOR A LANDSIDE WATER ELEVATION AT TOP OF PROPOSED GRADE CONCURRENT WITH A WATERSIDE ELEVATION AT MEAN LOW WATER.

G–6 LIVE LOADS:

STRUCTURE \ LEVEL	ROOF	TOP/FIRST FLOOR	BOTTOM/GROUND FLOOR
PUMP STATION	N/A	300 PSF	N/A

– ALL STAIRWAYS, LANDINGS AND PLATFORMS ARE DESIGNED FOR A LIVE LOAD = 100 PSF UNLESS NOTED OTHERWISE.
– SEAWALLS DESIGNED FOR A LANDSIDE LIVE LOAD SURCHARGE OF 200 PSF CONCURRENT WITH SOIL AND HYDRAULIC LOADS SPECIFIED.

G–7 WIND DESIGN CRITERIA:

RISK CATEGORY = III
WIND SPEED = 180 MPH (ASCE 7–22)
WIND IMPORTANCE FACTOR (Iw) = 1.0
WIND EXPOSURE = C

PARAMETER STRUCTURE	PRESSURE COEFFICIENT GCpi
PUMP STATION	–

G–8 ALL DIMENSIONS INDICATED (*) SHALL BE VERIFIED EITHER BY FIELD MEASUREMENTS FOR EXISTING STRUCTURES OR BY SHOP DRAWINGS FOR EQUIPMENT FURNISHED. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.

G–9 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.

G–10 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.

G–11 EQUIPMENT ANCHOR BOLT SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.

G–12 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.

G–13 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.

G–14 NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.

G–15 LEAKAGE TESTING OF HYDRAULIC STRUCTURES SHALL NOT BEGIN UNTIL ALL STRUCTURAL ELEMENTS HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH. BACKFILL SHALL NOT BE PLACED AROUND ANY HYDRAULIC STRUCTURE UNTIL THE LEAKAGE TEST HAS BEEN COMPLETED UNLESS APPROVED BY THE ENGINEER.

STRUCTURAL METALS

M–1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.

M–2 STEEL MATERIAL:

A)	STRUCTURAL HSS:	ASTM A500, GRADE C (46/50 KSI) OR A1085 GRADE A (50 KSI)
B)	STRUCTURAL PIPE:	ASTM A53, GRADE B (35 KSI)
C)	PLATES BARS AND ANGLES:	ASTM A36 UNO (36 KSI)
D)	STRUCTURAL W, C, & MC SHAPES:	ASTM A992 (50 KSI)
E)	STRUCTURAL M, & S SHAPES:	ASTM A36 (36 KSI)
F)	STRUCTURAL HP	ASTM A572, GRADE 50 (50 KSI)
G)	ANCHOR RODS	ASTM F1554, GRADE 55 (55KSI)

M–3 PROVIDE MINIMUM 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS WITH SNUG TIGHTENED TYPE N CONNECTIONS FOR STRUCTURAL STEEL UNLESS NOTED OTHERWISE. HOLES FOR BOLTS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

M–4 PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS UNLESS NOTED OTHERWISE.

M–5 ALL STAINLESS STEEL FABRICATIONS SHALL BE TYPE 316 UNLESS NOTED OTHERWISE.

M–6 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION AND IN CONFORMANCE WITH THE AWS WELDING CODE.

M–7 ALUMINUM SHALL BE ALLOY 6061–T6 UNLESS NOTED OTHERWISE.

M–8 ALL BOLTS, ANCHOR BOLTS, AND CONCRETE ANCHORS CONNECTING ALUMINUM SHALL BE STAINLESS STEEL TYPE 316 FOR UNDERWATER APPLICATIONS AND TYPE 304 FOR ALL OTHER APPLICATIONS.

M–9 DETAIL, FABRICATE, AND ERECT ALUMINUM IN ACCORDANCE WITH THE LATEST EDITION OF THE ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL.

M–10 ALUMINUM SHALL BE ISOLATED FROM CONTACT WITH CONCRETE AND DISSIMILAR METALS.

M–11 FILLET WELD SIZES SHALL NOT BE LESS THAN THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH, AND NOT LESS THAN 3/16".

M–12 BOTTOM SURFACES OF BASE PLATES SHALL BE GROUTED TO ENSURE FULL BEARING CONTACT WITH CONCRETE SLAB.

STRUCTURAL METALS – CONT.

M–13 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, THERE SHALL BE A MINIMUM OF TWO FASTENINGS PER PIECE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 0.25 OF FASTENER SPACING FROM EACH END.

M–14 BOLTED CONNECTIONS FOR STRUCTURAL STEEL SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS).

M–15 STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF THE CODE, AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

STEEL SHEET PILE

S–1 STEEL SHEET PILE SHALL BE ASTM A572 GRADE 50 (50 KSI) STEEL. HIGHER GRADES ARE ACCEPTABLE BUT SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. SECTION SHALL BE Z–SHAPED, HOT–ROLLED AND WITH LARSSEN INTERLOCKS.

S–2 SEAWALL SHEET PILE SHALL HAVE MINIMUM PROPERTIES AS SHOWN IN TABLE:

SEAWALL	t (IN, MIN)	S (IN^3, MIN)	I (IN^4, MIN)	ACCEPTABLE SECTIONS
VP01	3/8	34.80	283.10	AZ19–700 AND NZ19

PROPERTIES LEGEND: t = THICKNESS OF FLANGE AND WEB; S = ELSATIC SECTION MODULUS; I = MOMENT OF INERTIA; ACCEPTABLE SECTIONS = NUCOR SKYLINE SECTIONS (OR STRONGER).

S–3 SEAWALL CAP WIDTH IS DESIGNED FOR THE SECTIONS INDICATED. LARGER OR SMALLER DEPTH SHEET PILE WILL REQUIRE MODIFICATION TO THE CAP WIDTH. MODIFICATION TO CAP WIDTH SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

S–4 SHEET PILES SHALL BE COATED PER SPECIFICATION 09900.

S–5 COATING REPAIRS SHALL BE PERFORMED PER SPECIFICATION 09900. COATING REPAIRS SHALL ONLY OCCUR AFTER THE APPROVAL OF A COATING REPAIR PROCEDURE AND AFTER APPROVAL (BY THE ENGINEER) OF THE SPECIFIC REPAIRS 24–HOURS IN ADVANCE. TYPICAL DAMAGES TO COATINGS REQUIRING REPAIR INCLUDE ABRASION, IMPACT, WELDING, CUTTING, ETC. UNSOUND COATINGS MAY BE DEEMED IRREPARABLE AND MAY REQUIRE REMOVAL/REAPPLICATION PER SPECIFICATION 09900.

S–6 SHEET PILES SHALL BE INSTALLED TO ACHIEVE TIP ELEVATIONS SHOWN ON THE DRAWINGS AND SHALL BE CUT LEVEL WITH A PLASMA CUTTER TO ±1/2 INCH FROM THE TOP ELEVATION SPECIFIED.

S–7 CONTRACTOR SHALL SUBMIT COMPLETE SHEET PILE LAYOUT ALONG WITH DETAILED STEEL MILL REPORTS AND INSTALLATION DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION. ADJUSTMENTS SHALL BE AN EXPECTED NECESSARY PART OF THE WORK IN ORDER TO CONFORM WITH FIELD CONDITIONS. PROPOSED ADJUSTMENTS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO INSTALLATION OF ADJUSTMENTS.

S–8 PARTIAL OR COMPLETE DEMOLITION AND REMOVAL OF SEGMENTS OF EXISTING SEAWALL MAY BE REQUIRED TO PLACE THE PROPOSED SEAWALL ON THE ALIGNMENT SHOWN IN THE DRAWINGS. DEMOLITION AND REMOVAL OF SEGMENTS OF SEAWALL SHALL BE AN EXPECTED NECESSARY PART OF THE WORK.

S–9 SHEET PILING FOR NEW SEAWALL IS DESIGNED WITH SOIL PARAMETERS IN ACCORDANCE WITH, "GEOTECHNICAL SERVICES REPORT", BY RADISE INTERNATIONAL, DATED 02–18–2018.

S–10 CUTTING OF SHEET PILE, INCLUDING OPENINGS, SHALL BE WITH A PLASMA CUTTER AND CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL PRIOR TO CUTTING. FLAME TORCH CUTTING IS NOT ACCEPTABLE.

CONCRETE (CAST–IN–PLACE)

C–1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).

C–2 CONCRETE SHALL BE IN CONFORMANCE WITH SPECIFICATION SECTION 03300.

C–3 CONCRETE STRENGTH CLASSES (28–DAY COMPRESSIVE STRENGTH):

A) CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES DESIGNED IN ACCORDANCE WITH ACI 350 INCLUDING ANY STRUCTURES CONTAINING WATER. CLASS A1 CONCRETE SHALL HAVE A MANDATORY ADMIXTURE THAT MEETS ASTM C–1582 TO INHIBIT CHLORIDE CORROSION OF REINFORCING STEEL BARS.

B) CLASS A2 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE IN ALL STRUCTURES OTHER THAN STRUCTURES AS DESCRIBED ABOVE, AND FOR ALL SIDEWALKS AND PAVEMENT. CLASS A2 CONCRETE SHALL HAVE A MANDATORY ADMIXTURE THAT MEETS ASTM C–1582 TO INHIBIT CHLORIDE CORROSION OF REINFORCING STEEL BARS.

C) CLASS A3 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED WHERE SPECIFICALLY CALLED FOR ON CONTRACT DRAWINGS OR AREAS WHERE SPECIFICALLY REQUESTED BY CONTRACTOR AND APPROVED BY ENGINEER. CLASS A3 CONCRETE IS IDENTICAL TO CLASS A2 CONCRETE EXCEPT THAT COARSE AGGREGATE SHALL BE SIZE #8 IN ACCORDANCE WITH ASTM C33. CLASS A3 CONCRETE SHALL HAVE A MANDATORY ADMIXTURE THAT MEETS ASTM C–1582 TO INHIBIT CHLORIDE CORROSION OF REINFORCING STEEL BARS.

D) CLASS A4 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED WHERE CONCRETE IS INDICATED TO BE PLACED UNDERWATER (TREMIE CONCRETE). CLASS A4 CONCRETE SHALL HAVE A MANDATORY ADMIXTURE THAT MEETS ASTM C–1582 TO INHIBIT CHLORIDE CORROSION OF REINFORCING STEEL BARS.

E) CLASS B CONCRETE (3,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR DUCT BANK ENCASEMENTS, CATCH BASINS, FENCE AND GUARD POST EMBEDMENT, CONCRETE FILL, AND OTHER AREAS WHERE SPECIFICALLY NOTED ON CONTRACT DRAWINGS.

C–4 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WHERE REINFORCEMENT IS TO BE WELDED IN ACCORDANCE WITH AWS D1.4, ASTM A706 GRADE 60 SHALL BE USED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

C–5 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

A)	CONCRETE DEPOSITED DIRECTLY AGAINST SOIL:	3"
B)	CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER):	1 1/2"
	CONCRETE EXPOSED TO WEATHER (#6 OR LARGER):	2"
C)	SLABS:	1 1/2"
	AT SURFACES CONTACTING FLUID:	2"
D)	BEAMS AND COLUMNS (TO MAIN REINFORCEMENT):	2"
	BEAMS AND COLUMNS (TO COLUMN TIES OR STIRRUPS):	1 1/2"
E)	WALLS 12" OR MORE:	2"
	WALLS LESS THAN 12" (#5 OR SMALLER):	1 1/2"
	WALLS LESS THAN 12" (#6 OR LARGER):	2"
F)	FOR SURFACES EXPOSED TO FLUID IN BEAMS, COLUMNS AND WALLS:	ADD 1/2" TO ABOVE VALUES
G)	FOR SURFACES EXPOSED TO SEAWATER, INCLUDING BUT NOT LIMITED TO SEAWALL CAP AND DISCHARGE STRUCTURE INTERIOR WALLS AND UNDERSIDE OF TOP SLAB:	3"

CONCRETE (CAST–IN–PLACE)

C–6 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE.

C–7 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.

C–8 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER OR A 1/2" RADIUS TOOLED CORNER.

C–9 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.

C–10 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.

C–11 DOWELS, ANCHOR BOLTS, PIPES, REBAR AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.

C–12 CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.

C–13 DRILLED ADHESIVE DOWELS (WHERE DOWELS ARE SHOWN TO BE PLACED INTO HARDENED CONCRETE):

A) THE HOLE DIAMETER SHALL BE NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE REINFORCING BAR AT THE DEFORMATIONS.
B) THE DEPTH OF EMBEDMENT SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
C) ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON–DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS.

C–14 CLEAR DISTANCE FROM ANCHOR BOLTS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.

C–15 CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE ON THE JOB SITE FOR REVIEW BY THE ENGINEER.

C–16 ALL CONCRETE SHALL BE PLACED WITH NO STANDING WATER WITHIN FORMWORK. DURING PLACEMENT, THE FORMWORK SHALL BE SEALED FROM WATER INTRUSION AND ALL WATER SHALL BE REMOVED WITH PUMP. REBAR AND FORMS SHALL BE RINSED THOROUGHLY WITH FRESH WATER PRIOR TO CONCRETE PLACEMENT. TREMIE CONCRETE SHALL CONTAIN AN ADMIXTURE THAT MEETS ASTM C–1582 TO INHIBIT CHLORIDE CORROSION OF REINFORCING STEEL BARS.

DEMOLITION

D–1 DEMOLITION SHALL BE IN CONFORMANCE WITH SPECIFICATION SECTION 02220.

D–2 CONCRETE DEMOLITION WITHIN STRUCTURES BEING MODIFIED SHALL BE SELECTIVE DEMOLITION BY CORE DRILLING OR SAWCUTTING AND CAREFUL REMOVAL OF CONCRETE SHOWN TO BE REMOVED. NO OVER CUTTING OF AREAS TO BE DEMOLISHED SHALL BE PERMITTED. CONTRACTOR SHALL CORE DRILL CORNERS OF OPENING PRIOR TO SAWCUTTING. EXPLOSIVES AND VIBRATORY HAMMERS SHALL NOT BE USED FOR DEMOLITION WORK.

D–3 UNLESS ANCHORING DEVICES AND/OR REINFORCEMENT IS NOTED TO REMAIN FOLLOWING DEMOLITION, REMOVE AND/OR BURN BACK ANCHORS AND REINFORCEMENT STEEL 1/2" MIN BELOW SURFACE AND VOIDS CREATED SHALL BE FILLED WITH EPOXY RESIN BINDER SUCH AS SIKAGARD 62, DURALKOTE 240 OR EQUAL.

D–4 EMBEDDED CONDUIT ENCOUNTERED DURING DEMOLITION WORK LIMITS SHALL BE PERMANENTLY REROUTED AS NECESSARY. CONTRACTOR SHALL SUBMIT PROPOSED MEANS OF REROUTING ANY INTERFERING CONDUIT.

D–5 PRIOR TO DEMOLITION OF SMALL OPENINGS (LESS THAN 6 INCHES IN SIZE) FOR PENETRATIONS, ETC., CONTRACTOR SHALL USE NON–DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT. OPENINGS SHALL BE LOCATED TO AVOID CUTTING THROUGH EXISTING REINFORCEMENT, IF POSSIBLE. EXISTING REINFORCEMENT SHALL NOT BE CUT WITHOUT APPROVAL OF ENGINEER.

D–6 A DETAILED CONSTRUCTION AND DEMOLITION PLAN SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED BY THE ENGINEER AND OWNER PRIOR TO BEGINNING CONSTRUCTION.

SPECIAL INSPECTIONS

SI–1 SPECIAL PERIODIC AND CONTINUOUS INSPECTIONS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND THE FLORIDA BUILDING CODE.

FOUNDATIONS

F–1 CONCRETE (CAST–IN–PLACE) NOTES APPLY TO FOUNDATIONS.

F–2 ALLOWABLE SOIL BEARING PRESSURE

PARAMETER \ STRUCTURE	ALLOWABLE SOIL BEARING PRESSURE
PUMP STATION	1500 PSF

F–3 SOFT OR LOOSE SOILS MAY BE ENCOUNTERED DURING EARTHWORK OPERATIONS, REQUIRING ADDITIONAL UNDERCUTTING AND FILL. REFER TO GEOTECHNICAL REPORT FOR DETAILED SOIL STRATIFICATION.

F–4 STRUCTURES ARE DESIGNED FOR THE 100–YEAR FLOOD ELEVATION OF XXX.XX.

F–5 GROUNDWATER CONTROL MAY BE REQUIRED DURING CONSTRUCTION. REFER TO GEOTECHNICAL REPORT FOR BORINGS.

PRECAST CONCRETE

PC–1 PRECAST VAULTS AND MANHOLES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. STRUCTURAL DRAWINGS SHALL INDICATE DESIGN IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SAMUEL J. SMITH
REG. NO.: 73430
DATE: 02/03/25

TEL: 954–987–0066
FAX: 954–987–2949

DRAWN BY: TB | DATE: 02/03/25
DESIGNED BY: CJA | SCALE: NONE
CHECKED BY: JPS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

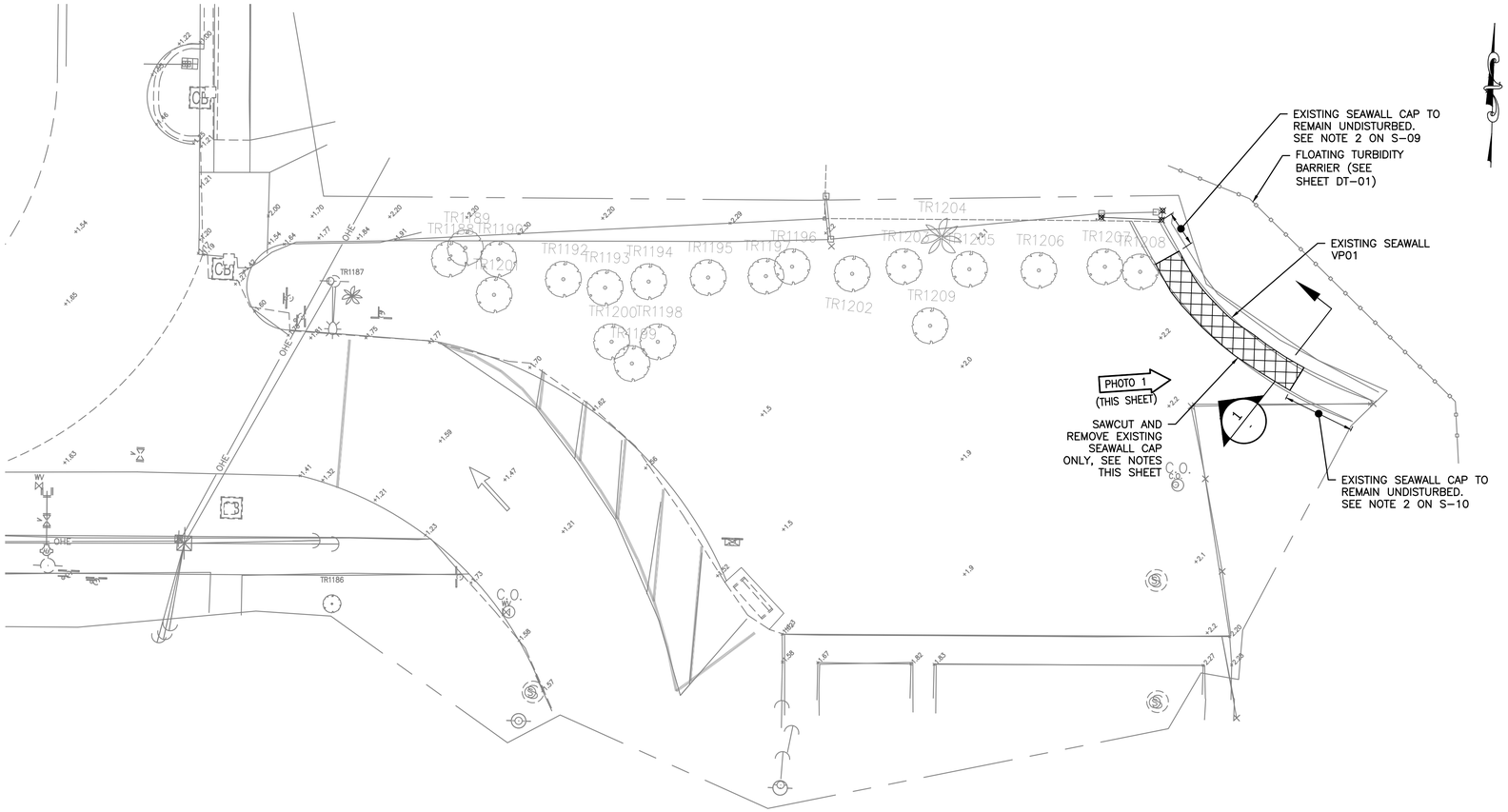
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

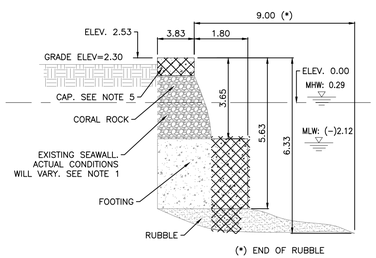
PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
STRUCTURAL NOTES

SHEET NO. S-01 | SHT # 151
TOTAL: 233
CAD FILE: 12082–S01
DRAWING FILE NO. 4–144–88

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021



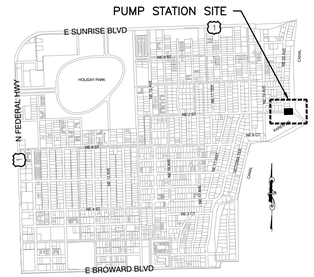
DEMOLITION PLAN - SEAWALL VP01
1" = 10'



EXISTING AND DEMOLITION SECTION

SECTION 1 / NTS -

PHOTO 1 / NTS -



KEY MAP

NOTES:

1. THIS DRAWING IS ONLY TO ASSIST IN SHOWING THE SCOPE OF DEMOLITION WORK AND IT IS NOT INTENDED TO INDICATE ALL DEMOLITION WORK. CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS AS REQUIRED TO COMPLETE THE WORK AT NO EXTRA COST TO THE CITY.
2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY STRUCTURAL BRACING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION.
3. SECTIONS DO NOT SHOW EXISTING UTILITIES AND/OR LANDSCAPE.
4. CONTRACTOR SHALL IDENTIFY AND VERIFY LOCATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, ELECTRIC, TELECOMMUNICATION, AND GAS LINES WHICH ARE TO REMAIN AND TO BE PROTECTED FROM DAMAGE DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROTECT EXISTING LANDSCAPE, ELECTRICAL PANELS, WATER METERS, UTILITY POLES, SIGNS, ETC. DURING DEMOLITION.
5. SAWCUT AND REMOVAL OF THE EXISTING CAP MAY COMPROMIS THE INTEGRITY OF THE EXISTING WALL. REFER TO S-07 AND WALL TERMINATION DETAILS ON DRAWINGS SHEETS S-09 THRC S-10 FOR CAP DEMOLITION LIMITS.
6. CONTRACTOR SHALL INSTALL TURBIDITY BARRIERS IN ALL PERMANENT BODIES OF WATER THROUGHOUT ALL PHASES OF CONSTRUCTION REGARDLESS OF WATER DEPTH TO MEET REGULATORY STANDARDS.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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LEGEND
- PHOTO X — PHOTO'S DIRECTION
- DEMOLITION
- EXISTING CORAL ROCK'S BASE
- SEAGRASS

0 10' 20'

ISSUED FOR BID

ENGINEER: SAMUEL J. SMITH
REG. No.: 73430
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB
DESIGNED BY: CJA
CHECKED BY: JPS
DATE: 02/03/25
SCALE: AS NOTED
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

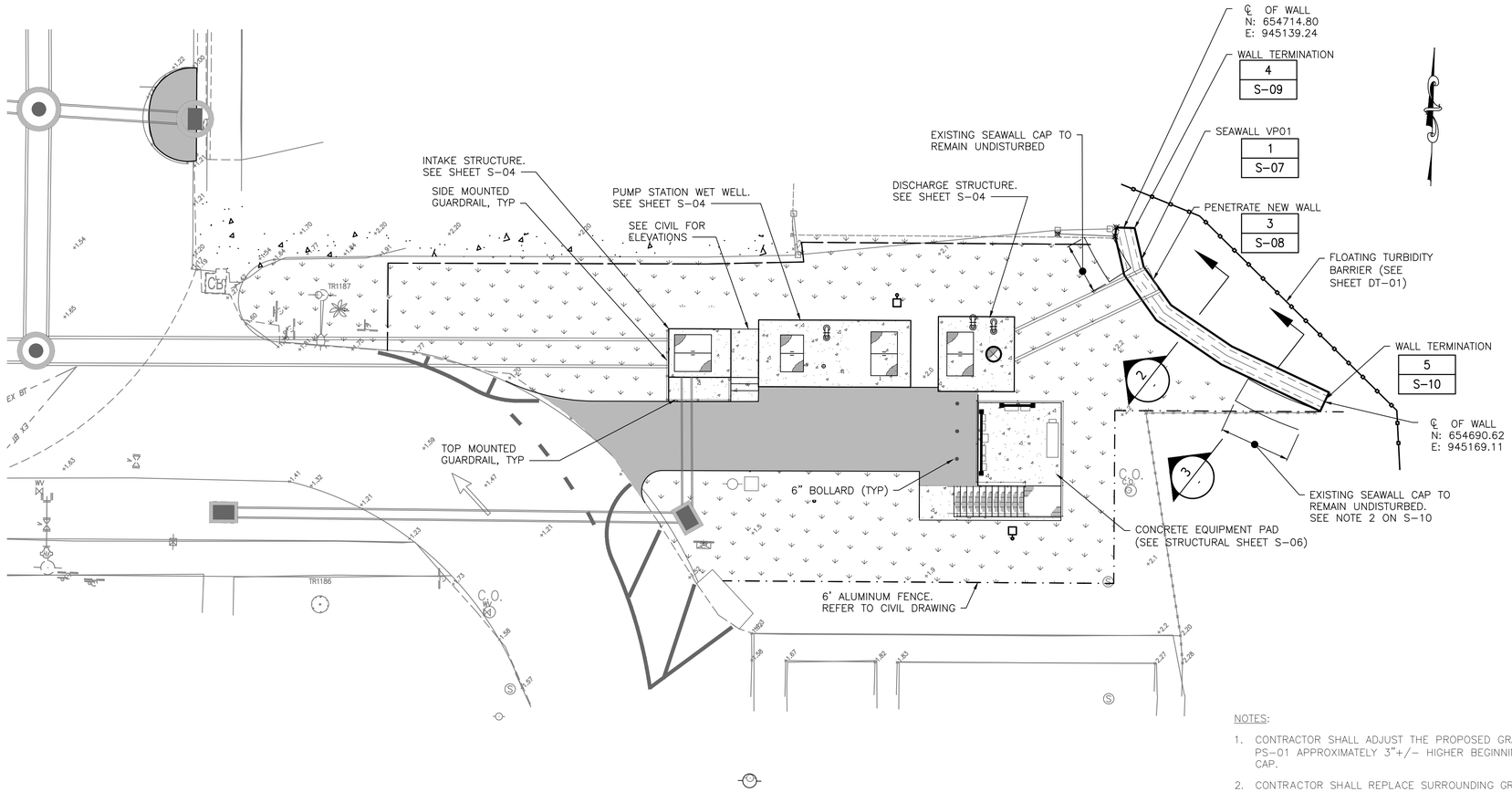
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
EXISTING SITE, DEMOLITION AND SECTION

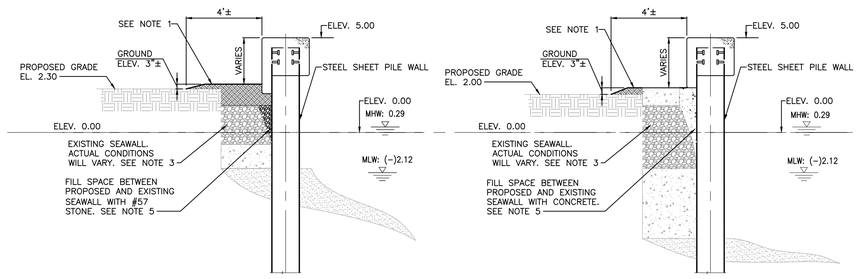
SHEET NO.	SHT #
S-02	152

TOTAL: 233
CAD FILE: 12082-S02
DRAWING FILE NO. 4-144-88

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021



PROPOSED PLAN - SEAWALL VP01
1" = 10'



PROPOSED SEAWALL
SECTION 2
NTS

PROPOSED SEAWALL
SECTION 3
NTS

NOTES:

1. CONTRACTOR SHALL ADJUST THE PROPOSED GRADE ELEVATIONS ON CIVIL SHEET PS-01 APPROXIMATELY 3"+/- HIGHER BEGINNING 4'+/- AWAY FROM SEAWALL CAP.
2. CONTRACTOR SHALL REPLACE SURROUNDING GROUND AFFECTED INCLUDING BUT NOT LIMITED TO PAVERS, SIDEWALK, SOD, LANDSCAPE AND BRING IT TO EXISTING OR BETTER CONDITIONS.
3. SECTIONS DO NOT SHOW EXISTING UTILITIES AND/OR LANDSCAPE. SECTIONS ARE INCLUDED TO ASSIST IN SHOWING THE SCOPE OF PROPOSED WORK AND ARE NOT INTENDED TO INDICATE ALL WORK REQUIRED FOR SITE GRADING AND SEAWALL INSTALLATION. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMMENCE WORK AND INCLUDE ALL WORK REQUIRED IN THE BID PRICE.
4. CONTRACTOR SHALL LOCATE PROPOSED SEAWALL AT A MAXIMUM OF 18 INCHES WET FACE TO WET FACE FROM EXISTING SEAWALL THROUGHOUT THE ENTIRE LENGTH OF THE SEAWALL. WET FACE OF EXISTING SEAWALL IS MEASURED FROM THE BOTTOM OF THE DOWNWARD SLOPING WALL AT THE POINT WHERE THE RUBBLE WALL MEETS THE FOOTING. NO EXCEPTIONS SHALL BE MADE TO THIS MAXIMUM DISTANCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE SEAWALL TO MEET THE PERMIT REQUIREMENTS. THE WET FACE TO WET FACE RANGE MEASURED AT MHW LEVEL FOR THE PROPOSED SEAWALLS IS APPROXIMATELY 18 TO 48 INCHES.
5. CONTRACTOR SHALL REFER TO THE STRUCTURAL DRAWING SHEETS S-07 THRU S-10 FOR SEAWALL STRUCTURAL REQUIREMENTS.
6. SAWCUT AND REMOVAL OF THE EXISTING CAP MAY COMPROMISE THE INTEGRITY OF THE EXISTING WALL. REFER TO S-07 AND TO WALL TERMINATION DETAILS ON DRAWINGS SHEETS S-09 THROUGH S-10 FOR CAP DEMOLITION LIMITS.
7. CONTRACTOR SHALL REFER TO CIVIL DRAWING SHEETS FOR PUMP STATION AND PIPE OUTFALL LOCATIONS.
8. CONTRACTOR SHALL INSTALL TURBIDITY BARRIERS IN ALL PERMANENT BODIES OF WATER THROUGHOUT ALL PHASES OF CONSTRUCTION REGARDLESS OF WATER DEPTH TO MEET REGULATORY STANDARDS.
9. CONTRACTOR SHALL INSTALL THE SEAWALL STRAIGHT WITH MINIMAL CHANGES IN ALIGNMENT AND SHALL REMOVE PARTS OF EXISTING SEAWALL IF REQUIRED TO MEET THE MINIMAL CHANGES IN ALIGNMENT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO SHOW PROPOSED LAYOUT OF THE WALL FOR ENGINEER'S APPROVAL. WALL ALIGNMENT SHALL ALSO COMPLY WITH THE 18 INCHES MAXIMUM DISTANCE FROM "WET FACE TO WET FACE", ALONG ITS ENTIRE LENGTH.
10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND JOB SAFETY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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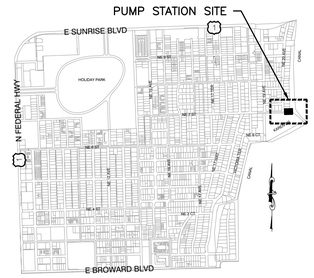
LEGEND
EXISTING
PROPOSED
PROPOSED SEAWALL

0 10' 20'



KEY MAP

ISSUED FOR BID

ENGINEER:
SAMUEL J. SMITH
REG. No. 73410
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB
DATE: 02/03/25
DESIGNED BY: CJA
SCALE: AS NOTED
CHECKED BY: JPS
FIELD BOOK: XXXX

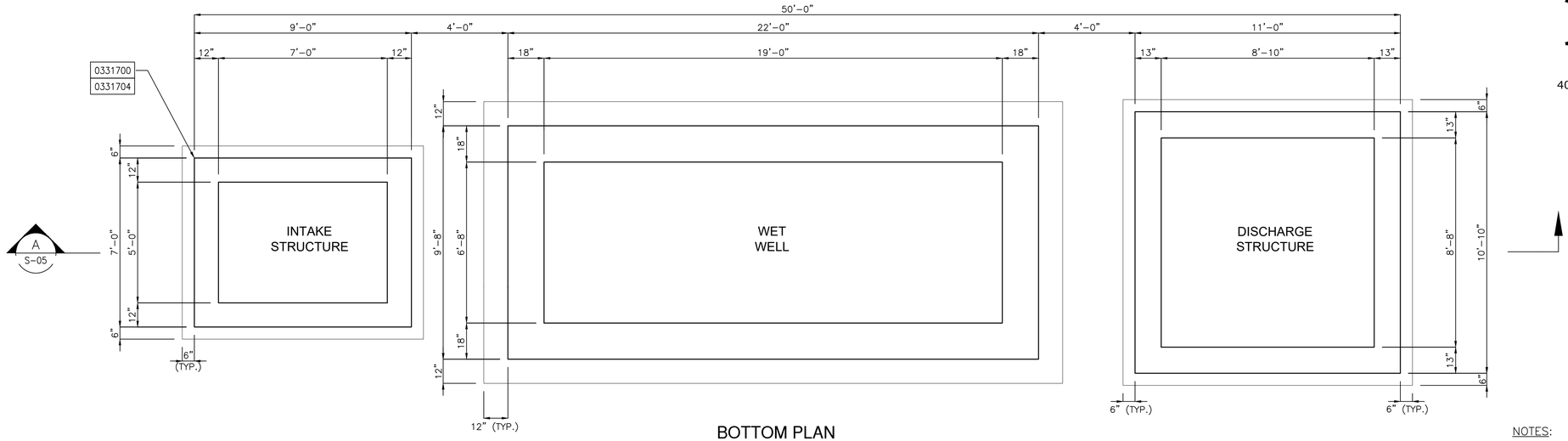
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

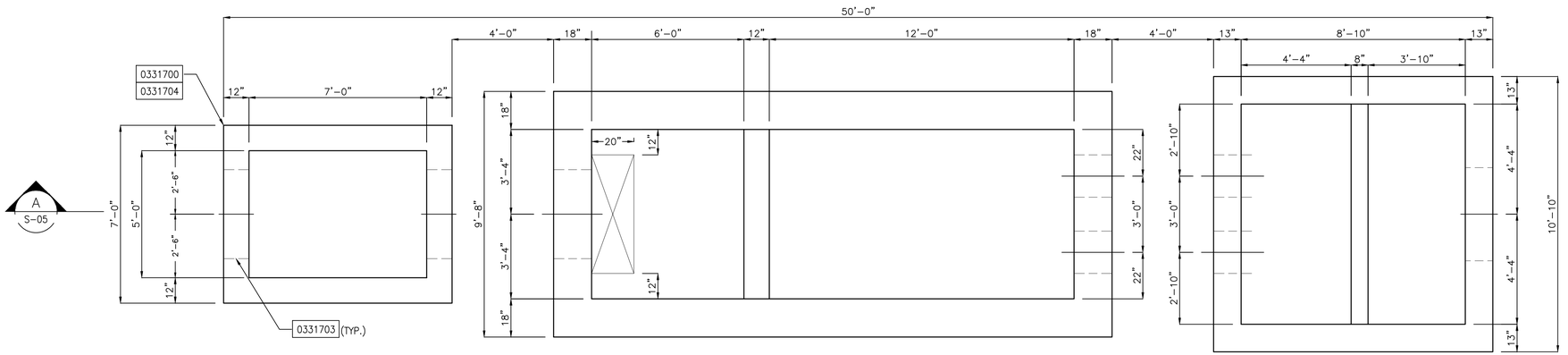
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
PUMP STATION AND SEAWALL
PLAN AND SECTION

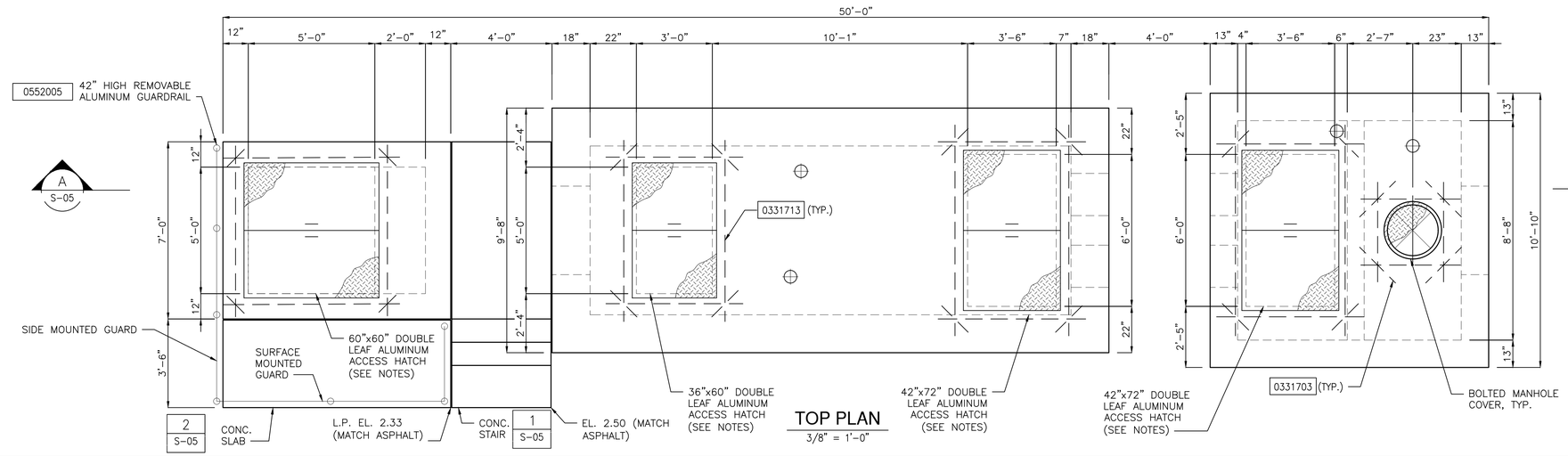
SHEET NO.	SHT #
S-03	153
TOTAL:	233
CAD FILE: 12082-S03	
DRAWING FILE NO. 4-144-88	



BOTTOM PLAN
3/8" = 1'-0"



INTERMEDIATE PLAN
3/8" = 1'-0"



TOP PLAN
3/8" = 1'-0"

NOTES:

1. ACCESS HATCHES SHALL BE RATED FOR H-20 TRAFFIC LOADING. REFER TO SPECIFICATION 05531 FOR ALL OTHER REQUIREMENTS.

3/8"=1'-0"

12" 0 1 2 4'

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER:
SAMUEL J. SMITH
REG. No. 73430
DATE: 02/03/25

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE: 02/03/25
TB	
DESIGNED BY: CJA	SCALE: 3/8"=1'-0"
CHECKED BY: JPS	FIELD BOOK: XXXX

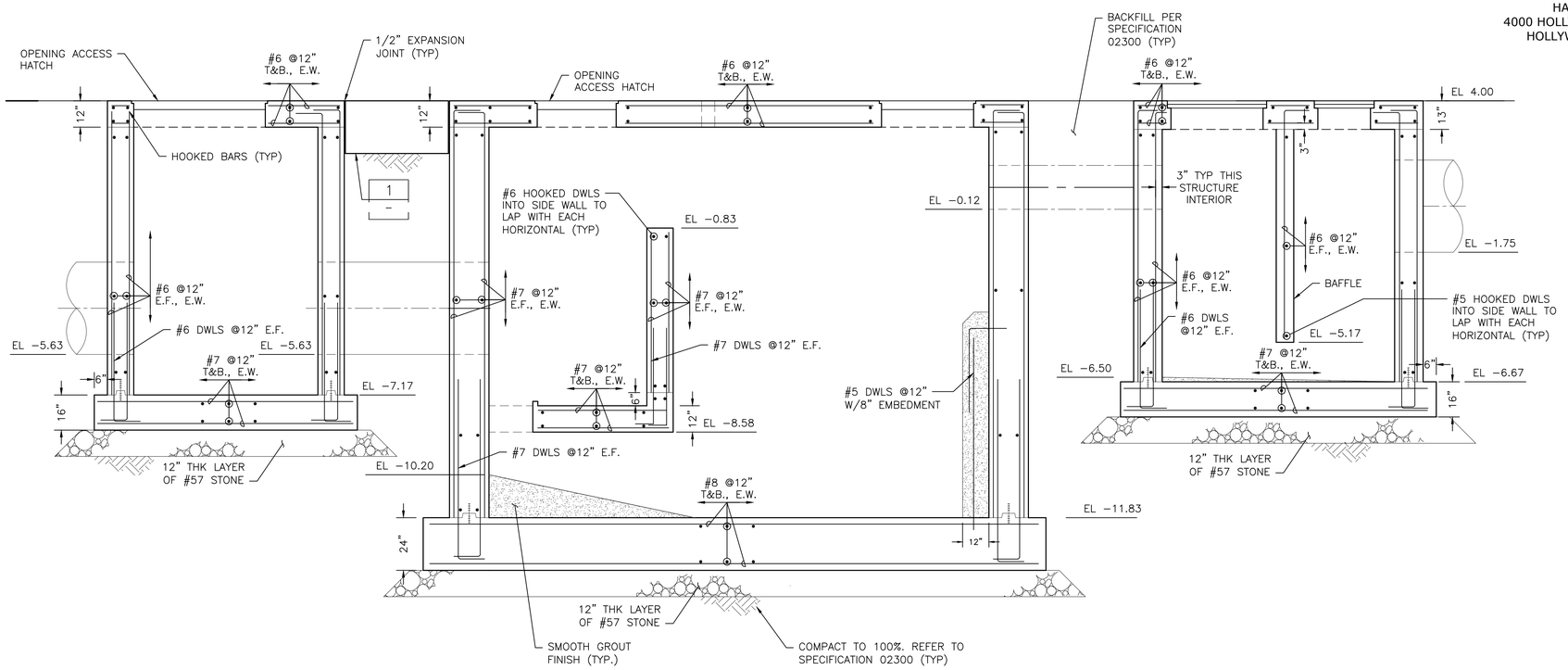
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

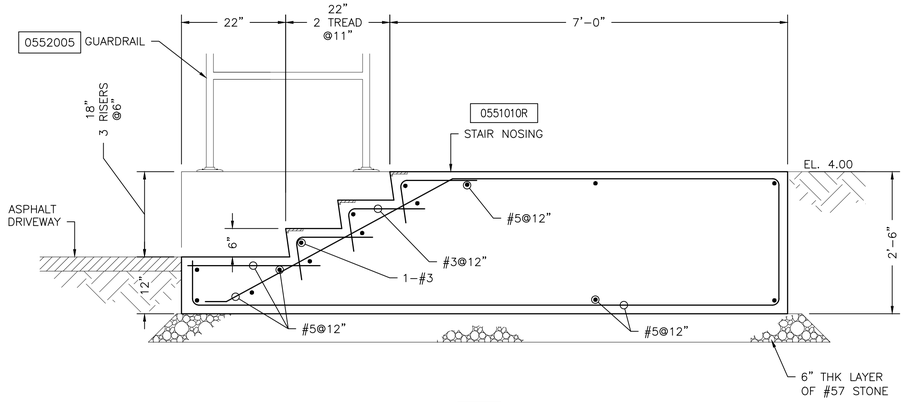
PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
PUMP STATION PLANS

SHEET NO.	SHT #
S-04	154
TOTAL:	233
CAD FILE: 12082-S04	
DRAWING FILE NO. 4-144-88	

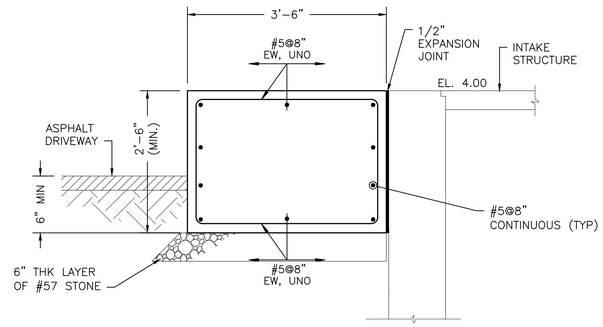
Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021



SECTION A
3/8"=1'-0" S-04



DETAIL 1
3/4"=1'-0" S-04



DETAIL 2
3/4"=1'-0" S-04

3/8"=1'-0" 12" 0 1 2 4'
3/4"=1'-0" 6" 0 1 2'

ISSUED FOR BID

ENGINEER: SAMUEL J. SMITH
REG. No. 73410
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB
DATE: 02/03/25
DESIGNED BY: CJA
SCALE: AS NOTED
CHECKED BY: JPS
FIELD BOOK: XXXX

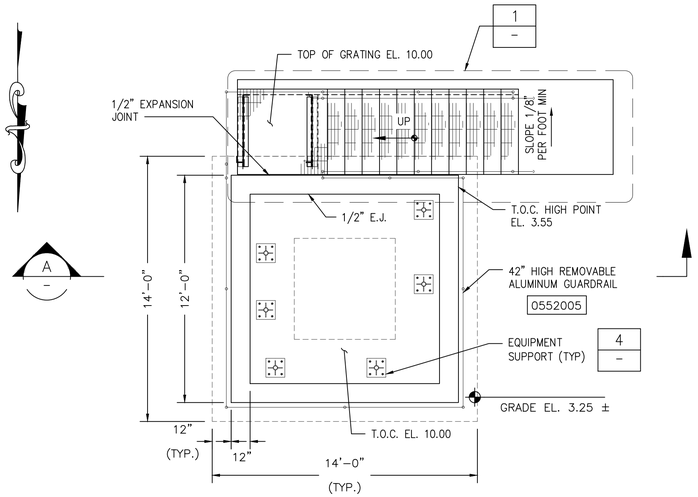
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

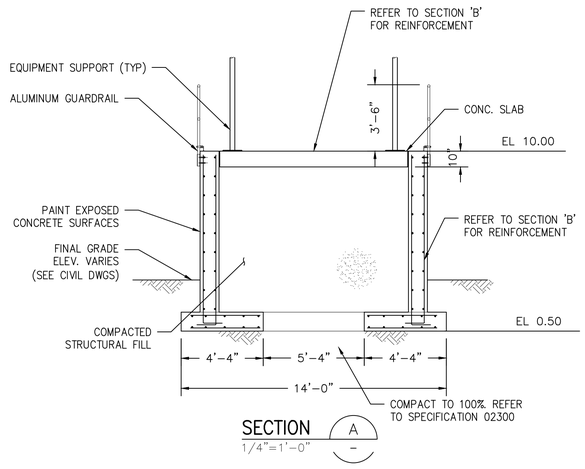
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
PUMP STATION
SECTIONS

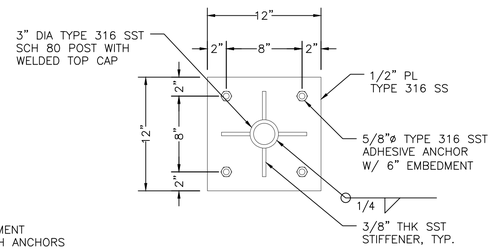
SHEET NO. S-05
SHT # 155
TOTAL: 233
CAD FILE: 12082-S05
DRAWING FILE NO. 4-144-88



PLAN
1/4"=1'-0"



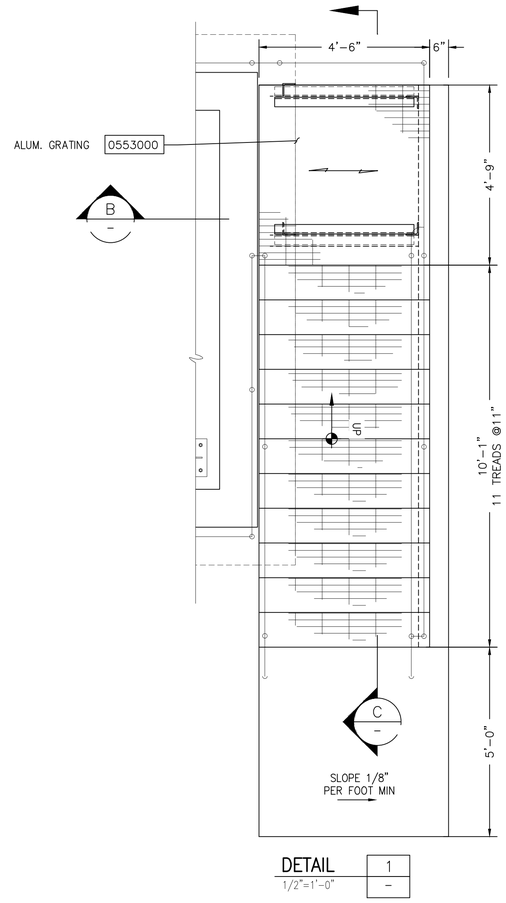
SECTION A
1/4"=1'-0"



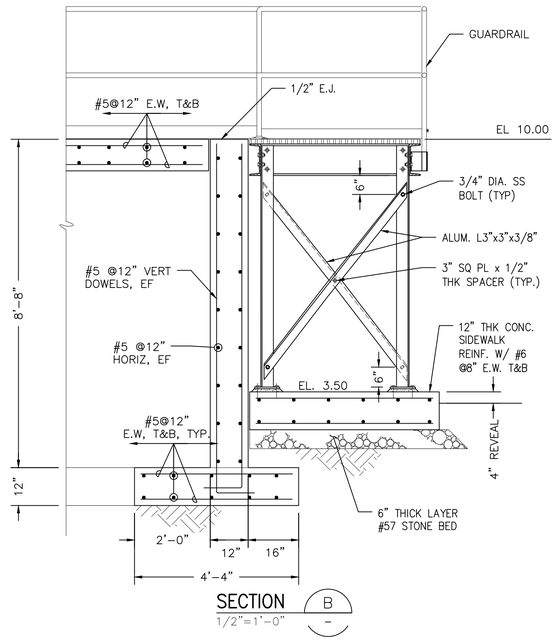
DETAIL NOTE:

1. PLACE EQUIPMENT SUPPORT WITH ANCHORS 4" FROM CONCRETE EDGE.
2. REFER TO SPECIFICATION 16190 – SUPPORTING DEVICES AND OTHER ELECTRICAL REQUIREMENTS FOR COMPLETE EQUIPMENT SUPPORT DETAIL.

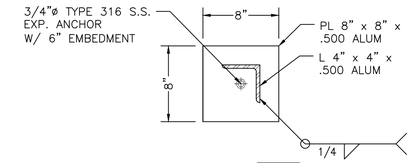
DETAIL 4
1/2"=1'-0"



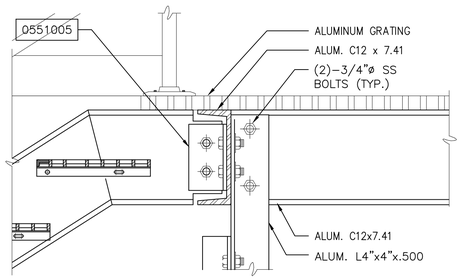
DETAIL 1
1/2"=1'-0"



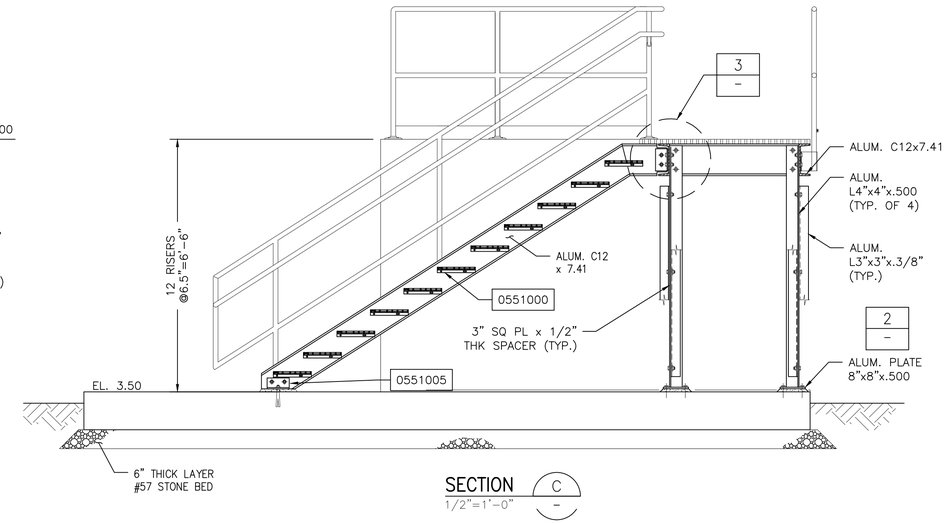
SECTION B
1/2"=1'-0"



DETAIL 2
1 1/2"=1'-0"



DETAIL 3
1 1/2"=1'-0"



SECTION C
1/2"=1'-0"

1 1/2"=1'-0" 4" 0 1'
1/2"=1'-0" 12" 0 1 3'
1/4"=1'-0" 1 0 1 2 3 7'

Hazen
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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SAMUEL J. SMITH
REG. No.: 74340
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DRAWN BY: TB | DATE: 02/03/25
DESIGNED BY: CJA | SCALE: AS NOTED
CHECKED BY: JPS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

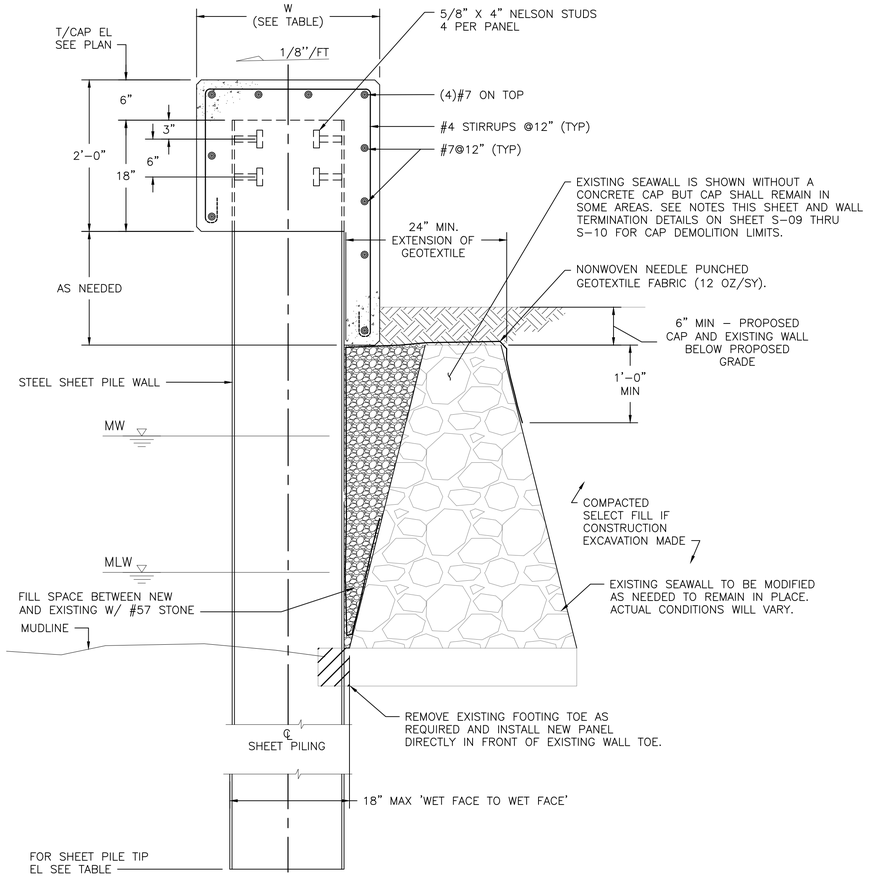
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
CONTROL PANEL PAD
PLAN AND SECTION

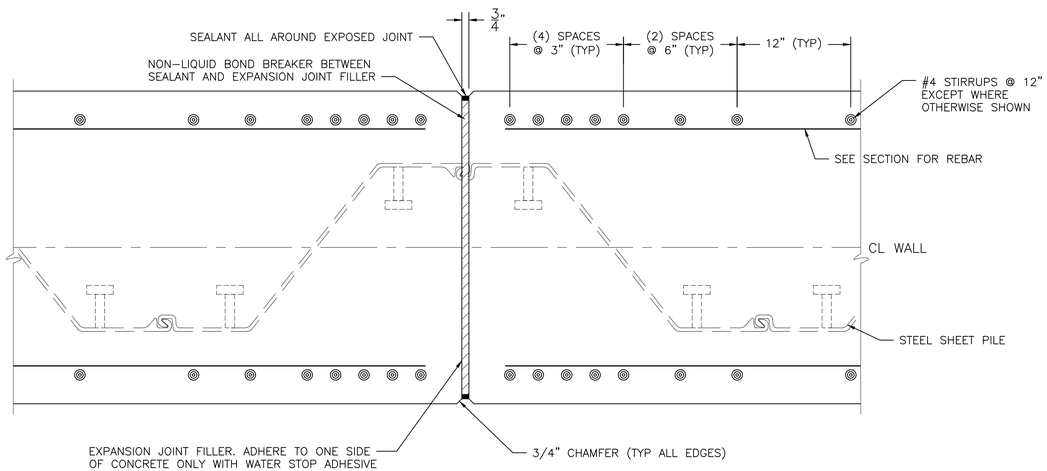
ISSUED FOR BID

SHEET NO.	SHT #
S-06	156
TOTAL:	233
CAD FILE: 12082-S06	
DRAWING FILE NO. 4-144-88	

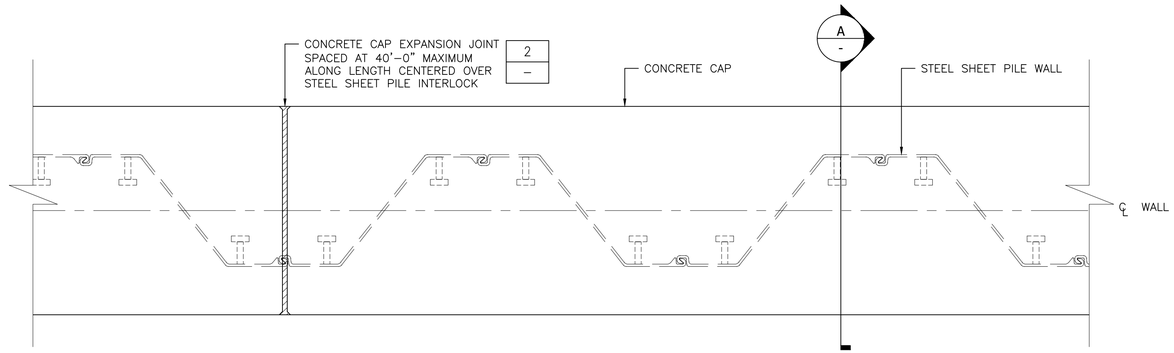


STEEL CAINTILEVER WALL SECTION

SECTION A/– 1"= 1'-0"



2 CONCRETE CAP EXPANSION JOINT
3"= 1'-0"



1 TYPICAL STEEL CANTILEVER WALL PLAN
1"= 1'-0"

SEAWALL INFORMATION			
SEAWALL	SECTION	PILE TIP EL.	W
VP01	AZ19-700 OR NZ19	-35.5	2'-8"

TABLE NOTE:
THE CAP WIDTH IS SIZED PER THE SHEET PILE SECTION INDICATED. IF SHEET PILE SECTION(S) WITH STRONGER PROPERTIES ARE APPROVED BY THE ENGINEER, THE CAP WILL NEED TO BE RE-SIZED TO FIT THE NEW SECTION.

NOTES:

1. DEMOLITION OF EXISTING SEAWALL SHALL ONLY OCCUR AS SPECIFIED AND AS NEEDED IN ORDER TO INSTALL PROPOSED SEAWALL AND GRADE. IF PARTIAL COLLAPSE OF EXISTING SEAWALL OCCURS DURING CONSTRUCTION, IT SHALL EITHER BE RETURNED TO PREVIOUS POSITION OR REMOVED AND REPLACED WITH #57 STONE UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL PRIVATE PROPERTY FROM DISTURBANCE AND DAMAGE.
2. SEE GENERAL STRUCTURAL NOTE C-16 ON SHEET S-01.
3. CONTRACTOR SHALL ASSUME POSSIBLE PRESENCE OF LIMESTONE AT SITE AND THAT NO ADDITIONAL COSTS SHALL BE INCURRED BY THE CITY RESULTING IN SHEET PILE INSTALLATION IN LIMESTONE.

1"=1'-0" 12" 6 0 1'

3"=1'-0" 2" 0 2 4 6"

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SHAVEL J. SMITH
REG. No.: 73410
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB
DATE: 02/03/25
DESIGNED BY: CJA
SCALE: AS NOTED
CHECKED BY: JPS
FIELD BOOK: XXXX

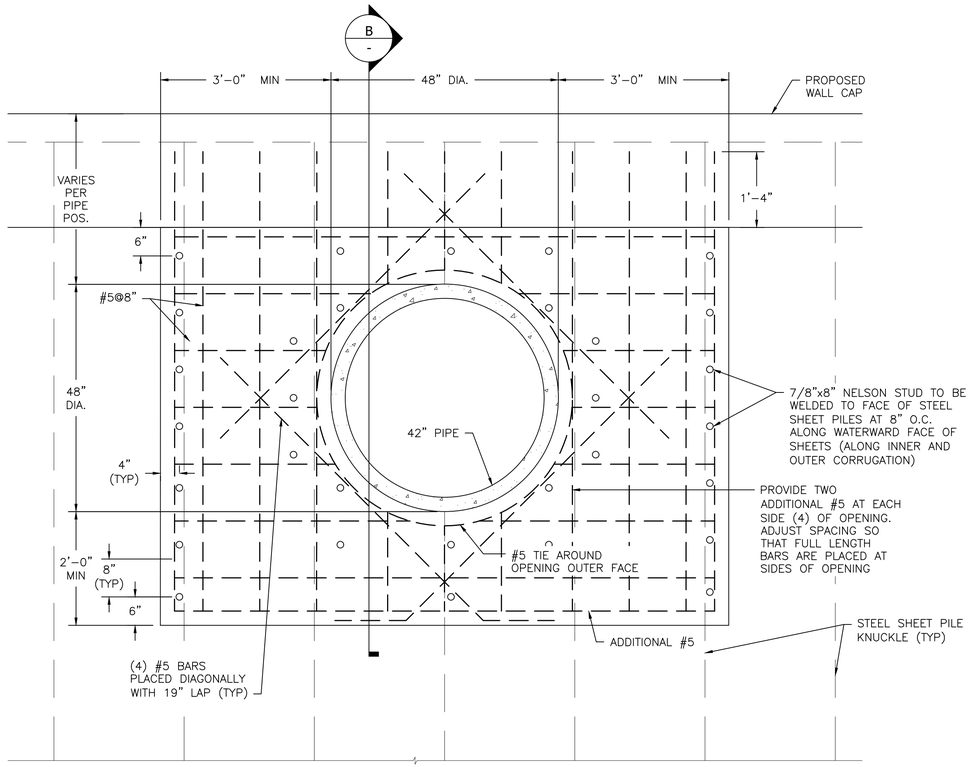
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

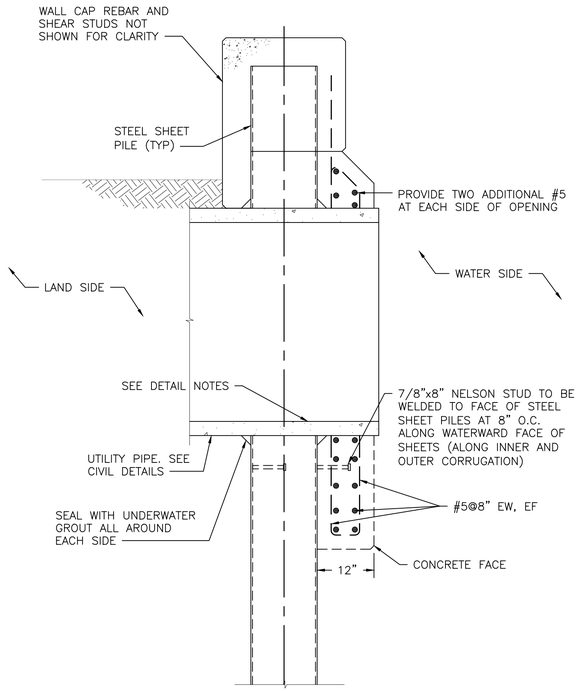
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SEAWALL STRUCTURAL DETAILS - SHEET 1

SHEET NO. S-07
SHT # 157
TOTAL: 233
CAD FILE: 12082-S07
DRAWING FILE NO. 4-144-88



ELEVATION
SCALE: 3/4"= 1'-0"



SECTION B
3/4"=1'-0"

3 PIPE PENETRATION
3/4"= 1'-0"

DETAIL NOTES:

1. PROVIDE MANATEE GRATE FOR OPENINGS 8-INCHES AND LARGER. MANATEE GRATE SHALL BE BASED ON CIVIL DETAIL STRM-013 AND SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW BY THE ENGINEER.
2. FORM TIES SHALL BE 316 STAINLESS STEEL AND OF A DESIGN SUCH THAT WHEN FORMS ARE REMOVED NO METAL SHALL BE WITHIN TWO INCHES OF THE FINISHED SURFACE. HOLES REMAINING FROM WITHDRAWN TIE RODS OR BOLTS SHALL BE FILLED SOLID WITH BASF MASTEREMACO N 425, OR APPROVED EQUAL, NON-SAG CONCRETE REPAIR MORTAR.
3. SEE GENERAL STRUCTURAL NOTE C-16 ON SHEET S-01.
4. SEAL AROUND UTILITY PIPE SHALL BE MADE WITH UNDERWATER GROUT BY FIVE STAR, SIKA, DAYTON SUPERIOR, OR EQUAL. PREPARE GROUT SYSTEM IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES.
5. SEE GENERAL STRUCTURAL NOTES S-10 ON SHEET S-01 OPENINGS IN SHEET PILES.
6. MAINTAIN 3" CLEAR COVER AT SIDES AND BETWEEN PIPE.
7. REBAR SHALL NOT BE IN CONTACT WITH NELSON STUDS, STEEL SHEET PILE, OR ANY OTHER METAL PARTS.

3/4"=1'-0" 6" 0 1 2'

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER:
SHAVEL J. SMITH
REG. No. 73410
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB | DATE: 02/03/25
DESIGNED BY: CJA | SCALE: 3/4"=1'-0"
CHECKED BY: JPS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

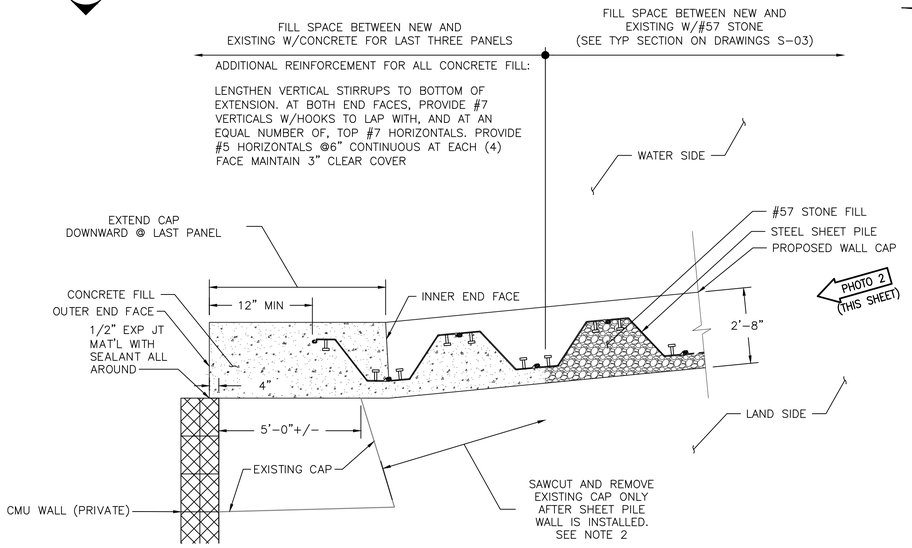
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SEAWALL STRUCTURAL
DETAILS - SHEET 2

SHEET NO.	SHT #
S-08	158
TOTAL:	233
CAD FILE: 12082-S08	
DRAWING FILE NO. 4-144-88	

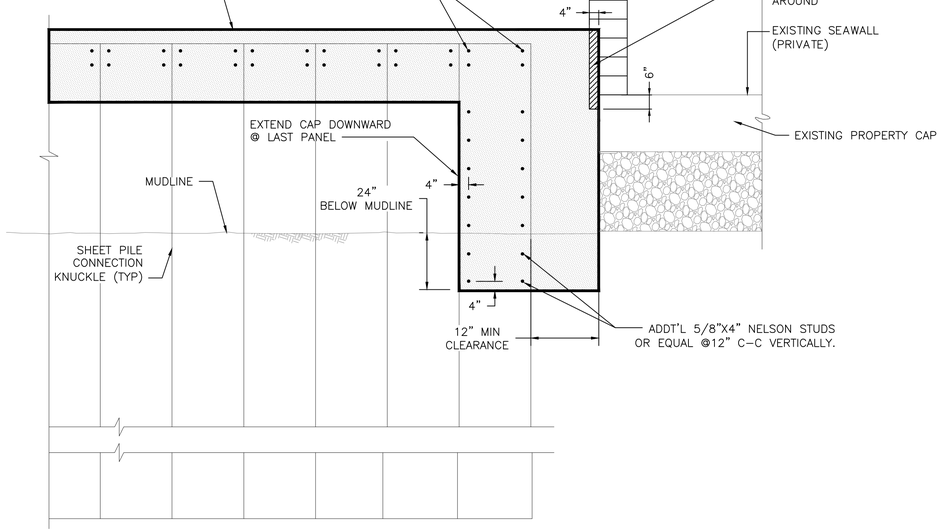
C
-



4 WALL VP01 NORTH END TERMINATION

3/8"= 1'-0"

CAP REBAR AT END SHALL BE SIMILAR TO TYPICAL SECTION, EXCEPT VERTICAL STIRRUPS SHALL BE LENGTHENED TO BOTTOM OF EXTENSION W/3" CLEAR COVER. AT BOTH END FACES, PROVIDE #7 VERTICALS W/HOOKS TO LAP WITH, AND AT AN EQUAL NUMBER OF, TOP #7 HORIZONTALS. PROVIDE #5 HORIZONTALS @6" CONTINUOUS AT EACH (4) FACE



SECTION C-C

3/8"= 1'-0"

PHOTO 2 – NORTH END OF SEAWALL VP01, LOOKING NORTHWEST

NTS

NOTES:

1. FIELD VERIFY END TERMINATION COORDINATES AND ADJUST IF NECESSARY TO MATCH CITY PROPERTY BOUNDARY. TURN OUT END SINGLE SHEET PILE SO THAT IT TERMINATES PARALLEL WITH ADJACENT PRIVATE SEAWALL.
2. EXISTING CAP SHALL NOT BE DAMAGED NOR DISTURBED WHERE THE LAST THREE PANELS ARE FILLED WITH CONCRETE. UNLESS NOTED OTHERWISE, SAWCUT CAP THREE PANELS FROM THE END. BURN BACK EXPOSED REBAR AND SEAL PER NOTE D-03 ON S-01.
3. SEE GENERAL STRUCTURAL NOTE C-16 ON SHEET S-01.
4. EXISTING PRIVATE SEAWALL, PROPERTY, FENCE, AND LANDSCAPE TO REMAIN UNDISTURBED AND UNDAMAGED.

3/8"=1'-0" 12" 0 1 2 4'

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SHAVEL J. SMITH
REG. No: 73430
DATE:

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DRAWN BY: TB | DESIGNED BY: CJA | CHECKED BY: JPS | DATE: 02/03/25 | SCALE: AS NOTED | FIELD BOOK: XXXX

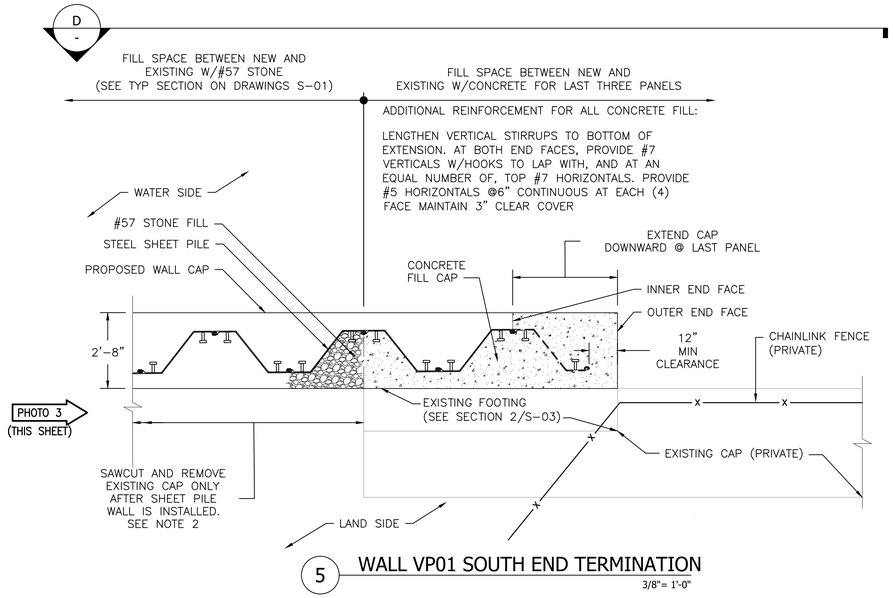
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

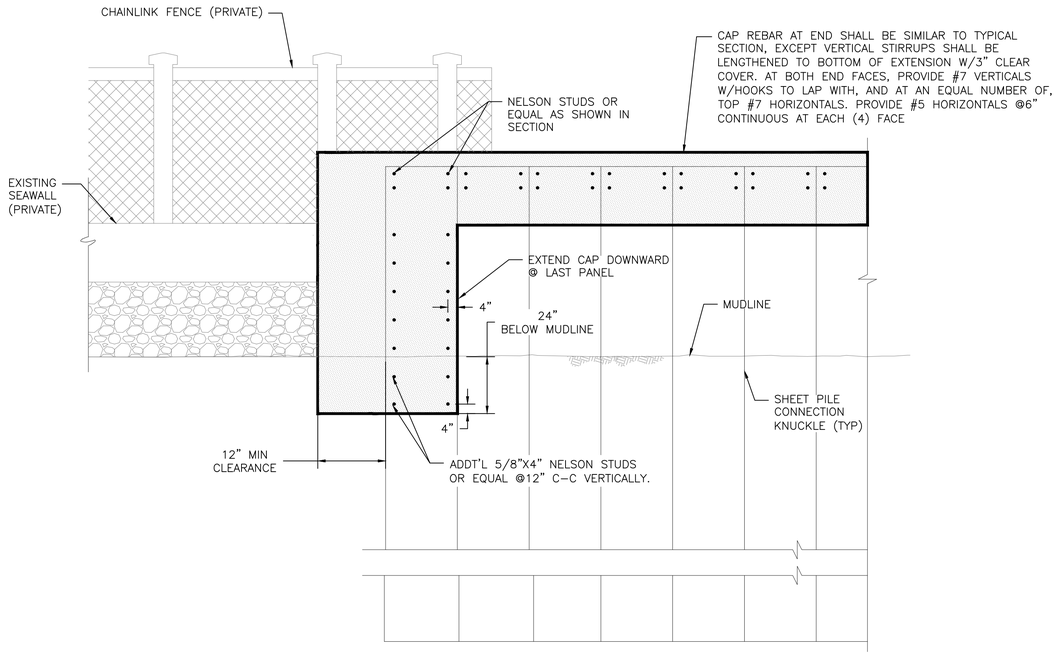
PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SEAWALL STRUCTURAL
DETAILS - SHEET 3

SHEET NO.	SHT #
S-09	159
TOTAL:	233
CAD FILE: 12082-S09	
DRAWING FILE NO. 4-144-88	



5 WALL VP01 SOUTH END TERMINATION

3/8"= 1'-0"



SECTION D –

3/8"= 1'-0"

PHOTO 3 – SOUTH END OF SEAWALL VP01, LOOKING SOUTH

NTS

NOTES:

1. FIELD VERIFY END TERMINATION COORDINATES AND ADJUST IF NECESSARY TO MATCH CITY PROPERTY BOUNDARY.
2. EXISTING CAP SHALL NOT BE DAMAGED NOR DISTURBED WHERE THE LAST THREE PANELS ARE FILLED WITH CONCRETE. UNLESS NOTED OTHERWISE, SAWCUT CAP THREE PANELS FROM THE END. BURN BACK EXPOSED REBAR AND SEAL PER NOTE D-03 ON S-01.
3. SEE GENERAL STRUCTURAL NOTE C-16 ON SHEET S-01.
4. EXISTING PRIVATE SEAWALL, PROPERTY, FENCE, AND LANDSCAPE TO REMAIN UNDISTURBED AND UNDAMAGED.

3/8"=1'-0"

12" 0 1 2 4'

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SHAVEL J. SMITH
REG. No.: 73430
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FAX: 954-987-2949

DRAWN BY: TB
DESIGNED BY: CJA
DATE: 02/03/25
SCALE: AS NOTED
CHECKED BY: JPS
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

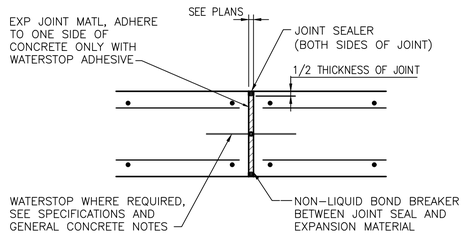
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SEAWALL STRUCTURAL
DETAILS - SHEET 4

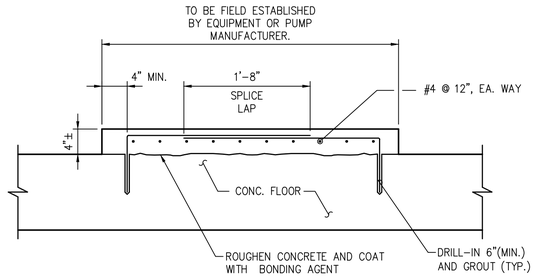
SHEET NO. S-10
SHT # 160
TOTAL: 233
CAD FILE: 12082-S10
DRAWING FILE NO. 4-144-88

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021



TYPICAL EXPANSION JOINT

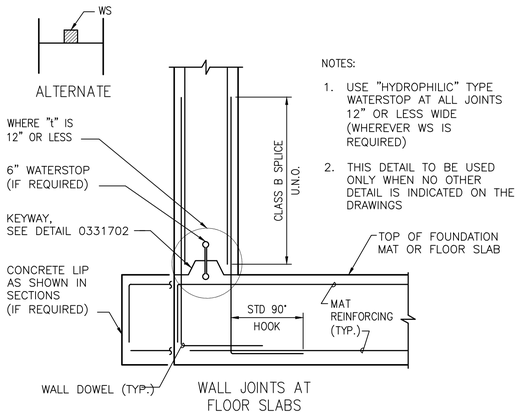
0325100



SECTION

HOUSE KEEPING PAD DETAIL

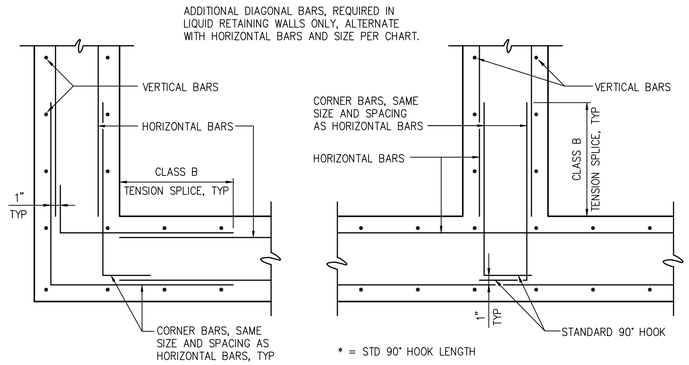
0331608



SECTION

TYPICAL WALL TO SLAB/
FOUNDATION CONSTRUCTION JOINT

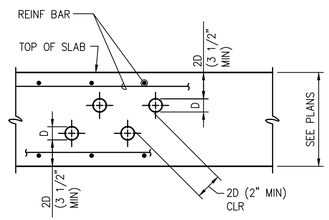
0331714



CORNER INTERSECTION

TYPICAL WALL REINFORCING

0331700

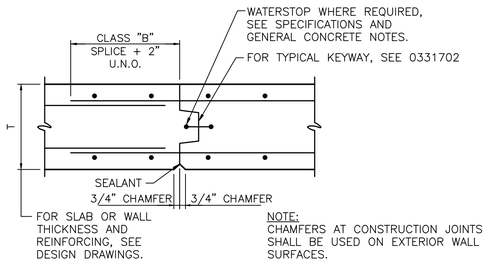


NOTES:
1 D DENOTES PIPE OR CONDUIT OD

2 EMBEDDED ITEMS SHALL NOT OCCUPY MORE THAN THE MIDDLE THIRD OF THE MEMBER THICKNESS. CONTRACTOR SHALL ADD ADDITIONAL CONCRETE AND STEEL AS REQUIRED

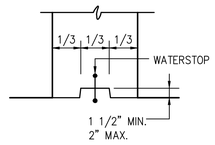
PIPE OR CONDUIT EMBEDDED IN SLAB

0331604



TYPICAL CONSTRUCTION JOINT

0331701



TYPICAL KEYWAY

0331702

ISSUED FOR BID

ENGINEER:
SAMUEL J. SMITH
REG. No. 73430
DATE: 02/03/25

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE: 02/03/25
TB	
DESIGNED BY:	SCALE: NONE
CJA	
CHECKED BY:	FIELD BOOK: XXXX
JPS	

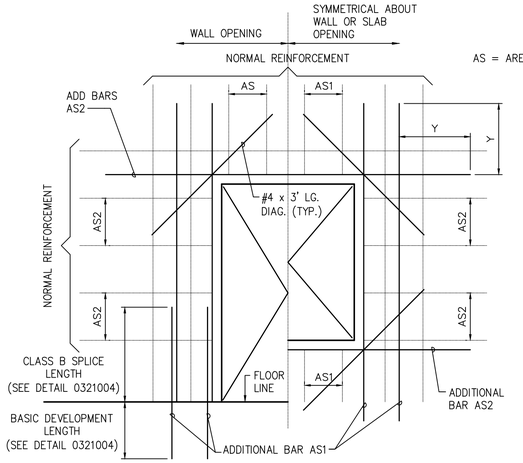
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
STANDARD DETAILS - SHEET 1

SHEET NO.	SHT #
S-11	161
TOTAL:	233
CAD FILE: 12082-S11	
DRAWING FILE NO. 4-144-88	



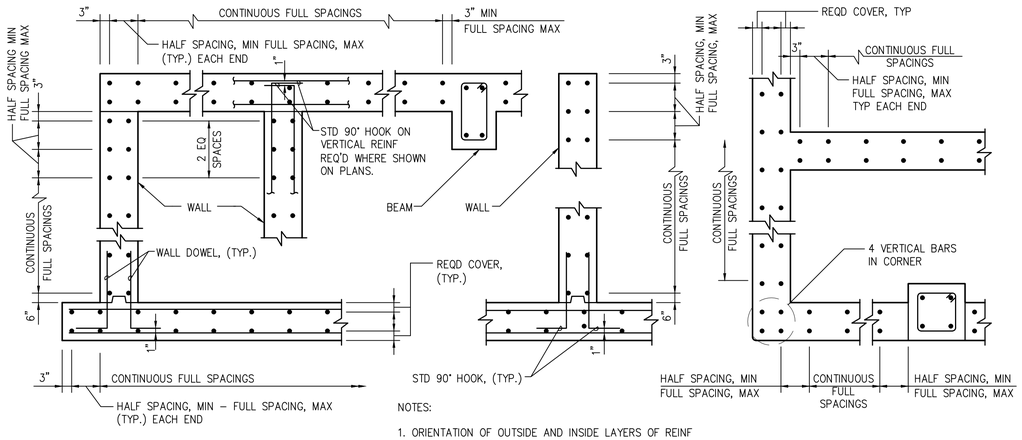
ADDITIONAL REINFORCEMENT AT RECTANGULAR OPENINGS

0331713

BAR SIZE	GRADE 60
	Y
#4	24"
#5	24"
#6	24"
#7	29"
#8	36"
#9	44"
#10	54"

NOTES:

1. CUT NORMAL REINFORCEMENT AT OPENINGS. AS1 AND AS2 = 1/2 AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
2. ADDITIONAL BARS AS1 AND AS2 TO BE PLACED:
   a. AT C OF WALLS OR SLABS WHERE ONE LAYER OF L REINFORCEMENT IS PROVIDED.
   b. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
3. THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS.
4. WHERE INVERT OF OPENING IN WALL IS CLOSER THAN 44 BAR DIAMETERS FROM TOP OF SLAB, EXTRA REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH EXTRA VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.



SECTION – WALLS AND SLABS

PLAN – WALLS

NOTES:

1. ORIENTATION OF OUTSIDE AND INSIDE LAYERS OF REINF SHALL BE AS SHOWN ON PLANS.
2. "FULL SPACING" IS BAR SPACING CALLED OUT ON PLANS.

TYPICAL BAR PLACEMENT

0331704

NOTES:

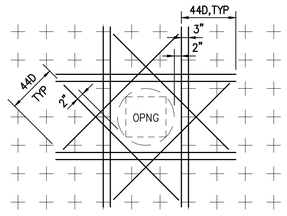
1 THIS DETAIL APPLIES FOR OPENINGS 8"ø AND LARGER. FOR SMALLER OPENINGS, BEND BARS OR ADJUST SPACING OF REINFORCEMENT TO AVOID OPENING.

2 PLACE EXTRA BARS OF THE SAME SIZE AS THE INTERRUPTED BARS AT EACH SIDE OF OPENING. QUANTITY OF EXTRA BARS AT EACH SIDE SHALL EQUAL HALF THE QUANTITY OF INTERRUPTED BARS EXCEPT WHERE NOTED OTHERWISE.

3 PROVIDE ONE DIAGONAL BAR EACH SIDE OF OPENING WITH SIZE EQUAL TO MAIN REINFORCEMENT, TYPICAL EACH FACE.

4 WHERE INVERT OF OPENING IN WALL IS LESS THAN 44 BAR DIAMETERS FROM TOP OF SLAB, EXTRA REINFORCEMENT ON EACH SIDE SHALL INCLUDE DOWELS EMBEDDED INTO SLAB WITH STANDARD 90 DEGREE HOOKS TO SPLICE WITH EXTRA VERTICAL REINFORCEMENT. DOWELS SHALL ALSO STILL BE PROVIDED BELOW OPENING.

5 WHERE INVERT OF OPENING IN WALL OR SLAB IS CLOSER THAN 44 BAR DIAMETERS TO EDGE OF SLAB OR BOTTOM OF WALL, EXTRA DIAGONAL BARS MAY BE TERMINATED TWO INCHES FROM EDGE OF SLAB OR BOTTOM OF WALL. DOWELS DO NOT HAVE TO BE PROVIDED TO SPLICE WITH DIAGONAL BARS.



TYPICAL REINF AT OPENINGS

0331703

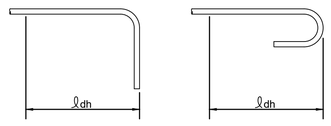
DEVELOPMENT LENGTH OF STANDARD HOOKS

FOR BARS IN TENSION

fy = 60,000 psi fc' = 4500 psi OR GREATER

BAR SIZE	DEVELOPMENT LENGTH, ℓdh	
	BASIC	W/ CONC COVER *
#3	7"	6"
#4	9"	7"
#5	1'-0"	8"
#6	1'-2"	10"
#7	1'-4"	11"
#8	1'-6"	1'-1"
#9	1'-9"	1'-3"
#10	1'-11"	1'-4"
#11	2'-2"	1'-6"

* SIDE COVER NORMAL TO PLANE OF HOOK AT LEAST 2 1/2"; AND FOR 90° HOOK, END COVER BEYOND OUTSIDE END OF HOOK AT LEAST 2".



BASIC DEVELOPMENT LENGTH AND SPLICE LENGTH

FOR BARS IN TENSION

** BASED ON MATERIALS AND CONDITIONS AS FOLLOWS:
fy = 60,000 psi fc' = 4000 psi OR GREATER
UNCOATED BARS NORMAL WEIGHT CONCRETE
CLEAR COVER 1.5 INCHES

BASIC DEVELOPMENT LENGTH ℓd				BAR SIZE	CLASS B SPLICE LENGTH 1.3 x ℓ d			
CLEAR SPACING ≥ 3"		CLEAR SPACING < 3"			CLEAR SPACING ≥ 3"		CLEAR SPACING < 3"	
BASIC	TOP *	BASIC	TOP *		BASIC	TOP *	BASIC	TOP *
1'–0"	1'–0"	1'–0"	1'–4"	# 3	1'–0"	1'–3"	1'–4"	1'–8"
1'–0"	1'–3"	1'–7"	2'–1"	# 4	1'–3"	1'–8"	2'–1"	2'–9"
1'–3"	1'–7"	2'–4"	3'–0"	# 5	1'–7"	2'–0"	3'–0"	3'–11"
1'–6"	1'–11"	3'–1"	4'–0"	# 6	1'–11"	2'–5"	4'–0"	5'–2"
2'–5"	3'–1"	4'–11"	6'–4"	# 7	3'–1"	4'–0"	6'–4"	8'–3"
3'–0"	3'–11"	6'–0"	7'–9"	# 8	3'–11"	5'–1"	7'–9"	10'–1"
3'–8"	4'–9"	6'–9"	8'–9"	# 9	4'–9"	6'–3"	8'–9"	11'–4"
4'–6"	5'–10"	7'–7"	9'–10"	# 10	5'–10"	7'–7"	9'–10"	12'–9"
5'–5"	7'–0"	8'–5"	10'–11"	# 11	7'–0"	9'–1"	10'–11"	14'–2"

* TOP REINFORCEMENT IS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

** FOR MATERIALS OR CONDITIONS DIFFERENT FROM THOSE STATED, LENGTHS SHOWN IN CHART SHALL BE MODIFIED TO CONFORM TO THE PROVISIONS OF ACI 318, SECTION 12.2.

0321004

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SAMUEL J. SMITH
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TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB | DESIGNED BY: CJA | CHECKED BY: JPS | DATE: 02/03/25 | SCALE: AS NOTED | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
STANDARD DETAILS - SHEET 2

SHEET NO. S-12 | SHT # 162

TOTAL: 233

CAD FILE: 12082-S12

DRAWING FILE NO. 4-144-88

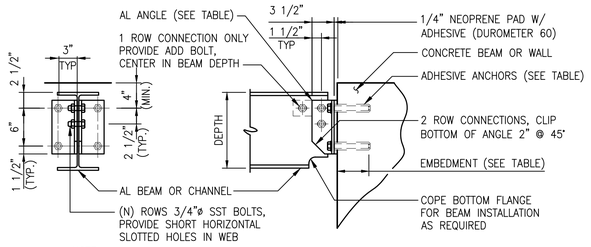
Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

AL MEMBER DEPTH	AL DOUBLE ANGLES	(N) ROWS	SST ADHESIVE ANCHORS	EMBEDMENT
4", 5", 6"	2-L6x4x3/8x0'-3" LONG	1	2-5/8"ø SST ADHESIVE ANCHORS	5", MIN
8"	2-L4x3 1/2x3/8x0'-9"	2	4-5/8"ø SST ADHESIVE ANCHORS	5", MIN
10", 12", 15"	2-L4x3 1/2x3/8x0'-9"	3	4-3/4"ø SST ADHESIVE ANCHORS	6 1/2", MIN

CAPACITY
2,800 LBS
7,000 LBS
11,000 LBS

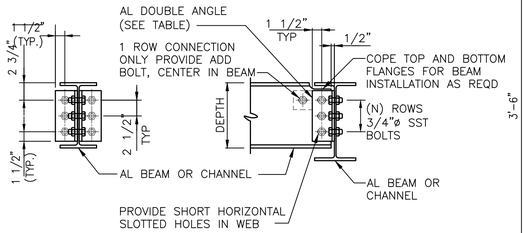
ENGR TO VERIFY

AL MEMBER DEPTH	AL DOUBLE ANGLES	(N) ROWS
4", 5", 6"	2-L6x4x3/8x0'-3" LONG	1
8"	2-L4x4x5/16x0'-5 1/2"	2
10", 12", 15"	2-L4x4x5/16x0'-8"	3

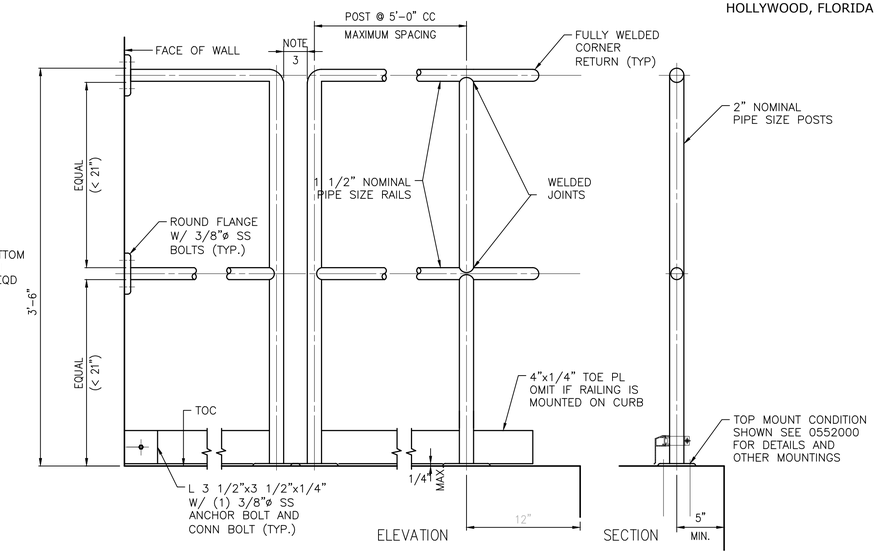


NOTE:
DURING INSTALLATION OF ADHESIVE ANCHORS BEAM TOP REINFORCEMENT SHALL NOT BE CUT. PRIOR TO FABRICATION FIELD LOCATE REINFORCEMENT AND LENGTHEN ANGLES AS REQUIRED LOWER ANCHORS TO CLEAR REINFORCEMENT.

ALUMINUM BEAM TO CONCRETE CONNECTION
0513000



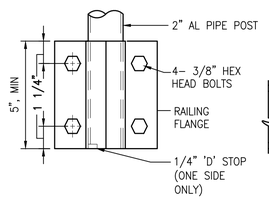
ALUMINUM FRAMING CONNECTION
0513100



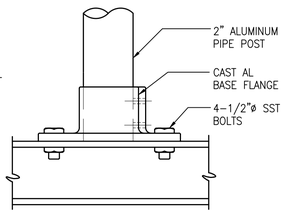
TYPICAL GUARDRAIL
0552005

NOTES:

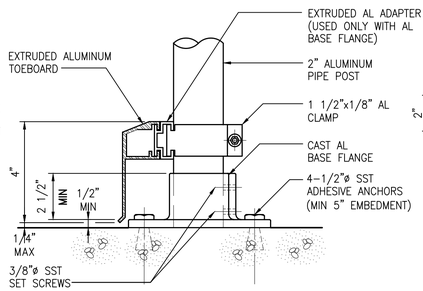
1. THE ALUMINUM GUARDRAILS SHOWN SHALL APPLY TO ALL STRUCTURES AND BUILDINGS WHERE GUARDRAILS ARE SHOWN, AND OR THAT ARE SPECIFICALLY CALLED OUT ON DRAWINGS
2. THE ALUMINUM GUARDRAILS SHOWN ARE IN ACCORDANCE WITH AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE SECTIONS 1013 AND 1607.7. TOP RAILS HAVE BEEN DESIGNED TO RESIST THE GREATER OF A LOAD OF 50 LBS PER LINEAR FOOT AND A CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION, AND TRANSFER THIS LOAD TO THE STRUCTURE. INTERMEDIATE RAILS HAVE BEEN DESIGNED TO RESIST A HORIZONTALLY APPLIED LOAD OF 50 LBS.
3. MAXIMUM CLEAR DISTANCE BETWEEN POSTS OF GUARDRAIL MODULES OR BETWEEN GUARDRAIL POST AND INDEPENDENT EQUIPMENT SUPPORT POST SHALL BE 4"



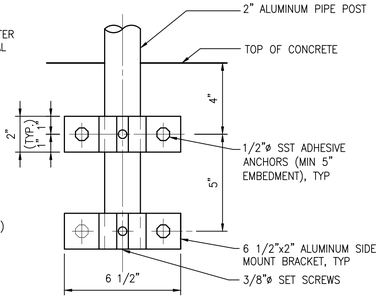
SIDE MOUNT TO METAL



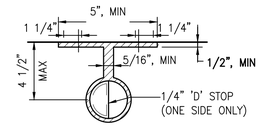
SURFACE MOUNTED TO METAL



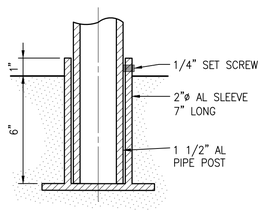
SURFACE MOUNTED TO CONCRETE



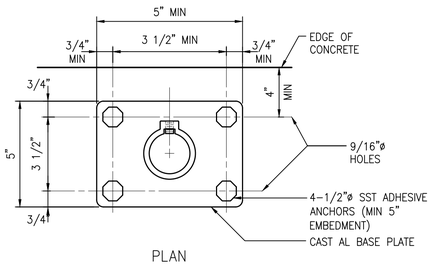
SIDE MOUNT TO CONCRETE



PLAN

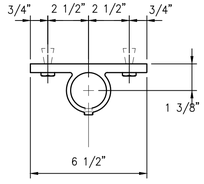


REMOVABLE POST IN CONCRETE

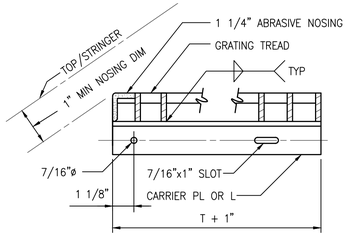


PLAN

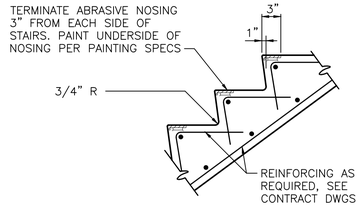
ALUMINUM HANDRAIL POST CONNECTIONS
0552000



PLAN



TYP TREAD DETAIL
0551000



STAIR NOSING
0551010R

ISSUED FOR BID

ENGINEER: SAMUEL J. SMITH
REG. No. 73410
DATE: 02/03/25
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB
DATE: 02/03/25
DESIGNED BY: CJA
SCALE: AS NOTED
CHECKED BY: JPS
FIELD BOOK: XXXX

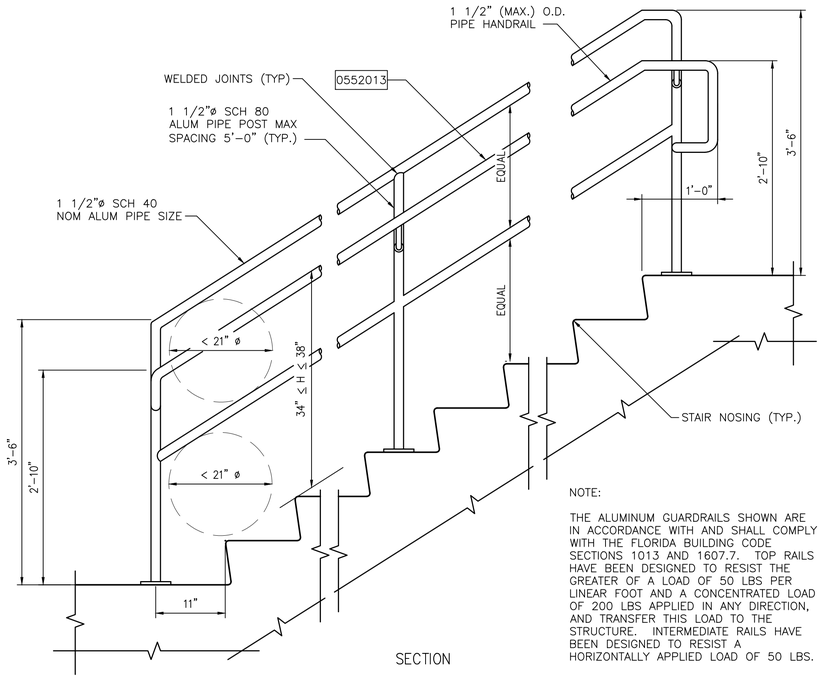
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
STANDARD DETAILS - SHEET 3

SHEET NO.	SHT #
S-13	163
TOTAL:	233
CAD FILE: 12082-S13	
DRAWING FILE NO. 4-144-88	



SECTION

NOTE:

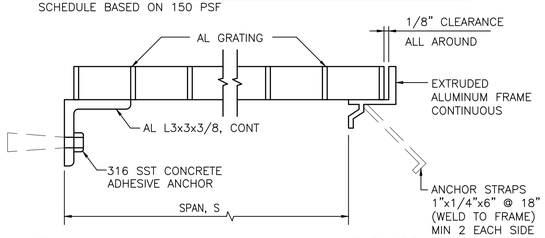
THE ALUMINUM GUARDRAILS SHOWN ARE IN ACCORDANCE WITH AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE SECTIONS 1013 AND 1607.7. TOP RAILS HAVE BEEN DESIGNED TO RESIST THE GREATER OF A LOAD OF 50 LBS PER LINEAR FOOT AND A CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION, AND TRANSFER THIS LOAD TO THE STRUCTURE. INTERMEDIATE RAILS HAVE BEEN DESIGNED TO RESIST A HORIZONTALLY APPLIED LOAD OF 50 LBS.

GUARDRAIL WITH HANDRAIL AT STAIRS

0552009

SPAN, S	DEPTH (MIN)	CONCRETE ANCHOR (DIAMETER x EMBEDMENT AND SPACING)
0'-0" <S≤ 4'-0"	1 1/2"	1/2"ø x5 1/2" @ 18"
4'-0" <S≤ 5'-0"	1 3/4"	5/8"ø x6" @ 18"
5'-0" <S≤ 5'-6"	2"	
5'-6" <S≤ 6'-0"	2 1/4"	
6'-0" <S≤ 6'-6"	2 1/2"	

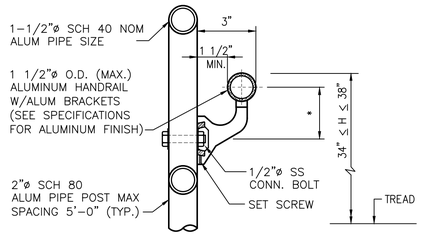
SCHEDULE BASED ON 150 PSF



AT WALL AT FLOOR

ALUMINUM GRATING

0553000

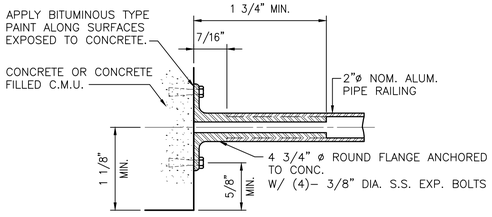


SECTION

* DIMENSION PER MANUFACTURER 2 1/2" (MIN.)

HANDRAIL ATTACHMENT AT GUARDRAIL

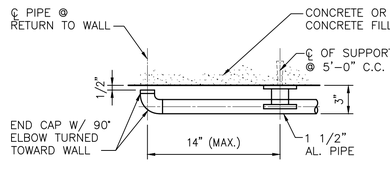
0552013



SECTIONAL – PLAN

HANDRAIL – HORIZONTAL SURFACE MOUNTED

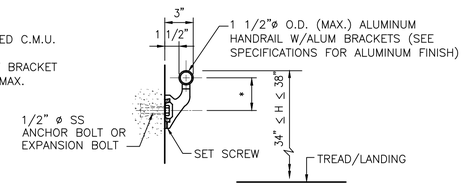
0552012



* DIMENSION PER MANUFACTURER

PLAN

TYPICAL HANDRAILING ENDS

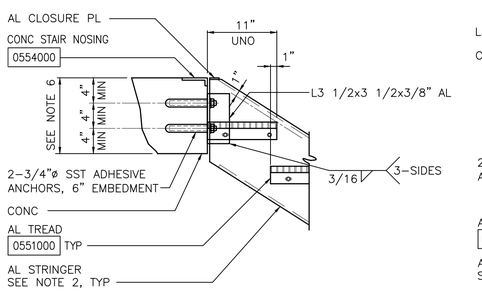


SECTION

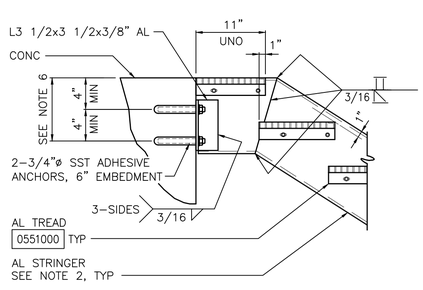
HANDRAIL ATTACHMENT DETAIL

WALL SUPPORTED HANDRAIL

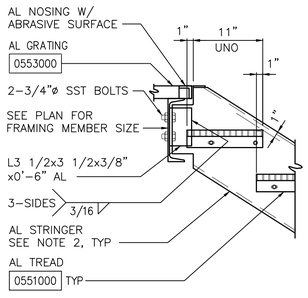
0552015



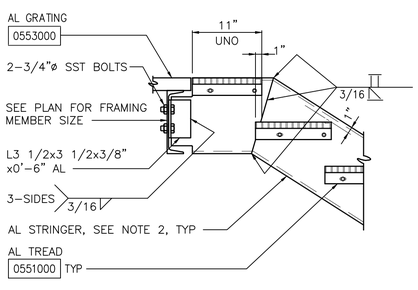
UPPER STRINGER CONNECTION TO CONCRETE



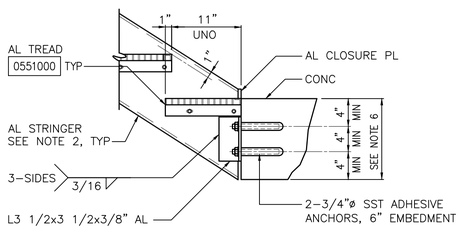
UPPER STRINGER CONNECTION TO CONCRETE WITH TREAD



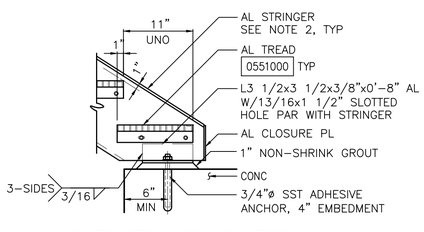
UPPER STRINGER CONNECTION TO FRAMING MEMBER



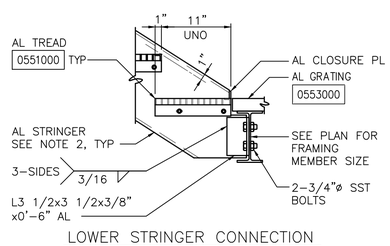
UPPER STRINGER CONNECTION TO FRAMING MEMBER WITH TREAD



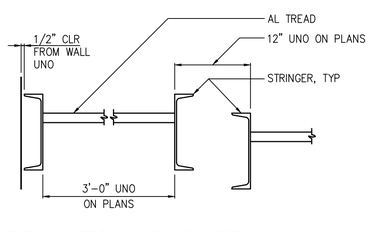
LOWER STRINGER CONNECTION TO CONCRETE



LOWER STRINGER CONNECTION TO CONCRETE SLAB



LOWER STRINGER CONNECTION TO FRAMING MEMBER



TYPICAL TREAD CROSS SECTION

NOTES:

1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.
2. C12x10.4 AL STRINGERS ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS.
3. STAIR HANDRAIL AND TOEBOARD NOT SHOWN FOR CLARITY.
4. ALL FASTENERS SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.
5. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION.
6. NO CONCRETE REINFORCING SHALL BE CUT FOR INSTALLATION OF ADHESIVE ANCHORS UNLESS APPROVED BY THE ENGINEER. PRIOR TO FABRICATION CONTRACTOR SHALL COORDINATE LOCATION OF ADHESIVE ANCHORS WITH REINFORCING AND LENGTHEN DIMENSIONS AS NEEDED TO CLEAR REINFORCING.

ALUMINUM STAIR DETAILS

0551005

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: SAMUEL J. SMITH
REG. NO. 73410
DATE: 02/03/25

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: TB | DATE: 02/03/25
DESIGNED BY: CJA | SCALE: AS NOTED
CHECKED BY: JPS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
STANDARD DETAILS -
SHEET 4

SHEET NO. S-14 | SHT # 164

TOTAL: 233

CAD FILE: 12082-S14

DRAWING FILE NO. 4-144-88

LIGHTING

X DENOTES FIXTURE TYPE (TYP.)
SEE SPECIFICATION 16500 FOR FIXTURE SCHEDULE
# DENOTES CIRCUIT NUMBER (TYP.)
POSITIONS OF X/# MAY VARY WITH RESPECT TO SYMBOL

POLE–MOUNTED FIXTURE

SWITCHES

DISCONNECT SWITCH

MISC PLAN VIEW SYMBOLS

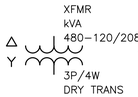
EQUIPMENT CONNECTION

GROUND RODS:
LEFT: BURIED
RIGHT: IN TESTWELL

DUCTBANK TAG:
X DENOTES DUCTBANK ID

INSTRUMENT TAG:
X DENOTES INSTRUMENT TYPE
# DENOTES INSTRUMENT NUMBER
SEE DRAWING I1 FOR INSTRUMENT ABBREVIATIONS

SINGLE–LINE DIAGRAMS



TRANSFORMER

FUSE

FUSED DISCONNECT SWITCH

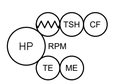
LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER
THERMAL–MAGNETIC TRIP UNIT

MOTOR CIRCUIT PROTECTOR

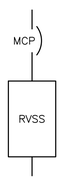
GROUND

SURGE PROTECTIVE DEVICE

KIRK–KEY INTERLOCK



MOTOR AND TYPICAL ADDITIONAL DEVICES:
: MOTOR SPACE HEATER
TSH: TEMPERATURE SWITCH
CF: COOLING FAN
TE: TEMPERATURE ELEMENT
ME: MOISTURE DETECTOR



REDUCED VOLTAGE
SOFT STARTER

ABBREVIATIONS

AE	ANALYSIS ELEMENT
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AIT	ANALYSIS INDICATING TRANSMITTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AF	AMPERE FRAME
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BC	BYPASS CONTACTOR
BKR	BREAKER
(L/V)CP	(LOCAL/VENDOR) CONTROL PANEL
C	CONDUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DUCTBANK
DSW	DISCONNECT SWITCH
(*)HH	HANDHOLE*
(*)MH	MANHOLE*
EO	ELECTRICALLY OPERATED
ETM	ELAPSED TIME METER
ETU	ELECTRONIC TRIP UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FS	FLOW SWITCH
FSL	FLOW SWITCH LOW
FVNR	FULL VOLTAGE NON–REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFCT	GROUND FAULT CURRENT TRANSFORMER
GNG	GO–NO GO
GND	GROUND
HOA	HAND–OFF–AUTO
HH	HANDHOLE
HPU	HYDRAULIC POWER UNIT
IC	INPUT CONTACTOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
(*)JB	JUNCTION BOX*
LCS	LOCAL CONTROL STATION
LP	LIGHTING PANEL
LS	LEVEL SWITCH
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW–LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH–HIGH
LT	LEVEL TRANSMITTER
MFR	MULTI–FUNCTION RELAY
MH	MANHOLE
MOD	MOTOR OPERATED DAMPER
MOG	MOTOR OPERATED GATE
MOL	MOTOR OPERATED LOUVER
MOV	MOTOR OPERATED VALVE
MPR	MOTOR PROTECTION RELAY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MWTS	MOTOR WINDING TEMPERATURE SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OUTPUT CONTACTOR
OL	OVERLOAD

ABBREVIATIONS, CONT.

(*)PB	PULLBOX*
PC	PHOTOCELL
PCC	POINT OF COMMON COUPLING
PE	PRESSURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PP	POWER PANEL
PST	PHASE SHIFTING TRANSFORMER
PT	POTENTIAL TRANSFORMER
PTT	PUSH TO TEST
RCS	REMOTE CONTROL STATION
RECP	RECEPTACLE
RIO	REMOTE I/O
RM	ROOM
RMC	RIGID METAL CONDUIT
RTD	RESISTANCE THERMAL DEVICE
RTU	REMOTE TELEMETRY UNIT
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
SA	SUPPLY AIR
S.E.	SERVICE ENTRANCE
SP. C.	SPARE CONDUIT
SPD	SURGE PROTECTIVE DEVICE
SSOL	SOLID STATE OVERLOAD
SST	STAINLESS STEEL
TB	TEST BLOCK
TC	TIMED CLOSE
TO	TIMED OPEN
TSH	TWISTED SHIELDED
TX	TRANSFORMER
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WPCR	WEATHER PROOF CORROSION RESISTANT
WT	WALK THROUGH
XFMR	TRANSFORMER

*DESIGNATED ABBREVIATIONS CAN HAVE THE FOLLOWING PREFIXES:

E	ELECTRIC
P	POWER
C	CONTROL
I	INSTRUMENTATION
F	FIBER

GENERAL NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE PER STANDARD DETAIL 1611801.
2. COORDINATE DUCTBANK ELEVATIONS WITH YARD PIPING AS REQUIRED TO CLEAR OBSTRUCTIONS.
3. WHERE DUCTBANK SEGMENTS ARE SHOWN ENTERING A STRUCTURE IN PLAN VIEWS, THE CONTRACTOR SHALL FIELD VERIFY THE OPTIMAL ROUTING OF THE CONDUITS INTO THE STRUCTURE AND EACH CONDUIT TO ITS RESPECTIVE DESIGNATION OR POINT OF TERMINATION WITHIN THE STRUCTURE.
4. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'–6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.
5. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL, OR LUG AT THE POWER SOURCE (CONTROL PANEL GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST APPLICABLE EDITION OF THE NEC.
6. CONDUIT HOMERUNS ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL REFER TO CONDUIT AND WIRE SCHEDULES, RISER DIAGRAMS, SINGLE LINE DIAGRAMS, AND OTHER DRAWINGS FOR CONDUIT AND WIRE REQUIREMENTS.
7. ELECTRICAL SYSTEMS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ART. 500 OF THE LATEST EDITION OF THE NEC. CONTRACTOR SHALL SEAL ALL CONDUITS LEAVING HAZARDOUS AREAS. WALL AND FLOOR OPENINGS SHALL BE SEALED WITH FIREPROOF COMPOUND.
8. ALL EQUIPMENT LOCATED IN HAZARDOUS AREAS SHALL BE SUITABLE FOR THE CLASS, DIVISION, AND GROUP RATING OF THE LOCATION.
9. REFERENCE SECTION 01520 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.
10. ALL CONDUIT AND WIRE SCHEDULE REFERENCES TO "CABLE AS REQ'D" INDICATE CABLE REQUIREMENTS TO BE COORDINATED BETWEEN CONTRACTOR AND EQUIPMENT MANUFACTURER. CONDUIT AND WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
11. ALL CONDUIT AND WIRE SCHEDULE REFERENCES TO "CABLE BY MFR" INDICATE CONDUIT TO BE FURNISHED BY CONTRACTOR, AND WIRE TO BE FURNISHED BY EQUIPMENT MANUFACTURER. CONDUIT AND WIRE TO BE INSTALLED BY CONTRACTOR.

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

ISSUED FOR BID

ENGINEER: JOSE A. CANO DIAZ
FLORIDA P.E. No. 92167
DATE: 05/2025
TEL: 305 443 4001
FAX:

DRAWN BY: AC | DESIGNED BY: JC | CHECKED BY: JB
DATE: 03-24-2025 | SCALE: NONE | FIELD BOOK: XXXX

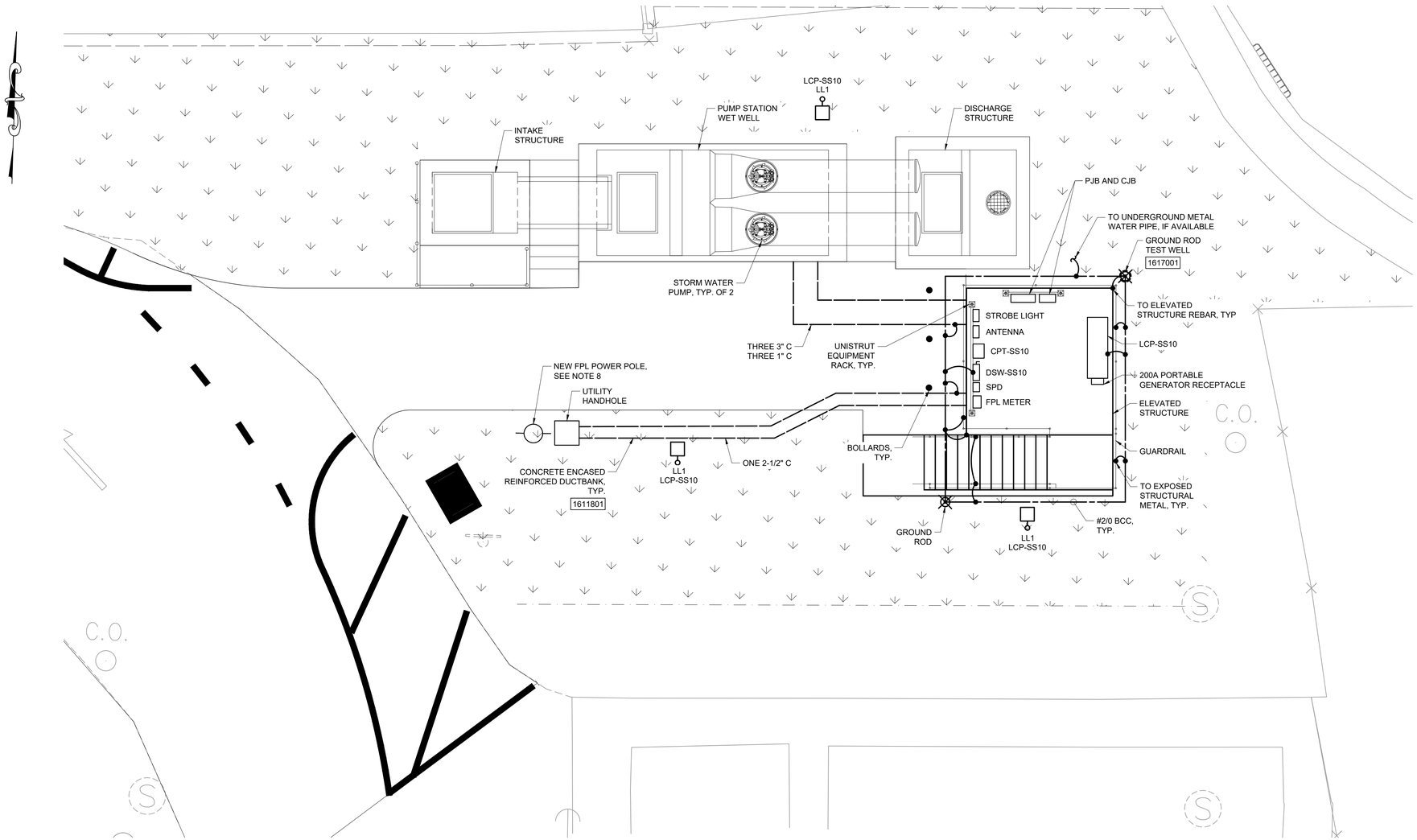
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

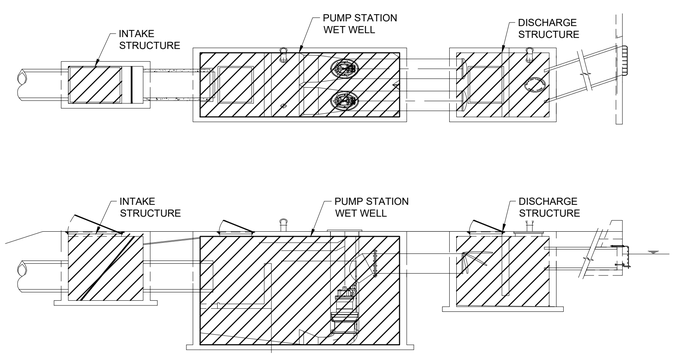
PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
LEGEND AND SYMBOLS, ABBREVIATIONS AND NOTES

SHEET NO. E-01 | SHT # 165
TOTAL: 233
CAD FILE: 12082-E01
DRAWING FILE NO. 4-144-88



ELECTRICAL SITE PLAN

SCALE: 1" = 5'-0"



CLASSIFICATION PLAN

SCALE: NTS

LEGEND:

CLASS I, DIV. 1, GROUP D.

CLASS I, DIV. 2, GROUP D.

STORM WATER PUMP STATION WET WELL:

SPACE CLASSIFIED PER NFPA-820-2020 EDITION:
TABLE 4.2.2, ROW 4.

CLASS I, DIVISION 1 AREAS:

- NONE

CLASS I, DIVISION 2 AREAS:

- ENTIRE ROOM OR SPACE

NOTES:

1. ALL MATERIALS OF CONSTRUCTION AND ENCLOSURE TYPES SHALL BE PROVIDED IN ACCORDANCE WITH THE CLASSIFICATION OF THE AREAS IN WHICH THEY ARE INSTALLED. REFERENCE THE AREA CLASSIFICATION TABLES IN THE APPROPRIATE DIVISION 16 SPECIFICATION SECTIONS.
2. CONTRACTOR SHALL FURNISH AND INSTALL NEW CONCRETE ENCASED REINFORCED DUCTBANKS AS INDICATED. ACTUAL ROUTING OF THE DUCTBANKS SHALL BE COORDINATED WITH UNDERGROUND INFRASTRUCTURE AND ADJUSTED AS NECESSARY TO AVOID CONFLICTS.
3. IN THE EVENT OF AN ELEVATION CONFLICT BETWEEN A DUCTBANK AND A PROCESS PIPING, THE DUCTBANK SHALL BE LOCATED A MINIMUM OF 1 FT BENEATH THE PIPING. IN ALL OTHER LOCATIONS, DUCTBANKS SHALL BE INSTALLED A MINIMUM OF 2 FT BELOW GRADE AS INDICATED IN STANDARD DETAIL 1611801.
4. CONTRACTOR SHALL FURNISH AND INSTALL SITE LIGHTING AS SHOWN. CONTRACTOR NOTE CONDUIT AND WIRE FOR SITE LIGHTING IS NOT INCLUDED IN THE DUCTBANK SCHEDULES, BUT CONDUIT IS ACCOUNTED FOR IN THE CONDUIT AND WIRE SCHEDULES. CONTRACTOR SHALL FURNISH AND INSTALL THE SITE LIGHTING RACEWAY SYSTEM UTILIZING PVC-SCH80 CONDUIT DIRECT BURIED 30" (MIN) BELOW GRADE.
5. MOUNT FIXTURE TYPES LL1 15'-0" AFF.
6. GROUND RING CONDUCTOR SHALL BE #2/0 BARE COPPER WIRE (BCC) 30 INCHES MIN. BELOW FINISHED GRADE. ALL GROUND CONDUCTORS TO EQUIPMENT OR STRUCTURAL STEEL SHALL BE #2/0 BARE COPPER WIRE.
7. EACH DUCTBANK GROUND CONDUCTOR CROSSING THE GROUND RING SHALL BE EXOTHERMICALLY WELDED TO THE GROUND RING CONDUCTOR.
8. FPL POWER POLE LOCATION AS SHOWN IS APPROXIMATE. FINAL LOCATION SHALL BE DETERMINED BY FPL IN THE FIELD. REFER TO SPECIFICATION 16000 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PRACTICE CARE WHEN INSTALLING THE LIGHT POLE IN PROXIMITY TO THE FPL POWER POLE. MINIMUM CLEARANCES SHALL COMPLY WITH NEC, NESC AND FPL REQUIREMENTS.
9. CONTRACTOR SHALL INSTALL CONDUIT SEALING FITTINGS FOR ALL CONDUITS FROM THE JUNCTION BOXES TO THE STORM WATER WET WELL IN ACCORDANCE WITH NEC 501.15(A)(4), EXCEPTION 2.
10. SPD FRONT PLATE SHALL BE IN LINE WITH THE DSW FRONT PLATE FOR COMPLIANCE WITH NEC 110.26(A)(2).

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

ENGINEER: JOSE A. CANO DIAZ
FLA. REG. PE No. 92167
DATE: 05/2025

TEL: 305 443 4001
FAX:

DRAWN BY: AC | DESIGNED BY: JC | DATE: 03-24-2025 | SCALE: AS NOTED | CHECKED BY: JB | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SITE PLAN AND CLASSIFICATION PLAN

SHEET NO. E-02 | SHT # 166

TOTAL: 233

CAD FILE: 12082-E02

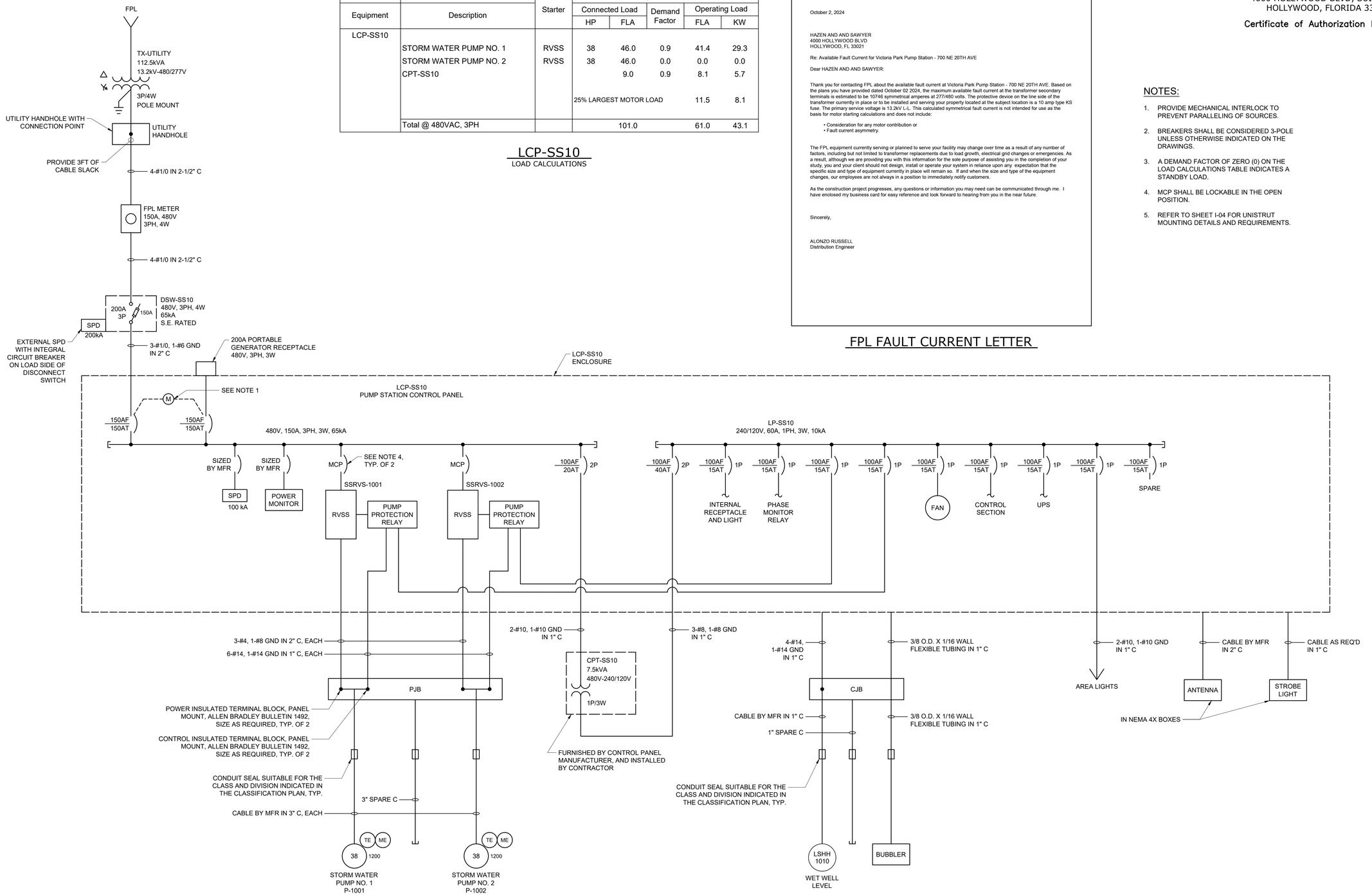
DRAWING FILE NO. 4-144-88

PLOT DATE: 5/29/2025 10:47 PM BY: JCANO

File = O:\43193-HWD\43193-022\CAD_BIM\Electrical\12082-E02 Saved by JCano Save date = 5/29/2025 10:37 PM

VICTORIA PARK STORMWATER PUMP STATION - LOAD CALCULATIONS								
			Pump Station Loads					
Equipment	Description	Starter	Connected Load		Demand Factor	Operating Load		
			HP	FLA		FLA	KW	
LCP-SS10	STORM WATER PUMP NO. 1	RVSS	38	46.0	0.9	41.4	29.3	
	STORM WATER PUMP NO. 2	RVSS	38	46.0	0.0	0.0	0.0	
	CPT-SS10			9.0	0.9	8.1	5.7	
					25% LARGEST MOTOR LOAD		11.5	8.1
	Total @ 480VAC, 3PH			101.0		61.0	43.1	

LCP-SS10
LOAD CALCULATIONS



LCP-SS10
SINGLE LINE DIAGRAM

October 2, 2024

HAZEN AND AND SAWYER
4000 HOLLYWOOD BLVD
HOLLYWOOD, FL 33021

Re: Available Fault Current for Victoria Park Pump Station - 700 NE 20TH AVE

Dear HAZEN AND AND SAWYER:

Thank you for contacting FPL about the available fault current at Victoria Park Pump Station - 700 NE 20TH AVE. Based on the plans you have provided dated October 02 2024, the maximum available fault current at the transformer secondary terminals is estimated to be 10746 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 10 amp type KS fuse. The primary service voltage is 13.2kV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

ALONZO RUSSELL
Distribution Engineer

FPL FAULT CURRENT LETTER

NOTES:

1. PROVIDE MECHANICAL INTERLOCK TO PREVENT PARALLELING OF SOURCES.
2. BREAKERS SHALL BE CONSIDERED 3-POLE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. A DEMAND FACTOR OF ZERO (0) ON THE LOAD CALCULATIONS TABLE INDICATES A STANDBY LOAD.
4. MCP SHALL BE LOCKABLE IN THE OPEN POSITION.
5. REFER TO SHEET I-04 FOR UNISTRUT MOUNTING DETAILS AND REQUIREMENTS.

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

ENGINEER: JOSE A. CANO DIAZ
FLORIDA PE No. 92167
DATE: 05/2025
TEL: 305 443 4001
FAX:

DRAWN BY: AC
DESIGNED BY: JC
CHECKED BY: JB
DATE: 05-24-2025
SCALE: NTS
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

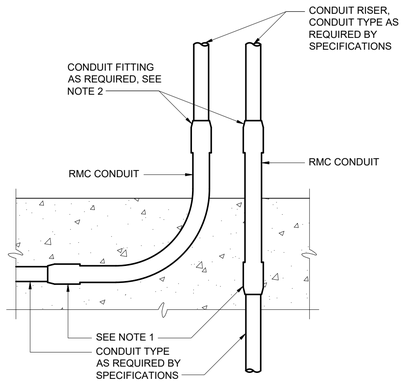
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
SINGLE LINE DIAGRAM AND LOAD CALCULATIONS

ISSUED FOR BID

SHEET NO. E-03
SHT # 167
TOTAL: 233
CAD FILE: 12082-E03
DRAWING FILE NO. 4-144-88

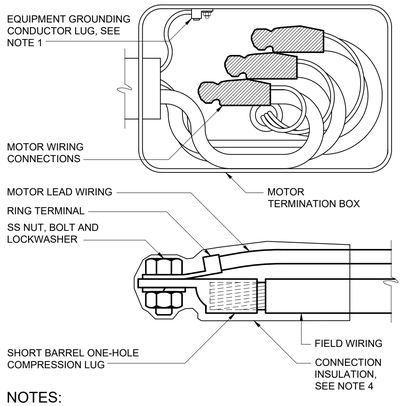


NOTES:

1. FOR ENCASED CONDUIT USE RMC COUPLINGS.
2. IF ANY THREADS OF THE RMC CONDUIT ARE EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT FITTING SHALL BE PROVIDED WITH APPROPRIATE SKIRTS. IF THE THREADS OF THE RMC CONDUIT ARE PROPERLY CUT SO THAT THEY ARE NOT EXPOSED AFTER INSTALLATION OF THE CONDUIT FITTING, THE CONDUIT MATERIAL SHALL BE AS REQUIRED BY THE SPECIFICATIONS, BASED ON THE MATERIAL OF THE CONDUIT RISER.

CONDUIT EXITING CONCRETE ENCASEMENT

1611101

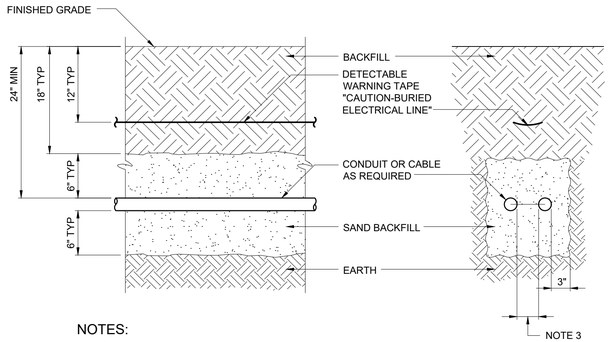


NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR LUG SHALL BE ATTACHED WITH NUT AND LOCKWASHER TO THE MOTOR GROUNDING STUD. WHERE PROVIDED, FACTORY INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUGS ARE ACCEPTABLE IN LIEU OF THE FIELD INSTALLED EQUIPMENT GROUNDING CONDUCTOR LUG.
2. RING TERMINALS ON MOTOR LEADS SHALL BE FACTORY INSTALLED BY THE MOTOR MANUFACTURER.
3. INSTALL SHORT BARREL COMPRESSION CONNECTOR ON FIELD WIRING WITH MANUFACTURER'S RECOMMENDED COMPRESSION TOOL AND CRIMPING DIE. CONNECTORS SHALL HAVE SMOOTHLY ROUNDED EDGES.
4. HEAT SHRINK OR COLD APPLIED CONNECTOR INSULATION LISTED FOR THE PURPOSE AND AS SPECIFIED.

LOW VOLTAGE MOTOR TERMINATION

1648001

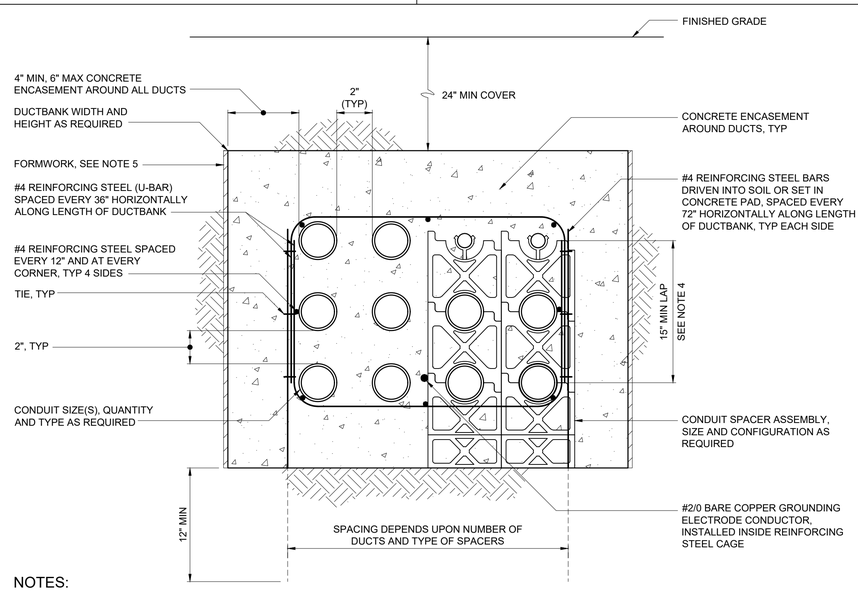


NOTES:

1. CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 16111.
2. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CINDERS, LARGE OR SHARPLY ANGULAR SUBSTANCES, OR CORROSIVE MATERIAL SHALL NOT BE USED.
3. MAINTAIN A MINIMUM OF 2" BETWEEN POWER, CONTROL, AND INSTRUMENTATION CONDUITS OR CONDUCTORS.

TYPICAL DIRECT BURIED CONDUIT & CABLE

1611802



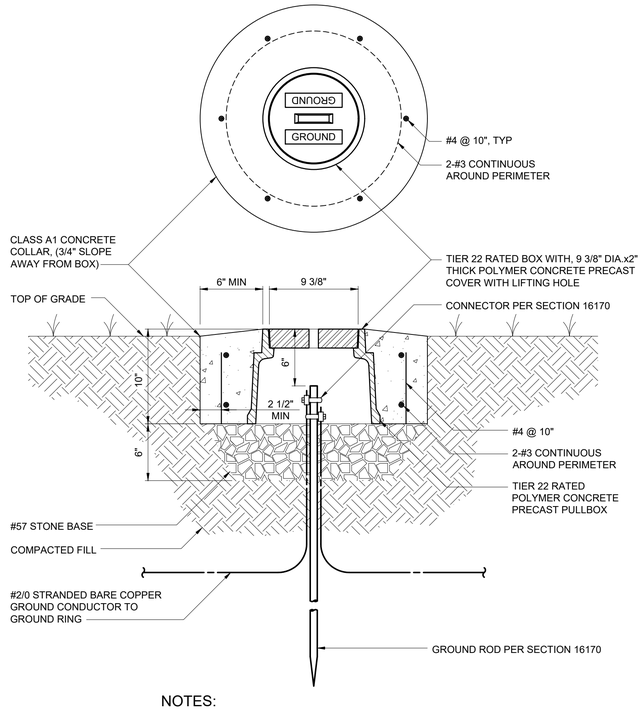
NOTES:

1. CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 03300.
2. REINFORCING STEEL AND TIES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 03200. OVERLAP FOR REINFORCING STEEL SPLICES ALONG THE DUCTBANK LENGTH SHALL BE 15", MINIMUM.
3. CONDUIT SPACERS ARE REQUIRED IN ACCORDANCE WITH SPECIFICATION SECTION 16118. HORIZONTAL SPACING OF CONDUIT SPACER ASSEMBLIES ALONG LENGTH OF DUCTBANK SHALL BE AS SHOWN IN THE TABLE.
4. FOR DUCTBANKS LESS THAN 15" IN HEIGHT, THE LAP SHALL BE THE HEIGHT OF THE DUCTBANK.
5. IN POOR SOIL CONDITIONS, DUCTBANKS SHALL BE FORMED WITH FORMING MATERIALS TO MAINTAIN 4" MINIMUM ENCASEMENT. WHERE SOIL CONDITIONS PERMIT AND THE EXCAVATION IS MAINTAINED FOR A 4" MINIMUM TO 10" MAXIMUM ENCASEMENT, THE FORMWORK CAN BE OMITTED.

MAX SPACING BETWEEN CONDUIT SPACER ASSEMBLIES	
CONDUIT SIZE	SPACING
1"	3 FT
1 1/4-2"	5 FT
2 1/2-3"	6 FT
3 1/2-5"	7 FT
6"	8 FT

TYPICAL DUCTBANK SECTION

1611801

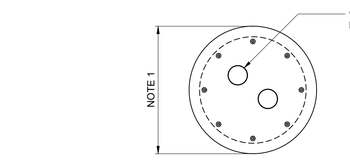


NOTES:

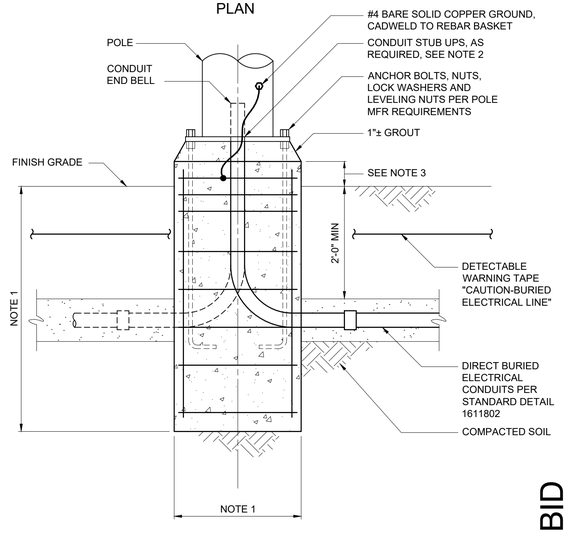
1. PRECAST PULLBOX AND COVER SHALL BE OLDCASTLE PART NUMBER 09101187, OR APPROVED EQUAL.

GROUND ROD TEST WELL

1617001



PLAN



ELEVATION

NOTES:

1. DIAMETER, DEPTH AND REINFORCEMENT SHALL BE DETERMINED BY POLE MANUFACTURER IN ACCORDANCE WITH SECTION 16500. LOADING SHALL BE IN ACCORDANCE WITH SECTION 16500.
2. CONTRACTOR SHALL CAREFULLY COORDINATE LOCATION AND QUANTITY OF CONDUITS IN THE BASE SO THAT WHEN POLE IS INSTALLED, IT WILL FIT OVER THE CONDUITS.
3. PROJECTED HEIGHT ABOVE GRADE SHALL BE AS DESCRIBED IN THE POLE SCHEDULE IN 16500.

POLE-MOUNTED LIGHTING FIXTURE BASE

1650001

ISSUED FOR BID

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

ENGINEER: JOSE A. CANO DIAZ
FLA. REG. P.E. No. 92167
DATE: 05/2025

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DRAWN BY: AC | DESIGNED BY: JC | CHECKED BY: JB | DATE: 03-24-2025 | SCALE: NTS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
ELECTRICAL DETAILS

SHEET NO. E-04 | SHT # 168

TOTAL: 233

CAD FILE: 12082-E04

DRAWING FILE NO. 4-144-88

INSTRUMENT AND FUNCTION SYMBOLS

LOCATION AND ACCESSIBILITY	SHARED DISPLAY/SHARED CONTROL			
	PRIMARY CHOICE OR BASIC PROCESS CONTROL SYSTEM	ALTERNATE CHOICE OR SAFETY INSTRUMENTED SYSTEM	COMPUTER SYSTEMS AND SOFTWARE	DISCRETE
– LOCATED IN FIELD – NOT PANEL, CABINET, OR CONSOLE MOUNTED – VISIBLE AT FIELD LOCATION – NORMALLY OPERATOR ACCESSIBLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
– LOCATED IN OR ON FRONT OF CENTRAL OR MAIN PANEL OR CONSOLE – VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY – NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
– LOCATED IN REAR OF CENTRAL OR MAIN PANEL – LOCATED IN CABINET BEHIND PANEL – NOT VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY – NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
– LOCATED IN OR ON FRONT OF SECONDARY OR LOCAL PANEL OR CONSOLE – VISIBLE ON FRONT OF PANEL OR ON VIDEO DISPLAY – NORMALLY OPERATOR ACCESSIBLE AT PANEL FRONT OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345
– LOCATED IN REAR OF SECONDARY OR LOCAL PANEL – LOCATED IN FIELD CABINET – NOT NORMALLY OPERATOR ACCESSIBLE AT PANEL OR CONSOLE	ABCD 12345	ABCD 12345	ABCD 12345	ABCD 12345

X — SUFFIX (X) TO DIFFERENTIATE BETWEEN INSTRUMENTS AND FUNCTIONS THAT WOULD OTHERWISE HAVE THE SAME IDENTIFICATION.

SINGLE INSTRUMENT OR OTHER COMPONENT HAVING MULTIPLE FUNCTIONS OR SHARING A COMMON HOUSING

(ZZZ) — DESIGNATIONS OF CONTROL FUNCTIONS (ZZZ) ASSOCIATED WITH INSTRUMENT OR OTHER COMPONENTS.

AHC	– AUTO/HOLD/CLOSE	OC	– OPEN/CLOSE
AM	– AUTO/MANUAL	OSC	– OPEN/STOP/CLOSED
CALC	– CALCULATION	POT	– POTENTIOMETER
DEV	– DEVIATION	RL	– RAISE/LOWER
MOA	– MANUAL/OFF/AUTO	RS	– RUN/STOP
HOR	– HAND/OFF/REMOTE	RSL	– RAISE/STOP/LOWER
LOS	– LOCKOUT STOP	SD	– SHUTDOWN
LR	– LOCAL/REMOTE	SEL	– SELECT
LSR	– LOCAL/STOP/REMOTE	SP	– SET POINT
00	– ON / OFF	SR	– START/RESET
		SS	– STOP/START

* ABCD 12345 — CONTROL SYSTEM COMPUTING FUNCTION

* ABCD 12345 — INSTRUMENT WITH COMPUTING OR CONVERTING FUNCTION

CONVERT */*

E – VOLTAGE	H – HYDRAULIC
I – CURRENT	O – ELECTROMAGNETIC, SONIC
P – PNEUMATIC	R – RESISTANCE (ELECT.)
A – ANALOG	D – DIGITAL
B – BINARY	

COMPUTE

*	Σ SUMMING	P	PROPORTIONAL	△	DIFFERENCE
	— SUBTRACTOR	R	DERIVATIVE	>	HIGH SELECTING
	X MULTIPLYING	Σ/n	AVERAGING	<	LOW SELECTING
	÷ DIVIDING	I:I	RATIO		INTEGRAL
	ROOT EXTRACTION	PID	PID	#	COMPLEX FUNCTION # = 1, 2, 3, etc. REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION

* — ELECTRICAL CONTROL INTERLOCK

\# — COMPLEX INTERLOCK
= 1, 2, 3, etc.
REFER TO NOTE ON SAME SHEET FOR BRIEF DESCRIPTION

AND — AND LOGIC

OR — OR LOGIC

ABCD 1234 — PILOT LIGHT

VALVE, GATE, AND ACTUATOR SYMBOLS

- GATE VALVE
- PLUG VALVE
- GLOBE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALL CHECK VALVE
- SWING CHECK VALVE
- CHECK VALVE
- 3–WAY VALVE
- 3–WAY BALL VALVE
- DIAPHRAGM VALVE
- PINCH VALVE
- NEEDLE VALVE
- SLUICE GATE
- STOP/SLIDE GATE
- S — SOLENOID ACTUATOR
- P — PNEUMATIC ACTUATOR
- BACKFLOW PREVENTER
- PRESSURE RELIEF VALVE
- VACUUM RELIEF VALVE
- COMBINATION VACUUM AND PRESSURE RELIEF VALVE
- PRESSURE–REDUCING REGULATOR
- BACKPRESSURE REGULATOR
- V — AIR RELEASE VALVE
- M — ROTARY MOTOR
- E/H — ELECTROHYDRAULIC ACTUATOR
- MANUAL ACTUATOR

MISCELLANEOUS SYMBOLS

- QUICK CONNECT
- BLIND FLANGE
- HORN
- V — VENT
- HORN/STROBE
- M — MOTOR
- D — DRAIN
- DIAPHRAGM SEAL
- FULL LINE OR TAPPED RING SEAL
- XXXX–YYY — EQUIPMENT OR PANEL TAG

PRIMARY ELEMENT SYMBOLS

- M — MAGNETIC FLOW METER
- NON–CONTACT RADAR LEVEL SENSOR
- FLOAT LEVEL SWITCH
- XX — ABCD 1234 — XX: RF=ADMITTANCE/CAPACITANCE MAN=MANOMETER

PUMP SYMBOLS

- SUBMERSIBLE VERTICAL COLUMN PUMP
- CENTRIFUGAL WET PIT PUMP (OR DRY–PIT SUBMERSIBLE)

ANALYTICAL ABBREVIATIONS

AXX 1234 — ANALYSIS INSTRUMENT

(ZZZ) (ZZZ) = ALK – ALKALINITY

CH4	– METHANE	PH	– HYDROGEN ION CONCENTRATION
CL2	– CHLORINE	PO4	– PHOSPHATE
COMB	– COMBUSTIBLE GAS	SO2	– SULFUR DIOXIDE
CON	– CONDUCTIVITY	TH	– TOTAL HARDNESS
DO	– DISSOLVED OXYGEN	TSS	– TOTAL SUSPENDED SOLIDS
IR	– INFRARED	TURB	– TURBIDITY
H2S	– HYDROGEN SULFIDE	UV	– ULTRAVIOLET
LEL	– LOWER EXPLOSIVE LIMIT		
METH	– METHANOL VAPOR		
NH3	– AMMONIA		
NO3	– NITRATE		
O2	– OXYGEN		
O3	– OZONE		
ORP	– OXIDATION/REDUCTION POTENTIAL		
PETRO	– PETROLEUM VAPOR		

IDENTIFICATION LETTERS

	FIRST LETTERS		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/ PASSIVE FUNCTION	OUTPUT/ ACTIVE FUNCTION	FUNCTION MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROL	CLOSE
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENCE, DIFFERENTIAL			DEVIATION
E	VOLTAGE (EMF)		SENSOR, PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE		GLASS, GAUGE, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT		INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE OR HUMIDITY	MOMENTARY			MIDDLE, INTERMEDIATE
N	TORQUE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	PUMP MONITOR		ORIFICE, RESTRICTION		OPEN
P	PRESSURE		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE, TOTALIZE		
R	RADIATION		RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL PROBE		
X	UNCLASSIFIED	X–AXIS	ACCESSORY DEVICES, UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE, PRESENCE	Y–AXIS		AUXILIARY DEVICES	
Z	POSITION, DIMENSION	Z–AXIS, SAFETY INSTRUMENTED SYSTEM		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

LINE SYMBOLS AND LEGEND

- MAJOR PROCESS PIPES OR CHANNELS
- SECONDARY PROCESS OR MECHANICAL CONNECTION
- AIR SUPPLY OR SIGNAL
- ELECTRICAL SIGNAL/ COPPER CABLE
- DATA LINK OR INTERNAL SOFTWARE LINK
- FO — FIBER OPTIC CABLE
- C6 — CAT6 CABLE
- PROCESS/SIGNALS NOT CONNECTED (CROSSING)
- PROCESS/SIGNALS CONNECTED
- TAG / DRAWING — OFF–SHEET CONNECTOR
- DISCRETE ELECTRICAL SIGNALS
- DISCRETE DIGITAL SIGNALS
- ANALOG ELECTRICAL SIGNALS
- ANALOG DIGITAL SIGNALS

GENERAL NOTES

1. SYMBOLS AND NOMENCLATURE ARE BASED ON ANSI/ISA–5.1–2009.
2. REFER TO LEGEND SHEETS OF OTHER DISCIPLINES FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL ON CONTROL SYSTEM FUNCTIONAL REQUIREMENTS.
4. INSTRUMENTS AND PANELS DENOTED WITH AN ASTERISK (*) ARE PROVIDED BY OTHER DISCIPLINES. REFER TO THE DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL DETAIL.
5. POWER SUPPLIES FOR LOOPS OR SYSTEMS SHALL BE FURNISHED BY THE INSTRUMENTATION SUPPLIER TO MEET THE PARTICULAR CHARACTERISTICS (E.G., VOLTAGE AND CURRENT REQUIREMENTS) OF COMPONENTS IN EACH LOOP OR SYSTEM.

ISSUED FOR BID

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: EVAN P. CURTIS
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DATE: 04/2024
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DRAWN BY: LGG | DESIGNED BY: AJM | CHECKED BY: EPC | DATE: 03/25 | SCALE: NONE | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION
SYMBOLS AND LEGEND

SHEET NO. I-01 | SHT # 169
TOTAL: 233
CAD FILE: 12080-I01
DRAWING FILE NO. 4-144-88

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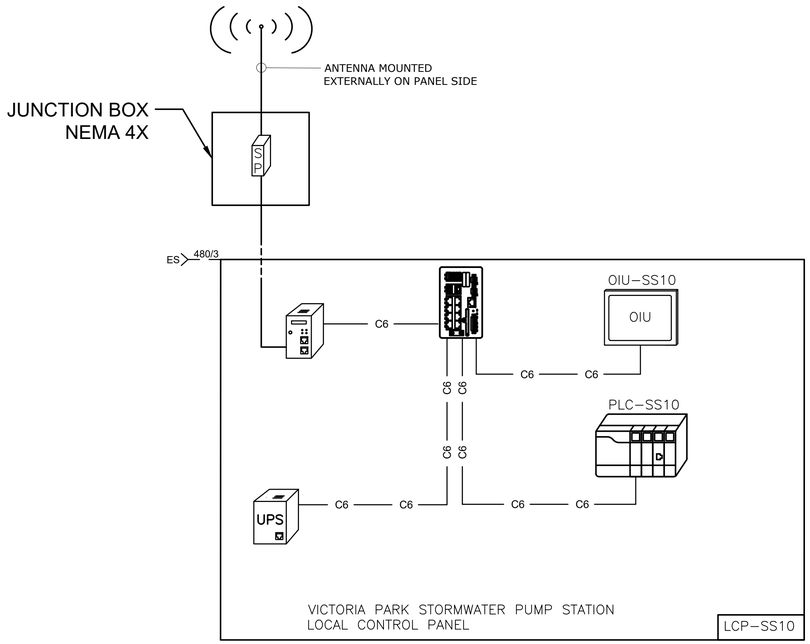
HOLLYWOOD, FLORIDA 33021



VICTORIA PARK
STORMWATER PUMP STATION (SS-10)

LEGEND

C6 — COPPER (CAT6) ETHERNET

COAXIAL

SYMBOLS

OIU — OPERATOR INTERFACE UNIT (OIU)

PROGRAMMABLE LOGIC CONTROLLER (PLC)

ETHERNET SWITCH

CELLULAR MODEM

SP — SURGE PROTECTOR

UPS — UNINTERRUPTIBLE POWER SUPPLY

CELLULAR ANTENNA

ISSUED FOR BID

ENGINEER:
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FIELD BOOK:

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ENGINEERING & ARCHITECTURE
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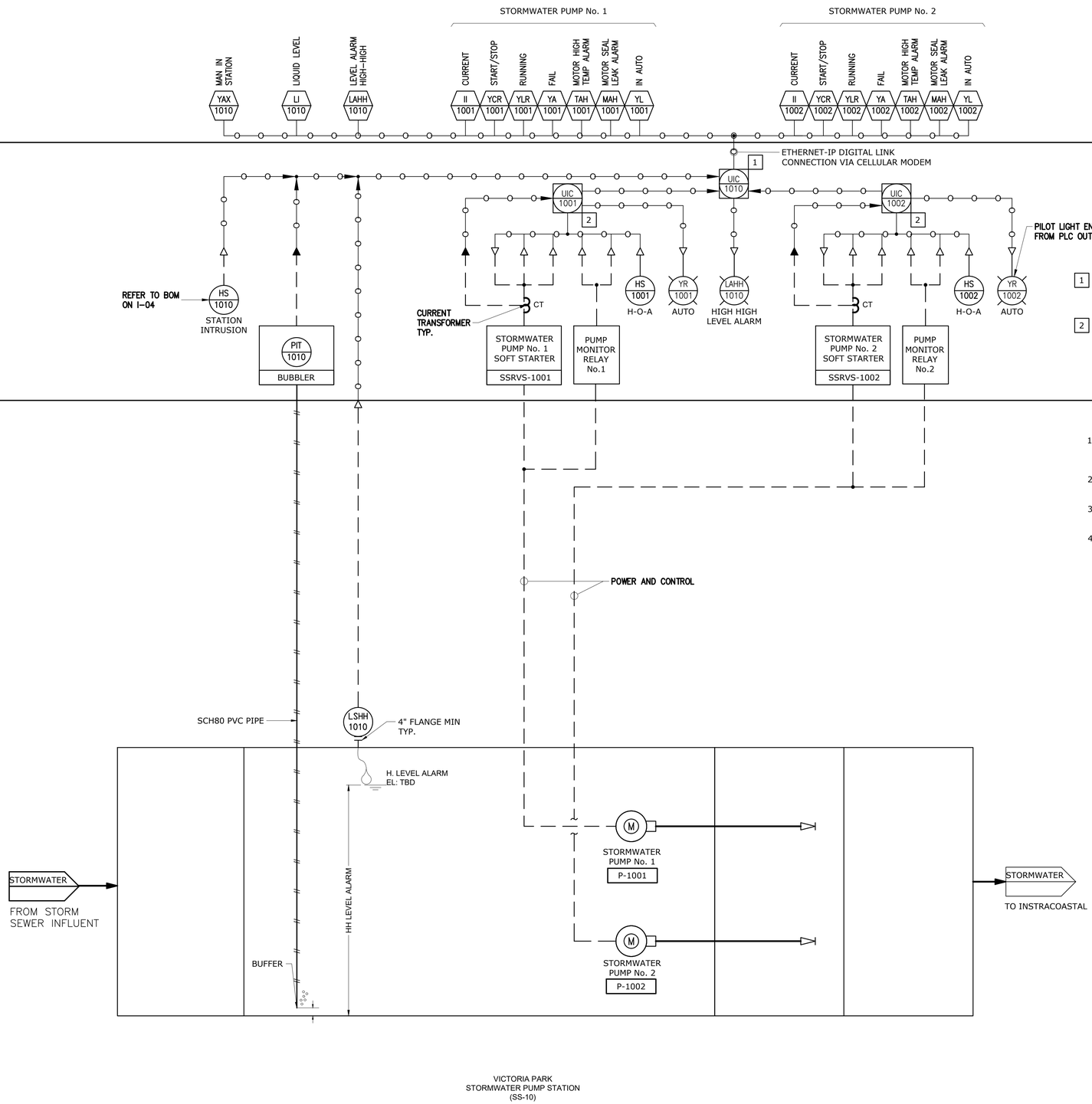
REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
NETWORK DIAGRAM

SHEET NO. I-02
SHT # 170
TOTAL: 233
CAD FILE: 12080-I02
DRAWING FILE NO. 4-144-88



FUNCTIONAL CONTROL DESCRIPTIONS:

1 PLC-SS10 LOGIC SHALL FACILITATE AUTOMATIC LEVEL MONITORING, ALARMS AND PUMP CONTROLS OF EACH DUTY/STANDBY STORMWATER PUMP BASED ON THE CITY STANDARD PLC SOFTWARE.

2 PLC-SS10 LOGIC SHALL FACILITATE AUTOMATIC STARTING AND STOPPING OF EACH DUTY/STANDBY STORMWATER PUMP BASED ON THE CITY STANDARD PLC SOFTWARE.

NOTES:

1. LCP-SS10 OPERATOR INTERFACE UNIT (OIU) GRAPHIC SCREEN PROGRAMMING AND SCADA MODIFICATIONS WILL BE PROVIDED BY THE OWNER.
2. PLC PROGRAM WILL BE PROVIDED BY THE OWNER. CONTRACTOR WILL NEED TO PROVIDE A DUMMY PROGRAM FOR LOOP CHECK ONLY.
3. HIGH HIGH LEVEL SWITCH SHALL BE WIRED FAIL SAFE. (USE NORMALLY CLOSED CONTACTS).
4. CONTRACTOR SHALL MODIFY THE STANDARD PUMP LAYOUTS SHOWN IN I-06 AND I-07 ALONG WITH WIRING DETAILS SHOWN IN I-08 TO MATCH THE PROPOSED SYSTEM .

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HOLLYWOOD, FLORIDA 33021

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FAX: 561-317-4171

DRAWN BY: LGG
DATE: 03/25
DESIGNED BY: AJM
SCALE: NONE
CHECKED BY: EPC
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION
STORMWATER PUMP STATION

SHEET NO. I-03
SHT # 171
TOTAL: 233
CAD FILE: 12080-I03
DRAWING FILE NO. 4-144-88

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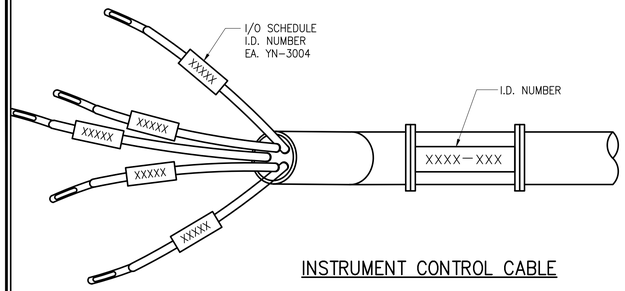
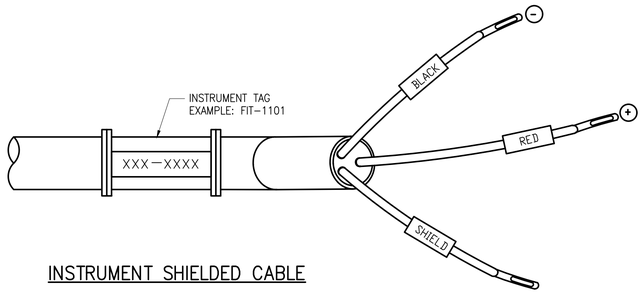
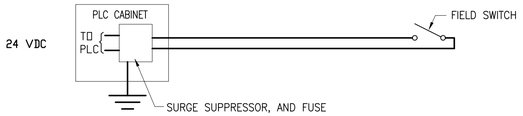


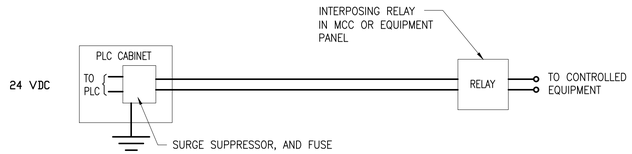
INSTRUMENT CONTROL CABLE



INSTRUMENT SHIELDED CABLE



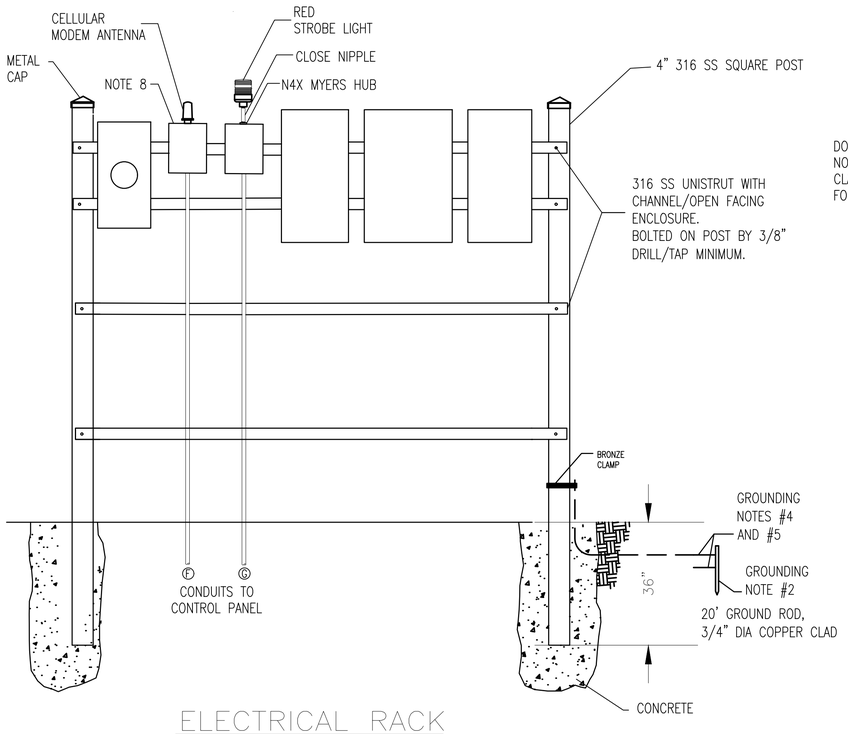
DISCRETE PLC/INPUT CIRCUIT



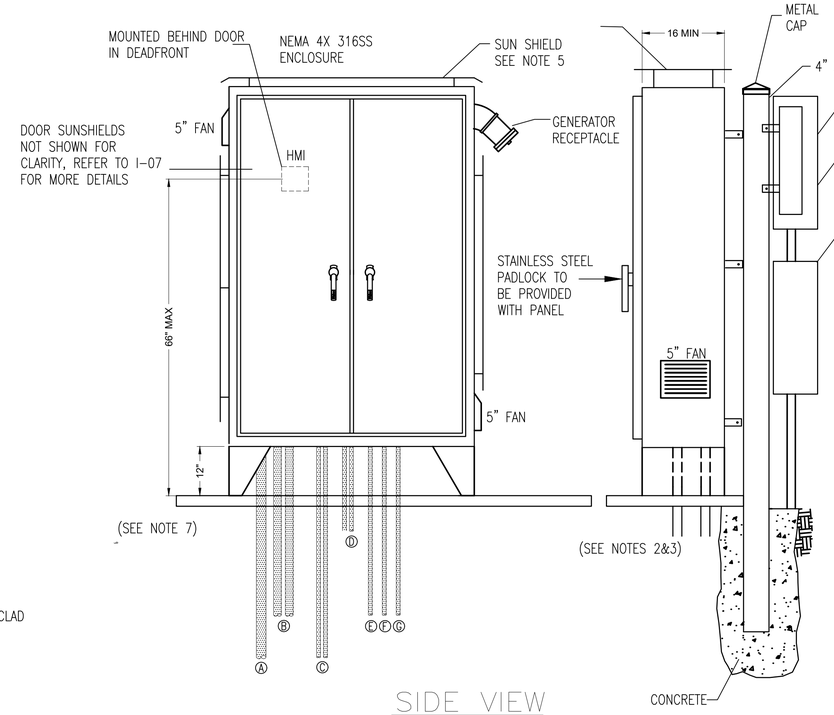
DISCRETE PLC/OUTPUT CIRCUIT

WIRING IDENTIFICATION

DETAIL	01
NTS	-



ELECTRICAL RACK



SIDE VIEW

PUMP STATION RACK LAYOUT

DETAIL	02
NTS	-

A: (1) 2" SERVICE CONDUIT FROM MAIN FUSIBLE DISCONNECT OR ATS.
B: (2) 2" MOTOR FEEDER CONDUITS (MOTOR 1 & 2) TO JUNCTION BOX.
C: (2) 1" CONDUITS (FLOAT SWITCH, FLEXIBLE TUBING, SPARE) TO JUNCTION BOX.
D: (2) 1" CONDUITS TO STEP DOWN SINGLE PHASE TRANSFORMER. APPLICABLE TO 480V, 3 PHASE SERVICE ONLY.
E: (1) 1" CONDUIT FOR STATION CONTROL PANEL GROUNDING WELDED TO GROUND ROD.
F: (1) 1" CONDUIT FOR STATION ANTENNA.
G: (1) 1" CONDUIT FOR STATION STROBE LIGHT.

NOTES:
1- STATION CONTROL PANEL. TYPICAL CONDUIT LAYOUT FOR 2 PUMPS 60 HP MAXIMUM.

2- MINIMUM DISTANCE BETWEEN CONDUITS TO BE 2".

3- MOTOR FEEDER CONDUITS TO LINE UP WITH RESPECTIVE STARTER TERMINALS.

4- SIZES SHOWN ARE MINIMUM, ADJUST SIZES AS DEEMED NECESSARY.

5- PROVIDE ALUMINUM SUNSHIELD MOUNTED ON 2" HIGH INSULATING STANDOFFS. STANDOFFS SHALL BE INSTALLED AS TO MAINTAIN THE NEMA RATING OF THE ENCLOSURE. DIMENSION AS REQUIRED BY PANEL MANUFACTURER.

6- ALL EXPOSED METAL PARTS ARE TO BE BONDED TO THE GROUND RING.

7- BOTTOM OF CONTROL PANEL TO BE ABOVE MINIMUM 2' OVER GROUND FLOOD ELEVATION AS SPECIFIED BY ENGINEER.

8- ANTENNA JUNCTION BOX MUST BE PROVIDED WITH SURGE PROTECTOR AND PATCH CABLE TO CELLULAR MODEM.

ISSUED FOR BID

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER: EVAN P. CURTIS
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FAX: 561-317-4171

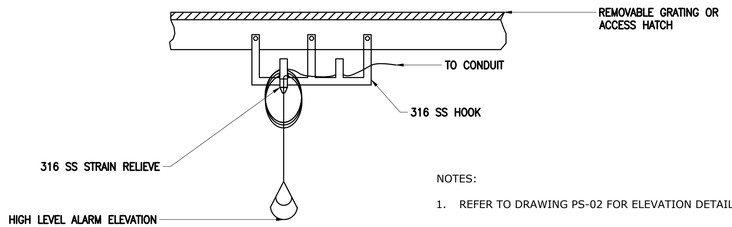
DRAWN BY: LGG | DESIGNED BY: AJM | CHECKED BY: EPC | DATE: 03/25 | SCALE: NONE | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION DETAILS - SHEET 1

SHEET NO.	SHT #
I-04	172
TOTAL:	233
CAD FILE: 12080-I04	
DRAWING FILE NO. 4-144-88	

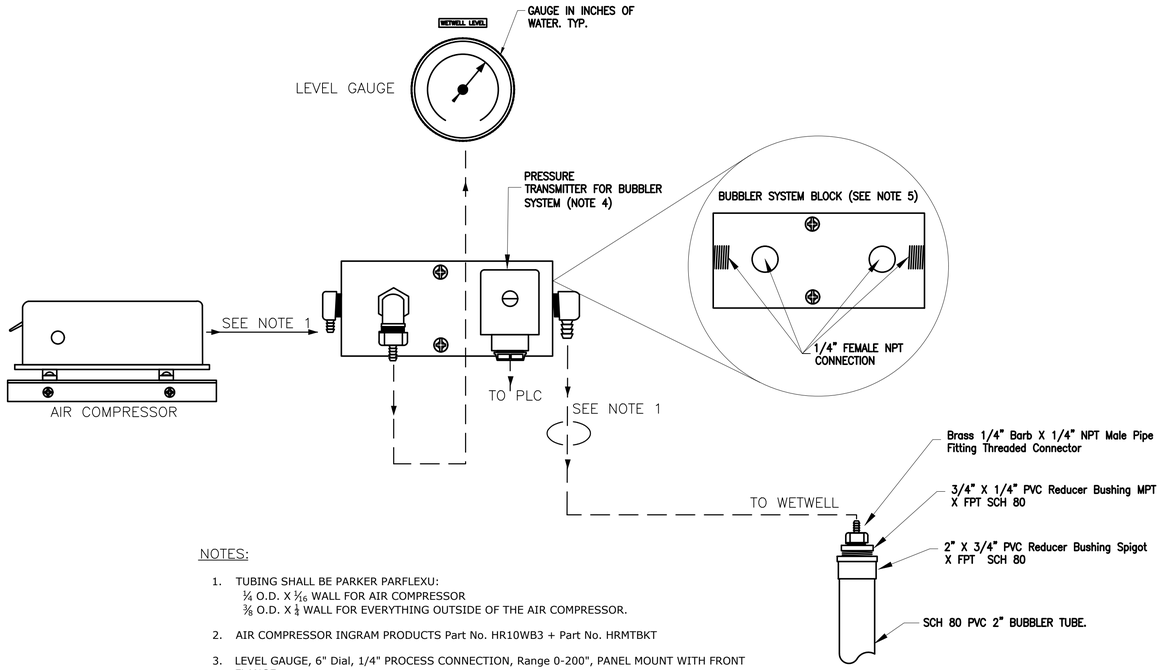


NOTES:

1. REFER TO DRAWING PS-02 FOR ELEVATION DETAILS.

SUSPENDED FLOAT SWITCH HATCH MOUNT

DETAIL	03
NTS	-



NOTES:

1. TUBING SHALL BE PARKER PARFLEXU:
   ¼ O.D. X 1/16 WALL FOR AIR COMPRESSOR
   ⅜ O.D. X ⅛ WALL FOR EVERYTHING OUTSIDE OF THE AIR COMPRESSOR.
2. AIR COMPRESSOR INGRAM PRODUCTS Part No. HR10WB3 + Part No. HRMTBKT
3. LEVEL GAUGE, 6" Dial, 1/4" PROCESS CONNECTION, Range 0-200", PANEL MOUNT WITH FRONT FLANGE.
4. TRANSMITTER 4 - 20mA 2-Wire, SS-316L Wetted Parts, 0-15 psi RANGE, +/-0.5% ACCURACY, 1/4" MALE NPT CONNECTION MANUFACTURER WIKA PN#50426397.
5. BUBBLER SYSTEM BLOCK PROVIDED BY CITY. COMPRESSOR, TRANSMITTER, LEVEL GAUGE, PIPING, TUBING AND FITTINGS AND ALL OTHER ANCILLARY COMPONENTS OF THE BUBBLER SYSTEM SHALL BE PROVIDED BY VENDOR.

BUBBLER SYSTEM DETAIL

DETAIL	04
NTS	-

DESCRIPTION	MANUFACTURER PART NUMBER
ALLEN-BRADLEY COMPACTLOGIX 5370 L2 750KB DI/AI/O CONTROLLER	ALLEN-BRADLEY 1769-L24ER-QBFC1B
16-POINT SINK/SOURCE 24V INPUT MODULE	ALLEN-BRADLEY, 1769-IQ16
ANALOG COMBINATION MODULE	ALLEN-BRADLEY, 1769-IF4XOF2
COMPACT POWER SUPPLY, OUTPUT 24-28V DC, 100W, 4A INPUT VOLTAGE 100/240V AC	PHOENIX CONTACT UNO-PS/1AC/24DC/100W PN:2902993
10 PORT-INDUSTRIAL RAIL ETHERNET SWITCH	ALLEN BRADLEY, 1783-CMS10P
END ANCHOR, USED W/ STANDARD 35MM DIN RAIL, GRAY	ALLEN BRADLEY, 1783-CMS10P
FINGER-SAFE SINGLE CIRCUIT FUSE BLOCK, NO BLOWN FUSE INDICATOR, #30 - #12 AWG, BLACK	ALLEN-BRADLEY, 1492-H6
1/2 A, FAST-ACTING GLASS BODY FUSE, 1/4IN X 1 1/4IN	LITTELFUSE, 0312.500HXP
1/32 A, FAST-ACTING GLASS BODY FUSE, 1/4IN X 1 1/4IN	LITTELFUSE 0313.031HXP
1 A, SLO-BLO GLASS BODY FUSE, 1/4IN X 1 1/4IN	LITTELFUSE 0313.001HXP
2 A, SLO-BLO GLASS BODY FUSE, 1/4IN X 1 1/4IN	LITTELFUSE 0313.002HXP
3 A, SLO-BLO GLASS BODY FUSE, 1/4IN X 1 1/4 IN	LITTELFUSE, 0313.003HXP
END BARRIER SINGLE CIRCUIT FUSE OR ISOLATION BLOCKS, BLACK	ALLEN-BRADLEY, 1492-N37
IEC 1-CIRCUIT FEED-THROUGH BLOCK, 4MM² MAX. WIRE, GRAY	ALLEN-BRADLEY, 1492-J4
END BARRIER, GRAY	ALLEN-BRADLEY, 1492-EBJ3
MINIATURE CIRCUIT BREAKER, 10 AMP RATING	ALLEN-BRADLEY, 1492-GH100
MINIATURE CIRCUIT BREAKER, 5 AMP RATING	ALLEN-BRADLEY, 1492-GH050
MINIATURE CIRCUIT BREAKER, 2 AMP RATING	ALLEN-BRADLEY, 1492-GH020
SURGE AND FILTER PROTECTION, DIN RAIL MOUNT, DATALINE UL 497B, 24V DC	ALLEN-BRADLEY, 4983-DD24
EXTERNAL MODEM ANTENNA	COMPATIBLE WITH RV-50X CELLULAR MODEM
CONTROL RELAY OCTAL 8 PIN /COIL 24VDC/ DPDT, 10 AMP RATING	ALLEN-BRADLEY, 700-HA32Z24
DIN RAIL MOUNT RELAY SOCKET SCREW TYPE, 8 PIN	ALLEN-BRADLEY, 700-HN125
ENCLOSURE BACK PANEL, WHITE	HOFFMAN
ENCLOSURE CABINET CONTINUOUS HINGE WITH 3-POINT LATCH, TYPE 4X SS316 NEMA 4X 2 DOOR	HOFFMAN (PAINTED WHITE WITH SUNSHIELDS AND RAIN HOODS FOR OUTDOOR STATIONS)
CENTER JUMPERS	ALLEN-BRADLEY, 1492-CJJ6-10
SNAP-IN MARKER CARD, WHITE	ALLEN-BRADLEY, 1492-M6X12
GROUND BAR KIT, 14 POSITION #14-4AWG	ELECTRICENTER, ECGB14
DIN RAIL 35MM ALUMINUM 1M	IDEC, BNDN-1000
PANDUCT TYPE MC METRIC NARROW SLOT WIRING DUCT, GRAY 0.97W X 2.85H IN, 2ML	PANDUIT, MC25X75IG2
WIRING DUCT COVER, 2M	PANDUIT, C25IG2
PANEL ELECTRICAL FANS	HOFFMAN, HM0916513, HN0900503 (NEMA 4X)
CONTROL CABINET OUTLET FOR MOUNTING ON DIN RAILS	PHOENIX CONTACT SD-US/SC/LA/GY - 2963860
WIRE LABELS, HEAT SHRINK WIRE LABELS	
PIN TERMINALS - BLUE	PANDUIT, FSD80-8-DSL6
PIN TERMINALS - RED	PANDUIT, FS78-8-DSL2
HMI TOUCHSCREEN 24VDC	MAPLE SYSTEM CMT2128X
YELLOW, PILOT LIGHT, LED, 24VDC	ALLEN-BRADLEY, 800FD-P0N3
RED, PILOT LIGHT, LED, 24VDC	ALLEN-BRADLEY, 800FD-P4N3
UWZ SERIES AC HOUR METERS, FLUSH MOUNT, 120 VAC	INTERMATIC, UWZ52E-120U
18" LED UNDERCABINET, WHITE + 48" POWER CORD	HALO HU1018D930P + HU105P
GFI DUAL RECEPTACLE, 20 AMP	HUBBLE GFWRST20W OR SIMMILAR
30MM SELECTOR SWITCH 3 POSITION, TYPE K, BLACK KNOB	SQUARE D, 9001KS43B/LEGENT PLAT
30MM CONTACT BLOCK 1N/O 1N/C	SQUARE D, 9001KA1
SELECTOR PADLOCK	SQUARE D, 9001K7
PANEL LIGHT SWITCH	SQUARE D, 9001SKS11BH5
MINIATURE CIRCUIT BREAKER (QOU) STANDARD, 10A, 1 POLE, 120/240 VAC, HACR RATED	SQUARE D, QOU110
MINIATURE CIRCUIT BREAKER (QOU) STANDARD, 15A, 1 POLE, 120/240 VAC, HACR RATED	SQUARE D, QOU115
MINI-CAS 102V RELAYS FOR PUMP THERMAL/SEAL FAIL PROTECTION	FLYGT MINI-CAS 120, 14-407129
PHASE MONITORING RELAY 3 PHASE 180-500 VOLT	MACROMATIC PMPU
480V THREE PHASES S-811+EATON SOFSTARTER WITH DIM. INCLUDING PROTECTIVE MODULE EMS39 AND FAN COOLING KIT	EATON S811+R10P3S
CURRENT TRANSFORMERS 10A TO 50A, 4-20MA, 24VDC	EATON EAC1420SC
POWER SUPPLY, OUTPUT 24-28V DC, 10A INPUT VOLTAGE 100/240V AC	EATON PSG240E
LIGHT STROBE	FEDERAL SIGNAL LP3P-012-048R
SIERRA WIRELESS AIRLINK CELLULAR GATEWAY	RV-50X GATEWAY
MAGNETIC SWITCH NC FOR SS ENCLOSURE	EDWARD SIGNALING
24VDC STANDARD DPDT SCREW CONNECTION TERMINAL BLOCK RELAYS	EATON XRU2D24+XRR2D24
DIN RAIL TVSS MODULE	EMMERSON SOLA, STV25K10S
DIN RAIL AC SOLA-HD OFFLINE UPS 850VA 120V	EMMERSON SDU850B W/ ETHERNET CARD
ENCLOSURE INNER DOOR ALUM (BRUSHED)	DEAD FRONT
CIRCUIT BREAKER, POWERPACT J, 3 POLE, 600VAC, 14KA, LUGS, THERMAL MAGNETIC	SQUARE D,
CIRCUIT BREAKER, POWERPACT H, 3 POLE, 600VAC, 14KA, LUGS, THERMAL MAGNETIC	SQUARE D,
CIRCUIT BREAKER, POWERPACT H, 15A, 2 POLE, 600VAC, 14KA, LUGS, THERMAL MAGNETIC	SQUARE D,
H/J-FRAME MECHANICAL INTERLOCK FOR TOGGLE HANDLE	SQUARE D, S29354
600VAC POWER DISTRIBUTION BLOCKS, SURFACE MOUNT, 3 POLE, 2 LINE, 12 LOAD 760A	SQUARE D, 9080LBA365212
600VAC POWER DISTRIBUTION BLOCKS, SURFACE MOUNT, 1 POLE, 2 LINE, 8 LOAD, 350A CU, 270A	SQUARE D, 9080LBA365212
3-POLE FUSE HOLDER, AC: 600VAC, FINGER-SAFE DESING, DIN RAIL MOUNTING	EATON BUSSMANN CHM3DNU
1A FAST ACTING MIDGET FUSE WITH 600VAC VOLTAGE RATING FOR PROTECTION OF CONTROL AND ELECTRONIC CIRCUITS.	LITTELFUSE 0BLS001.T
AIR COMPRESSOR FOR USE WITH BUBBLER TYPE LIQUID LEVEL CONTROL SYSTEMS W/MOUNTING BRACKET RANGE OF 0-15 FEET OF WATER COLUMN	INGRAM PRODUCTS PART NO. HR10WB3 + PART NO. HRMTBKT
PRESSURE GAUGE, 4" DIAL, ¼" PROCESS CONNECTION, RANGE 0-200, PANEL MOUNT WITH FRONT FLANGE	MCDANIEL CONTROLS
RECEPTACLE ASSEMBLY WITH AJ BACK BOXES AND ANGLE ADAPTERS 200A 3 PHASES 4 POLES	CROUSE-HINDS
CONTROL RELAY OCTAL 8 PIN/COIL 120VAC/DPDT, 10 AMP RATING	750XBXRM4L-120A
4G/3G MULTIBAND NO GROUND PLANE PHANTOM ANTENNA	TRA6927M3xxN

CITY STANDARDS BILL OF MATERIALS (FOR REFERENCE ONLY)

ISSUED FOR BID

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4000 HOLLYWOOD BLVD, SUITE 750N
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LIC. No. PE No. 69657
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DRAWN BY: LGG | DESIGNED BY: AJM | CHECKED BY: EPC | DATE: 03/25 | SCALE: NONE | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION DETAILS - SHEET 2

SHEET NO. I-05 | SHT # 173
TOTAL: 233
CAD FILE: 12080-I05
DRAWING FILE NO. 4-144-88

PLOT DATE: 5/27/2025 4:20 PM BY: AJIMENEZ

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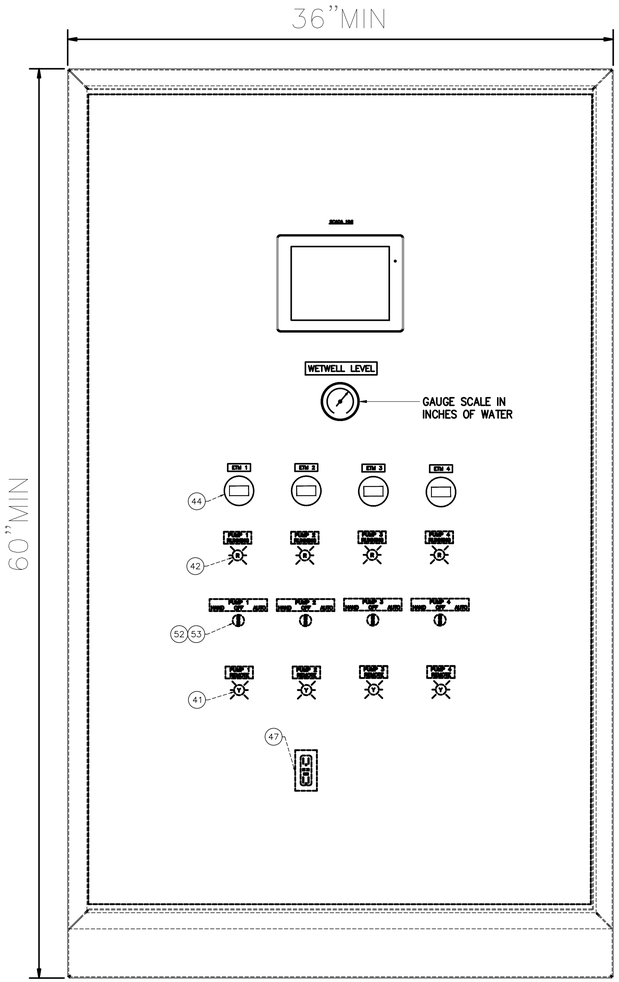
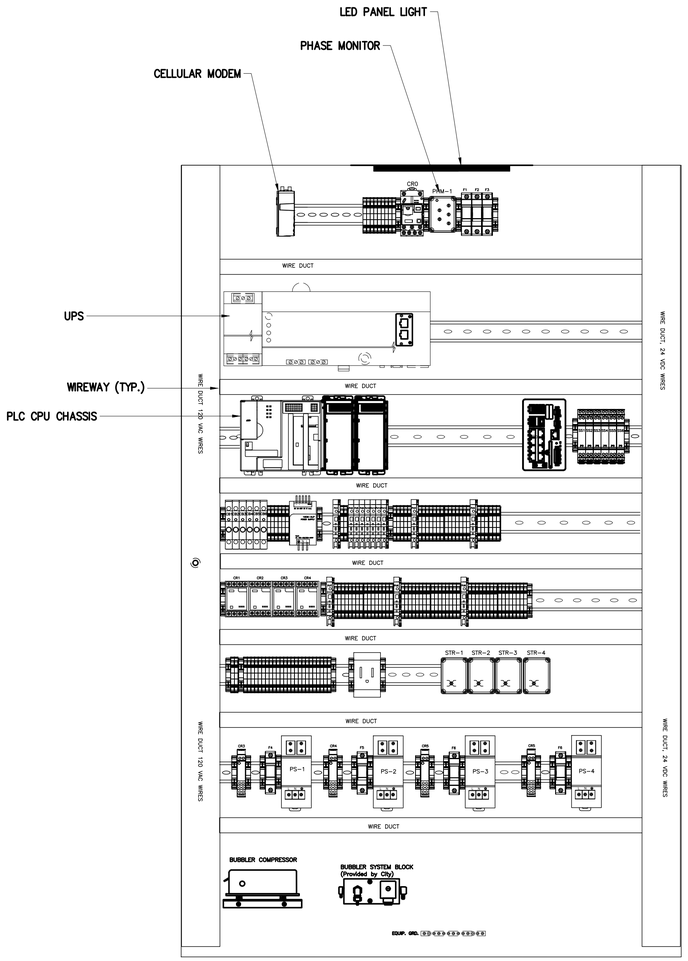


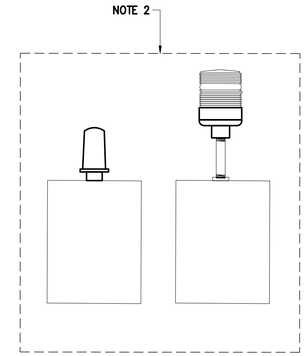
DEADFRONT VIEW (DOOR REMOVED)



SUBPLATE VIEW

NOTES:

1. CONTRACTOR SHALL MODIFY LAYOUT IF PUMP SYSTEM REQUIRES FEWER PUMPS.
2. ANTENNA AND STROBE LIGHT SHALL BE MOUNTED OUTSIDE OF BUILDING IN JUNCTION BOXES AS SHOWN BELOW. IN ADDITION, ANTENNA JUNCTION BOX, SHALL BE PROVIDED WITH SURGE PROTECTOR AND PATCH CABLE TO THE CELLULAR MODEM.



INDOOR STATION WITH EXTERNALLY MOUNTED SOFT STARTERS OR DRIVES
STORMWATER PUMP STATION LOCAL CONTROL PANEL (LCP–SSXX)
ENCLOSURE DIMENSIONS AND LAYOUT ARE FOR REFERENCE ONLY

DETAIL 05
NTS -

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

ENGINEER:
EVAN P. CURTIS
FLA. REG. PE No. 69657
DATE: 5/27/2025
TEL: 561-317-4171
FAX: 561-317-4171

DRAWN BY: LGG
DESIGNED BY: AJM
DATE: 03/25
SCALE: NONE
CHECKED BY: EPC
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

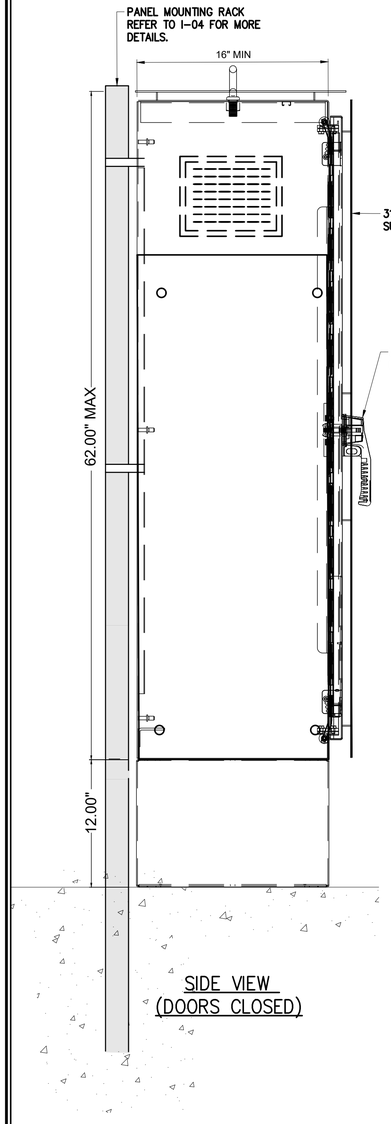
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION DETAILS - SHEET 3

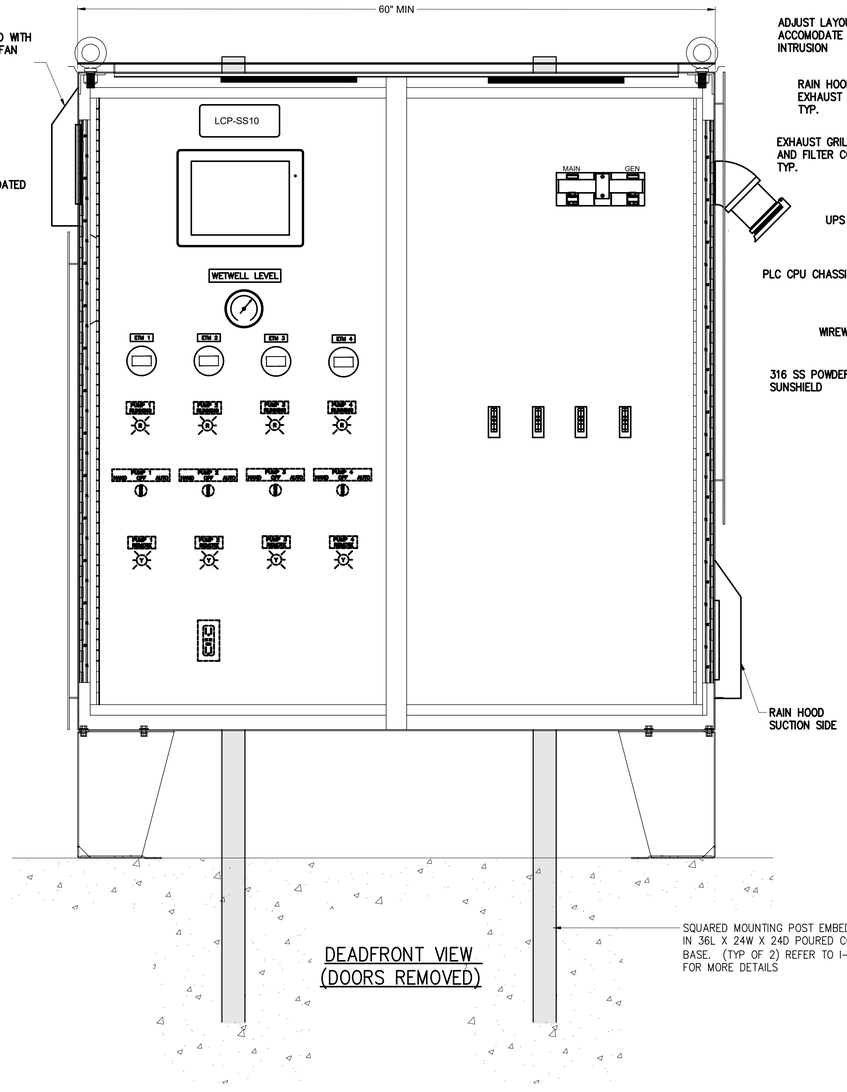
SHEET NO.	SHT #
I-06	174

TOTAL: 233
CAD FILE: 12080-I06
DRAWING FILE NO. 4-144-88

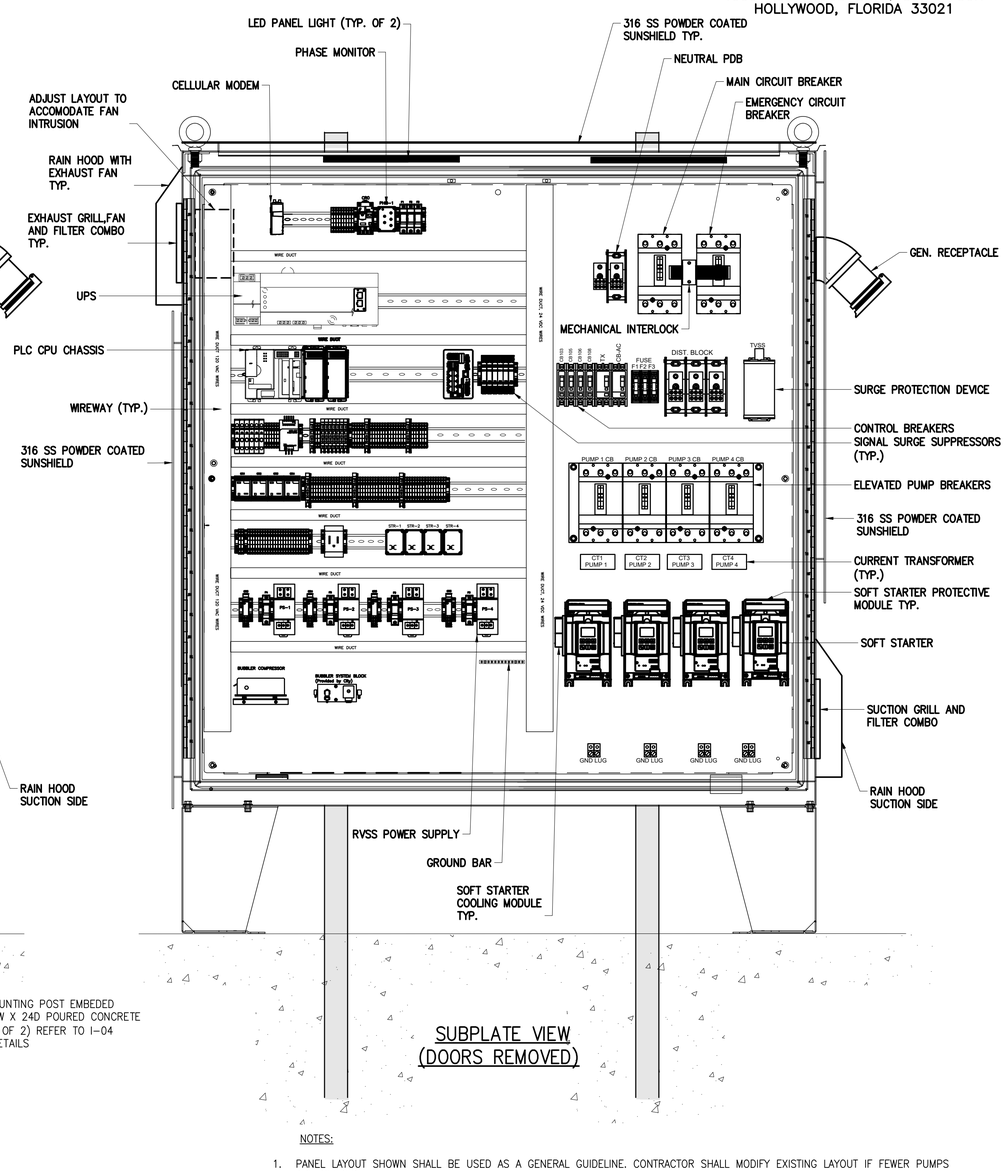
Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021



SIDE VIEW
(DOORS CLOSED)



DEADFRONT VIEW
(DOORS REMOVED)



SUBPLATE VIEW
(DOORS REMOVED)

OUTDOOR STATION WITH INTERNALLY MOUNTED SOFT STARTERS OR DRIVES
STORMWATER PUMP STATION LOCAL CONTROL PANEL (LCP-SS10)
ENCLOSURE DIMENSIONS AND LAYOUT ARE FOR REFERENCE ONLY

DETAIL	06
NTS	-

NOTES:

1. PANEL LAYOUT SHOWN SHALL BE USED AS A GENERAL GUIDELINE. CONTRACTOR SHALL MODIFY EXISTING LAYOUT IF FEWER PUMPS ARE NEEDED.
2. A TRANSFORMER SHALL BE PROVIDED FOR THE CONTROL PANEL.
3. ENCLOSURE SHALL MEET ALL REQUIREMENTS OF THE APPLICABLE DIVISIONS.
4. CONTRACTOR SHALL CAREFULLY PLAN AND EXECUTE CONDUIT STUB UP LOCATIONS AND PENETRATIONS IN BOTTOM OF ENCLOSURE. REMOVAL OF ENCLOSURE BOTTOM TO ACCOMMODATE CONDUITS IS NOT ACCEPTABLE. REFER TO I-04 FOR PLANNED SCHEDULE.
5. PANEL SHALL BEAR THE UL LABEL AND SHALL MEET UL REQUIREMENTS, INDUSTRY BEST PRACTICES AND SHALL MAKE THE MOST EFFICIENT USE OF THE AVAILABLE ENCLOSURE SPACE. IN ADDITION, PANEL MANUFACTURER SHALL COORDINATE WITH OWNER SPECIFIC REQUIREMENTS TO SATISFY OWNER PANEL LAYOUT PREFERENCES PRIOR TO SUBMITTING PANEL SHOP DRAWINGS.
6. PROVIDE HEAT LOAD CALCULATIONS THAT INCLUDE ALL HEAT SOURCES INSIDE THE ENCLOSURE. PROVIDE ENCLOSURE RAIN HOODS ALONG WITH AN INDUSTRIAL, NEMA4X RATED FAN KIT UNIT AS SHOWN TO CONTROL INTERNAL TEMPERATURE.
7. PROVIDE PANEL INTRUSION SWITCH AND WIRE TO PLC INPUT.
8. PROVIDE SWITCH TO TURN LED PANEL LIGHT(S) ON WHEN PANEL DOOR OPENS.
9. CONTROL PANEL MANUFACTURER LOGOS/LABELS MUST BE PLACED INSIDE THE CABINET. NO COMPANY ADVERTISEMENTS OR LOGOS SHALL BE VISIBLE ON THE ENCLOSURES EXTERIOR.

ISSUED FOR BID

ENGINEER:
EVAN P. CURTIS
FLA. REG. PE No. 69657
DATE: 5/27/2025
TEL: 561-317-4171
FAX: 561-317-4171

DRAWN BY: LGG
DESIGNED BY: AJM
DATE: 03/25
SCALE: NONE
CHECKED BY: EPC
FIELD BOOK:

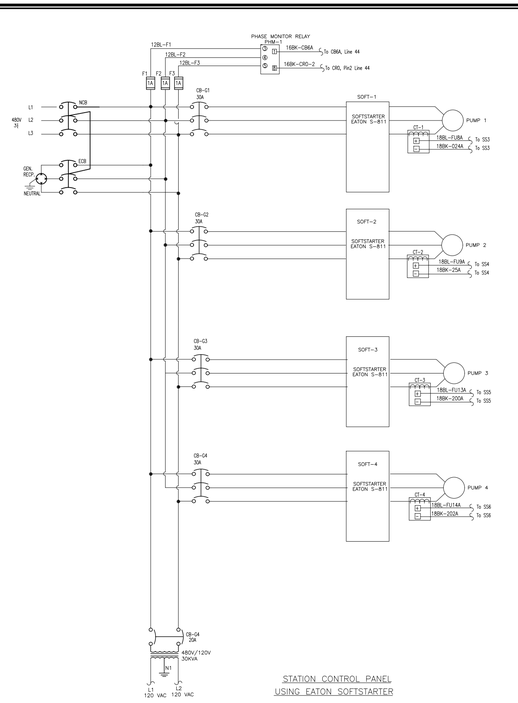
REVISIONS

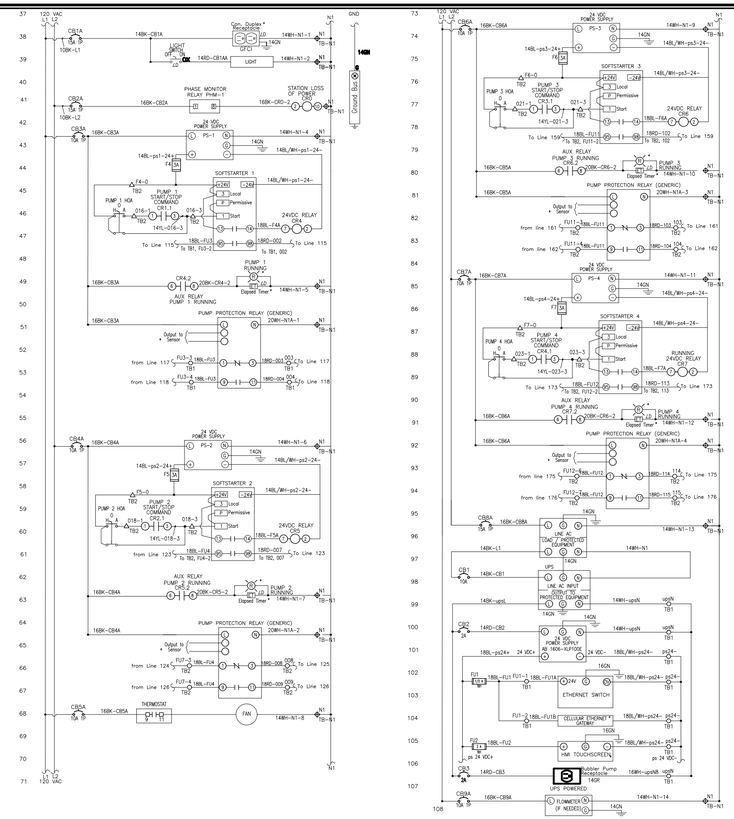
NO.	DATE	BY	CHK'D	DESCRIPTION

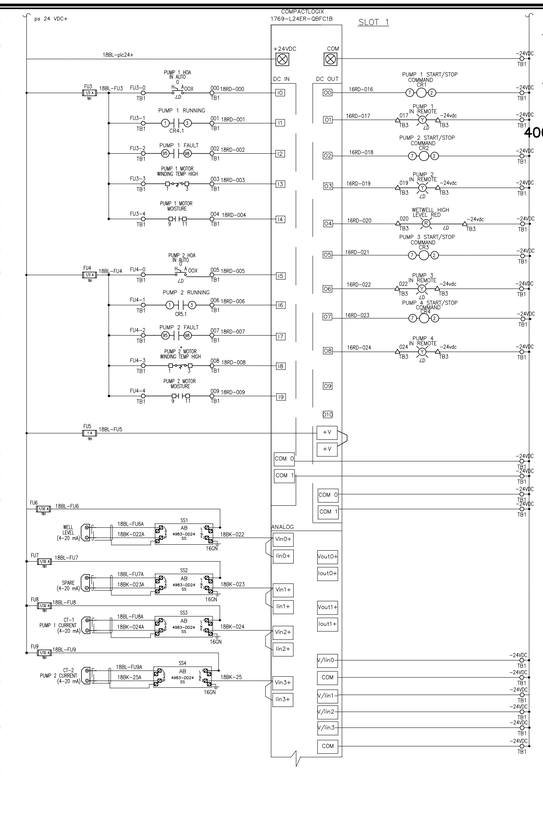
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

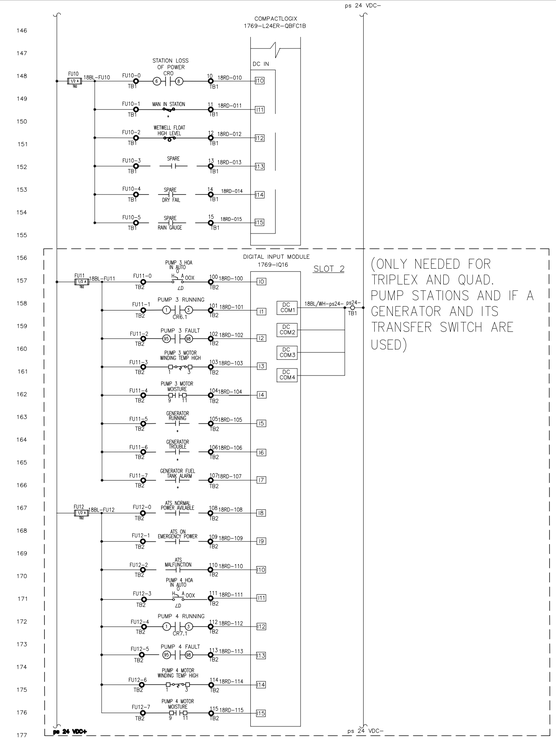
PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION DETAILS -
SHEET 4

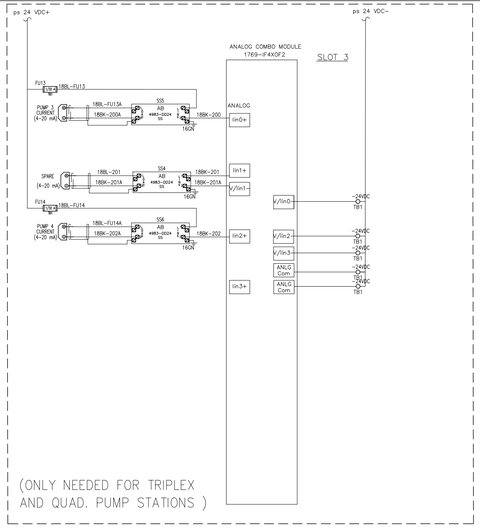
SHEET NO.	SHT #
I-07	175
TOTAL:	233
CAD FILE: 12080-I07	
DRAWING FILE NO. 4-144-88	











GENERAL ELECTRICAL NOTES:

1. FINAL COMPONENT SIZE AND SELECTION TO BE DETERMINED BY SYSTEM SUPPLIER IN COORDINATION WITH CITY.
2. SIERRA MODEL RV-50X CELLULAR RADIO TO BE PROVIDED BY VENDOR AND CONFIGURED BY CITY.
3. PUMP SEAL FAIL RELAY. IF NEEDED AS PER SPEC OF PUMP MANUFACTURER.
4. ∠D DENOTES DEVICE MOUNTED ON PANEL DOOR.
5. WIRING GUIDE: 18BL-FU1
   - WIRE NUMBER (CHARACTERS TO RIGHT OF DASH ONLY)
   - WIRE COLOR
   - WIRE GAUGE IN AWG
6. * DENOTES COMPONENT MOUNTED OUTSIDE CONTROL PANEL
7. — — DENOTES FIELD WIRING OUTSIDE CONTROL PANEL
   - ⬡ TB1 Terminal Block
   - ○ TB2 Terminal Block
   - △ TB3 Terminal Block
   - ⊕ TB2A Terminal Block
   - ◇ TB3A Terminal Block

GENERAL NOTES

1. CONTROL WIRING TERMINATIONS SHALL BE MADE WITH A PANDUIT FERRULE THAT IS APPROPRIATE FOR THE GAUGE OF THE CONDUCTOR
2. TO TERMINATE TWO CONDUCTORS ON ONE TERMINAL BLOCK A TWIN FERRULE SHALL BE USED TO ACCOMMODATE THE TWO WIRES.
3. FOR WIRE LABELS: ONLY PRINT THE WIRE NUMBER (CHARACTERS TO THE RIGHT OF DASH).
   18BL-FU1
   - WIRE NUMBER (PRINTED ON LABEL)
   - WIRE COLOR (DO NOT PRINT ON LABEL)
   - WIRE GAUGE IN AWG (DO NOT PRINT ON LABEL)

STORMWATER PUMP STATION LOCAL CONTROL PANEL (LCP-SSXX) WIRING SCHEMATICS ARE FOR REFERENCE ONLY

DETAIL	07
NTS	-

ISSUED FOR BID

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4000 HOLLYWOOD BLVD, SUITE 750N
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ENGINEER: BRIAN P. CURTIS
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DRAWN BY: LGG
DATE: 03/25
DESIGNED BY: AJM
SCALE: NONE
CHECKED BY: EPC
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
STORMWATER IMPROVEMENTS
VICTORIA PARK NEIGHBORHOOD
INSTRUMENTATION DETAILS - SHEET 5

SHEET NO.	SHT #
I-08	176
TOTAL:	233
CAD FILE: 12080-I08	
DRAWING FILE NO. 4-144-88	

PLOT DATE: 5/27/2025 4:21 PM BY: AJIMENEZ

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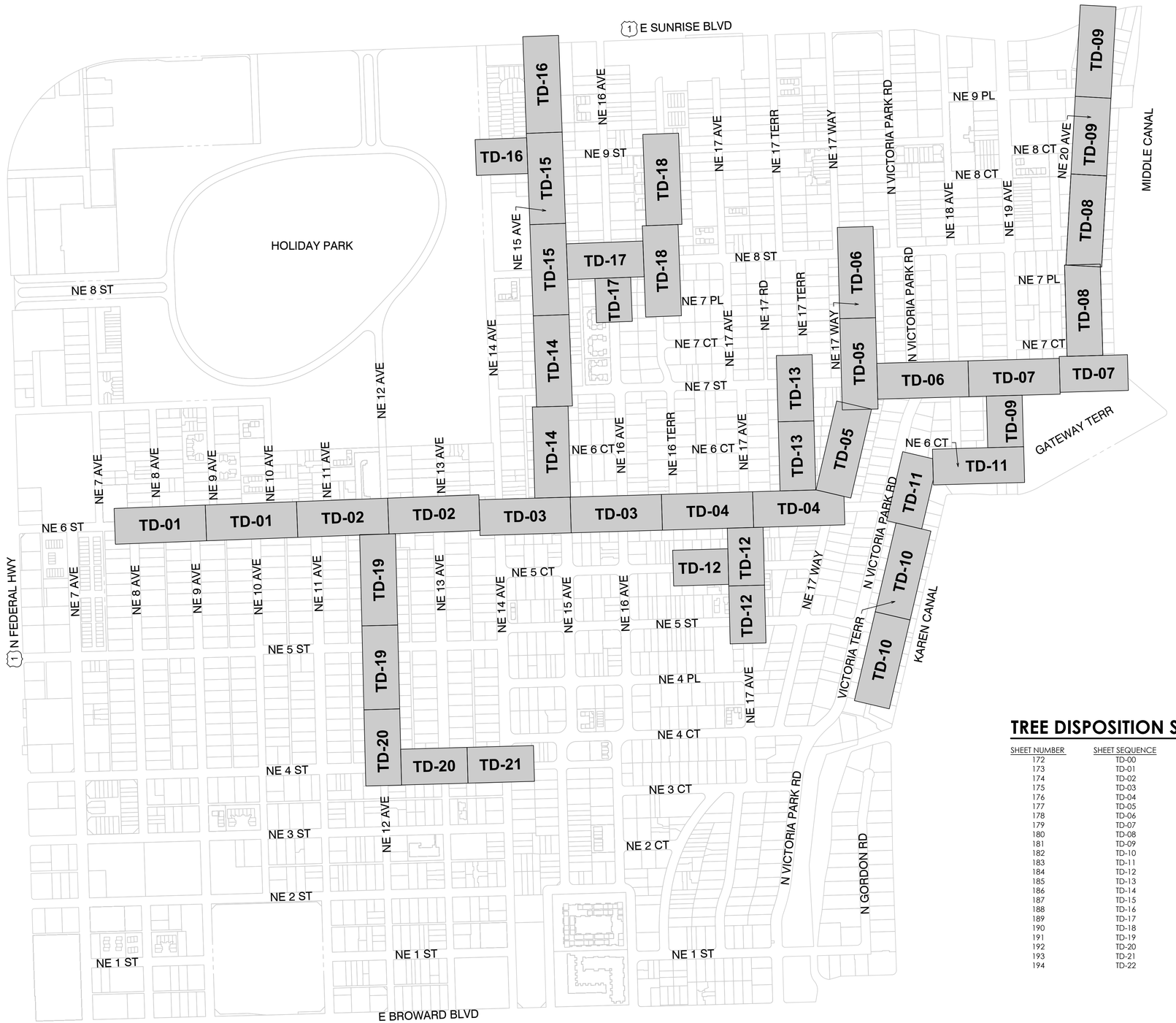

TREE DISPOSITION SHEET INDEX

SHEET NUMBER	SHEET SEQUENCE	SHEET TITLE
172	TD-00	TREE DISPOSITION KEY MAP
173	TD-01	TREE DISPOSITION PLAN
174	TD-02	TREE DISPOSITION PLAN
175	TD-03	TREE DISPOSITION PLAN
176	TD-04	TREE DISPOSITION PLAN
177	TD-05	TREE DISPOSITION PLAN
178	TD-06	TREE DISPOSITION PLAN
179	TD-07	TREE DISPOSITION PLAN
180	TD-08	TREE DISPOSITION PLAN
181	TD-09	TREE DISPOSITION PLAN
182	TD-10	TREE DISPOSITION PLAN
183	TD-11	TREE DISPOSITION PLAN
184	TD-12	TREE DISPOSITION PLAN
185	TD-13	TREE DISPOSITION PLAN
186	TD-14	TREE DISPOSITION PLAN
187	TD-15	TREE DISPOSITION PLAN
188	TD-16	TREE DISPOSITION PLAN
189	TD-17	TREE DISPOSITION PLAN
190	TD-18	TREE DISPOSITION PLAN
191	TD-19	TREE DISPOSITION PLAN
192	TD-20	TREE DISPOSITION PLAN
193	TD-21	TREE DISPOSITION PLAN
194	TD-22	TREE DISPOSITION DETAILS

Hazen
HAZEN AND SAWYER
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chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

0 300' 600'

ENGINEER: ERIC D. HARRISON
REG. No: 66671291
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | DATE: 03/25/25 | SCALE: AS SHOWN | CHECKED BY: EDH | FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

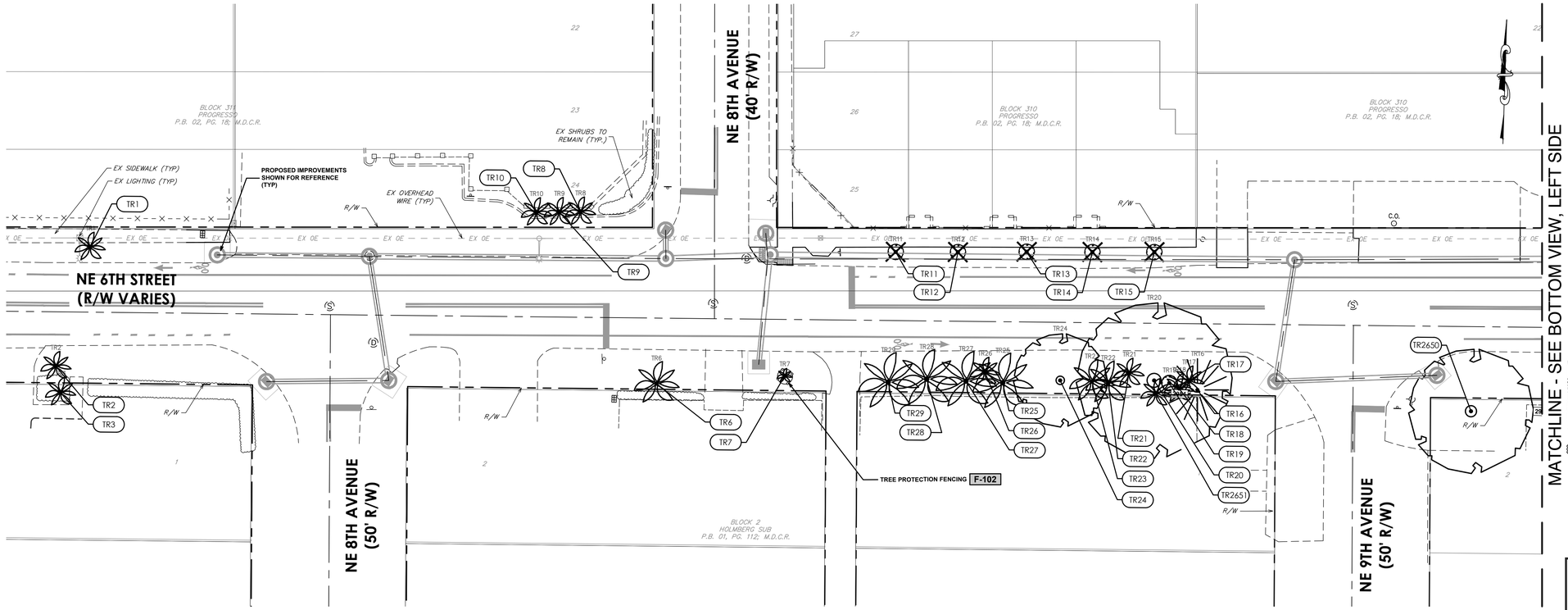
NO.	DATE	BY	CHK'D	DESCRIPTION

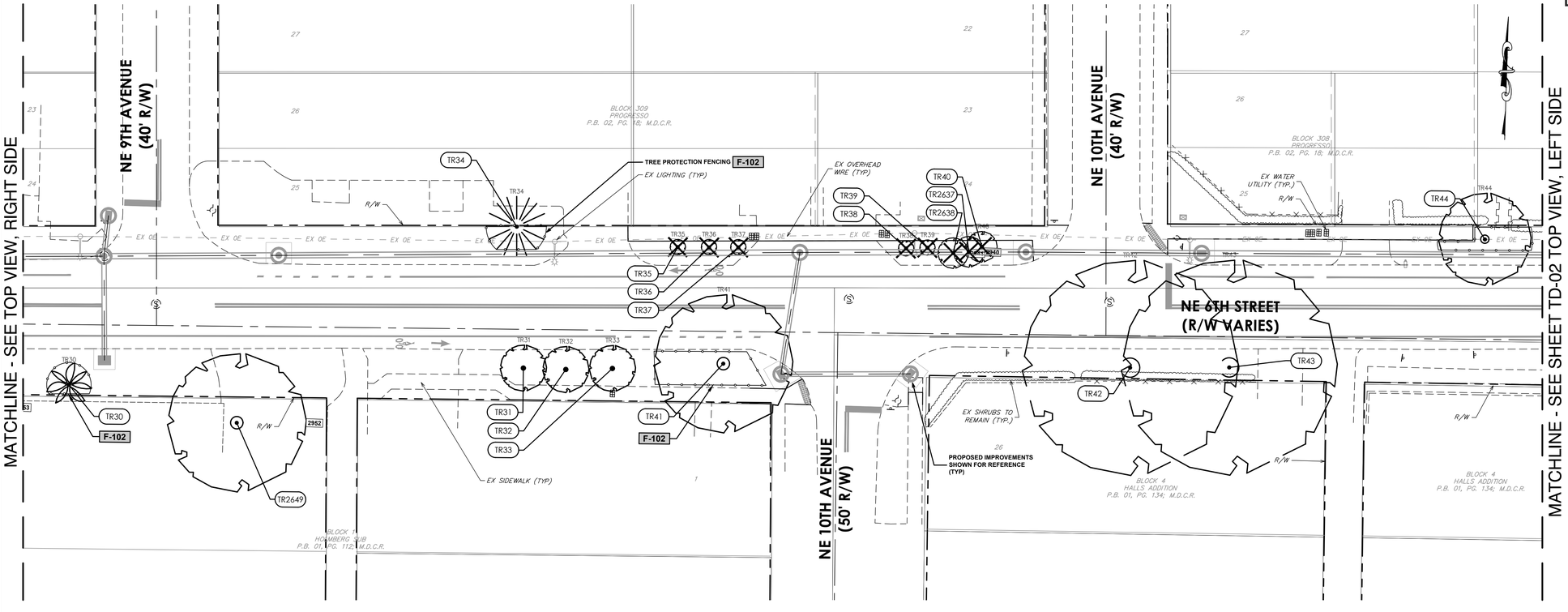
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION KEY MAP

ISSUED FOR BID

SHEET NO. TD-00 | SHT # 177
TOTAL: 233
CAD FILE: 12082-TD-00
DRAWING FILE NO. 4-144-88





0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
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Certificate of Authorization No: 2771

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
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FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:
JKC	JKC	EDH

DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

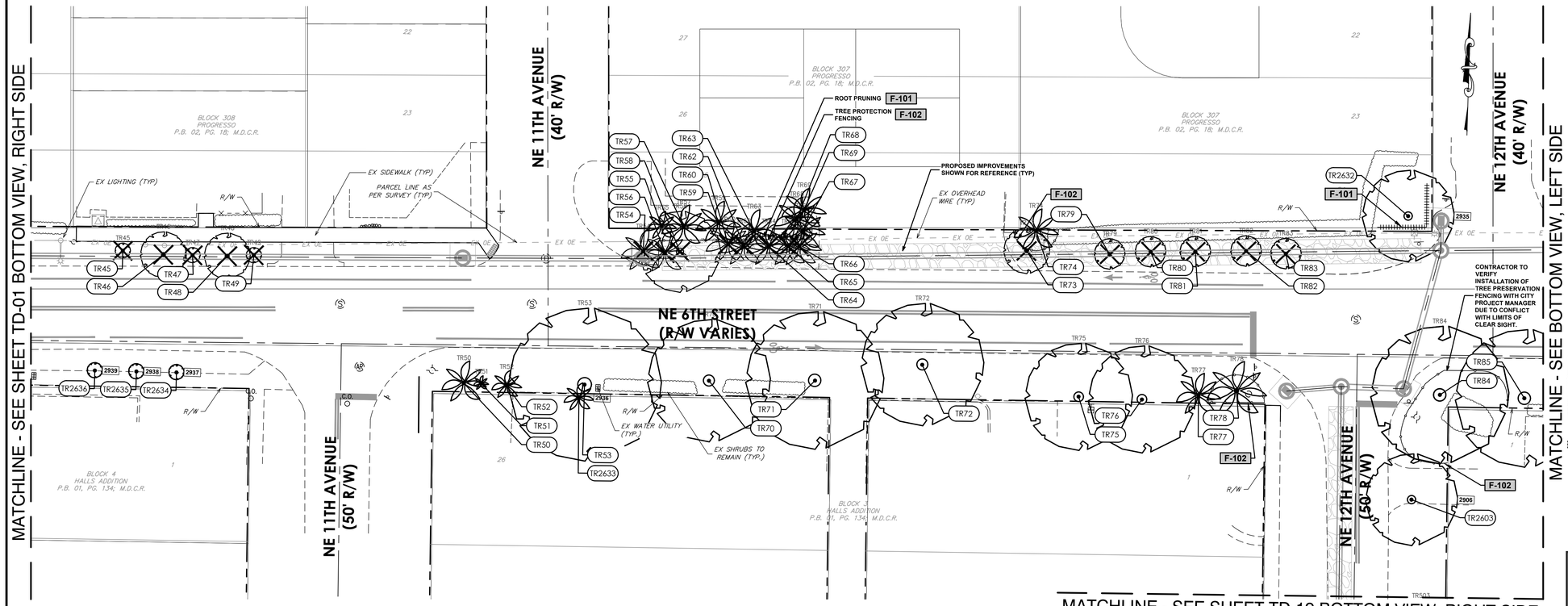
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

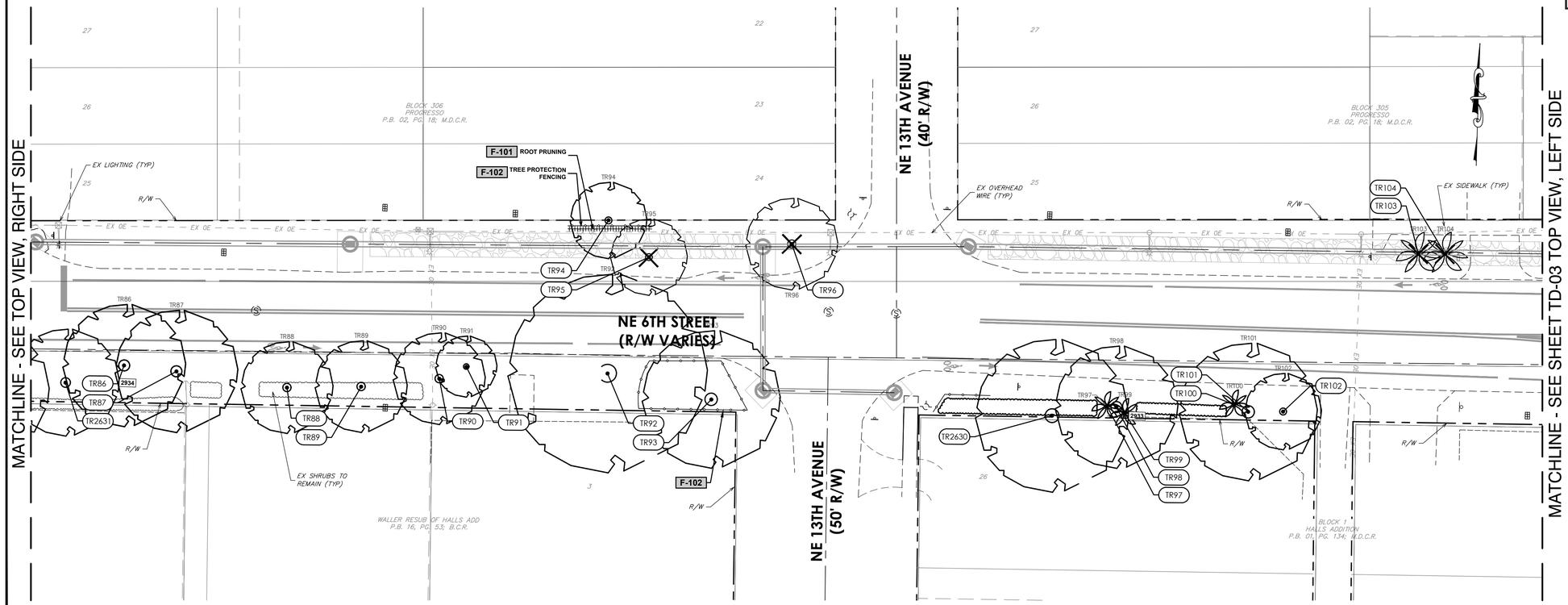
REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-01	178
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	





ISSUED FOR BID

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING (F-102)
- ROOT PRUNING (F-101)
- TREE TAG (#)

Sunshine811

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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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Certificate of Authorization No: 2771

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FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

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ENGINEERING
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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-02	179
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET TD-14 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET TD-02 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET TD-04 TOP VIEW, LEFT SIDE

NE 14TH AVENUE (40' R/W)

NE 14TH AVENUE (R/W VARIES)

NE 6TH STREET (R/W VARIES)

NE 15TH AVENUE (R/W VARIES)

NE 15TH AVENUE (60' R/W)

NE 6TH STREET (50' R/W)

NE 16TH AVENUE (R/W VARIES)

NE 16TH AVENUE (50' R/W)

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

EX OVERHEAD WIRE (TYP)

EX SIDEWALK (TYP)

EX SHRUBS TO REMAIN (TYP.)

EX LIGHTING (TYP)

F-102 TREE PROTECTION FENCING (TYP)

F-102 TREE PROTECTION FENCING

F-101 ROOT PRUNING

BLOCK 304 PROGRESSO P.B. 02, PG. 18, M.D.C.R.

UNPLATTED BLOCK

BLOCK 1 LAS OLAS PARK CORRECTED P.B. 06, PG. 12, B.C.R.

BLOCK 1 GRACELAND PARK P.B. 18, PG. 06; B.C.R.

BLOCK 2 LAS OLAS PARK CORRECTED P.B. 06, PG. 12; B.C.R.

BLOCK 1 VICTORIA PARK ADDITION P.B. 09, PG. 49; B.C.R.

BLOCK 1 GREEN'S SUBDIVISION P.B. 19, PG. 18; B.C.R.

KEY MAP

E SUNRISE BLVD · HOLIDAY PARK · N FEDERAL HWY · E BROWARD BLVD · 7 ST · 6 ST · 4 ST · 3 CT · 3 ST · 16 AVE · 17 AVE · 17 TER · 18 AVE · 9 AVE · KAREN DR · CANAL

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING — F-102
- ROOT PRUNING — F-101
- TREE TAG — #

Sunshine 811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
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Certificate of Authorization No: 2771

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LANDSCAPE ARCHITECT:
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REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

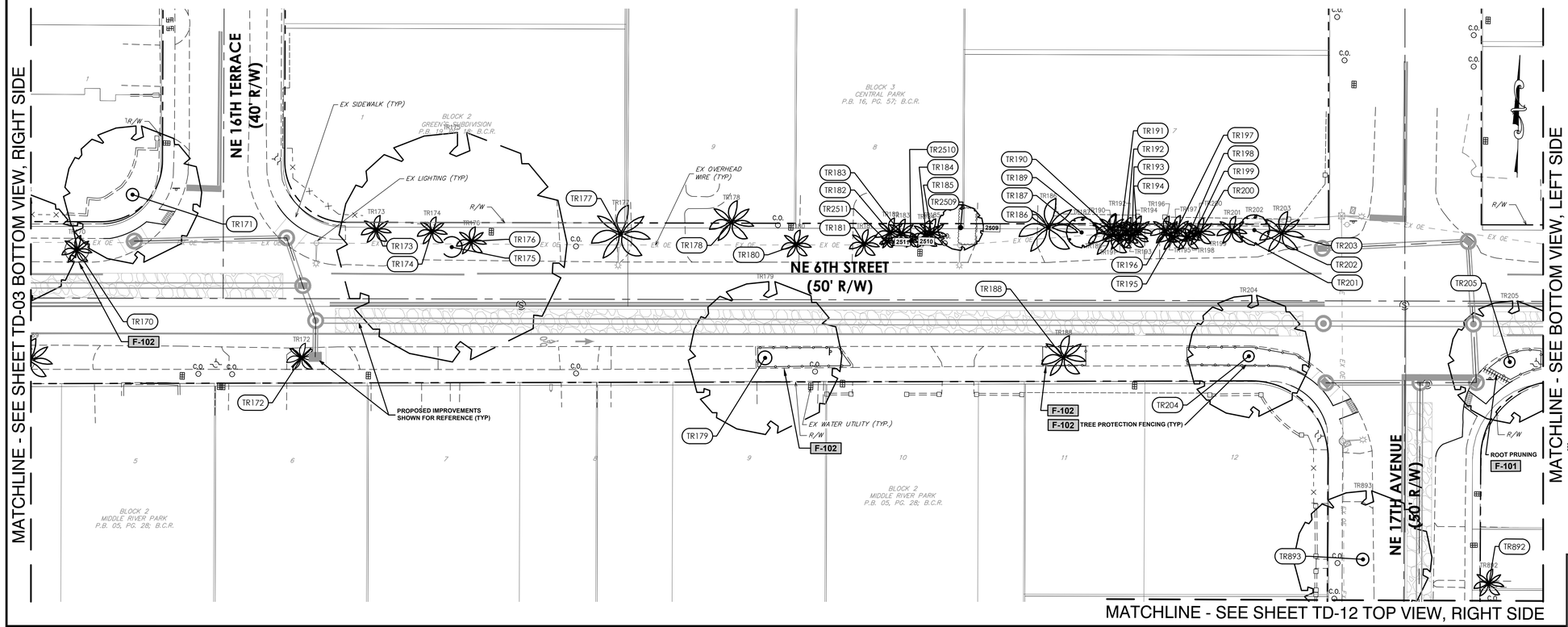
REVISIONS

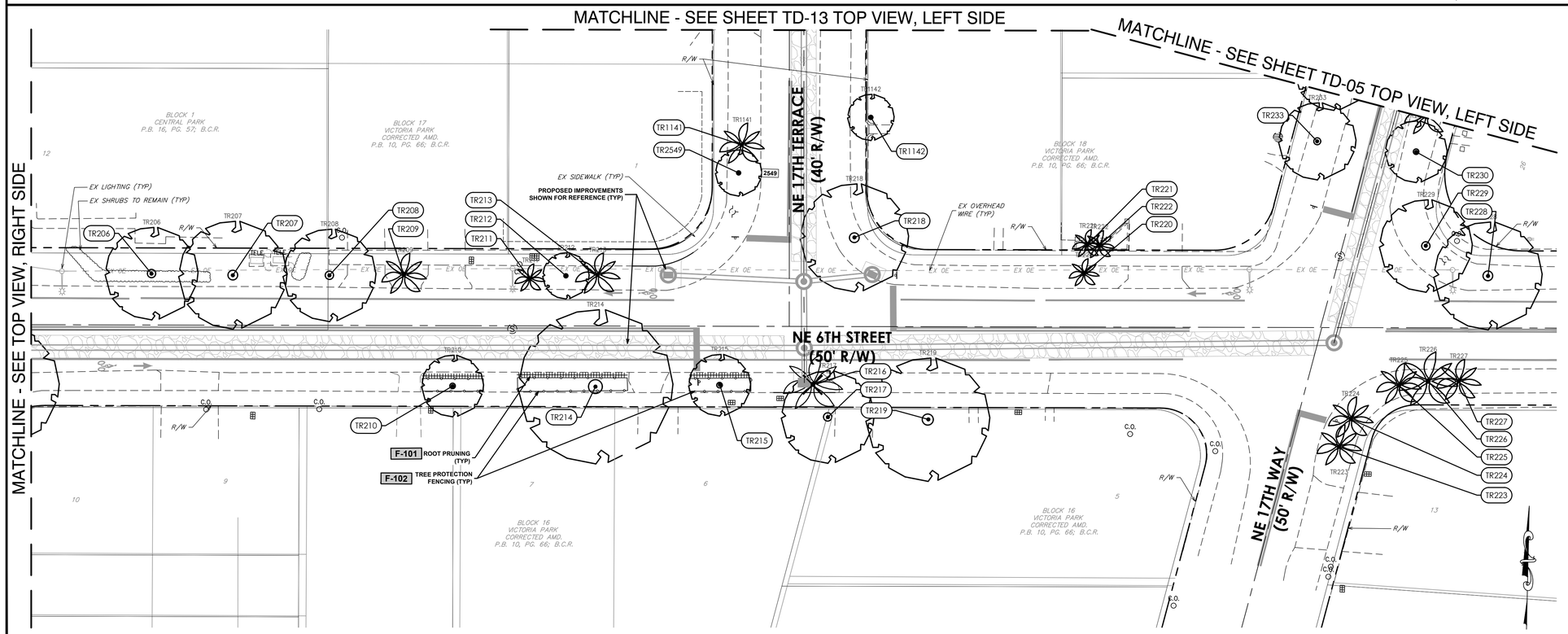
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-03	180
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	





Hazen

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Certificate of Authorization No: 2771

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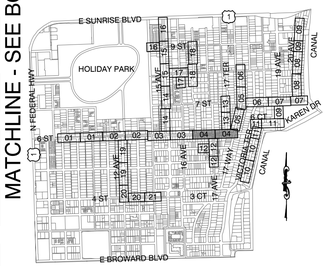
www.chenmoore.com

KEY MAP



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0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
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FAX: 954.730.2030

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	CHECKED BY:	FIELD BOOK:
JKC	03/25/25	JKC	AS SHOWN	EDH	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-04	181
TOTAL:	233

CAD FILE: 12082-MULTI-TDPL
DRAWING FILE NO. 4-144-88

MATCHLINE - SEE SHEET TD-04 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET TD-04 BOTTOM VIEW, LEFT SIDE

NE 17TH WAY (50' R/W)

EX SIDEWALK (TYP)

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

TREE PROTECTION FENCING F-102

ROOT PRUNING F-101

EX WATER UTILITY (TYP.)

R/W

BLOCK 18 VICTORIA PARK CORRECTED AMD. P.B. 10, PG. 66; B.C.R.

BLOCK 19 VICTORIA PARK CORRECTED AMD. P.B. 10, PG. 66; B.C.R.

KEY MAP

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

MATCHLINE - SEE SHEET TD-06 TOP VIEW, LEFT SIDE

MATCHLINE - SEE SHEET TD-06 TOP VIEW, RIGHT SIDE

NE 7TH STREET (50' R/W)

NE 17TH WAY (50' R/W)

TREE PROTECTION FENCING F-102

ROOT PRUNING F-101

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

EX LIGHTING (TYP)

EX OVERHEAD WIRE (TYP)

EX WATER UTILITY (TYP)

EX SIDEWALK (TYP)

BLOCK 6 VICTORIA HIGHLANDS AMD P.B. 15, PG. 09; B.C.R.

LOT 10 VICTORIA HIGHLANDS P.B. 09, PG. 47; B.C.R.

LOT 13 HIGHLANDS PG. 47; B.C.R.

BLOCK 4 VICTORIA HIGHLANDS AMD P.B. 15, PG. 09; B.C.R.

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO. TD-05
SHT # 182
TOTAL: 233
CAD FILE: 12082–MULTI–TDPL
DRAWING FILE NO. 4–144–88

MATCHLINE - SEE SHEET TD-05 BOTTOM VIEW, RIGHT SIDE

NE 17TH WAY (50' R/W)

NE 8TH STREET (50' R/W)

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

EX SIDEWALK (TYP)

EX WATER UTILITY (TYP)

ROOT PRUNING (TYP) F-101

TREE PROTECTION FENCING (TYP) F-102

MATCHLINE - SEE SHEET TD-05 BOTTOM VIEW, BOTTOM SIDE

NE 7TH STREET (50' R/W)

N VICTORIA PARK ROAD (50' R/W)

NE 18TH AVENUE (50' R/W)

MATCHLINE - SEE SHEET TD-07 TOP VIEW, LEFT SIDE

EX OVERHEAD WIRE (TYP)

R/W PER PLAT

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

cma
chen moore and associates

500 West Cypress Creek Road,
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Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	

DATE: 03/25/25

SCALE: AS SHOWN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-06	183
TOTAL:	233

CAD FILE: 12082–MULTI–TDPL

DRAWING FILE NO. 4–144–88

MATCHLINE - SEE SHEET TD-06 BOTTOM VIEW, RIGHT SIDE

NE 19TH AVENUE (50' R/W)

NE 7TH STREET (50' R/W)

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

MATCHLINE - SEE SHEET TD-09 BOTTOM RIGHT VIEW RIGHT SIDE

MATCHLINE - SEE SHEET TD-08 TOP VIEW, LEFT SIDE

NE 20TH AVENUE (50' R/W)

NE 7TH STREET (50' R/W)

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

F-102 TREE PROTECTION FENCING

F-101 ROOT PRUNING

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

EX OVERHEAD WIRE (TYP)

EX WATER UTILITY (TYP.)

EX SIDEWALK (TYP)

EX LIGHTING (TYP)

PROPOSED PUMP STATION (REFER TO CIVIL PLANS)

BLOCK 2 VICTORIA HIGHLANDS AMD P.B. 15, PG. 09; B.C.R.

BLOCK 1 VICTORIA HIGHLANDS AMD P.B. 15, PG. 09; B.C.R.

BLOCK 21 VICTORIA PARK CORRECTED AMD. P.B. 10, PG. 66; B.C.R.

BLOCK "B" STRANAHAN POINT P.B. 14, PG. 49; B.C.R.

BLOCK "A" STRANAHAN POINT P.B. 14, PG. 49; B.C.R.

KEY MAP

Sunshine811

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0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

cma
chen moore and associates
500 West Cypress Creek Road,
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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

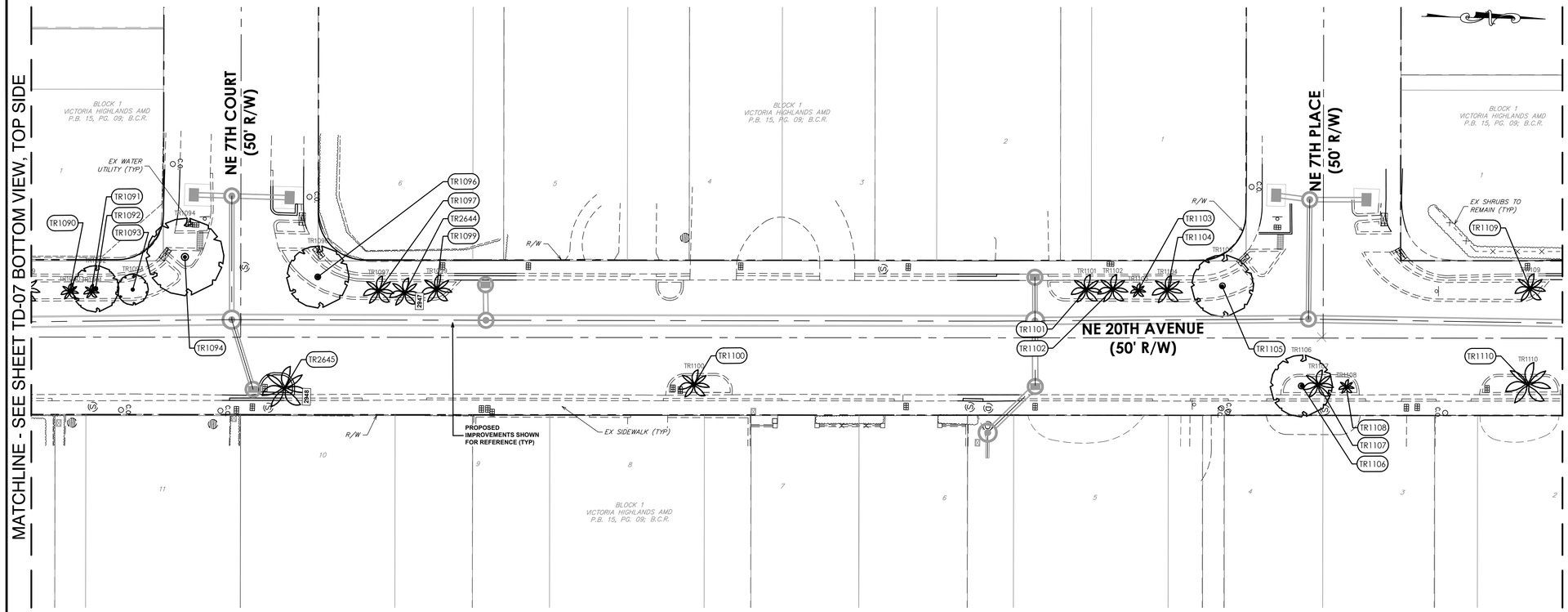
REVISIONS

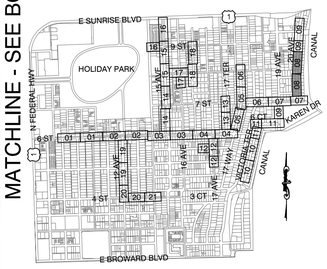
NO.	DESCRIPTION	DATE	BY	CHK'D

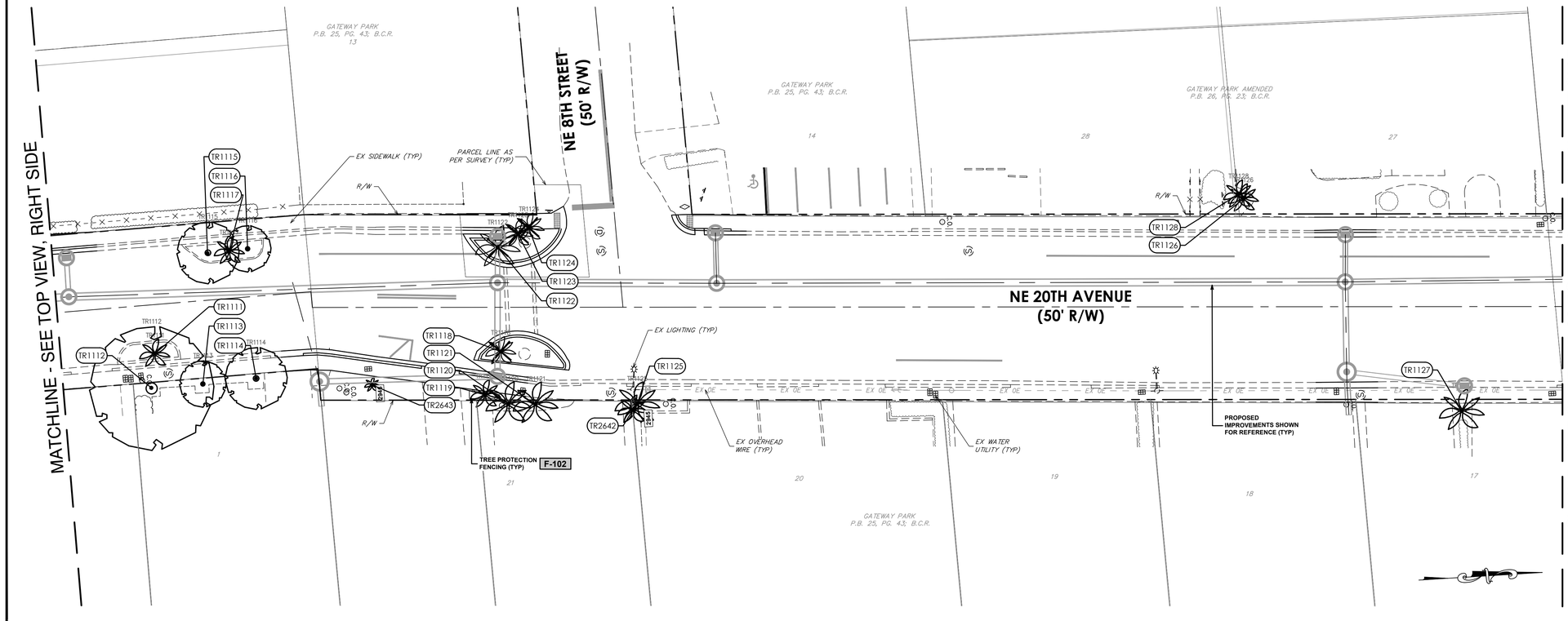
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-07	184
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	







0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

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Hazen

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	
EDH	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

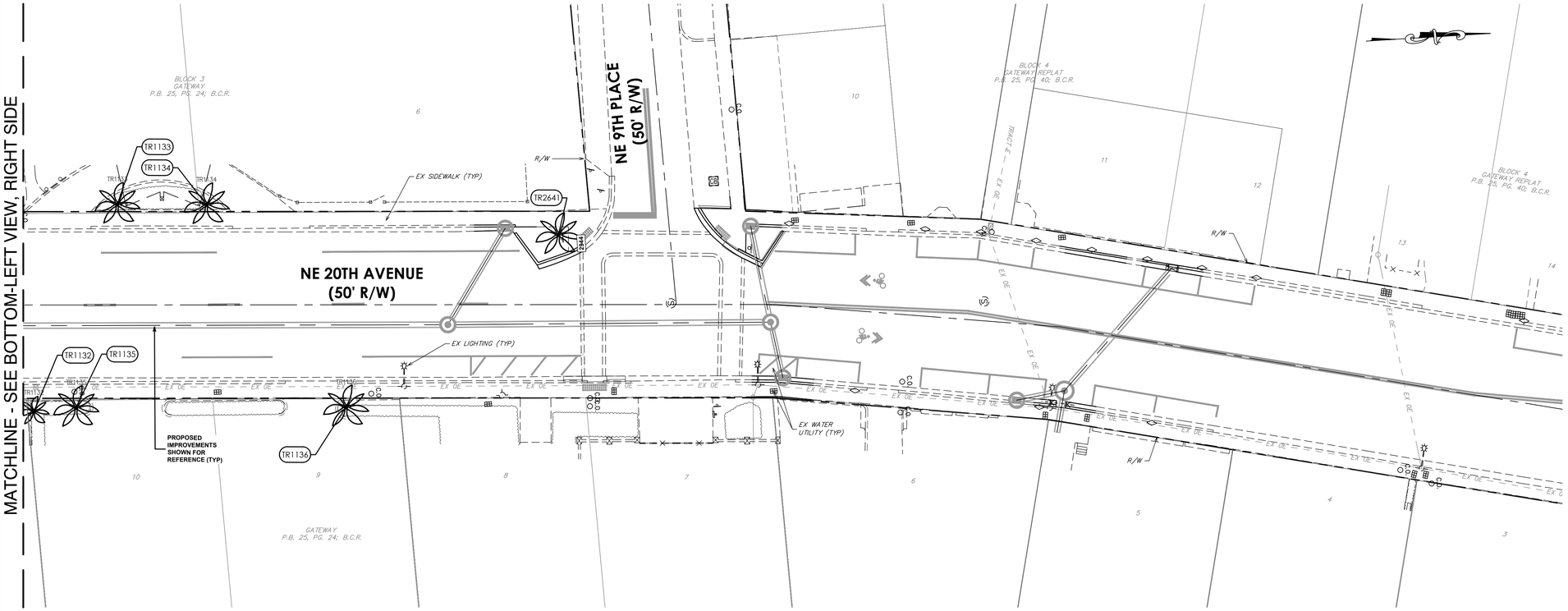
NO.	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

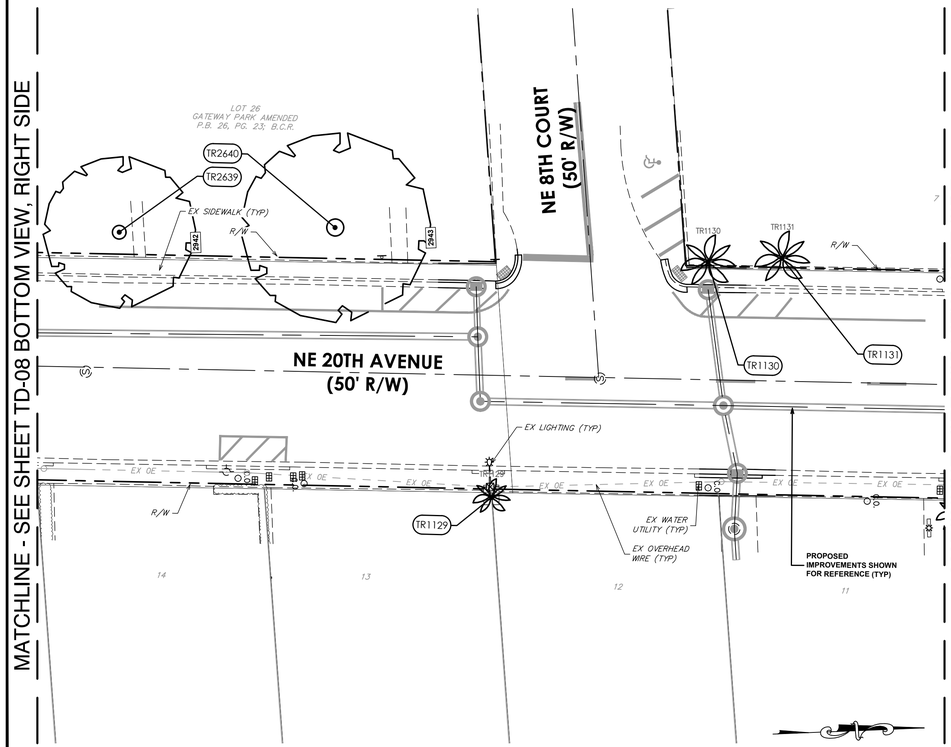
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-08	185
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	

MATCHLINE - SEE BOTTOM-LEFT VIEW, RIGHT SIDE

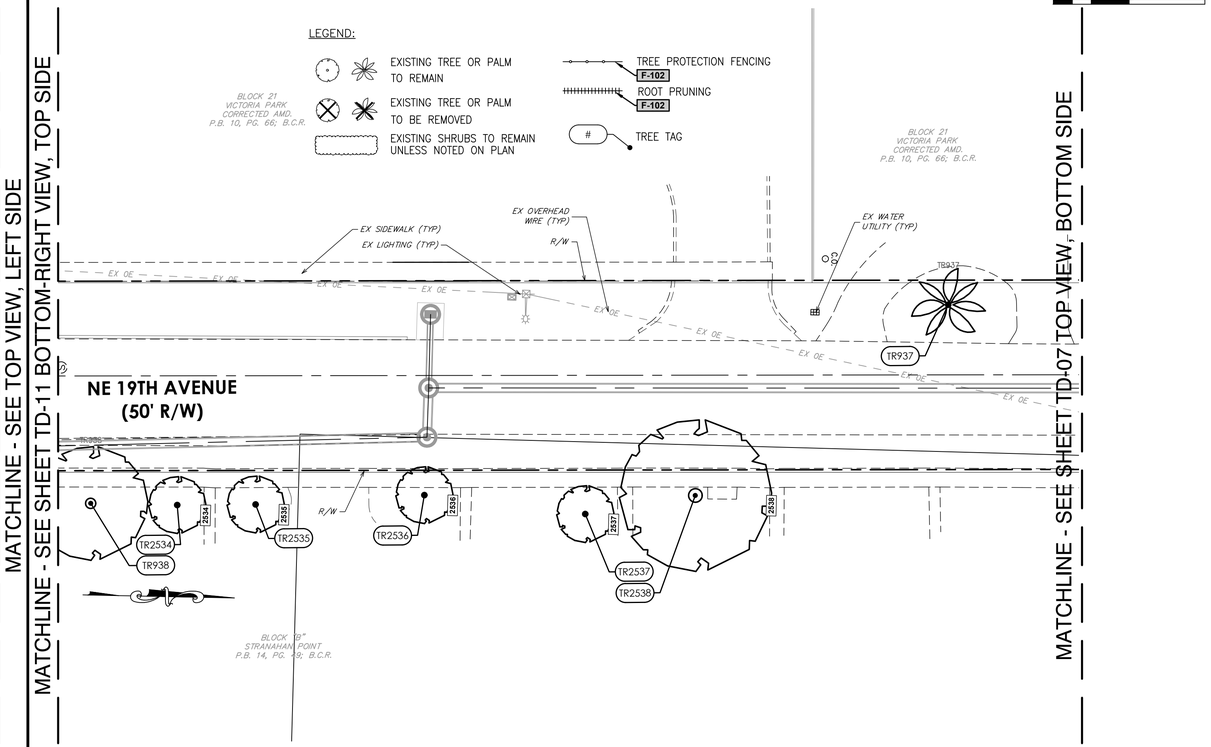


MATCHLINE - SEE SHEET TD-08 BOTTOM VIEW, RIGHT SIDE



MATCHLINE - SEE SHEET TD-11 BOTTOM-RIGHT VIEW, TOP SIDE

MATCHLINE - SEE SHEET TD-07 TOP VIEW, BOTTOM SIDE



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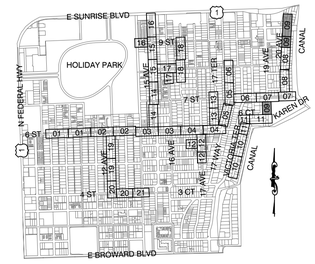

KEY MAP

Sunshine811

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	

DATE: 03/25/25
SCALE: AS SHOWN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

ISSUED FOR BID

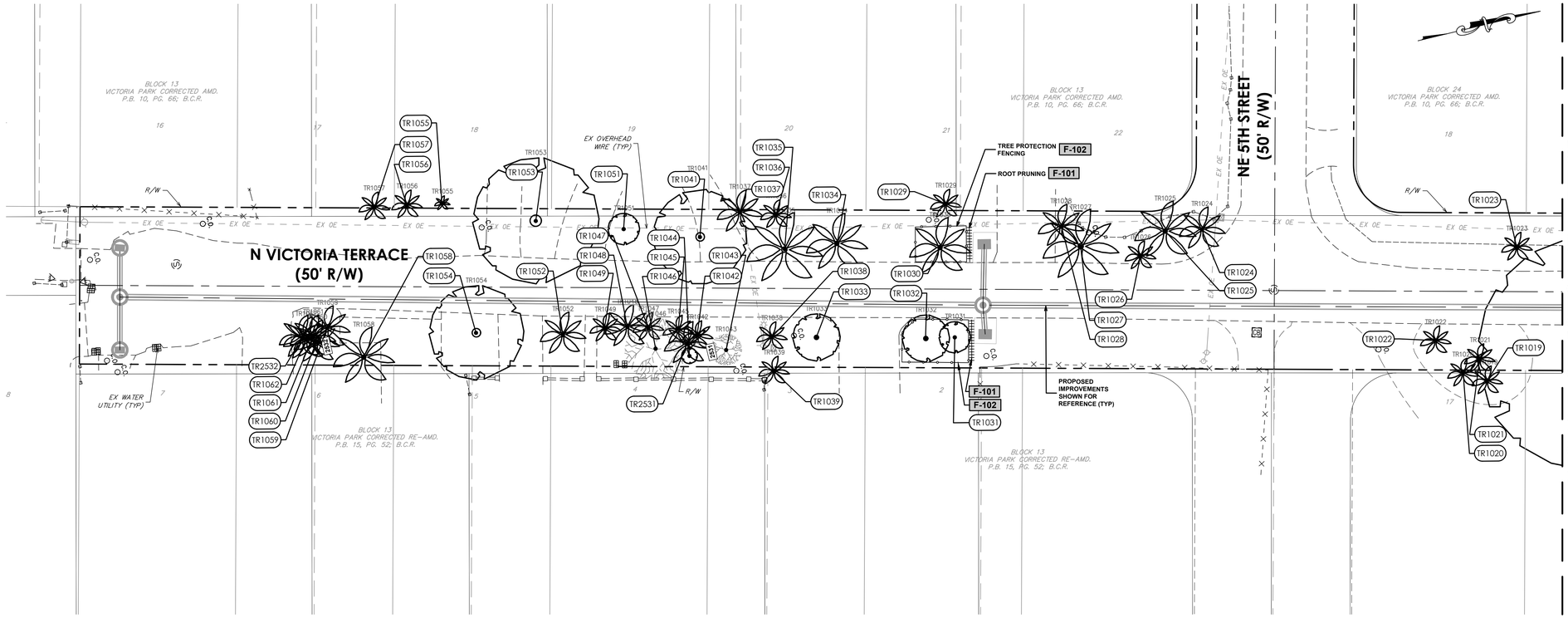
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

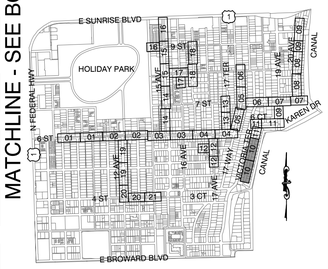
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-09	186
TOTAL:	233

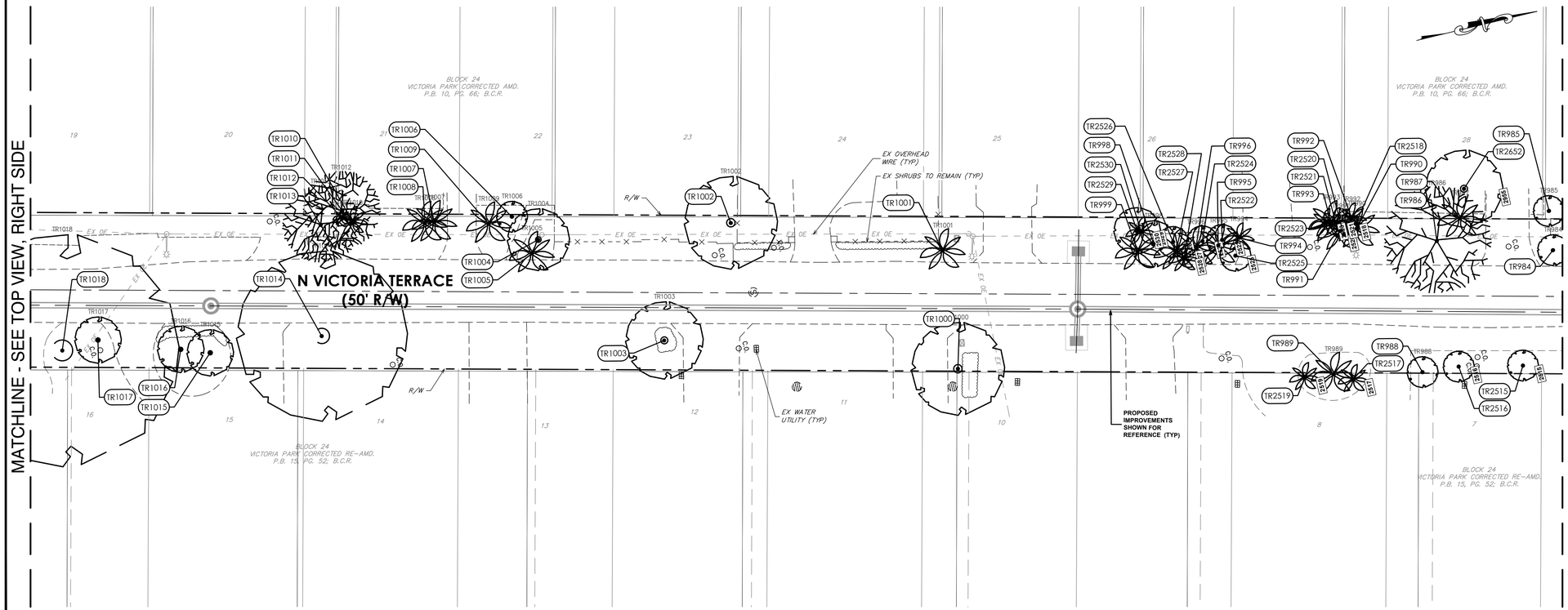
CAD FILE: 12082–MULTI–TDPL

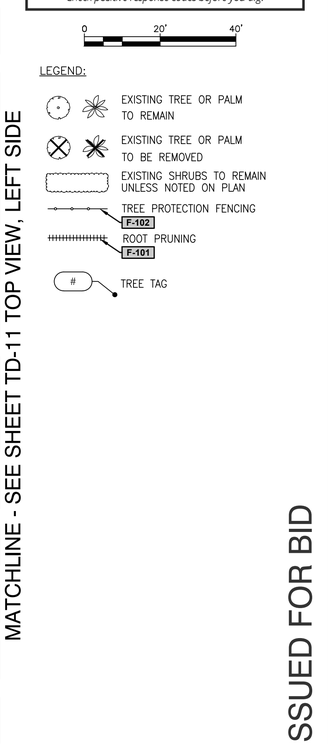
DRAWING FILE NO. 4–144–88





KEY MAP





Sunshine811

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0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
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- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
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FAX: 954.730.2030

DRAWN BY:	DATE:	SCALE:		
JKC	03/25/25	AS SHOWN		
DESIGNED BY:		CHECKED BY:		FIELD BOOK:
JKC		EDH		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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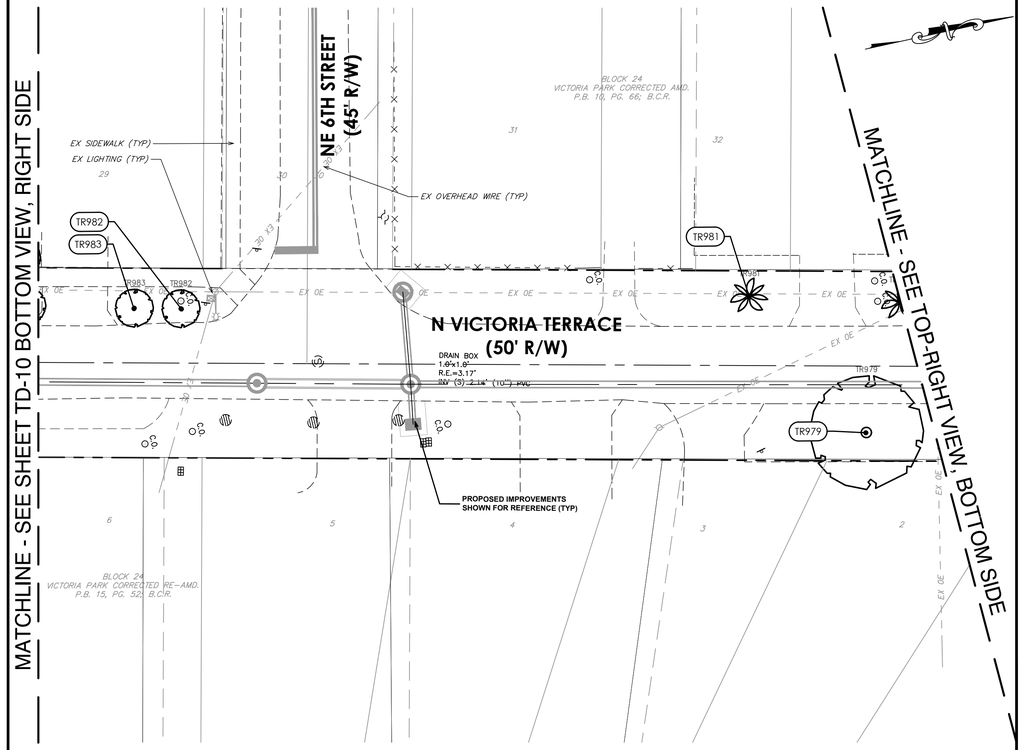
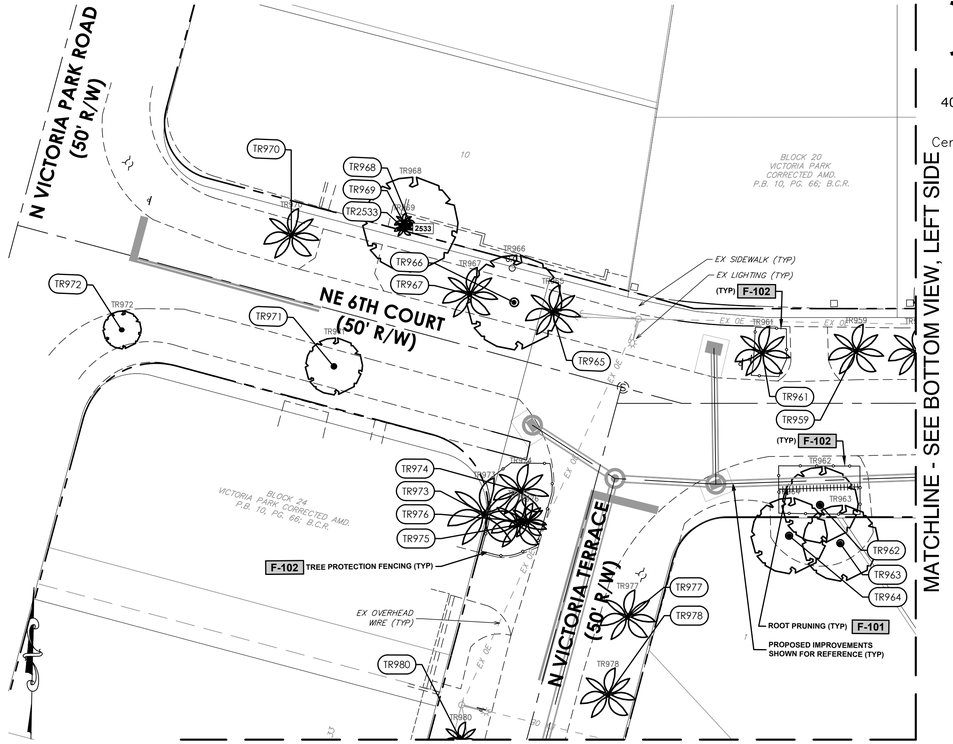
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-10	187
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	





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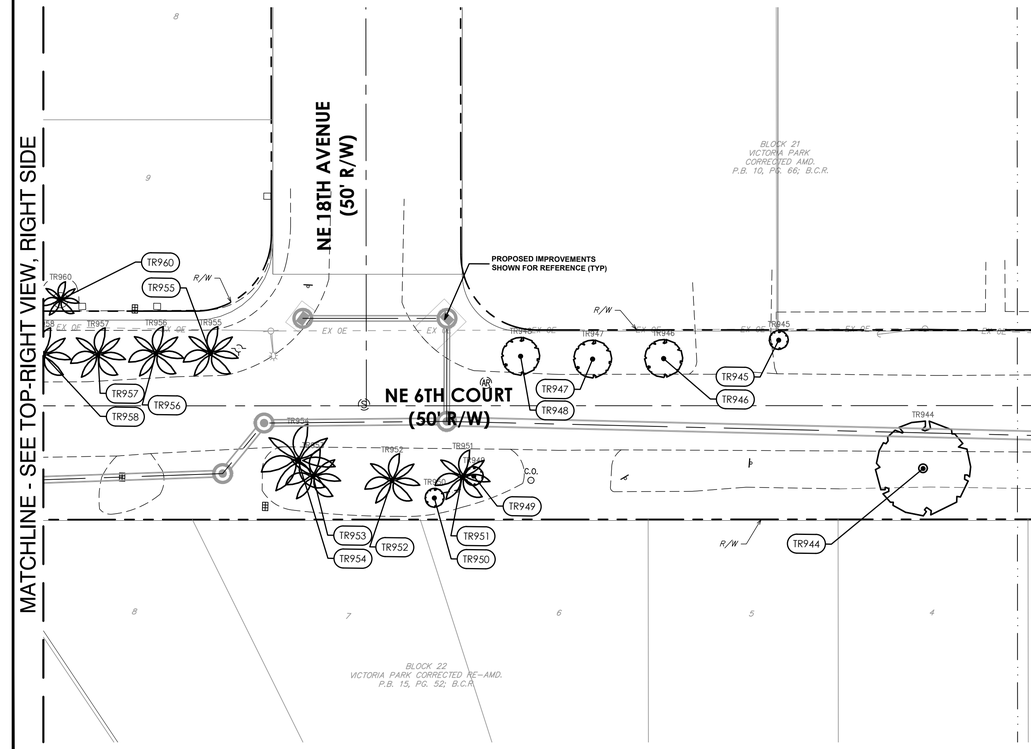
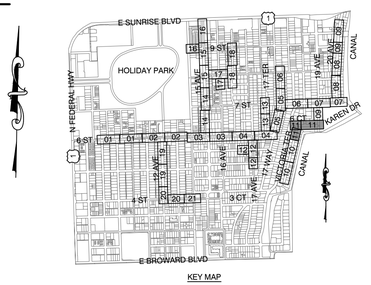
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG





0 20' 40'

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ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	
JKC	03/25/25	
DESIGNED BY:	SCALE:	
JKC	AS SHOWN	
CHECKED BY:		
EDH		
FIELD BOOK:		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

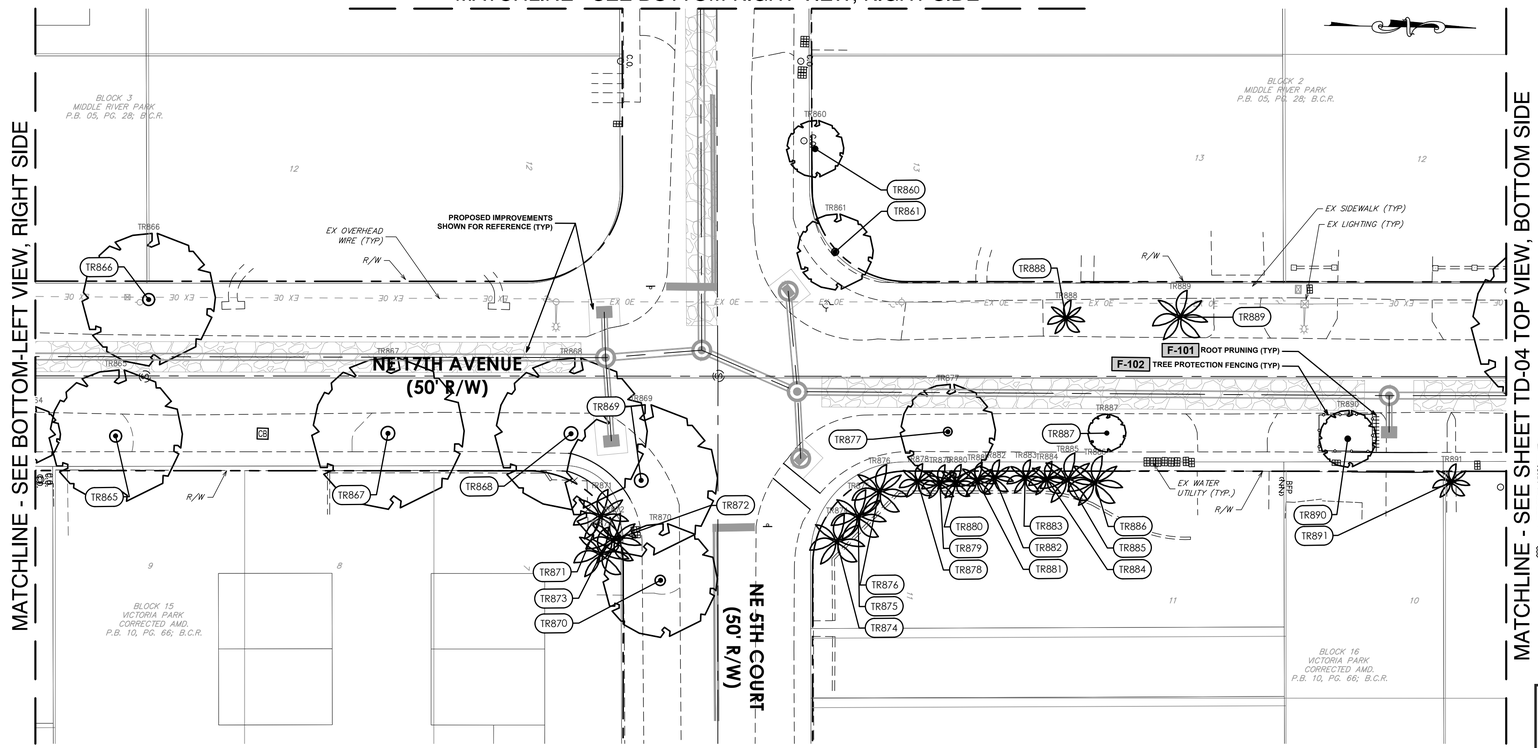
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-11	188
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE BOTTOM-RIGHT VIEW, RIGHT SIDE



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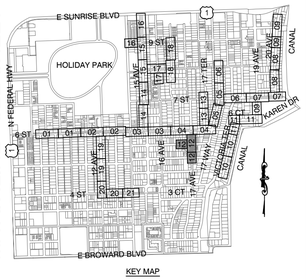

KEY MAP

Sunshine811

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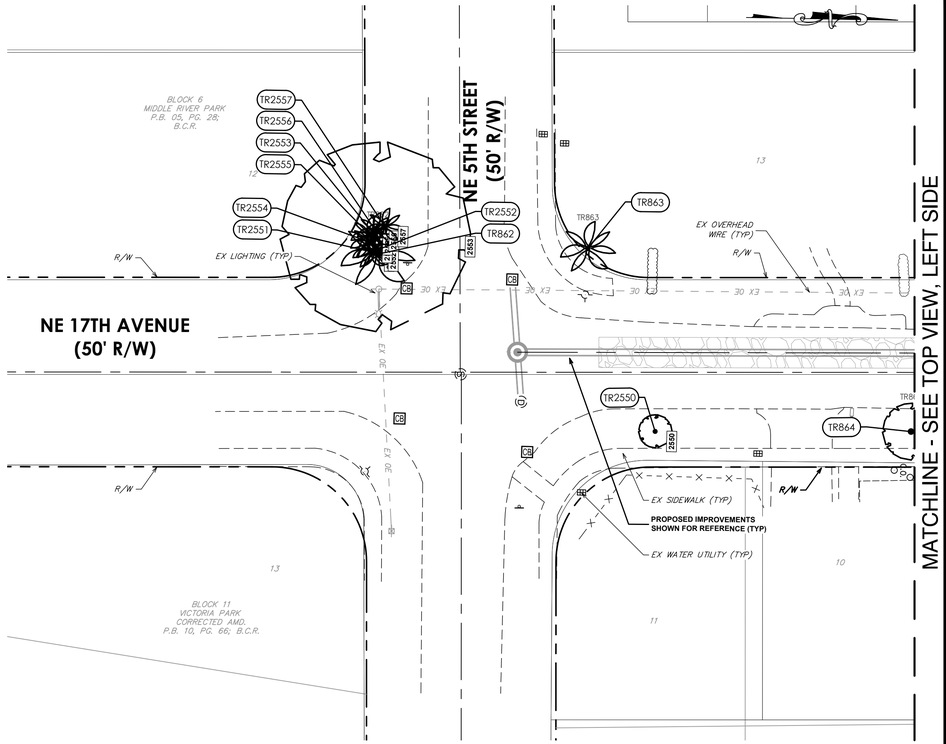

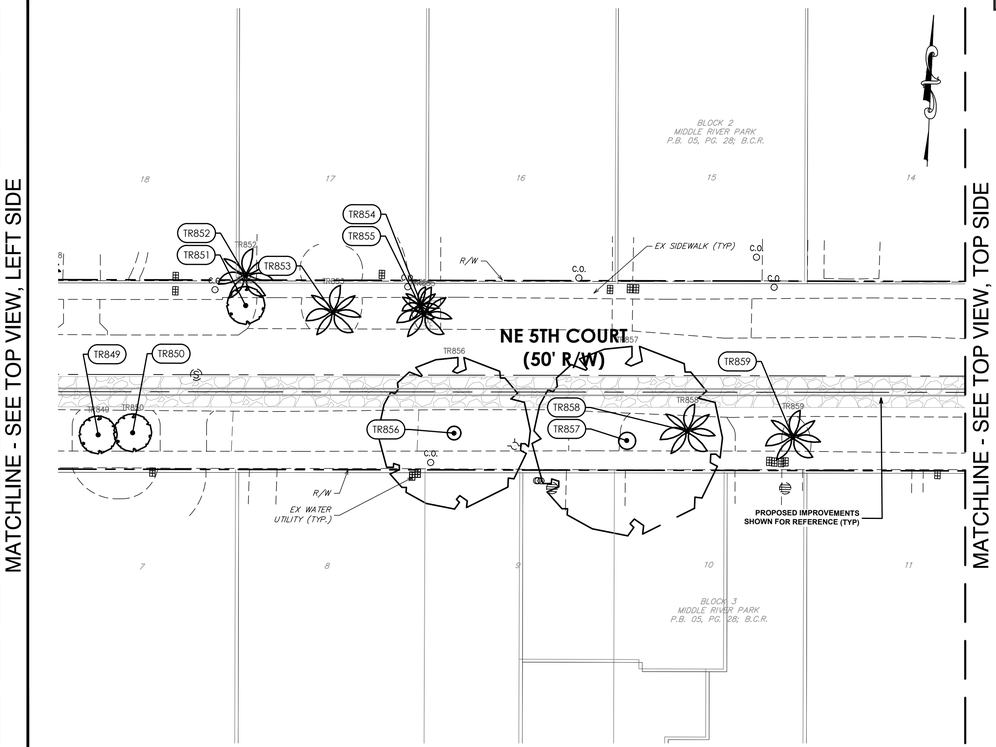

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	

DATE: 03/25/25
SCALE: AS SHOWN

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

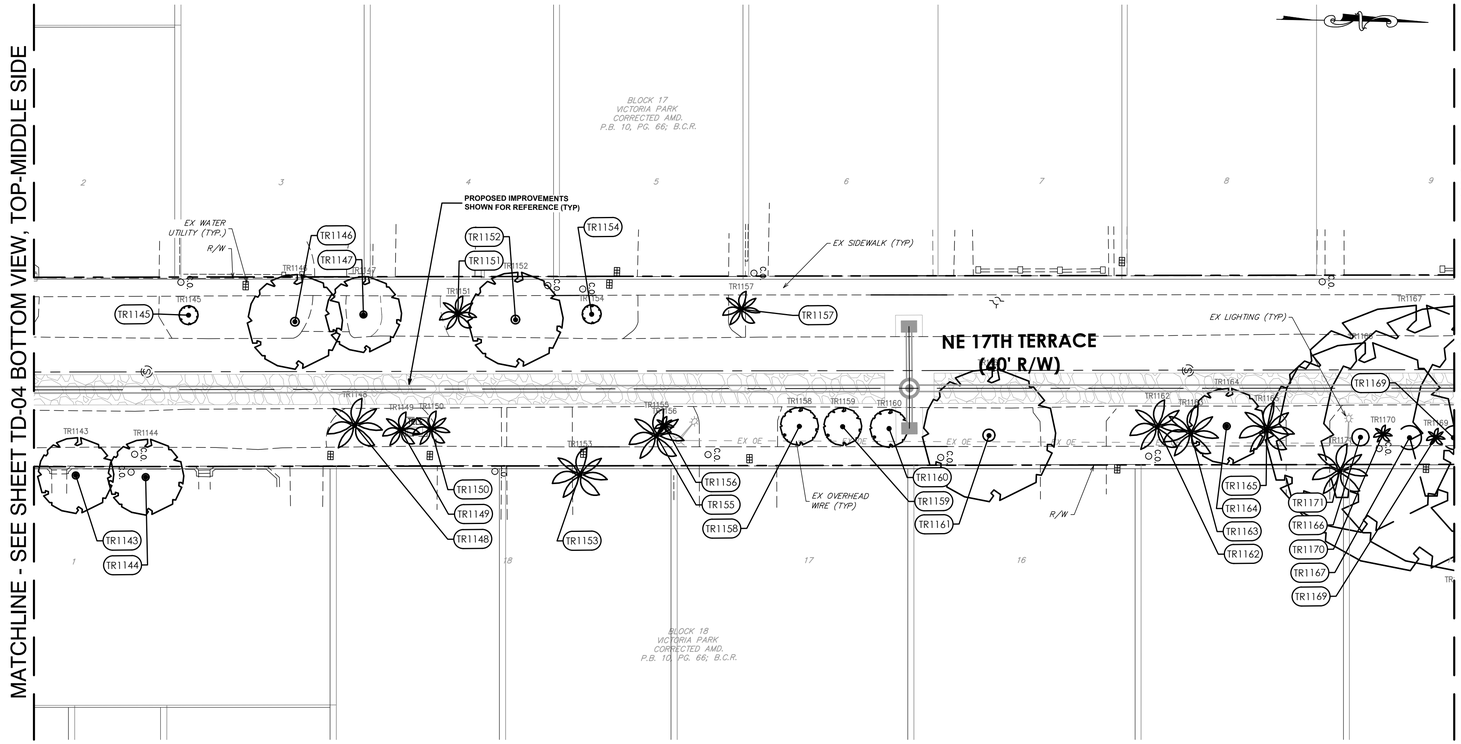
REVISIONS

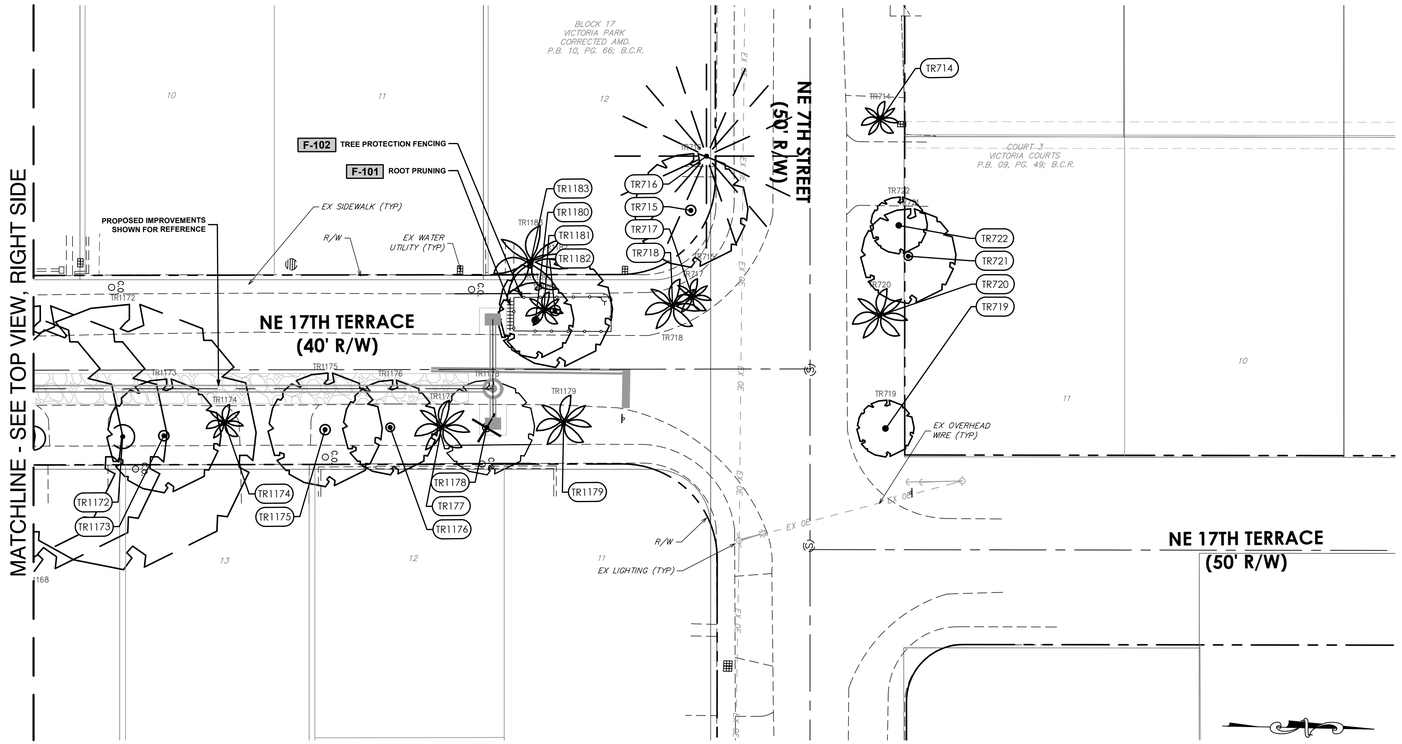
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-12	189
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	





Hazen

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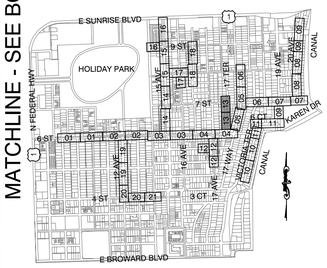


KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	
EDH	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

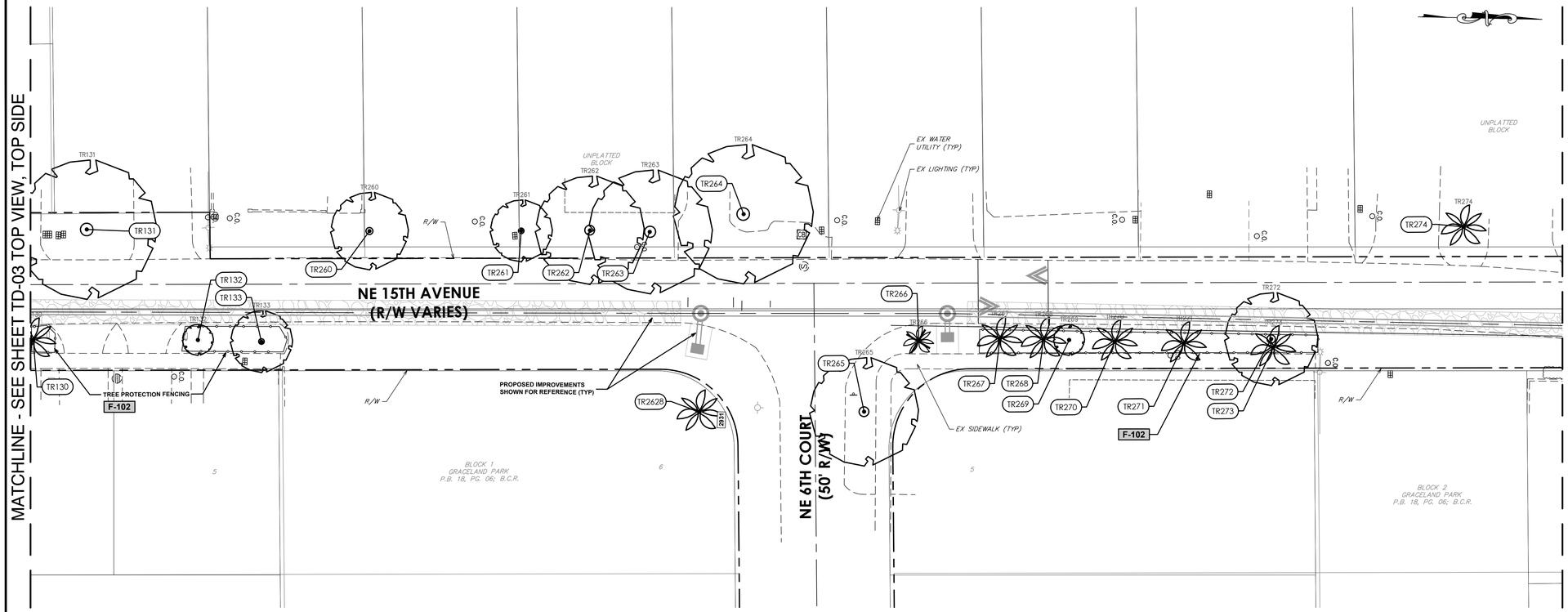
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-13	190
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	

MATCHLINE - SEE SHEET TD-03 TOP VIEW, TOP SIDE

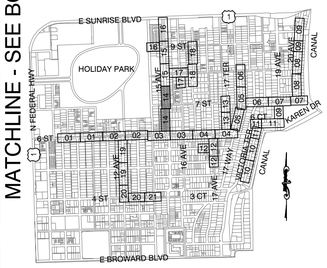


MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

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DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	

DATE: 03/25/25
SCALE: AS SHOWN

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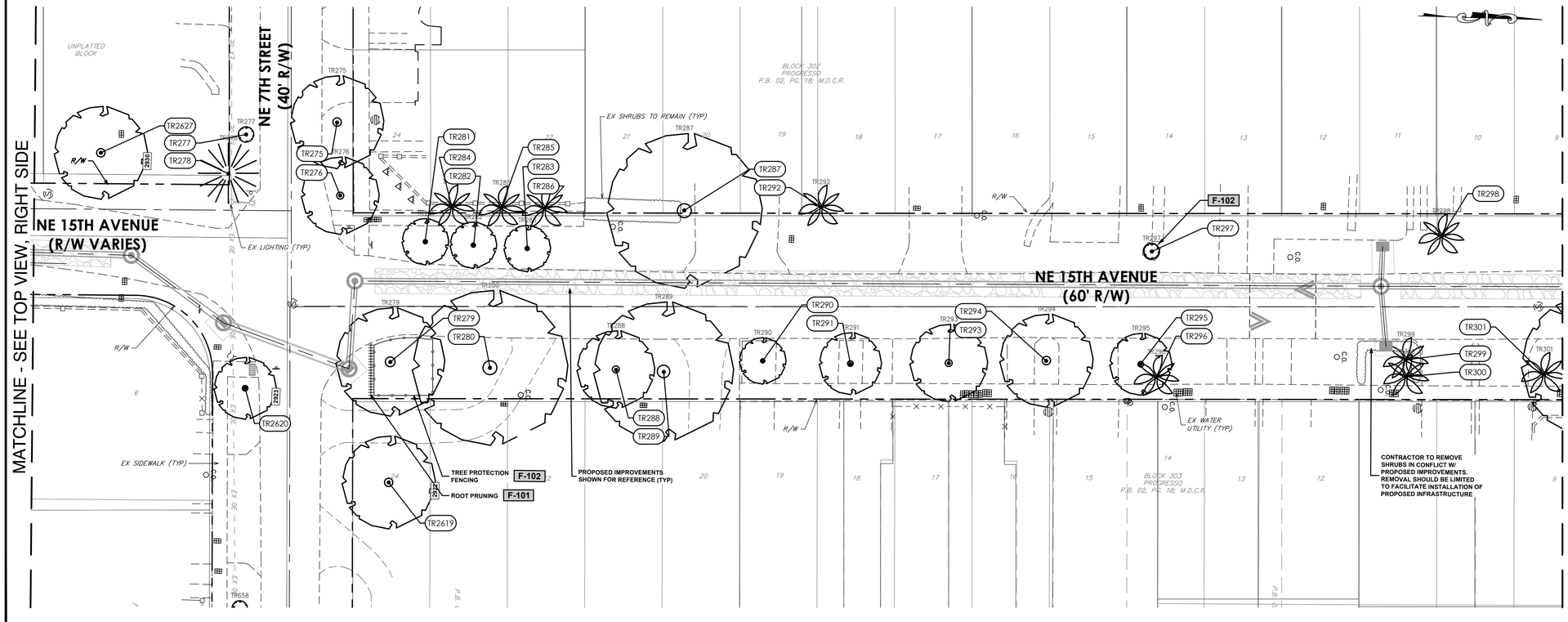
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

MATCHLINE - SEE TOP VIEW, RIGHT SIDE



MATCHLINE - SEE SHEET TD-15 TOP VIEW, LEFT SIDE

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-14	191
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	

MATCHLINE - SEE SHEET TD-14 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET TD-17 TOP VIEW, LEFT SIDE

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

MATCHLINE - SEE SHEET TD-16 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET TD-16 TOP VIEW, LEFT SIDE

NE 8TH STREET (40' R/W)

NE 8TH STREET (50' R/W)

NE 9TH STREET (40' R/W)

NE 15TH AVENUE (R/W VARIES)

NE 15TH AVENUE (60' R/W)

BLOCK 302 PROGRESSO P.B. 02, PG. 18; M.D.C.R.

BLOCK 243 PROGRESSO P.B. 02, PG. 18; M.D.C.R.

BLOCK 242 PROGRESSO P.B. 02, PG. 18; M.D.C.R.

PARCEL "A" RAYBOHR PLAT P.B. 93, PG. 44; B.C.R.

VICTORIA PARK PLACE P.B. 122, PG. 38; B.C.R.

PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE (TYP)

F-101 ROOT PRUNING

EX WATER UTILITY (TYP.)

EX SIDEWALK (TYP)

EX OVERHEAD WIRE (TYP)

EX LIGHTING (TYP)

EX WATER UTILITY (TYP)

EX SHRUBS TO REMAIN (TYP)

ROOT PRUNING F-101

TREE PROTECTION FENCING F-102

PARCEL LINE AS PER SURVEY (TYP)

R/W

EX 0E

TR302 TR303 TR304 TR305 TR306 TR307 TR308 TR309 TR310 TR311 TR312 TR313 TR314 TR315 TR316 TR317 TR318 TR319 TR320 TR321 TR322 TR323 TR324 TR325 TR326 TR327 TR328 TR329 TR330 TR331 TR332 TR2621 TR2622 TR2623 TR2624 TR2625

2621 2622 2623 2624 2625 2626 2627

0 20' 40'

LEGEND:

- EXISTING TREE OR PALM TO REMAIN
- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

KEY MAP

E SUNRISE BLVD, HOLIDAY PARK, N FEDERAL HWY, E BROWARD BLVD, CANAL

ISSUED FOR BID

Sunshine811

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Certificate of Authorization No: 2771

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LANDSCAPE ARCHITECT:
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FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
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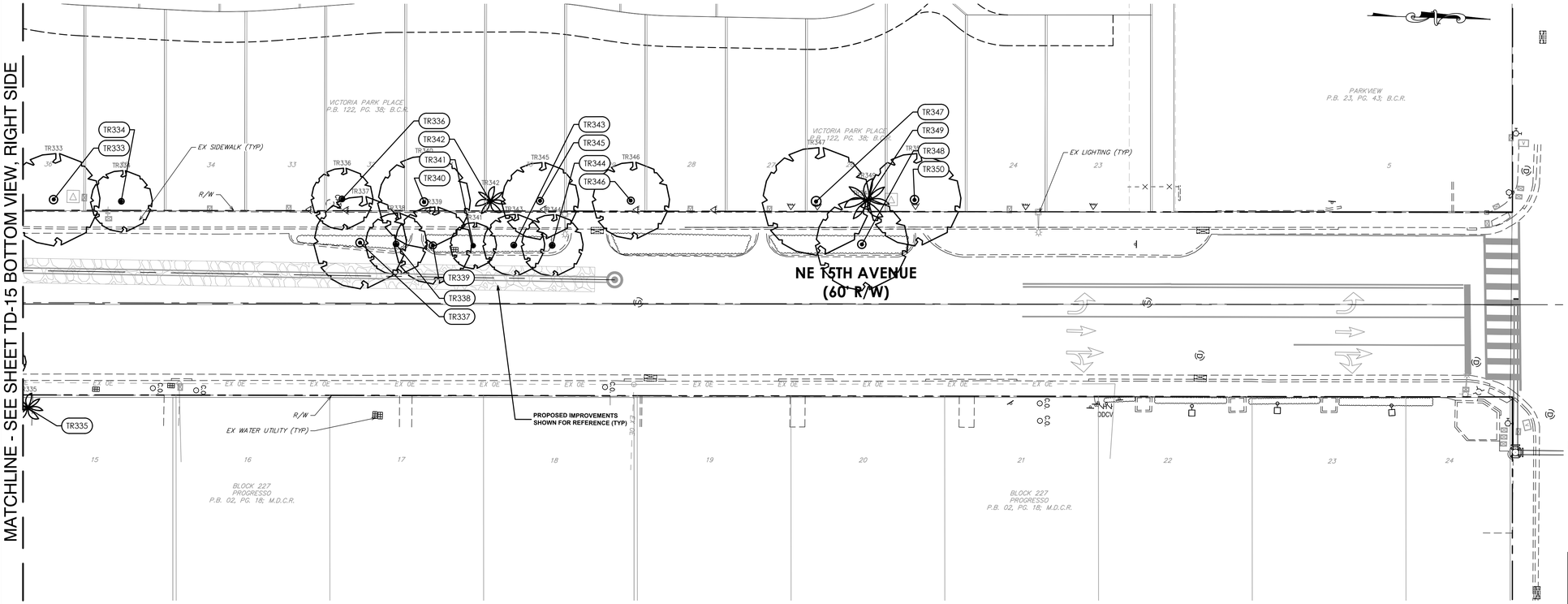
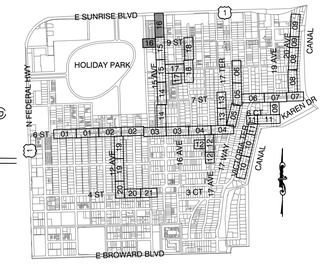
NO.	DATE	BY	CHK'D	DESCRIPTION
REVISIONS				

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO. TD-15
SHT # 192
TOTAL: 233
CAD FILE: 12082-MULTI-TDPL
DRAWING FILE NO. 4-144-88





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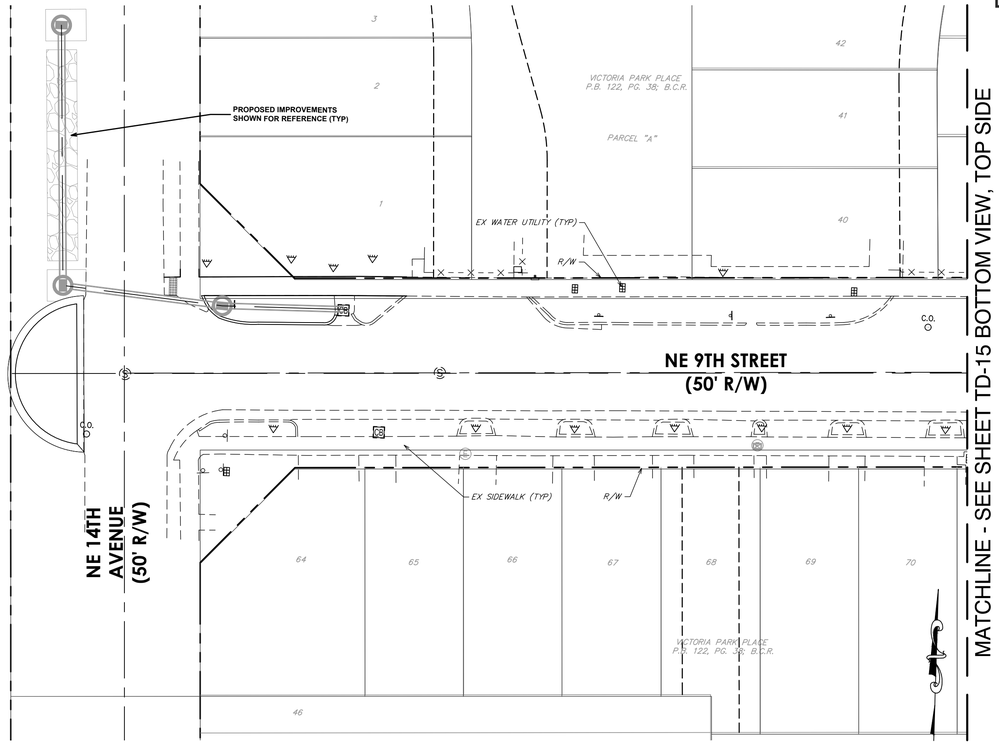

0 20' 40'

LEGEND:

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- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

Hazen

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JKC	JKC	EDH	

DATE: 03/25/25
SCALE: AS SHOWN

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

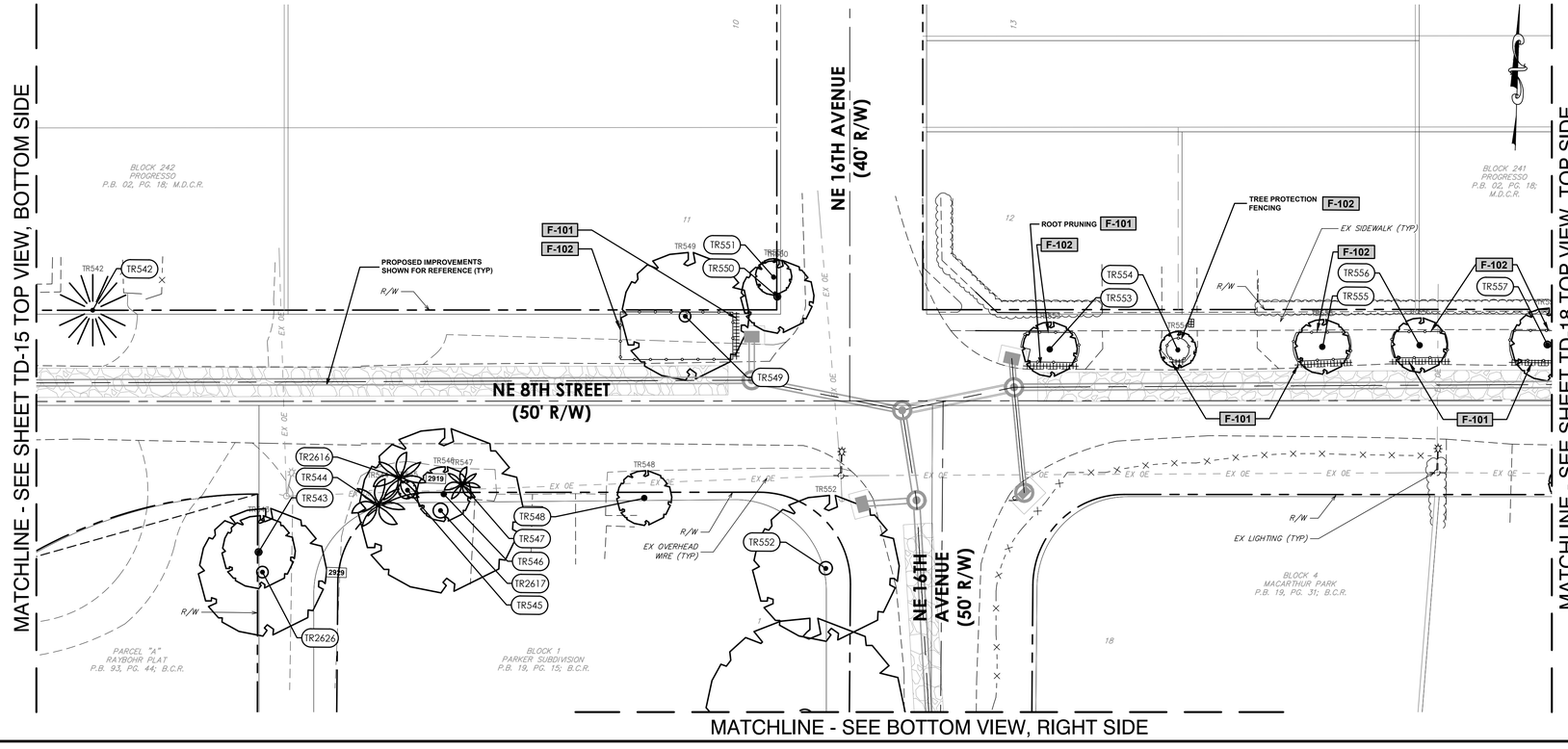
NO.	DATE	BY	CHK'D	DESCRIPTION

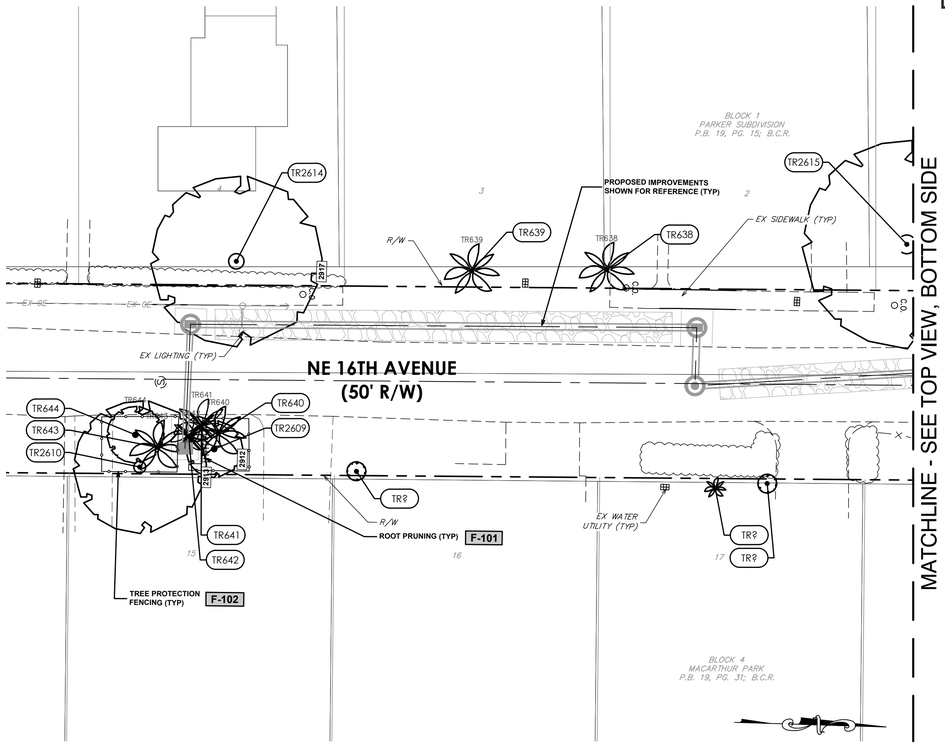
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

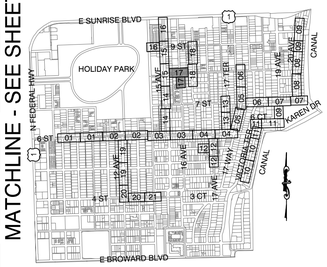
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-16	193
TOTAL:	233

CAD FILE: 12082–MULTI–TDPL
DRAWING FILE NO. 4–144–88







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0 20' 40'

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- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

ISSUED FOR BID

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REG. No: 6667129
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TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

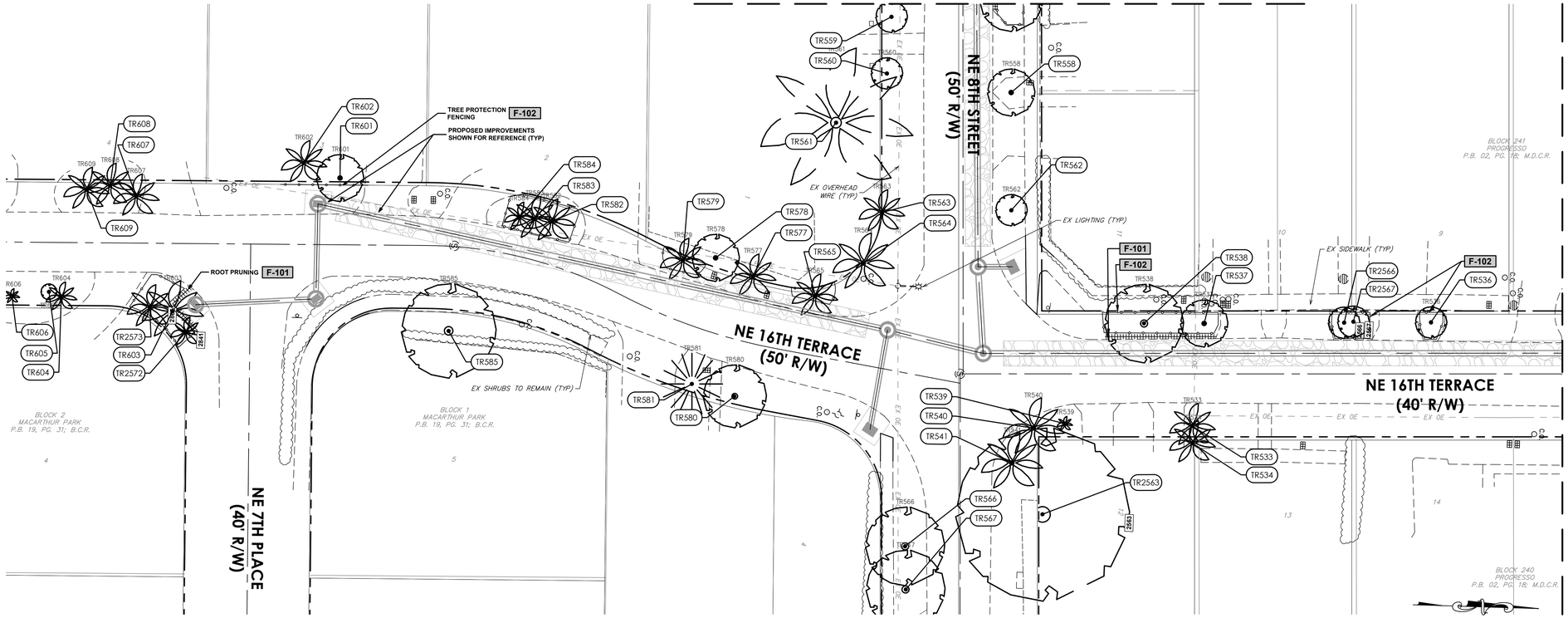
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

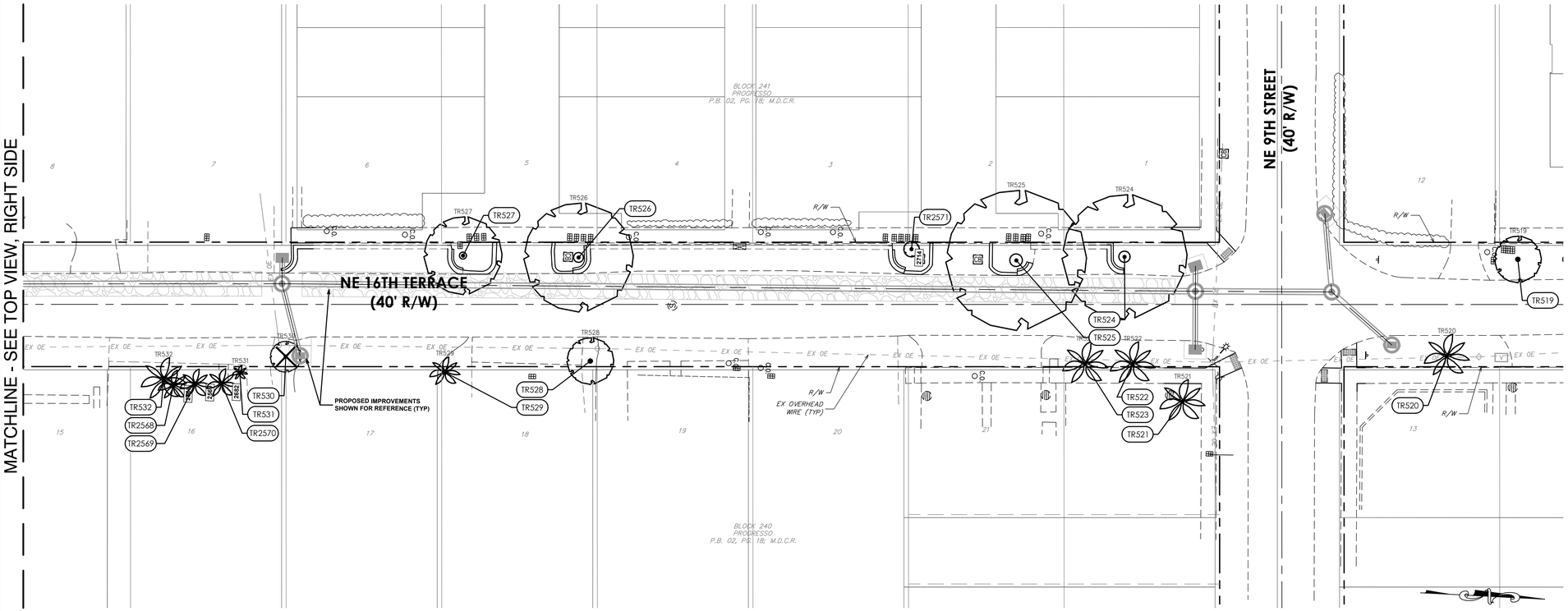
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-17	194
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET TD-17 TOP VIEW, RIGHT SIDE



MATCHLINE - SEE TOP VIEW, RIGHT SIDE



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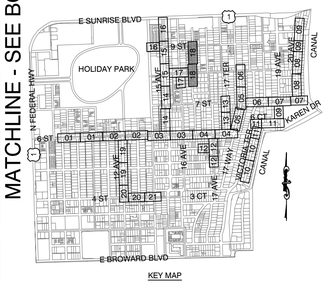

KEY MAP

Sunshine811

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0 20' 40'

LEGEND:

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- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING F-102
- ROOT PRUNING F-101
- # TREE TAG

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

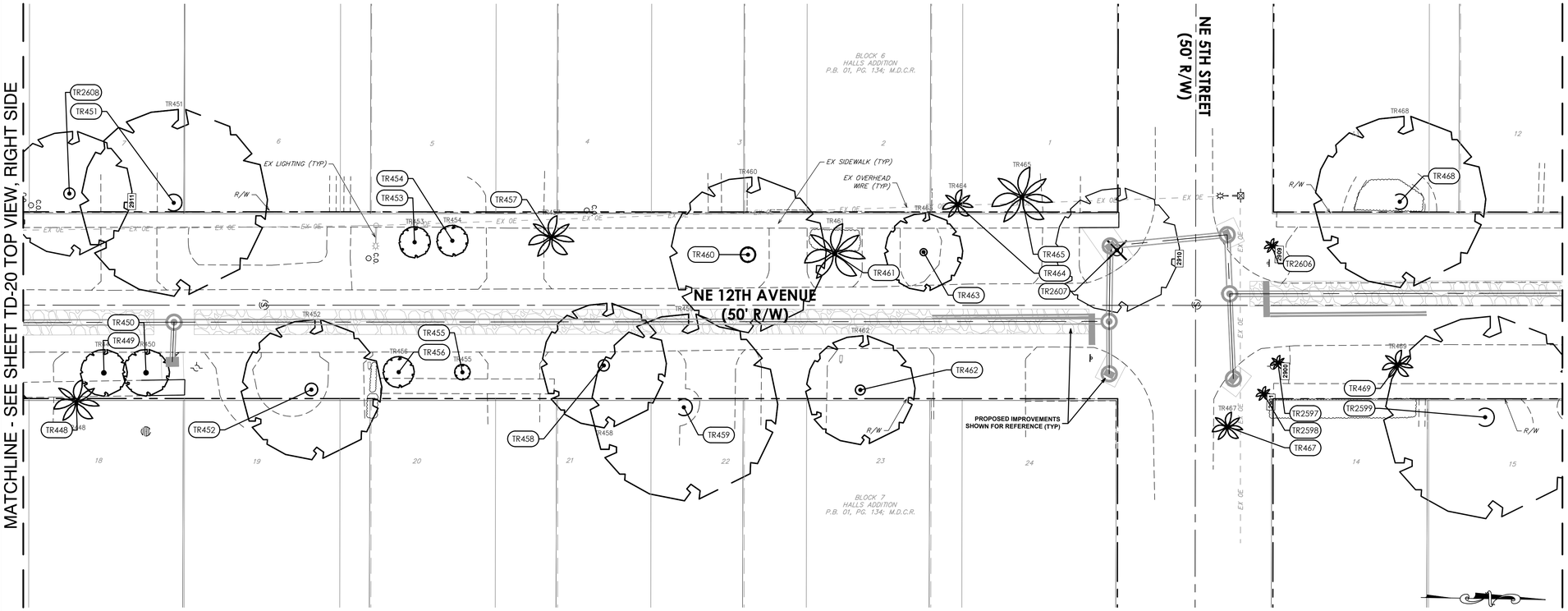
SHEET NO. TD-18 | SHT # 195

TOTAL: 233

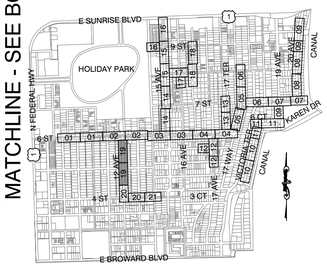
CAD FILE: 12082–MULTI–TDPL

DRAWING FILE NO. 4–144–88

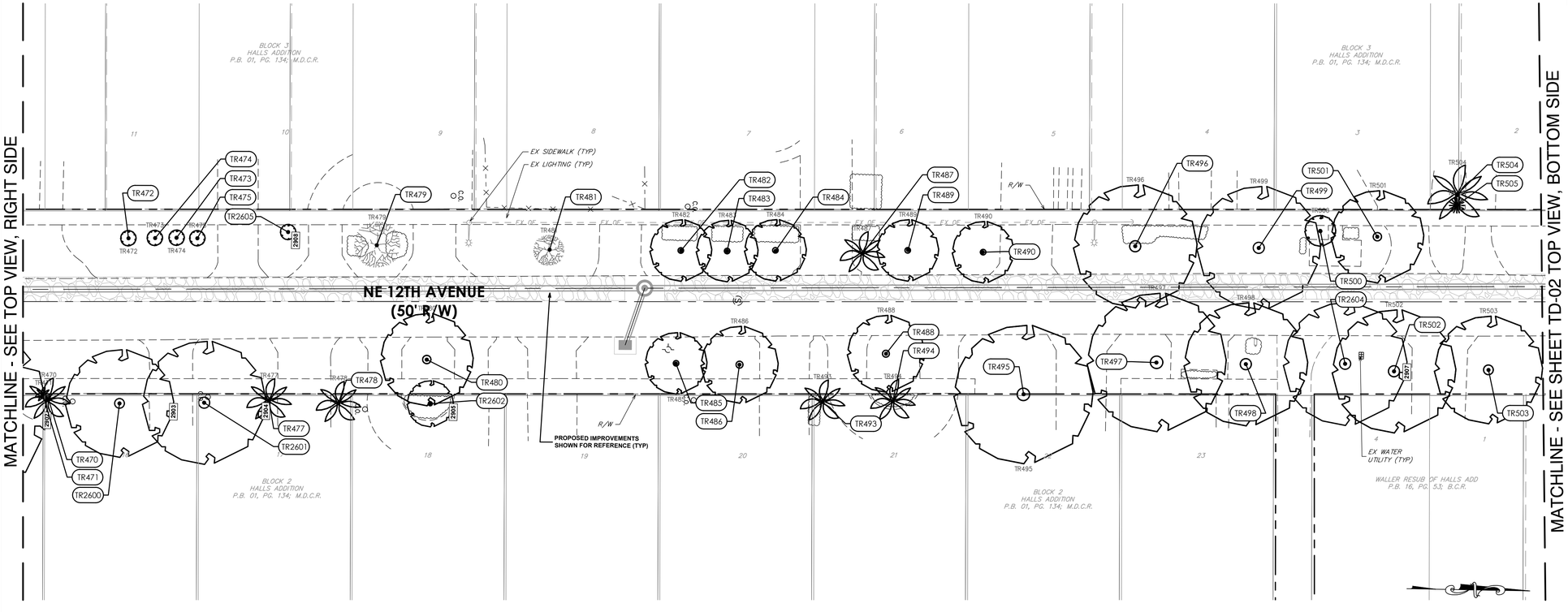
MATCHLINE - SEE SHEET TD-20 TOP VIEW, RIGHT SIDE



MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE



MATCHLINE - SEE TOP VIEW, RIGHT SIDE



MATCHLINE - SEE SHEET TD-02 TOP VIEW, BOTTOM SIDE

LEGEND:

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- EXISTING TREE OR PALM TO BE REMOVED
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- ROOT PRUNING F-101
- # TREE TAG

0 20' 40'

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DRAWN BY: JKC
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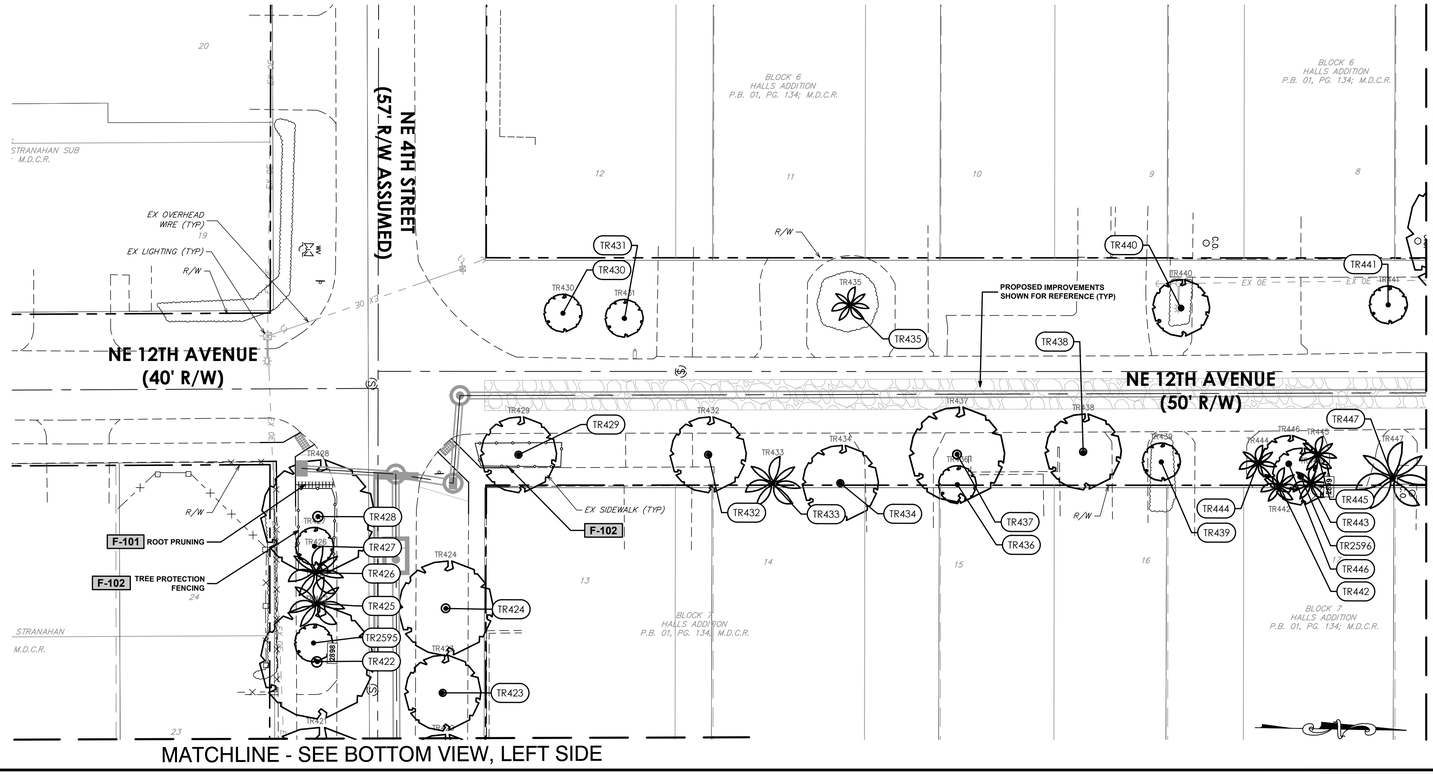
REVISIONS

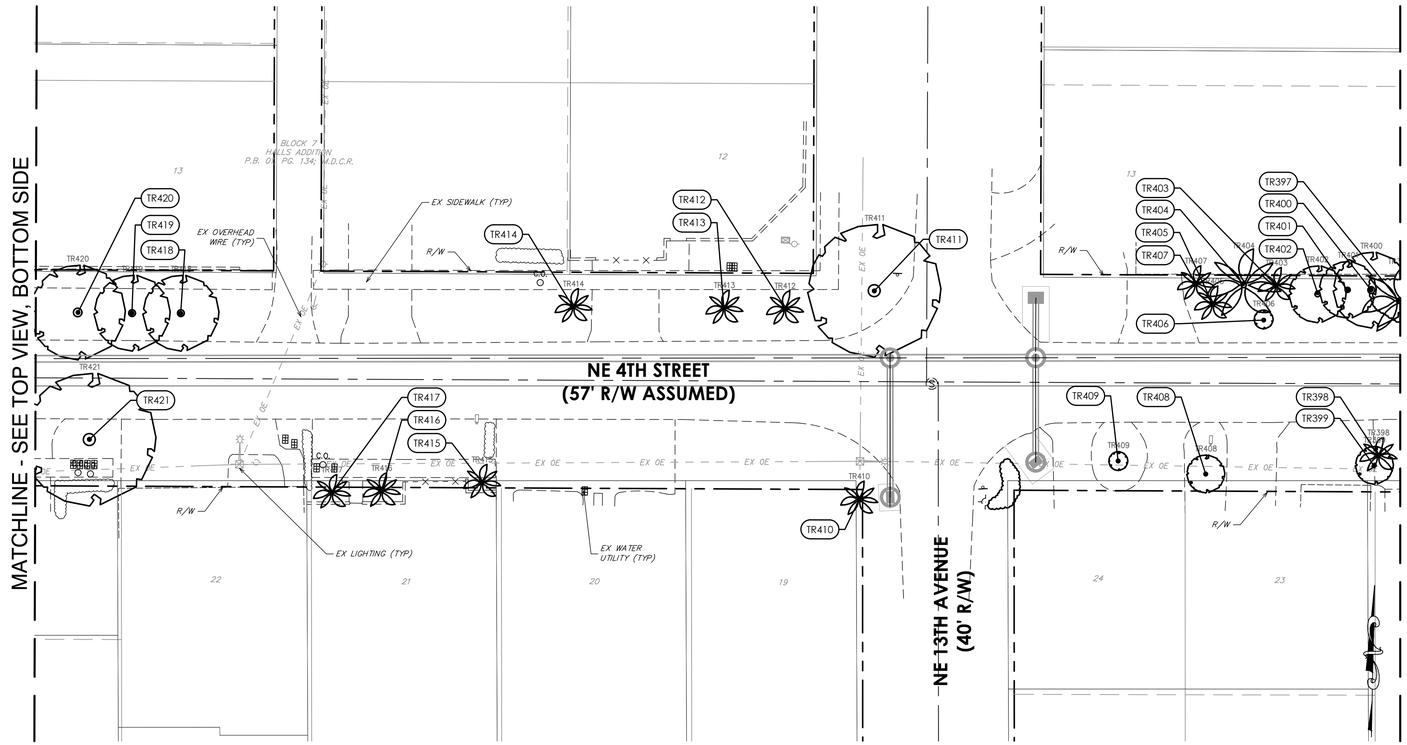
NO.	DATE	BY	CHK'D	DESCRIPTION

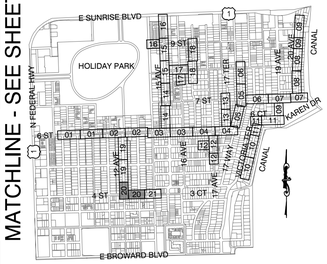
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO. TD-19
SHT # 196
TOTAL: 233
CAD FILE: 12082–MULTI–TDPL
DRAWING FILE NO. 4–144–88







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- # TREE TAG

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EDH	
FIELD BOOK:	

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-20	197
TOTAL:	233
CAD FILE: 12082-MULTI-TDPL	
DRAWING FILE NO. 4-144-88	

LEGEND:

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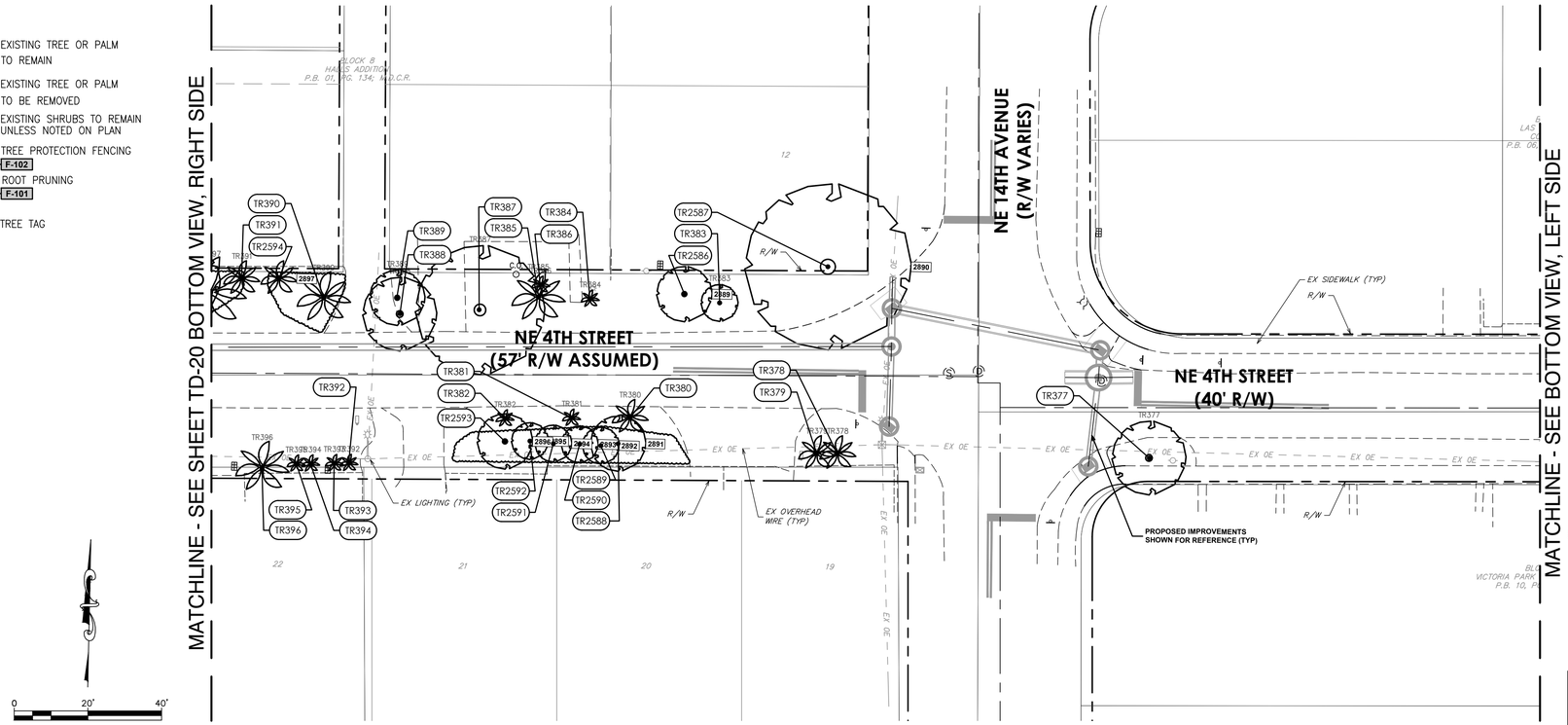
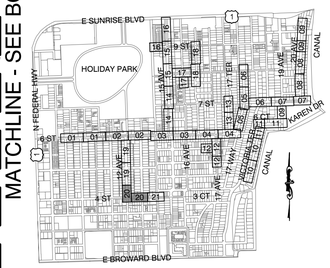
- EXISTING SHRUBS TO REMAIN UNLESS NOTED ON PLAN
- TREE PROTECTION FENCING — F-102
- ROOT PRUNING — F-101
- # — TREE TAG





TREE DISPOSITION & PRUNING NOTES

1. ROOT PRUNING AND WATERING PRIOR TO CONSTRUCTION:
   - 1.1. TREE ROOT PRUNING AND TRIMMING, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED & LICENSED ARBORIST.
1. TREE PRESERVATION:
   - 1.1. ALL TREES INDICATED AS "REMAIN" IN THE INVENTORY SCHEDULE , SHEET TI-01 THROUGH T1-15 SHALL BE PRESERVED TO THE GREATEST EXTENT POSSIBLE.
   - 1.2. ALL TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION PLAN SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE, UNLESS OTHERWISE NOTED ON PLAN.
   - 1.3. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND THE DRIPLINE OF EXISTING TREES TO BE PRESERVED IN PLACE, AS SHOWN ON PLAN. PRESERVATION BARRICADES SHALL BE LEFT IN PLACE THROUGHOUT DURING ALL PHASES OF CONSTRUCTION.
   - **1.4. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE OWNER/OWNER'S REPRESENTATIVE REFER TO PLANS FOR TREE PRESERVATION BARRICADE FENCING DETAIL.**
   - 1.5. NO CONSTRUCTION ACTIVITY, CLEANING OF EQUIPMENT, STORAGE OR THE LIKE SHALL BE PERMITTED WITHIN THE DRIPLINE OF PRESERVED TREES.
   - 1.6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY TREES STATED TO REMAIN WHICH CANNOT BE PRESERVED DUE TO PROPOSED CONSTRUCTION ACTIVITY. **IN SUCH CASES THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.**
2. ROOT PRUNING AND WATERING PRIOR TO CONSTRUCTION.
   - 2.1. ANY PROPOSED CONSTRUCTION ACTIVITY WITHIN THE DRIPLINE OF PRESERVED TREES WILL REQUIRE ROOT PRUNING PRIOR TO THE START OF WORK.
   - 2.2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO QUANTIFY ROOT PRUNING FOR THE PURPOSES OF BIDDING.
   - 2.3. IF EXCAVATION IN THE VICINITY OF A PROTECTED TREE IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE TREES, UNDER THE SUPERVISION OF A CERTIFIED ARBORIST IN ACCORDANCE TO THE FOLLOWING CONDITIONS:
     - 2.3.1. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE.
       1. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION.
       2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
       3. BACKFILL TRENCH WITH PLANTING SOIL.
       4. FERTILIZE WITHIN THE ROOT ZONE (SEE BELOW).
     - 2.3.2. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8".
     - 2.3.3. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
   - **2.4. THE CONTRACTOR SHALL FIELD STAKE THE LIMIT OF ROOT PRUNING. LIMITS OF ROOT PRUNING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION.** DO NOT ROOT PRUNE FOR IRRIGATION OR ELECTRICAL LINES WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCHING REQUIRED FOR UTILITY WORK WITH THE LANDSCAPE PLANS.
3. BRACING AND GUYING OF TREES AFTER ROOT PUNING.
   - 3.1. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES STABILITY DURING THE ROOT REGENERATION PERIOD AS PER DETAIL 8 ON SHEET LV-DT-01.
4. REPLACEMENT OF EXISTING SHRUB MATERIAL.
   - **4.1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ANY AND ALL EXISTING SHRUB MATERIAL AND GROUND COVER, INCLUDING TURF, IMPACTED BY CONSTRUCTION. AFORE MENTIONED PLANT MATERIAL SHALL BE REPLACED WITH THE SAME SPECIES OR SIMILAR SPECIES APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING.**
   - 4.2. ALL IMPACTED AREAS SHALL BE RESTORED TO EXISTING OR BETTER CONDITION PRIOR TO PROJECT CLOSE OUT.

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	QTY
FENCE		
~~HHHH~~ F-101	ROOT PRUNING	54 lf
—◦— F-102	TREE PROTECTION FENCING	406 lf

TREE CANOPY PRUNING NOTES

1. THE SCOPE OF THE WORK FOR MAY REQUIRE THE TRIMMING OF EXISTING TREE CANOPY TO ACCOMMODATE THE PROPOSED SITE IMPROVEMENTS. IF CANOPY TRIMMING IS REQUIRED THE CONTRACTOR SHALL TRIM EXISTING TREES IN ACCORDANCE WITH THE FOLLOWING:
2. CANOPY TRIMMING SHALL BE PERFORMED IMPLEMENTING ANSI-A300 (AMERICAN NATIONAL STANDARDS INSTITUTE) PRUNING STANDARDS BY OR UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST. TRIMMING INCLUDES BOTH HARDWOOD (DICOTYLEDON) AND PALM (MONOCOTYLEDON) SPECIES.
3. THE CONTRACTOR WILL ENSURE THAT ANY POTENTIAL CANOPY REDUCTION WILL BE KEPT TO A MINIMUM BY REMOVING ONLY WHAT IS NECESSARY TO ACHIEVE THE REQUIRED CLEARANCES FOR THE INSTALLATION OF THE PROPOSED SITE IMPROVEMENTS. WHEN THE PRUNING OF A BRANCH WILL RESULT IN THE REMOVAL OF ONE-HALF (1/2) OF THE FOLIAGE ON THAT BRANCH, IT SHOULD BE REMOVED TO THE PARENT STEM. IF CANOPY REDUCTION WILL RESULT IN A FOLIAGE LOSS GREATER THAN OR EQUAL TO ONE-QUARTER (1/4) OF ANY SINGLE TREE CANOPY, THE CONTRACTOR WILL BE REQUIRED TO CONTACT THE PROJECT CEI AND CITY PROJECT REPRESENTATIVE PRIOR TO TRIMMING. TREES THAT ARE PRUNED IN A MANOR INCONSISTENT WITH THE ANSI - A300 PRUNING STANDARDS (INCLUDING BUT NOT LIMITED TO: IMPROPER PRUNING CUTS, EXCESSIVE CANOPY REDUCTION, HEADER CUTS, LION TAILING, HAT RACKING OR TOPPING) WILL REQUIRE THE REMOVAL AND MITIGATION OF THE SUBJECT TREE AT THE CONTRACTOR'S EXPENSE AND MAYBE SUBJECT TO ADDITIONAL FINES AS DETERMINED BY THE GOVERNING ENTITY.

NOTES

1. ALL TREES ADJACENT CONSTRUCTION ACTIVITY STATED TO REMAIN SHALL BE PROTECTED WITH TREE PRESERVATION FENCING. CONTRACTOR TO FIELD VERIFY QUANTITY/LINEAR FEET.

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	FIELD BOOK:
EDH	

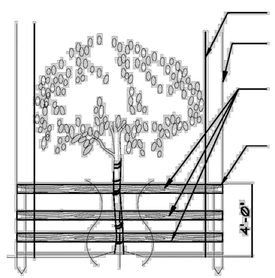
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION
REVISIONS				

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
TREE DISPOSITION PLAN

SHEET NO.	SHT #
TD-21	198
TOTAL:	233
CAD FILE: 12082–MULTI–TDPL	
DRAWING FILE NO. 4–144–88	



DRIP LINE

FENCE TO EXTEND TO THE EDGE OF THE DRIPLINE OR MORE WHERE POSSIBLE.

THREE ROWS OF SPLIT RAIL FENCING (2" X 4") TO BE PLACED AROUND ALL EXISTING TREES TO REMAIN.

WOODEN STAKES (2" X 4"" X 5' MIN.) ON 5' CENTERS - TO SUPPORT SPLIT RAIL FENCING.

CONTRACTOR TO INSTALL PROTECTIVE FENCE BARRIER AROUND ALL EXISTING TREES TO REMAIN- AT THE START OF THE PROJECT- FENCE TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.

CONTRACTOR SHALL TAKE EXTRA CARE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISTING TREES - AND SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED DURING CONSTRUCTION.

BARRIER TO FORM A CONTINUOUS CIRCLE AROUND THE TREE OR GROUP OF TREES.

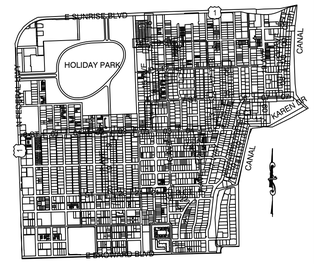
CITY OF FORT LAUDERDALE TREE PROTECTION DETAIL

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

0 20' 40'

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

ISSUED FOR BID

ENGINEER: ERIC D. HARRISON
REG. No: 66671129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH
DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE DISPOSITION DETAILS

SHEET NO. TD-22 | SHT # 199
TOTAL: 233
CAD FILE: 12082-MULTI-LAND-DETL
DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR1	SABAL PALMETTO	CABBAGE PALM	12		10	10	REMAIN			65%	OVER-PRUNED		
TR2	SYAGRUS ROMANZOFFIANA	QUEEN PALM	8		15	10	REMAIN			70%	NUTRIENT DEFICIENCY		
TR3	ADONIDIA MERRILLII	CHRISTMAS PALM	9		15	10	REMAIN			80%			
TR6	ADONIDIA MERRILLII	CHRISTMAS PALM	9		15	15	REMAIN			75%			
TR7	ADONIDIA MERRILLII	CHRISTMAS PALM	7		1	5	REMAIN			75%			
TR8	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	8		15	10	REMAIN			80%	TRUNK DAMAGE (MODERATE)		
TR9	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	8		15	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR10	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	8		15	10	REMAIN			65%	NUTRIENT DEFICIENCY		
TR11	LAGERSTROEMIA INDICA	CREPE MYRTLE	2	N	5	5	REMOVE	1		75%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR12	LAGERSTROEMIA INDICA	CREPE MYRTLE	2	N	5	5	REMOVE	1		75%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR13	LAGERSTROEMIA INDICA	CREPE MYRTLE	2	N	5	5	REMOVE	1		70%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR14	LAGERSTROEMIA INDICA	CREPE MYRTLE	2	N	5	5	REMOVE	1		70%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR15	LAGERSTROEMIA INDICA	CREPE MYRTLE	2	N	5	5	REMOVE	1		70%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR16	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	14		50	20	REMAIN			70%			
TR17	PHOENIX ROEBELENII	PYGMY DATE PALM	11		5	10	REMAIN			70%	NUTRIENT DEFICIENCY		
TR18	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	9		15	10	REMAIN			75%			
TR19	NOT PRESENT									75%			
TR20	SWIETENIA MAHAGONI	MAHOGANY	29		35	50	REMAIN			80%	GIRDLING ROOTS		
TR21	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	5		30	10	REMAIN			0%			
TR22	LIVISTONA CHINENSIS	CHINESE FAN PALM	17		10	15	REMAIN			35%			
TR23	LIVISTONA CHINENSIS	CHINESE FAN PALM	17		20	15	REMAIN			80%			
TR24	SWIETENIA MAHAGONI	MAHOGANY	24		30	30	REMAIN			80%	ROOT DAMAGE/DECAY		
TR25	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	33		5	20	REMAIN			80%			
TR26	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	14		5	10	REMAIN			25%			
TR27	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	36		5	20	REMAIN			80%			
TR28	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	39		5	20	REMAIN			80%			
TR29	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	31		5	20	REMAIN			80%			
TR30	COCOS NUCIFERA	COCONUT PALM	12		30	15	REMAIN			80%			
TR31	QUERCUS VIRGINIANA	LIVE OAK	6		20	15	REMAIN			80%	LEANING (MODERATE)		
TR32	QUERCUS VIRGINIANA	LIVE OAK	6		20	15	REMAIN			80%	GIRDLING ROOTS		
TR33	QUERCUS VIRGINIANA	LIVE OAK	5		25	15	REMAIN			60%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR34	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	17		25	20	REMAIN			60%	TRUNK DAMAGE (MINOR)		
TR35	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	2	N	10	5	REMOVE	1		60%	TRUNK DAMAGE (MINOR)	CLASS A SPECIES	
TR36	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	2	N	10	5	REMOVE	1		40%	TRUNK DAMAGE (MINOR)	CLASS A SPECIES	
TR37	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	2	N	10	5	REMOVE	2		75%	LIMB DAMAGE (MINOR)	CLASS A SPECIES	
TR38	CORDIA SEBESTENA	ORANGE GEIGER	2	N	10	5	REMAIN	1		75%	INSECT DAMAGE - LEAVES	CLASS B SPECIES	
TR39	CORDIA SEBESTENA	ORANGE GEIGER	2	N	10	5	REMAIN	1		75%	INSECT DAMAGE - LEAVES	CLASS B SPECIES	
TR40	CORDIA SEBESTENA	ORANGE GEIGER	3	N	15	10	REMAIN	1		60%	INSECT DAMAGE - LEAVES	CLASS B SPECIES	
TR41	DELONIX REGIA	ROYAL POINCIANA	21		35	45	REMAIN			10%	TRUNK DAMAGE (MAJOR)		
TR42	SWIETENIA MAHAGONI	MAHOGANY	29		40	70	REMAIN			60%	CONSTRICTED ROOTS		
TR43	SWIETENIA MAHAGONI	MAHOGANY	35		40	70	REMAIN			30%	CONSTRICTED ROOTS		
TR44	JACARANDA MIMOSIFOLIA	JACARANDA	15		30	30	REMAIN			40%	REDUCED CANOPY (MAJOR)		
TR45	LAGERSTROEMIA INDICA	CREPE MYRTLE	8	N	10	5	REMAIN	2		40%	CROWN DENSITY - LOW	CLASS C SPECIES	
TR46	LAGERSTROEMIA INDICA	CREPE MYRTLE	11	N	15	15	REMAIN	2		25%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR47	LAGERSTROEMIA INDICA	CREPE MYRTLE	6	N	10	5	REMAIN	2		60%	CROWN DENSITY - LOW	CLASS C SPECIES	
TR48	LAGERSTROEMIA INDICA	CREPE MYRTLE	11	N	15	15	REMAIN	5		75%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR49	LAGERSTROEMIA INDICA	CREPE MYRTLE	6	N	10	5	REMAIN	2		60%	CROWN DENSITY - LOW	CLASS C SPECIES	
TR50	ROYSTONEA REGIA	ROYAL PALM	16		35	15	REMAIN			70%	TRUNK DAMAGE (MINOR)		
TR51	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	5	REMAIN			60%	CONSTRUCTION FILL AT BASE		
TR52	PHOENIX ROEBELENII	PYGMY DATE PALM	7		10	10	REMAIN			75%	CONSTRUCTION FILL AT BASE		
TR53	DELONIX REGIA	ROYAL POINCIANA	27		40	50	REMAIN			70%	ROOT DAMAGE FROM CONSTRUCTION		
TR54	ROYSTONEA REGIA	ROYAL PALM	8	N	10	15	REMOVE		1	70%			
TR55	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			35%			
TR56	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4	N	20	15	REMOVE		1	80%			
TR57	ROYSTONEA REGIA	ROYAL PALM	6		10	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR58	DELONIX REGIA	ROYAL POINCIANA	19	Y	25	30	REMOVE	12		80%	CONSTRICTED ROOTS	CLASS B SPECIES	
TR59	LIVISTONA CHINENSIS	CHINESE FAN PALM	7		15	15	REMAIN			75%			
TR60	ADONIDIA MERRILLII	CHRISTMAS PALM	4	N	15	15	REMOVE		1	40%	CAVITIES WITH DECAY		
TR62	WODYETIA BIFURCATA	FOXTAIL PALM	8	N	15	15	REMOVE		1	80%			
TR63	ADONIDIA MERRILLII	CHRISTMAS PALM	12		10	15	REMAIN			45%			
TR64	WODYETIA BIFURCATA	FOXTAIL PALM	4	N	10	15	REMOVE		1	80%			
TR65	ADONIDIA MERRILLII	CHRISTMAS PALM	8	N	15	15	REMOVE		1	80%			
TR66	SABAL PALMETTO	CABBAGE PALM	16	N	10	15	REMOVE		1	80%			
TR67	ADONIDIA MERRILLII	CHRISTMAS PALM	4		15	15	REMAIN			80%			
TR68	ROYSTONEA REGIA	ROYAL PALM	10		15	15	REMAIN			80%			
TR69	DYPSIS LUTESCENS	ARECA PALM	13		5	15	REMAIN			80%			
TR70	DELONIX REGIA	ROYAL POINCIANA	23		40	40	REMAIN			80%	ROOT DAMAGE FROM CONSTRUCTION		
TR71	DELONIX REGIA	ROYAL POINCIANA	22		40	45	REMAIN			80%	LIMB DAMAGE (MAJOR)		
TR72	DELONIX REGIA	ROYAL POINCIANA	16		35	40	REMAIN			35%	ROOT DAMAGE		
TR73		UNID 1	13	N	15	15	REMOVE	1		35%	REDUCED CANOPY (MODERATE)		
TR74	DYPSIS LUTESCENS	ARECA PALM	6		5	15	REMAIN			45%			
TR75	TERMINALIA BUCERAS	BLACK OLIVE	23		40	35	REMAIN			40%	GIRDLING ROOTS		
TR76	TERMINALIA BUCERAS	BLACK OLIVE	16		30	35	REMAIN			80%	CAVITIES WITH DECAY		
TR77	DYPSIS DECARYI	TRIANGLE PALM	14		10	15	REMAIN			35%	NUTRIENT DEFICIENCY		
TR78	ADONIDIA MERRILLII	CHRISTMAS PALM	47		15	20	REMAIN			50%			
TR79	CONOCARPUS ERECTUS VAR. SERICEUS	GREEN BUTTONWOOD TREE	3	N	10	10	REMOVE	2		75%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR80	CONOCARPUS ERECTUS VAR. SERICEUS	GREEN BUTTONWOOD TREE	5	N	10	10	REMOVE	4		80%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR81	CONOCARPUS ERECTUS VAR. SERICEUS	GREEN BUTTONWOOD TREE	4	N	10	10	REMOVE	3		70%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR82	CONOCARPUS ERECTUS VAR. SERICEUS	GREEN BUTTONWOOD TREE	4	N	10	10	REMOVE	3		70%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR83	CONOCARPUS ERECTUS VAR. SERICEUS	GREEN BUTTONWOOD TREE	4	N	10	10	REMOVE	3		70%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR84	BURSERA SIMARUBA	GUMBO LIMBO	21		40	45	REMAIN			70%	CONSTRICTED ROOTS		
TR85	SWIETENIA MAHAGONI	MAHOGANY	25		40	45	REMAIN			70%	CODOMINANT LEADERS/INCLUDED BARK		
TR86	DELONIX REGIA	ROYAL POINCIANA	17		35	40	REMAIN			40%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR87	DELONIX REGIA	ROYAL POINCIANA	18		35	40	REMAIN			50%	CONSTRICTED ROOTS		
TR88	SWIETENIA MAHAGONI	MAHOGANY	22		35	30	REMAIN			65%	TRUNK DAMAGE (MAJOR)		
TR89	SWIETENIA MAHAGONI	MAHOGANY	18		35	30	REMAIN			50%	ROOT DAMAGE/DECAY		
TR90	FICUS AUREA	STRANGLER FIG	29		20	30	REMAIN			15%	REDUCED CANOPY - MODERATE		
TR91	DELONIX REGIA	ROYAL POINCIANA	16		30	20	REMAIN			25%	CONSTRICTED ROOTS		
TR92	DELONIX REGIA	ROYAL POINCIANA	22		30	65	REMAIN			55%	ROOT DAMAGE		
TR93	SWIETENIA MAHAGONI	MAHOGANY	35		40	45	REMAIN			40%	CODOMINANT LEADERS - MULTI/INCLUDED BARK		
TR94	TABEBUIA CARAIBA	YELLOW TABEBUIA	13	N	20	25	REMAIN			40%	CODOMINANT LEADERS - MULTI		
TR95	DELONIX REGIA	ROYAL POINCIANA	13	N	20	25	REMOVE	5		50%	TRUNK DAMAGE (MODERATE)	CLASS B SPECIES	
TR96	DELONIX REGIA	ROYAL POINCIANA	16	N	15	30	REMAIN	8		60%	CONSTRICTED ROOTS	CLASS B SPECIES	
TR97	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			60%			
TR98	QUERCUS VIRGINIANA	LIVE OAK	21		35	40	REMAIN			45%	CONSTRICTED ROOTS		
TR99	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	6		20	10	REMAIN			80%			
TR100	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			50%			
TR101	QUERCUS VIRGINIANA	LIVE OAK	25		35	45	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR102	CLUSIA ROSEA	PITCH APPLE	34		25	25	REMAIN			80%	BASAL CODOMINANT		
TR103	WASHINGTONIA ROBUSTA	WASHINGTONIA	15	N	20	15	REMOVE		1	50%			
TR104	WASHINGTONIA ROBUSTA	WASHINGTONIA	13	N	15	15	REMOVE		1	60%			
TR105	BURSERA SIMARUBA	GUMBO LIMBO	26		30	35	REMAIN			80%	TRUNK DAMAGE (MODERATE)		
TR106	LAGERSTROEMIA INDICA	CREPE MYRTLE	13		15	15	REMAIN			80%	GRAFTED LIMBS OR LEADERS		
TR107	LAGERSTROEMIA INDICA	CREPE MYRTLE	17		15	15	REMAIN			35%	GRAFTED LIMBS OR LEADERS		
TR108	ADONIDIA MERRILLII	CHRISTMAS PALM	6		10	15	REMAIN			70%			
TR109	ADONIDIA MERRILLII	CHRISTMAS PALM	14		15	20	REMAIN			70%			
TR110	ADONIDIA MERRILLII	CHRISTMAS PALM	8		10	15	REMAIN			80%			
TR111	VEITCHIA ARECINA	MONTGOMERY PALM	13		25	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR112	VEITCHIA ARECINA	MONTGOMERY PALM	14		25	15	REMAIN			80%			
TR113	VEITCHIA ARECINA	MONTGOMERY PALM	7		25	10	REMAIN			75%			
TR114	VEITCHIA ARECINA	MONTGOMERY PALM	13		15	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR115	DELONIX REGIA	ROYAL POINCIANA	17		30	40	REMAIN			80%	ROOT DAMAGE/DECAY		
TR116	DELONIX REGIA	ROYAL POINCIANA	17	N	30	40	REMOVE	10		70%	CONSTRICTED ROOTS	CLASS B SPECIES	
TR117	DELONIX REGIA	ROYAL POINCIANA	16	N	30	50	REMOVE	7		55%	CONSTRICTED ROOTS	CLASS B SPECIES	
TR118	DELONIX REGIA	ROYAL POINCIANA	10		20	25	REMAIN			60%	CONSTRICTED ROOTS		
TR119	DELONIX REGIA	ROYAL POINCIANA	24		25	35	REMAIN			55%	ROOT DAMAGE		
TR120	PHOENIX DACTYLIFERA	DATE PALM	10		15	10	REMAIN			60%			
TR121	WODYETIA BIFURCATA	FOXTAIL PALM	7		15	10	REMAIN			40%	NUTRIENT DEFICIENCY		
TR122	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	8		25	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR123	CLUSIA ROSEA	PITCH APPLE	11	N	5	10	REMOVE	6		50%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR124	CLUSIA ROSEA	PITCH APPLE	8	N	5	10	REMOVE	6		70%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR125	CLUSIA ROSEA	PITCH APPLE	9	N	5	10	REMOVE	7		75%	PRUNED INTO SHRUB	CLASS A SPECIES	
TR126	MYRCIANTHES FRAGRANS	SIMPSON STOPPER	7	N	15	15	REMOVE	5		75%	SUPPRESSED CANOPY	CLASS A SPECIES	
TR127	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	9	N	10	10	REMOVE	4		75%	PRUNED INTO SHRUB	CLASS C SPECIES	
TR128	PHOENIX DACTYLIFERA	DATE PALM	11		20	10	REMAIN			75%			
TR129	PHOENIX DACTYLIFERA	DATE PALM	12		15	10	REMAIN			70%			
TR130	SABAL PALMETTO	CABBAGE PALM	12		10	15	REMAIN			80%			
TR131	DELONIX REGIA	ROYAL POINCIANA	19		30	45	REMAIN			80%	CODOMINANT LEADER FAILURE		
TR132	CAESALPINIA GRANADILLO	BRIDALVEIL	4		10	10	REMOVE			80%	RECENT INSTALL		
TR133	CAESALPINIA GRANADILLO	BRIDALVEIL	5		10	20	REMOVE			50%	RECENT INSTALL		
TR134	MYRCIANTHES FRAGRANS	SIMPSON STOPPER	2		5	5	REMAIN			75%	CODOMINANT LEADERS/INCLUDED BARK		
TR135	SWIETENIA MAHAGONI	MAHOGANY	26	Y	35	40	REMOVE	20		75%	CONSTRICTED ROOTS	CLASS A SPECIES	
TR136	DELONIX REGIA	ROYAL POINCIANA	16		20	40	REMAIN			70%	CONSTRICTED ROOTS		
TR137	NOT PRESENT									35%			
TR138	QUERCUS VIRGINIANA	LIVE OAK	28		35	45	REMAIN			40%	ROOT DAMAGE/DECAY		
TR139	QUERCUS VIRGINIANA	LIVE OAK	9		20	25	REMAIN			0%	CONSTRICTED ROOTS		
TR140	DELONIX REGIA	ROYAL POINCIANA	14		25	30	REMAIN			45%	ROOT DAMAGE/DECAY		
TR141	PONGAMIA PINNATA	PONGAM	13		30	45	REMAIN			50%	REDUCED CANOPY (MODERATE)		

GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

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DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-01
SHT # 200
TOTAL: 233
CAD FILE: 12082-MULTI-TINV
DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR142	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		30	10	REMAIN			55%	NUTRIENT DEFICIENCY		
TR143	DELONIX REGIA	ROYAL POINCIANA	7		15	20	REMAIN			55%	LIMB DAMAGE (MINOR)		
TR144	DELONIX REGIA	ROYAL POINCIANA	14		20	30	REMAIN			35%	CAVITIES		
TR145	SWIETENIA MAHAGONI	MAHOGANY	27		30	45	REMAIN			70%	CONSTRICTED ROOTS AND ROOT DAMAGE		
TR146	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	6		20	10	REMAIN			65%	NUTRIENT DEFICIENCY		
TR147	ADONIDIA MERRILLII	CHRISTMAS PALM	12	N	10	15	REMOVE		1	25%			
TR148	ADONIDIA MERRILLII	CHRISTMAS PALM	14		15	15	REMAIN			70%			
TR149	QUERCUS VIRGINIANA	LIVE OAK	30		40	65	REMAIN			80%	CONSTRICTED ROOTS		
TR150	ADONIDIA MERRILLII	CHRISTMAS PALM	5		20	10	REMAIN			80%	SUPPRESSED CANOPY		
TR151	BURSERA SIMARUBA	GUMBO LIMBO	15		30	25	REMAIN			45%	WEAK BRANCH ATTACHMENT(S)		
TR152	ADONIDIA MERRILLII	CHRISTMAS PALM	9		20	15	REMAIN			80%			
TR153	COCCOLOBA UVIFERA	SEA GRAPE	14		20	20	REMAIN			60%	BASAL CODOMINANT		
TR154	SWIETENIA MAHAGONI	MAHOGANY	9		20	20	REMAIN			80%	GIRDLING ROOTS		
TR155	TABEBUIA CARAIBA	YELLOW TABEBUIA	2		5	5	REMAIN			55%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR156	SWIETENIA MAHAGONI	MAHOGANY	28		40	65	REMAIN			60%	CONSTRICTED ROOTS		
TR157	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	9		30	15	REMAIN			75%	RESTRICTED CANOPY		
TR158	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		10	10	REMAIN			30%			
TR159	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		15	10	REMAIN			75%			
TR160	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		10	10	REMAIN			80%			
TR161	COCOS NUCIFERA	COCONUT PALM	7		30	15	REMAIN			80%			
TR162	COCOS NUCIFERA	COCONUT PALM	9		30	15	REMAIN			80%			
TR163	VEITCHIA ARECINA	MONTGOMERY PALM	9		30	15	REMAIN			80%			
TR164	VEITCHIA ARECINA	MONTGOMERY PALM	8		30	15	REMAIN			80%			
TR165	VEITCHIA ARECINA	MONTGOMERY PALM	9		30	15	REMAIN			80%			
TR166	SWIETENIA MAHAGONI	MAHOGANY	16		25	25	REMAIN			80%	CONSTRICTED ROOTS		
TR167	COCOS NUCIFERA	COCONUT PALM	11		30	15	REMAIN			80%			
TR168	SWIETENIA MAHAGONI	MAHOGANY	19		30	35	REMAIN			45%	CONSTRICTED ROOTS		
TR169	COCOS NUCIFERA	COCONUT PALM	11		30	15	REMAIN			80%			
TR170	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		20	10	REMAIN			35%			
TR171	TERMINALIA BUCERAS	BLACK OLIVE	24		35	45	REMAIN			80%	CONSTRICTED ROOTS		
TR172	WODYETIA BIFURCATA	FOXTAIL PALM	7	N	10	10	REMOVE		1	80%	NUTRIENT DEFICIENCY		
TR173	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			50%	RESTRICTED CANOPY		
TR174	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	10	REMAIN			70%			
TR175	SWIETENIA MAHAGONI	MAHOGANY	43		40	75	REMAIN			75%	CONSTRICTED ROOTS		
TR176	LIVISTONA CHINENSIS	CHINESE FAN PALM	11		5	10	REMAIN			80%			
TR177	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	32		20	20	REMAIN			35%			
TR178	PHOENIX ROEBELENII	PYGMY DATE PALM	14		10	15	REMAIN			80%			
TR179	DELONIX REGIA	ROYAL POINCIANA	17		30	50	REMAIN			75%	CONSTRICTED ROOTS		
TR180	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	13		10	10	REMAIN			75%			
TR181	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	16		7	10	REMAIN			60%	TRUNK DAMAGE (MINOR)		
TR182	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR183	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			75%			
TR184	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			80%			
TR185	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR186	COCOS NUCIFERA	COCONUT PALM	8		7	20	REMAIN			80%	NUTRIENT DEFICIENCY		
TR187	CORDIA SEBESTENA	ORANGE GEIGER	4		15	10	REMAIN			75%	LEANING (MODERATE)		
TR188	ROYSTONEA REGIA	ROYAL PALM	9		10	15	REMAIN			60%	NUTRIENT DEFICIENCY		
TR189	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	7		15	15	REMAIN			70%			
TR190	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	10	REMAIN			70%			
TR191	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		15	10	REMAIN			80%			
TR192	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR193	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR194	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	10	REMAIN			80%			
TR195	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR196	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	8		15	10	REMAIN			80%	LEADER - DEAD		
TR197	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	10	REMAIN			80%			
TR198	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			60%			
TR199	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		8	5	REMAIN			80%	NUTRIENT DEFICIENCY		
TR200	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR201	COCOS NUCIFERA	COCONUT PALM	6		3	10	REMAIN			60%	NUTRIENT DEFICIENCY		
TR202	CORDIA SEBESTENA	ORANGE GEIGER	4		15	10	REMAIN			50%			
TR203	COCOS NUCIFERA	COCONUT PALM	8		8	15	REMAIN			70%			
TR204	DELONIX REGIA	ROYAL POINCIANA	18		25	40	REMAIN			75%	CONSTRICTED ROOTS		
TR205	DELONIX REGIA	ROYAL POINCIANA	15		25	40	REMAIN			80%	CONSTRICTED ROOTS		
TR206	DELONIX REGIA	ROYAL POINCIANA	15		20	30	REMAIN			55%	CONSTRICTED ROOTS		
TR207	DELONIX REGIA	ROYAL POINCIANA	18		20	35	REMAIN			60%	CONSTRICTED ROOTS		
TR208	DELONIX REGIA	ROYAL POINCIANA	14		20	30	REMAIN			35%	CONSTRICTED ROOTS		
TR209	ADONIDIA MERRILLII	CHRISTMAS PALM	13		5	15	REMAIN			45%			
TR210	DELONIX REGIA	ROYAL POINCIANA	13		15	20	REMAIN			50%	CAVITIES WITH DECAY		
TR211	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			80%			
TR212	FILICIUM DECIPIENS	JAPANESE FERN TREE	4		10	15	REMAIN			35%	TRUNK DAMAGE (MINOR)		
TR213	ADONIDIA MERRILLII	CHRISTMAS PALM	9		10	15	REMAIN			80%			
TR214	DELONIX REGIA	ROYAL POINCIANA	19		25	50	REMAIN			70%	CONSTRICTED ROOTS		
TR215	QUERCUS VIRGINIANA	LIVE OAK	12		25	20	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR216	SYAGRUS ROMANZOFFIANA	QUEEN PALM	11	N	15	20	REMOVE		1	45%			
TR217	QUERCUS VIRGINIANA	LIVE OAK	19		40	30	REMAIN			70%	CONSTRICTED ROOTS		
TR218	DELONIX REGIA	ROYAL POINCIANA	18		25	35	REMAIN			75%	CONSTRICTED ROOTS		
TR219	DELONIX REGIA	ROYAL POINCIANA	20		30	40	REMAIN			55%	CONSTRICTED ROOTS		
TR220	ADONIDIA MERRILLII	CHRISTMAS PALM	7		15	10	REMAIN			50%			
TR221	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	11		15	10	REMAIN			45%			
TR222	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	5		15	10	REMAIN			80%			
TR223	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		25	15	REMAIN			80%			
TR224	ROYSTONEA REGIA	ROYAL PALM	21		35	15	REMAIN			80%			
TR225	ROYSTONEA REGIA	ROYAL PALM	20		35	15	REMAIN			80%			
TR226	SYAGRUS ROMANZOFFIANA	QUEEN PALM	11		25	20	REMAIN			80%			
TR227	ROYSTONEA REGIA	ROYAL PALM	17		35	15	REMAIN			80%	RESTRICTED CANOPY		
TR228	SWIETENIA MAHAGONI	MAHOGANY	19		35	35	REMAIN			75%	CONSTRICTED ROOTS		
TR229	DELONIX REGIA	ROYAL POINCIANA	17		25	30	REMAIN			75%	CONSTRICTED ROOTS		
TR230	QUERCUS VIRGINIANA	LIVE OAK	11		25	20	REMAIN			50%	CODOMINANT LEADER REMOVED		
TR231	ROYSTONEA REGIA	ROYAL PALM	15		35	15	REMAIN			60%			
TR232	QUERCUS VIRGINIANA	LIVE OAK	11		20	20	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR233	BURSERA SIMARUBA	GUMBO LIMBO	11		20	25	REMAIN			80%	GIRDLING ROOTS		
TR234	BURSERA SIMARUBA	GUMBO LIMBO	13		25	25	REMAIN			60%	ROOT DAMAGE		
TR235	BURSERA SIMARUBA	GUMBO LIMBO	11		20	20	REMAIN			40%	GIRDLING ROOTS		
TR236	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	7		15	10	REMAIN			65%			
TR237	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	7		20	15	REMAIN			55%			
TR238	QUERCUS VIRGINIANA	LIVE OAK	14		25	20	REMAIN			80%	CONSTRICTED ROOTS		
TR239	SABAL PALMETTO	CABBAGE PALM	10		15	10	REMAIN			80%	LEADER - BENT		
TR240	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	10		10	10	REMAIN			45%			
TR241	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	10		10	10	REMAIN			75%			
TR242	SABAL PALMETTO	CABBAGE PALM	8		15	10	REMAIN			80%			
TR243	PHOENIX DACTYLIFERA	DATE PALM	12		10	15	REMAIN			80%			
TR244	SABAL PALMETTO	CABBAGE PALM	10		15	10	REMAIN			80%			
TR245	NOT PRESENT									80%			
TR246	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	17		20	25	REMAIN			80%	CONSTRICTED ROOTS		
TR247	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	3		15	10	REMAIN			0%	GIRDLING ROOTS		
TR248	NOT PRESENT									60%			
TR249	COCOS NUCIFERA	COCONUT PALM	9	N	20	20	REMOVE		1	60%			
TR250	COCOS NUCIFERA	COCONUT PALM	10		20	10	REMAIN			0%	NUTRIENT DEFICIENCY		
TR251	COCOS NUCIFERA	COCONUT PALM	9		15	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR252	SWIETENIA MAHAGONI	MAHOGANY	19		30	35	REMAIN			60%	CONSTRICTED ROOTS AND ROOT DAMAGE		
TR253	BURSERA SIMARUBA	GUMBO LIMBO	14		20	20	REMAIN			70%	CONSTRICTED ROOTS		
TR254	BAUHINIA BLAKEANA	HONG KONG ORCHID TREE	3		15	15	REMAIN			40%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR255	QUERCUS VIRGINIANA	LIVE OAK	11		25	30	REMAIN			45%	ROOT FLAIR (NONE)		
TR256	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	7		15	15	REMAIN			70%	BROKEN BRANCHES		
TR257	THRINAX RADIATA	FLORIDA THATCH PALM	3		5	5	REMAIN			40%	NUTRIENT DEFICIENCY		
TR258	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	6		15	15	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR259	WODYETIA BIFURCATA	FOXTAIL PALM	10		10	10	REMAIN			60%			
TR260	DELONIX REGIA	ROYAL POINCIANA	9		15	25	REMAIN			75%	WEAK BRANCH ATTACHMENT(S)		
TR261	PONGAMIA PINNATA	PONGAM	9		30	20	REMAIN			80%	CODOMINANT LEADERS/INCLUDED BARK		
TR262	DELONIX REGIA	ROYAL POINCIANA	17		30	35	REMAIN			50%	ROOT DAMAGE		
TR263	DELONIX REGIA	ROYAL POINCIANA	24		35	40	REMAIN			60%	CONSTRICTED ROOTS		
TR264	SWIETENIA MAHAGONI	MAHOGANY	39		35	45	REMAIN			35%	CONSTRICTED ROOTS		
TR265	QUERCUS VIRGINIANA	LIVE OAK	18		30	35	REMAIN			35%	CONSTRICTED ROOTS		
TR266	WODYETIA BIFURCATA	FOXTAIL PALM	4	N	5	10	REMOVE		1	35%			
TR267	SYAGRUS ROMANZOFFIANA	QUEEN PALM	10		20	15	REMAIN			40%			
TR268	WODYETIA BIFURCATA	FOXTAIL PALM	10		10	15	REMAIN			80%			
TR269	HIBISCUS SP.	HIBISCUS	19		5	10	REMAIN			80%	PRUNED INTO SHRUB		
TR270	SYAGRUS ROMANZOFFIANA	QUEEN PALM	11		20	15	REMAIN			80%			
TR271	SYAGRUS ROMANZOFFIANA	QUEEN PALM	8		15	15	REMAIN			55%	LEANING (MODERATE)		
TR272	BURSERA SIMARUBA	GUMBO LIMBO	19		20	30	REMAIN			80%	CONSTRICTED ROOTS		
TR273	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		15	15	REMAIN			75%			
TR274	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	13		10	15	REMAIN			35%			
TR275	QUERCUS VIRGINIANA	LIVE OAK	17		20	30	REMAIN			80%	CONSTRICTED ROOTS		
TR276	QUERCUS VIRGINIANA	LIVE OAK	12		20	25	REMAIN			80%	CONSTRICTED ROOTS		
TR277	BULNESIA ARBOREA	VERAWOOD TREE	11		15		REMAIN			45%	DEAD		
TR278	PANDANUS UTILIS	SCREW PINE	66		20	20	REMAIN			60%	CROWN DENSITY - MODERATE		
TR279	DELONIX REGIA	ROYAL POINCIANA	14		25	35	REMAIN			0%	GIRDLING ROOTS		
TR280	DELONIX REGIA	ROYAL POINCIANA	26		30	50	REMAIN			60%	CONSTRICTED ROOTS		

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GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

ISSUED FOR BID

SHEET NO. TI-02 | SHT # 201

TOTAL: 233

CAD FILE: 12082-MULTI-TINV

DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR281	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	7		20	15	REMAIN			35%	LEANING (MODERATE)		
TR282	CHORISIA SPECIOSA	SILK FLOSS TREE	6		20	15	REMAIN			35%	CROWN DENSITY - LOW		
TR283	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	9		20	15	REMAIN			65%	LEANING (MODERATE)		
TR284	ADONIDIA MERRILLII	CHRISTMAS PALM	12		10	15	REMAIN			65%			
TR285	ADONIDIA MERRILLII	CHRISTMAS PALM	9		10	15	REMAIN			60%			
TR286	ADONIDIA MERRILLII	CHRISTMAS PALM	10		10	15	REMAIN			80%			
TR287	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	32		35	50	REMAIN			80%	CONSTRICTED ROOTS		
TR288	DELONIX REGIA	ROYAL POINCIANA	12		25	25	REMAIN			80%	CODOMINANT LEADER FAILURE		
TR289	DELONIX REGIA	ROYAL POINCIANA	18		30	45	REMAIN			40%	CONSTRICTED ROOTS		
TR290	SPATHODEA CAMPANULATA	AFRICAN TULIP	6		15	15	REMAIN			50%	TIP DIEBACK		
TR291	SPATHODEA CAMPANULATA	AFRICAN TULIP	17		20	20	REMAIN			55%	TIP DIEBACK		
TR292	ADONIDIA MERRILLII	CHRISTMAS PALM	7		20	15	REMAIN			30%	CODOMINANT LEADER REMOVED		
TR293	SPATHODEA CAMPANULATA	AFRICAN TULIP	15		20	25	REMAIN			45%	TRUNK DAMAGE (MODERATE)		
TR294	SPATHODEA CAMPANULATA	AFRICAN TULIP	20		30	30	REMAIN			75%	CONSTRICTED ROOTS		
TR295	SPATHODEA CAMPANULATA	AFRICAN TULIP	17		20	20	REMAIN			35%	CONSTRICTED ROOTS		
TR296	DYPSIS LUTESCENS	ARECA PALM	56		15	15	REMAIN			40%	CLUSTER		
TR297	NOT PRESENT									30%			
TR298	COCOS NUCIFERA	COCONUT PALM	10		15	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR299	VEITCHIA ARECINA	MONTGOMERY PALM	6		15	15	REMAIN			0%			
TR300	VEITCHIA ARECINA	MONTGOMERY PALM	7		15	15	REMAIN			70%			
TR301	VEITCHIA ARECINA	MONTGOMERY PALM	8		20	15	REMAIN			80%			
TR302	DELONIX REGIA	ROYAL POINCIANA	18		25	45	REMAIN			80%	CONSTRICTED ROOTS		
TR303	COCOS NUCIFERA	COCONUT PALM	10		15	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR304	DELONIX REGIA	ROYAL POINCIANA	15		20	35	REMAIN			40%	TRUNK DAMAGE (MINOR)		
TR305	DELONIX REGIA	ROYAL POINCIANA	12		20	40	REMAIN			70%	TRUNK DAMAGE (MODERATE)		
TR306	PONGAMIA PINNATA	PONGAM	17		30	40	REMAIN			50%	REDUCED CANOPY (MODERATE)		
TR307	DELONIX REGIA	ROYAL POINCIANA	19		30	45	REMAIN			45%	CAVITIES WITH DECAY		
TR308	DELONIX REGIA	ROYAL POINCIANA	14		30	45	REMAIN			50%	ROOT DAMAGE		
TR309	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	29		60	20	REMAIN			45%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR310	DELONIX REGIA	ROYAL POINCIANA	18		15	15	REMAIN			45%	CONSTRICTED ROOTS		
TR311	DELONIX REGIA	ROYAL POINCIANA	30		25	50	REMAIN			70%	BASAL CODOMINANT/INCLUDED BARK		
TR312	YUCCA SP.	YUCCA	9		10	5	REMAIN			50%			
TR313	DELONIX REGIA	ROYAL POINCIANA	10		15	15	REMAIN			40%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR314	BURSERA SIMARUBA	GUMBO LIMBO	7		15	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR315	DELONIX REGIA	ROYAL POINCIANA	12		15	25	REMAIN			50%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR316	ADONIDIA MERRILLII	CHRISTMAS PALM	4		5	10	REMAIN			70%			
TR317	DELONIX REGIA	ROYAL POINCIANA	17		25	50	REMAIN			50%	ROOT DAMAGE		
TR318	SYAGRUS ROMANZOFFIANA	QUEEN PALM	10		15	15	REMAIN			80%			
TR319	QUERCUS VIRGINIANA	LIVE OAK	7		25	15	REMAIN			40%	STUBS WITH SPROUTS		
TR320	DELONIX REGIA	ROYAL POINCIANA	15		25	40	REMAIN			80%	CONSTRICTED ROOTS		
TR321	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	15	REMAIN			65%	NUTRIENT DEFICIENCY		
TR322	SWIETENIA MAHAGONI	MAHOGANY	15		30	35	REMAIN			50%	CODOMINANT LEADERS - MULTI/INCLUDED BARK		
TR323	CASSIA FISTULA	GOLDEN SHOWER TREE	12		25	25	REMAIN			70%	CONSTRICTED ROOTS		
TR324	CASSIA FISTULA	GOLDEN SHOWER TREE	16		25	30	REMAIN			50%	CONSTRICTED ROOTS		
TR325	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	11		3	10	REMAIN			40%	SUPPRESSED CANOPY		
TR326	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	10		25	25	REMAIN			35%	CONSTRICTED ROOTS		
TR327	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	4		10	10	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR328	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	3		10	10	REMAIN			50%	DISCOLORED FOLIAGE		
TR329	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	5		15	10	REMAIN			65%	CODOMINANT LEADERS - MULTI		
TR330	QUERCUS VIRGINIANA	LIVE OAK	11		25	25	REMAIN			55%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR331	PHOENIX ROEBELENII	PYGMY DATE PALM	3		5	10	REMAIN			70%			
TR332	QUERCUS VIRGINIANA	LIVE OAK	12		25	25	REMAIN			65%	CONSTRICTED ROOTS		
TR333	QUERCUS VIRGINIANA	LIVE OAK	26		25	30	REMAIN			80%	CONSTRICTED ROOTS		
TR334	QUERCUS VIRGINIANA	LIVE OAK	13		25	20	REMAIN			50%	CONSTRICTED ROOTS		
TR335	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	10		10	10	REMAIN			45%			
TR336	QUERCUS VIRGINIANA	LIVE OAK	13		25	20	REMAIN			45%	LEANING (MODERATE)		
TR337	CASSIA FISTULA	GOLDEN SHOWER TREE	13		20	30	REMAIN			80%	CONSTRICTED ROOTS		
TR338	CASSIA FISTULA	GOLDEN SHOWER TREE	13		20	20	REMAIN			40%	CONSTRICTED ROOTS		
TR339	CASSIA FISTULA	GOLDEN SHOWER TREE	13		20	25	REMAIN			45%	CONSTRICTED ROOTS		
TR340	QUERCUS VIRGINIANA	LIVE OAK	20		25	30	REMAIN			50%	BROKEN LIMBS		
TR341	CASSIA FISTULA	GOLDEN SHOWER TREE	8		20	15	REMAIN			50%	CONSTRICTED ROOTS		
TR342	DYPSIS LUTESCENS	ARECA PALM	24		5	10	REMAIN			45%			
TR343	CASSIA FISTULA	GOLDEN SHOWER TREE	12		20	20	REMAIN			45%	CONSTRICTED ROOTS		
TR344	CASSIA FISTULA	GOLDEN SHOWER TREE	9		20	20	REMAIN			80%	CONSTRICTED ROOTS		
TR345	QUERCUS VIRGINIANA	LIVE OAK	12		25	25	REMAIN			50%	CODOMINANT LEADERS - MULTI		
TR346	QUERCUS VIRGINIANA	LIVE OAK	24		25	25	REMAIN			50%	CONSTRICTED ROOTS		
TR347	QUERCUS VIRGINIANA	LIVE OAK	20		30	35	REMAIN			40%	CONSTRICTED ROOTS		
TR348	CASSIA FISTULA	GOLDEN SHOWER TREE	14		25	30	REMAIN			40%	CONSTRICTED ROOTS		
TR349	DYPSIS LUTESCENS	ARECA PALM	27		5	15	REMAIN			40%			
TR350	QUERCUS VIRGINIANA	LIVE OAK	22		30	30	REMAIN			50%	CONSTRICTED ROOTS		
TR377	TERMINALIA BUCERAS	BLACK OLIVE	14		20	20	REMAIN			80%	UTILITY PRUNED		
TR378	LIVISTONA CHINENSIS	CHINESE FAN PALM	11		10	10	REMAIN			40%			
TR379	LIVISTONA CHINENSIS	CHINESE FAN PALM	11		3	10	REMAIN			40%			
TR380	PHOENIX ROEBELENII	PYGMY DATE PALM	8		10	10	REMAIN			88%	NUTRIENT DEFICIENCY		
TR381	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			80%	NUTRIENT DEFICIENCY		
TR382	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			75%	NUTRIENT DEFICIENCY		
TR383	FICUS BENGHALENSIS	BANAYA TREE	13		10	10	REMAIN			70%	NUTRIENT DEFICIENCY		
TR384	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		5	5	REMAIN			65%	NUTRIENT DEFICIENCY		
TR385	SYAGRUS ROMANZOFFIANA	QUEEN PALM	10		15	15	REMAIN			75%			
TR386	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	5	REMAIN			70%	NUTRIENT DEFICIENCY		
TR387	DELONIX REGIA	ROYAL POINCIANA	17		20	35	REMAIN			80%	GIRDLING ROOTS		
TR388	DELONIX REGIA	ROYAL POINCIANA	11		20	20	REMAIN			70%	CONSTRICTED ROOTS		
TR389	DELONIX REGIA	ROYAL POINCIANA	12		20	15	REMAIN			50%	CONSTRICTED ROOTS		
TR390	COCOS NUCIFERA	COCONUT PALM	8		20	15	REMAIN			35%	UTILITY PRUNED		
TR391	SABAL PALMETTO	CABBAGE PALM	12		25	10	REMAIN			30%	RESTRICTED CANOPY		
TR392	HYOPHORBE LAGENICAULIS	BOTTLE PALM	13		1	5	REMAIN			75%			
TR393	HYOPHORBE LAGENICAULIS	BOTTLE PALM	13		1	5	REMAIN			70%			
TR394	HYOPHORBE LAGENICAULIS	BOTTLE PALM	13		1	5	REMAIN			80%			
TR395	HYOPHORBE LAGENICAULIS	BOTTLE PALM	13		1	5	REMAIN			80%			
TR396	DYPSIS LUTESCENS	ARECA PALM	64		15	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR397	LIVISTONA CHINENSIS	CHINESE FAN PALM	43		25	20	REMAIN			80%			
TR398	DYPSIS LUTESCENS	ARECA PALM	23		10	10	REMAIN			75%	NUTRIENT DEFICIENCY		
TR399	FICUS BENJAMINA	WEEPING FIG	7		15	10	REMAIN			80%	REDUCED CANOPY (MODERATE)		
TR400	FICUS AUREA	STRANGLER FIG	13		15	20	REMAIN			75%	BASAL CODOMINANT/INCLUDED BARK		
TR401		UNID SHRUB 3	8		10	15	REMAIN			70%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR402	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	9		10	15	REMAIN			60%	PRUNED INTO SHRUB		
TR403	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	14		15	10	REMAIN			60%			
TR404	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	11		15	20	REMAIN			70%			
TR405	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR406	BURSERA SIMARUBA	GUMBO LIMBO	4		15	5	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR407	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	13		20	10	REMAIN			80%			
TR408	JATROPHA INTEGERRIMA	PEREGRINA	7		10	10	REMAIN			70%	TRUNK DAMAGE (MODERATE)		
TR409	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	7		5	5	REMAIN			80%	UPROOTED (PARIALLY)		
TR410	ROYSTONEA REGIA	ROYAL PALM	16		20	10	REMAIN			60%	UTILITY PRUNED		
TR411	SWIETENIA MAHAGONI	MAHOGANY	18		25	35	REMAIN			55%	CODOMINANT LEADERS - MULTI/NCLUDED BARK		
TR412	WODYETIA BIFURCATA	FOXTAIL PALM	8		5	10	REMAIN			50%	NUTRIENT DEFICIENCY		
TR413	WODYETIA BIFURCATA	FOXTAIL PALM	5		5	10	REMAIN			35%	NUTRIENT DEFICIENCY		
TR414	WODYETIA BIFURCATA	FOXTAIL PALM	7		5	10	REMAIN			50%	NUTRIENT DEFICIENCY		
TR415	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			40%			
TR416	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			50%			
TR417	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			80%			
TR418	BURSERA SIMARUBA	GUMBO LIMBO	8		15	20	REMAIN			80%	CONSTRICTED ROOTS		
TR419	BURSERA SIMARUBA	GUMBO LIMBO	7		20	20	REMAIN			80%	CONSTRICTED ROOTS		
TR420	BURSERA SIMARUBA	GUMBO LIMBO	12		20	25	REMAIN			60%	CONSTRICTED ROOTS		
TR421	SWIETENIA MAHAGONI	MAHOGANY	16		35	35	REMAIN			60%	CONSTRICTED ROOTS		
TR422	SWIETENIA MAHAGONI	MAHOGANY	16		30	30	REMAIN			55%	CONSTRICTED ROOTS		
TR423	BURSERA SIMARUBA	GUMBO LIMBO	8		20	20	REMAIN			40%	CONSTRICTED ROOTS		
TR424	BURSERA SIMARUBA	GUMBO LIMBO	8		20	25	REMAIN			60%	TRUNK DAMAGE (MINOR)		
TR425	VEITCHIA ARECINA	MONTGOMERY PALM	14		25	15	REMAIN			55%			
TR426	VEITCHIA ARECINA	MONTGOMERY PALM	14		25	15	REMAIN			70%			
TR427	CLERODENDRUM QUADRILOCULARE	STARBURST CLERODENDRON	4		10	10	REMAIN			80%	PRUNED INTO SHRUB		
TR428	SWIETENIA MAHAGONI	MAHOGANY	15		35	30	REMAIN			80%	CONSTRICTED ROOTS		
TR429	BURSERA SIMARUBA	GUMBO LIMBO	8		15	20	REMAIN			65%	ROOT DAMAGE		
TR430	LAGERSTROEMIA INDICA	CREPE MYRTLE	6		10	10	REMAIN			50%	PRUNED INTO SHRUB		
TR431	LAGERSTROEMIA INDICA	CREPE MYRTLE	5		10	10	REMAIN			60%	PRUNED INTO SHRUB		
TR432	BURSERA SIMARUBA	GUMBO LIMBO	7		15	20	REMAIN			75%	GIRDLING ROOTS		
TR433	ADONIDIA MERRILLII	CHRISTMAS PALM	16		10	15	REMAIN			75%			
TR434	TABEBUIA CARAIBA	YELLOW TABEBUIA	10		20	20	REMAIN			55%	LEANING (MODERATE)		
TR435	LATANIA LODDIGESII	BLUE LATAN	8		10	10	REMAIN			80%	OVER-PRUNED		
TR436	LAGERSTROEMIA INDICA	CREPE MYRTLE	6		10	10	REMAIN			65%	PRUNED INTO SHRUB		
TR437	BURSERA SIMARUBA	GUMBO LIMBO	14		20	25	REMAIN			65%	CODOMINANT LEADERS/INCLUDED BARK		
TR438	BURSERA SIMARUBA	GUMBO LIMBO	10		20	20	REMAIN			70%	GIRDLING ROOTS		
TR439	LAGERSTROEMIA INDICA	CREPE MYRTLE	9		10	10	REMAIN			60%	PRUNED INTO SHRUB		
TR440	LAGERSTROEMIA INDICA	CREPE MYRTLE	12		15	15	REMAIN			60%	PRUNED INTO SHRUB		
TR441	LAGERSTROEMIA INDICA	CREPE MYRTLE	7		15	10	REMAIN			70%	PRUNED INTO SHRUB		
TR442	VEITCHIA ARECINA	MONTGOMERY PALM	8		30	10	REMAIN			70%			
TR443	VEITCHIA ARECINA	MONTGOMERY PALM	8		30	10	REMAIN			75%			
TR444	PHOENIX ROEBELENII	PYGMY DATE PALM	8		5	10	REMAIN			80%			
TR445	PHOENIX ROEBELENII	PYGMY DATE PALM	8		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		

GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

ISSUED FOR BID

Hazen

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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-03 | SHT # 202
TOTAL: 233
CAD FILE: 12082–MULTI–TINV
DRAWING FILE NO. 4–144–88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR446	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	11		10	15	REMAIN			80%	PRUNED INTO SHRUB		
TR447	VEITCHIA ARECINA	MONTGOMERY PALM	28		30	20	REMAIN			50%			
TR448	ADONIDIA MERRILLII	CHRISTMAS PALM	18		15	15	REMAIN			70%			
TR449	QUERCUS VIRGINIANA	LIVE OAK	6		20	15	REMAIN			80%	ROOT DAMAGE		
TR450	QUERCUS VIRGINIANA	LIVE OAK	6		20	15	REMAIN			80%	GIRDLING ROOTS		
TR451	QUERCUS LAURIFOLIA	LAUREL OAK	38		40	60	REMAIN			55%	CONSTRICTED ROOTS		
TR452	SWIETENIA MAHAGONI	MAHOGANY	17		35	45	REMAIN			60%	CODOMINANT LEADERS - MULTI		
TR453	CHRYSOPHYLLUM OLIVIFORME	SATIN LEAF	3		10	10	REMAIN			35%	CODOMINANT LEADERS - MULTI		
TR454	CHRYSOPHYLLUM OLIVIFORME	SATIN LEAF	2		10	10	REMAIN			60%			
TR455	QUERCUS VIRGINIANA	LIVE OAK	3		10	5	REMAIN			70%	IMPROPERLY MULCHED		
TR456	QUERCUS VIRGINIANA	LIVE OAK	3		15	10	REMAIN			75%	RECENT INSTALL		
TR457	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		15	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR458	QUERCUS VIRGINIANA	LIVE OAK	21		35	40	REMAIN			75%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR459	QUERCUS VIRGINIANA	LIVE OAK	34		40	60	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR460	QUERCUS VIRGINIANA	LIVE OAK	21		30	50	REMAIN			40%	CONSTRICTED ROOTS		
TR461	PHOENIX DACTYLIFERA	DATE PALM	13		15	20	REMAIN			60%	RESTRICTED CANOPY		
TR462	QUERCUS VIRGINIANA	LIVE OAK	16		35	35	REMAIN			55%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR463	QUERCUS VIRGINIANA	LIVE OAK	19		35	25	REMAIN			75%	ROOT DAMAGE FROM PARKING		
TR464	ADONIDIA MERRILLII	CHRISTMAS PALM	15		10	10	REMAIN			65%			
TR465	DYPSIS LUTESCENS	ARECA PALM	56		15	20	REMAIN			30%			
TR467	ADONIDIA MERRILLII	CHRISTMAS PALM	8		10	10	REMAIN			80%			
TR468	DELONIX REGIA	ROYAL POINCIANA	33		30	55	REMAIN			80%	CONSTRICTED ROOTS		
TR469	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		10	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR470	VEITCHIA ARECINA	MONTGOMERY PALM	9		25	15	REMAIN			30%	NUTRIENT DEFICIENCY		
TR471	BEAUCARNEA RECURVATA	PONYTAIL PALM	8		10	5	REMAIN			25%			
TR472	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			70%	IMPROPERLY MULCHED		
TR473	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			80%	IMPROPERLY MULCHED		
TR474	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			70%	IMPROPERLY MULCHED		
TR475	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			70%	IMPROPERLY MULCHED		
TR477	ADONIDIA MERRILLII	CHRISTMAS PALM	11		20	15	REMAIN			70%	SUPPRESSED CANOPY		
TR478	ADONIDIA MERRILLII	CHRISTMAS PALM	16		20	15	REMAIN			70%			
TR479	MANGIFERA INDICA	MANGO	7		15	15	REMAIN			80%			
TR480	BURSERA SIMARUBA	GUMBO LIMBO	16		20	30	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR481	MANGIFERA INDICA	MANGO	5		15	10	REMAIN			75%	TIP DIEBACK		
TR482	BURSERA SIMARUBA	GUMBO LIMBO	11		30	20	REMAIN			65%	OVER-LIFTED CANOPY		
TR483	BURSERA SIMARUBA	GUMBO LIMBO	15		25	20	REMAIN			25%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR484	BURSERA SIMARUBA	GUMBO LIMBO	17		25	20	REMAIN			50%	CODOMINANT LEADERS - MULTI		
TR485	BURSERA SIMARUBA	GUMBO LIMBO	9		15	20	REMAIN			65%	CONSTRICTED ROOTS		
TR486	BURSERA SIMARUBA	GUMBO LIMBO	16		20	25	REMAIN			50%	GIRDLING ROOTS		
TR487	COCOS NUCIFERA	COCONUT PALM	9		20	15	REMAIN			55%	TRUNK DAMAGE (PREVIOUS INJECTION SITES)		
TR488	BURSERA SIMARUBA	GUMBO LIMBO	12		20	25	REMAIN			30%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR489	BURSERA SIMARUBA	GUMBO LIMBO	10		15	20	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR490	BURSERA SIMARUBA	GUMBO LIMBO	10		15	20	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR493	WODYETIA BIFURCATA	FOXTAIL PALM	10		20	15	REMAIN			70%			
TR494	COCOS NUCIFERA	COCONUT PALM	8		20	15	REMAIN			70%			
TR495	DELONIX REGIA	ROYAL POINCIANA	30		35	45	REMAIN			80%	CODOMINANT LEADERS/INCLUDED BARK		
TR496	QUERCUS VIRGINIANA	LIVE OAK	31		30	40	REMAIN			80%	ROOT DAMAGE/DECAY		
TR497	SWIETENIA MAHAGONI	MAHOGANY	21		35	45	REMAIN			50%	CODOMINANT LEADERS/INCLUDED BARK		
TR498	SWIETENIA MAHAGONI	MAHOGANY	18		30	40	REMAIN			35%	CONSTRICTED ROOTS		
TR499	QUERCUS VIRGINIANA	LIVE OAK	21		30	40	REMAIN			50%	ROOT DAMAGE/DECAY		
TR500	BURSERA SIMARUBA	GUMBO LIMBO	7		20	10	REMAIN			55%	CODOMINANT LEADERS/INCLUDED BARK		
TR501	DELONIX REGIA	ROYAL POINCIANA	13		20	30	REMAIN			45%	CODOMINANT LEADERS - MULTI		
TR502	QUERCUS VIRGINIANA	LIVE OAK	28		30	40	REMAIN			45%	ROOT DAMAGE FROM PARKING		
TR503	QUERCUS VIRGINIANA	LIVE OAK	24		30	35	REMAIN			60%	CONSTRICTED ROOTS		
TR504	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	36		15	20	REMAIN			35%			
TR505	PODOCARPUS MACROPHYLLUS	PODOCARPUS	3		25	5	REMAIN			30%			
TR519	QUERCUS VIRGINIANA	LIVE OAK	9		15	15	REMAIN			80%			
TR520	ADONIDIA MERRILLII	CHRISTMAS PALM	12		15	15	REMAIN			80%			
TR521	VEITCHIA ARECINA	MONTGOMERY PALM	19		15	15	REMAIN			80%	UTILITY PRUNED		
TR522	ADONIDIA MERRILLII	CHRISTMAS PALM	12		15	15	REMAIN			65%	UTILITY PRUNED		
TR523	ADONIDIA MERRILLII	CHRISTMAS PALM	11		15	15	REMAIN			80%	UTILITY PRUNED		
TR524	SWIETENIA MAHAGONI	MAHOGANY	19		35	40	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR525	SWIETENIA MAHAGONI	MAHOGANY	21		35	45	REMAIN			65%	CONSTRICTED ROOTS		
TR526	QUERCUS VIRGINIANA	LIVE OAK	14		30	35	REMAIN			60%	CONSTRICTED ROOTS		
TR527	QUERCUS VIRGINIANA	LIVE OAK	16		25	25	REMAIN			60%	CONSTRICTED ROOTS		
TR528	PLUMERIA SP.	FRANGIPANI	4		15	15	REMAIN			65%	CROWN DENSITY - MODERATE		
TR529	SABAL PALMETTO	CABBAGE PALM	14		10	10	REMAIN			65%			
TR530	CUPANIOPSIS ANACARDIOIDES	CARROTWOOD	14	N	15	10	REMOVE	0		70%	GRAFTED LIMBS OR LEADERS	CLASS F SPECIES	
TR531	SYAGRUS ROMANZOFFIANA	QUEEN PALM	6		15	5	REMAIN			60%	NUTRIENT DEFICIENCY		
TR532	ROYSTONEA REGIA	ROYAL PALM	14		30	15	REMAIN			65%	REDUCED CANOPY (MODERATE)		
TR533	DYPSIS LUTESCENS	ARECA PALM	44		15	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR534	DYPSIS LUTESCENS	ARECA PALM	32		15	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR536	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	3		10	10	REMAIN			75%	CROWN DENSITY - MODERATE		
TR537	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	3		15	15	REMAIN			70%	CROWN DENSITY - MODERATE		
TR538	QUERCUS VIRGINIANA	LIVE OAK	10		20	25	REMAIN			70%	CODOMINANT LEADERS - MULTI		
TR539	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			50%	NUTRIENT DEFICIENCY		
TR540	COCOS NUCIFERA	COCONUT PALM	10		15	20	REMAIN			35%	LEANING (MAJOR)		
TR541	COCOS NUCIFERA	COCONUT PALM	9		15	20	REMAIN			50%	LEANING (MAJOR)		
TR542	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	29		20	20	REMAIN			55%	CONSTRICTED ROOTS		
TR543	SCHEFFLERA ACTINOPHYLLA	UMBRELLA TREE	20		20	20	REMAIN	0		65%	BASAL CODOMINANT	CLASS F SPECIES	
TR544	SABAL PALMETTO	CABBAGE PALM	14		20	15	REMAIN			80%			
TR545	PHOENIX ROEBELENII	PYGMY DATE PALM	2		5	5	REMAIN			70%	NUTRIENT DEFICIENCY		
TR546	ADONIDIA MERRILLII	CHRISTMAS PALM	16		10	15	REMAIN			20%			
TR547	ROYSTONEA REGIA	ROYAL PALM	13		20	10	REMAIN			70%	TRUNK DAMAGE (MINOR)		
TR548	BAMBOO SP.	BAMBOO	76		20	15	REMAIN			65%	DEAD WOOD		
TR549	TERMINALIA BUCERAS	BLACK OLIVE	23		30	35	REMAIN			65%	CONSTRICTED ROOTS		
TR550	FICUS MICROCARPA	INDIAN LAUREL FIG	10		20	20	REMAIN			65%	CONSTRICTED ROOTS		
TR551	QUERCUS VIRGINIANA	LIVE OAK	16		20	10	REMAIN			70%	DEAD		
TR552	QUERCUS LAURIFOLIA	LAUREL OAK	41		30	40	REMAIN			60%	CODOMINANT LEADERS - MULTI/INCLUDED BARK		
TR553	QUERCUS VIRGINIANA	LIVE OAK	8		20	15	REMAIN			65%	TRUNK DAMAGE (MINOR)		
TR554	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	3		10	10	REMAIN			70%	CROWN DENSITY - MODERATE		
TR555	QUERCUS VIRGINIANA	LIVE OAK	9		20	15	REMAIN			70%	CODOMINANT LEADERS - MULTI		
TR556	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	6		15	15	REMAIN			25%	CODOMINANT LEADERS - MULTI		
TR557	QUERCUS VIRGINIANA	LIVE OAK	10		15	20	REMAIN			45%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR558	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	5		15	15	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR559	PSIDIUM CATTLEIANUM	STRAWBERRY GUAVA	8		10	10	REMAIN			60%	PRUNED INTO SHRUB		
TR560	PSIDIUM CATTLEIANUM	STRAWBERRY GUAVA	8		10	10	REMAIN			80%	PRUNED INTO SHRUB		
TR561	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	44		50	50	REMAIN			70%	TRUNK DAMAGE (MODERATE)		
TR562	QUERCUS VIRGINIANA	LIVE OAK	6		15	10	REMAIN			70%	CODOMINANT LEADERS - MULTI		
TR563	PHOENIX DACTYLIFERA	DATE PALM	12		15	15	REMAIN			35%			
TR564	PHOENIX DACTYLIFERA	DATE PALM	24		10	20	REMAIN			40%	FICUS ON TRUNK		
TR565	PHOENIX DACTYLIFERA	DATE PALM	12		15	15	REMAIN			0%			
TR566	FILICIUM DECIPIENS	JAPANESE FERN TREE	7		15	25	REMAIN			40%	CODOMINANT LEADERS - MULTI		
TR567	FILICIUM DECIPIENS	JAPANESE FERN TREE	10		15	25	REMAIN			65%	CODOMINANT LEADERS/INCLUDED BARK		
TR572	NOT PRESENT									70%			
TR577	PHOENIX DACTYLIFERA	DATE PALM	10		15	15	REMAIN			65%			
TR578	PLUMERIA SP.	FRANGIPANI	9		10	15	REMAIN			70%	STUBS WITH SPROUTS		
TR579	PHOENIX DACTYLIFERA	DATE PALM	13		15	15	REMAIN			65%			
TR580	PSIDIUM CATTLEIANUM	STRAWBERRY GUAVA	13		15	20	REMAIN			65%	UPROOTED (PARIALLY)		
TR581	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	24		30	20	REMAIN			75%	BASAL CODOMINANT - MULTI		
TR582	PHOENIX ROEBELENII	PYGMY DATE PALM	16		5	15	REMAIN			75%			
TR583	VEITCHIA ARECINA	MONTGOMERY PALM	14		20	15	REMAIN			40%			
TR584	PHOENIX ROEBELENII	PYGMY DATE PALM	5		5	10	REMAIN			65%			
TR585	QUERCUS VIRGINIANA	LIVE OAK	18		30	30	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR601	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	32		10	15	REMAIN			75%	DEAD WOOD		
TR602	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	26		10	15	REMAIN			80%	PRUNED INTO SHRUB		
TR603	DYPSIS LUTESCENS	ARECA PALM	66		15	20	REMAIN			65%			
TR604	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	19		15	10	REMAIN			60%	OVER-PRUNED		
TR605	DRACAENA SP.	DRACAENA	11		5	5	REMAIN			65%	DEAD WOOD		
TR606	PHOENIX ROEBELENII	PYGMY DATE PALM	6		3	5	REMAIN			70%	NUTRIENT DEFICIENCY		
TR607		UNID PALM	8		5	15	REMAIN			80%			
TR608		UNID PALM	8		5	15	REMAIN			80%			
TR609		UNID PALM	8		5	15	REMAIN			0%			
TR638	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	38		5	15	REMAIN			65%	CLUSTER		
TR639	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	26		20	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR640	SYAGRUS ROMANZOFFIANA	QUEEN PALM	8		15	15	REMAIN			65%			
TR641	SYAGRUS ROMANZOFFIANA	QUEEN PALM	11	N	20	15	REMOVE		1	80%			
TR642	WASHINGTONIA ROBUSTA	WASHINGTONIA	9	N	25	10	REMOVE		1	80%			
TR643	SYAGRUS ROMANZOFFIANA	QUEEN PALM	8		20	15	REMAIN			65%	NUTRIENT DEFICIENCY		
TR644	MORINGA OLEIFERA	MORINGA	8		20	15	REMAIN			80%	CODOMINANT LEADERS/INCLUDED BARK		
TR714	PHOENIX ROEBELENII	PYGMY DATE PALM	14		3	10	REMAIN			50%			
TR715	ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	19		50	25	REMAIN			60%	TRUNK DAMAGE (MODERATE)		
TR716	SWIETENIA MAHAGONI	MAHOGANY	29		35	30	REMAIN			80%	CODOMINANT LEADERS/INCLUDED BARK		
TR717	VEITCHIA ARECINA	MONTGOMERY PALM	5		20	10	REMAIN			80%			
TR718	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	8		10	15	REMAIN			80%			
TR719	DELONIX REGIA	ROYAL POINCIANA	17		10	15	REMAIN			65%	BASAL CODOMINANT		
TR720	PHOENIX DACTYLIFERA	DATE PALM	10		10	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR721	BURSERA SIMARUBA	GUMBO LIMBO	16		25	25	REMAIN			60%	CROWN DENSITY - LOW		
TR722		UNID SHRUB 4	19		10	15	REMAIN			80%	CROWN DENSITY - LOW		

GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

Hazen

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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH
DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-04 | SHT # 203
TOTAL: 233
CAD FILE: 12082-MULTI-TINV
DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR727	LAGERSTROEMIA INDICA	CREPE MYRTLE	10		20	15	REMAIN			70%	CODOMINANT LEADERS - MULTI		
TR728	LAGERSTROEMIA INDICA	CREPE MYRTLE	9		20	15	REMAIN			0%	CODOMINANT LEADERS - MULTI		
TR729	LAGERSTROEMIA INDICA	CREPE MYRTLE	10		20	20	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR730	WODYETIA BIFURCATA	FOXTAIL PALM	9		15	15	REMAIN			80%	UTILITY PRUNED		
TR731	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	15	REMAIN			70%	UTILITY PRUNED		
TR732	WODYETIA BIFURCATA	FOXTAIL PALM	9		15	10	REMAIN			55%	RESTRICTED CANOPY		
TR733	TERMINALIA BUCERAS	BLACK OLIVE	23		45	50	REMAIN			80%	CONSTRICTED ROOTS		
TR734	JATROPHA INTEGERRIMA	PEREGRINA	14		10	20	REMAIN			80%	TRUNK DAMAGE (MODERATE)		
TR735	MANGIFERA INDICA	MANGO	15		25	35	REMAIN			80%	CONSTRICTED ROOTS		
TR736	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	7		10	15	REMAIN			80%			
TR737	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		15	15	REMAIN			45%			
TR738	TERMINALIA BUCERAS	BLACK OLIVE	18		40	30	REMAIN			45%	CONSTRICTED ROOTS		
TR739	BURSERA SIMARUBA	GUMBO LIMBO	6		25	20	REMAIN			65%	LOPSIDED/MODERATELY REDUCED CANOPY		
TR740	ADONIDIA MERRILLII	CHRISTMAS PALM	5		5	10	REMAIN			70%	SUPPRESSED CANOPY		
TR741	SABAL PALMETTO	CABBAGE PALM	11		15	15	REMAIN			80%	SUPPRESSED CANOPY		
TR742	TERMINALIA BUCERAS	BLACK OLIVE	18		35	45	REMAIN			60%	CONSTRICTED ROOTS		
TR743	ADONIDIA MERRILLII	CHRISTMAS PALM	5		15	10	REMAIN			75%			
TR744	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			40%			
TR745	TERMINALIA BUCERAS	BLACK OLIVE	16		35	35	REMAIN			80%	CONSTRICTED ROOTS		
TR746	ADONIDIA MERRILLII	CHRISTMAS PALM	5		15	10	REMAIN			80%			
TR747	TERMINALIA BUCERAS	BLACK OLIVE	15		30	30	REMAIN			80%	CONSTRICTED ROOTS		
TR748	TERMINALIA BUCERAS	BLACK OLIVE	21		35	50	REMAIN			80%	CONSTRICTED ROOTS		
TR749	ADONIDIA MERRILLII	CHRISTMAS PALM	5		4	5	REMAIN			75%			
TR750	TERMINALIA BUCERAS	BLACK OLIVE	18		35	45	REMAIN			80%	CONSTRICTED ROOTS		
TR751	ADONIDIA MERRILLII	CHRISTMAS PALM	3		5	5	REMAIN			80%			
TR752	ADONIDIA MERRILLII	CHRISTMAS PALM	5		15	10	REMAIN			70%			
TR753	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			80%			
TR754	ADONIDIA MERRILLII	CHRISTMAS PALM	6		20	10	REMAIN			70%			
TR755	ADONIDIA MERRILLII	CHRISTMAS PALM	5		20	10	REMAIN			65%			
TR756	ADONIDIA MERRILLII	CHRISTMAS PALM	4		15	10	REMAIN			70%			
TR757	ADONIDIA MERRILLII	CHRISTMAS PALM	5		20	10	REMAIN			80%			
TR758	ADONIDIA MERRILLII	CHRISTMAS PALM	4		15	10	REMAIN			80%			
TR759	ADONIDIA MERRILLII	CHRISTMAS PALM	4		10	5	REMAIN			80%			
TR760	CLERODENDRUM QUADRILOCULARE	STARBURST CLERODENDRON	4		20	5	REMAIN			80%	CROWN DENSITY - LOW		
TR761	TERMINALIA BUCERAS	BLACK OLIVE	21		40	60	REMAIN			0%	CONSTRICTED ROOTS		
TR762	TERMINALIA BUCERAS	BLACK OLIVE	21		35	50	REMAIN			75%	CONSTRICTED ROOTS, LARGE CUT ROOTS		
TR763	FILICIUM DECIPIENS	JAPANESE FERN TREE	4		15	15	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR764	ADONIDIA MERRILLII	CHRISTMAS PALM	5		20	10	REMAIN			70%			
TR765	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	11		15	15	REMAIN			80%			
TR766	QUERCUS VIRGINIANA	LIVE OAK	6		15	15	REMAIN			80%	CONSTRICTED ROOTS		
TR767	FILICIUM DECIPIENS	JAPANESE FERN TREE	6		15	15	REMAIN			70%	TRUNK DAMAGE (MINOR)		
TR768	FILICIUM DECIPIENS	JAPANESE FERN TREE	6		15	20	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR769	TERMINALIA BUCERAS	BLACK OLIVE	27		30	40	REMAIN			80%	CONSTRICTED ROOTS		
TR770	ADONIDIA MERRILLII	CHRISTMAS PALM	3		5	5	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR771	TERMINALIA BUCERAS	BLACK OLIVE	29		48	75	REMAIN			70%	CONSTRICTED ROOTS		
TR772	SWIETENIA MAHAGONI	MAHOGANY	27		40	30	REMAIN			80%	CONSTRICTED ROOTS		
TR773	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			80%	NUTRIENT DEFICIENCY		
TR774	PLUMERIA SP.	FRANGIPANI	10		25	30	REMAIN			80%	GIRDLING ROOTS		
TR775	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	6		15	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR776	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	5		15	10	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR777	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	5		15	15	REMAIN			70%	TRUNK DAMAGE (MINOR)		
TR778	LYSILOMA LATISILIQUIUM	WILD TAMARIND	5		10	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR779	TERMINALIA BUCERAS	BLACK OLIVE	22		40	70	REMAIN			80%	CONSTRICTED ROOTS, LARGE CUT ROOTS		
TR780	SWIETENIA MAHAGONI	MAHOGANY	17		30	40	REMAIN			80%	CONSTRICTED ROOTS		
TR781	SWIETENIA MAHAGONI	MAHOGANY	30		40	40	REMAIN			70%	CONSTRICTED ROOTS		
TR782	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	4		10	10	REMAIN			55%	DEAD WOOD		
TR783	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	4		10	10	REMAIN			70%	DEAD WOOD		
TR784	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	5		15	10	REMAIN			60%	TRUNK DAMAGE (MINOR)		
TR785	DELONIX REGIA	ROYAL POINCIANA	8		20	20	REMAIN			65%	CONSTRICTED ROOTS		
TR786	TERMINALIA BUCERAS	BLACK OLIVE	18		35	30	REMAIN			65%	CONSTRICTED ROOTS AND COMPACTED SOILS		
TR787	WODYETIA BIFURCATA	FOXTAIL PALM	8		15	10	REMAIN			65%	NUTRIENT DEFICIENCY		
TR788	BISMARCKIA NOBILIS	BISMARK PALM	18		25	15	REMAIN			70%			
TR789	CYCAD SP.	CYCAD	16		3	10	REMAIN			80%	OVER-PRUNED		
TR790	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	14		25	15	REMAIN			80%			
TR791	VEITCHIA ARECINA	MONTGOMERY PALM	3		25	15	REMAIN			80%	DAMAGED FRONDS		
TR792	COCOS NUCIFERA	COCONUT PALM	9		25	15	REMAIN			80%			
TR793	VEITCHIA ARECINA	MONTGOMERY PALM	15		25	15	REMAIN			70%			
TR794	THRINAX RADIATA	FLORIDA THATCH PALM	5		10	10	REMAIN			40%	RESTRICTED CANOPY		
TR795	THRINAX RADIATA	FLORIDA THATCH PALM	5		15	10	REMAIN			50%	RESTRICTED CANOPY		
TR796	THRINAX RADIATA	FLORIDA THATCH PALM	5		15	10	REMAIN			65%	RESTRICTED CANOPY		
TR797	THRINAX RADIATA	FLORIDA THATCH PALM	6		15	10	REMAIN			65%	RESTRICTED CANOPY		
TR798	ADONIDIA MERRILLII	CHRISTMAS PALM	16		10	15	REMAIN			55%			
TR799	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	4		15	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR800	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	7		15	15	REMAIN			65%	BASAL CODOMINANT		
TR801	COCOS NUCIFERA	COCONUT PALM	9		20	15	REMAIN			55%			
TR802	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY	3		10	5	REMAIN			65%	PRUNED INTO SHRUB		
TR803	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY	4		10	5	REMAIN			65%	PRUNED INTO SHRUB		
TR804	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY	4		10	5	REMAIN			70%	PRUNED INTO SHRUB		
TR849	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	3		15	10	REMAIN			55%	DEAD		
TR850	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	3		15	10	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR851	BURSERA SIMARUBA	GUMBO LIMBO	7		10	10	REMAIN			45%	CODOMINANT LEADERS/INCLUDED BARK		
TR852	COCOS NUCIFERA	COCONUT PALM	8		20	15	REMAIN			55%			
TR853	ADONIDIA MERRILLII	CHRISTMAS PALM	12		10	15	REMAIN			55%			
TR854	COCOS NUCIFERA	COCONUT PALM	11		1	10	REMAIN			80%	RESTRICTED CANOPY		
TR855	COCOS NUCIFERA	COCONUT PALM	11		1	15	REMAIN			80%	RESTRICTED CANOPY		
TR856	COCCOLOBA UVIFERA	SEA GRAPE	54		40	40	REMAIN			55%	CONSTRICTED ROOTS		
TR857	TERMINALIA BUCERAS	BLACK OLIVE	24		40	50	REMAIN			80%	CONSTRICTED ROOTS		
TR858	PHOENIX ROEBELENII	PYGMY DATE PALM	7		10	15	REMAIN			75%			
TR859	ROYSTONEA REGIA	ROYAL PALM	11		15	15	REMAIN			45%	TRUNK DAMAGE (MODERATE)		
TR860	BURSERA SIMARUBA	GUMBO LIMBO	22		20	15	REMAIN			70%	DEAD WOOD		
TR861	CUPANIOPSIS ANACARDIOIDES	CARROTWOOD	25		20	20	REMAIN	0		80%	DEAD WOOD	CLASS F SPECIES	
TR862	ADONIDIA MERRILLII	CHRISTMAS PALM	31		20	20	REMAIN			80%			
TR863	DYPSIS LUTESCENS	ARECA PALM	68		10	15	REMAIN			80%			
TR864	TABEBUIA CARAIBA	YELLOW TABEBUIA	10		20	15	REMAIN			60%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR865	QUERCUS VIRGINIANA	LIVE OAK	15		30	35	REMAIN			15%	CONSTRICTED ROOTS		
TR866	BURSERA SIMARUBA	GUMBO LIMBO	17		30	35	REMAIN			65%	CONSTRICTED ROOTS AND COMPACTED SOILS		
TR867	QUERCUS VIRGINIANA	LIVE OAK	19		30	40	REMAIN			80%	CONSTRICTED ROOTS		
TR868	QUERCUS VIRGINIANA	LIVE OAK	16		30	40	REMAIN			25%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR869	QUERCUS VIRGINIANA	LIVE OAK	18		30	40	REMAIN			25%	TRUNK DAMAGE (MINOR)		
TR870	QUERCUS VIRGINIANA	LIVE OAK	17		25	30	REMAIN			25%	LOPSIDED/MODERATELY REDUCED CANOPY		
TR871	COCOS NUCIFERA	COCONUT PALM	10		15	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR872	COCOS NUCIFERA	COCONUT PALM	12		20	15	REMAIN			35%	TRUNK DAMAGE (MINOR)		
TR873	COCOS NUCIFERA	COCONUT PALM	10		1	15	REMAIN			80%			
TR874	COCOS NUCIFERA	COCONUT PALM	9		15	15	REMAIN			35%			
TR875	COCOS NUCIFERA	COCONUT PALM	9		15	15	REMAIN			35%			
TR876	COCOS NUCIFERA	COCONUT PALM	9		15	15	REMAIN			75%	TRUNK DAMAGE (MINOR)		
TR877	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	15		25	25	REMAIN			80%	CODOMINANT LEADER FAILURE		
TR878	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			80%			
TR879	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			80%			
TR880	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			75%			
TR881	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			80%			
TR882	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			0%			
TR883	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			80%			
TR884	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			45%			
TR885	COCOS NUCIFERA	COCONUT PALM	10		25	15	REMAIN			50%			
TR886	COCOS NUCIFERA	COCONUT PALM	7		15	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR887	MAGNOLIA ALBA	MAGNOLIA ALBA	4		10	10	REMAIN			70%	TOPPED		
TR888	SYAGRUS ROMANZOFFIANA	QUEEN PALM	6		15	10	REMAIN			55%	PENCIL TOP		
TR889	SYAGRUS ROMANZOFFIANA	QUEEN PALM	7		10	15	REMAIN			70%	CAVITIES		
TR890	LAGERSTROEMIA INDICA	CREPE MYRTLE	9		15	15	REMAIN			40%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR891	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR892	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			80%			
TR893	DELONIX REGIA	ROYAL POINCIANA	18		30	45	REMAIN			80%	CONSTRICTED ROOTS		
TR894	TERMINALIA BUCERAS	BLACK OLIVE	19		30	30	REMAIN			80%	CONSTRICTED ROOTS		
TR895	CUPANIOPSIS ANACARDIOIDES	CARROTWOOD	12		20	20	REMAIN	0		80%	CONSTRICTED ROOTS	CLASS F SPECIES	
TR896	BURSERA SIMARUBA	GUMBO LIMBO	16		20	15	REMAIN			80%	CONSTRICTED ROOTS		
TR897	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	5		15	10	REMAIN			65%	RESTRICTED CANOPY		
TR898	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	13		15	15	REMAIN			35%	TRUNK DAMAGE (MODERATE)		
TR899	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	14		15	15	REMAIN			80%	TRUNK DAMAGE (MODERATE)		
TR901	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	15		10	15	REMAIN			80%			
TR902	PHOENIX ROEBELENII	PYGMY DATE PALM	3		5	10	REMAIN			60%			
TR903	WASHINGTONIA ROBUSTA	WASHINGTONIA	15		10	15	REMAIN			70%			
TR904	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	15	REMAIN			65%			
TR905	COCOS NUCIFERA	COCONUT PALM	11		35	15	REMAIN			40%			
TR906	COCOS NUCIFERA	COCONUT PALM	11		35	15	REMAIN			70%			
TR907	COCOS NUCIFERA	COCONUT PALM	13		40	15	REMAIN			40%			
TR908	COCOS NUCIFERA	COCONUT PALM	11		40	15	REMAIN			70%			
TR909	DYPSIS DECARYI	TRIANGLE PALM	12		15	15	REMAIN			45%	NUTRIENT DEFICIENCY		
TR910	DELONIX REGIA	ROYAL POINCIANA	15		25	35	REMAIN			70%	CONSTRICTED ROOTS		

GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-05 | SHT # 204
TOTAL: 233
CAD FILE: 12082-MULTI-TINV
DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR911	COCOS NUCIFERA	COCONUT PALM	6		1	10	REMAIN			70%			
TR912	COCOS NUCIFERA	COCONUT PALM	9		2	10	REMAIN			70%			
TR913	KIGELIA PINNATA	SAUSAGE TREE	23		45	25	REMAIN			65%	CONSTRICTED ROOTS	CLASS F SPECIES	
TR914	QUERCUS VIRGINIANA	LIVE OAK	36		40	60	REMAIN			65%	BASAL CODOMINANT/INCLUDED BARK		
TR915	SWIETENIA MAHAGONI	MAHOGANY	19		30	25	REMAIN			65%	CONSTRICTED ROOTS		
TR916	COCOS NUCIFERA	COCONUT PALM	10		25	15	REMAIN			50%			
TR917	COCOS NUCIFERA	COCONUT PALM	9		20	15	REMAIN			65%			
TR918	BOUGAINVILLEA SP.	BOUGAINVILLEA	3		5	5	REMAIN			50%	PRUNED INTO SHRUB		
TR919	PHOENIX ROEBELENII	PYGMY DATE PALM	5		5	10	REMAIN			80%			
TR920	PHOENIX ROEBELENII	PYGMY DATE PALM	2		3	3	REMAIN			75%	NUTRIENT DEFICIENCY		
TR921	SABAL PALMETTO	CABBAGE PALM	13		15	10	REMAIN			80%			
TR922	SCHEFFLERA ACTINOPHYLLA	UMBRELLA TREE	12		28	20	REMAIN			30%	CONSTRICTED ROOTS		
TR923	DELONIX REGIA	ROYAL POINCIANA	19		0	40	REMAIN			35%	CODOMINANT LEADERS -- MULTI		
TR924	DYPSIS LUTESCENS	ARECA PALM	24		5	15	REMAIN			80%			
TR925	FICUS AUREA	STRANGLER FIG	0		35	70	REMAIN			35%	CONSTRICTED ROOTS		
TR926	DELONIX REGIA	ROYAL POINCIANA	12		25	30	REMAIN			50%	CONSTRICTED ROOTS		
TR927	DELONIX REGIA	ROYAL POINCIANA	7		15	15	REMAIN			65%	ROOT DAMAGE		
TR928	DELONIX REGIA	ROYAL POINCIANA	13		25	45	REMAIN			50%	CONSTRICTED ROOTS		
TR929	DELONIX REGIA	ROYAL POINCIANA	17		25	45	REMAIN			50%	CONSTRICTED ROOTS		
TR930	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	8		20	20	REMAIN			40%	CONSTRICTED ROOTS		
TR932	ROYSTONEA REGIA	ROYAL PALM	17		40	15	REMAIN			80%			
TR933	ROYSTONEA REGIA	ROYAL PALM	14		25	15	REMAIN			75%			
TR934	ROYSTONEA REGIA	ROYAL PALM	18		40	15	REMAIN			80%	NUTRIENT DEFICIENCY		
TR935	ROYSTONEA REGIA	ROYAL PALM	17		35	15	REMAIN			80%			
TR936	ROYSTONEA REGIA	ROYAL PALM	16		40	15	REMAIN			80%			
TR937	ADONIDIA MERRILLII	CHRISTMAS PALM	19		15	20	REMAIN			80%			
TR938	BURSERA SIMARUBA	GUMBO LIMBO	21		30	30	REMAIN			80%	ROOT DAMAGE/DECAY		
TR939	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	10	REMAIN			35%			
TR940	PHOENIX ROEBELENII	PYGMY DATE PALM	13		5	10	REMAIN			70%			
TR941	WODYETIA BIFURCATA	FOXTAIL PALM	12		15	15	REMAIN			80%			
TR942	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	10	REMAIN			80%			
TR943	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	10	REMAIN			45%			
TR944	BURSERA SIMARUBA	GUMBO LIMBO	15		25	25	REMAIN			80%	GIRDLING ROOTS		
TR945	NOT PRESENT									80%			
TR946	CLUSIA ROSEA	PITCH APPLE	3		10	10	REMAIN			45%			
TR947	CLUSIA ROSEA	PITCH APPLE	3		10	10	REMAIN			80%			
TR948	CLUSIA ROSEA	PITCH APPLE	3		10	10	REMAIN			30%			
TR949	DRACAENA SP.	DRACAENA	5		5	5	REMAIN			40%			
TR950	DRACAENA SP.	DRACAENA	7		5	5	REMAIN			80%			
TR951	WODYETIA BIFURCATA	FOXTAIL PALM	12		15	15	REMAIN			50%			
TR952	ADONIDIA MERRILLII	CHRISTMAS PALM	18		15	15	REMAIN			80%			
TR953	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	15	REMAIN			80%			
TR954	ADONIDIA MERRILLII	CHRISTMAS PALM	18		15	20	REMAIN			80%			
TR955	WASHINGTONIA ROBUSTA	WASHINGTONIA	10		30	15	REMAIN			80%			
TR956	WASHINGTONIA ROBUSTA	WASHINGTONIA	10		30	15	REMAIN			80%			
TR957	WASHINGTONIA ROBUSTA	WASHINGTONIA	12		30	15	REMAIN			80%			
TR958	WASHINGTONIA ROBUSTA	WASHINGTONIA	12		30	15	REMAIN			80%			
TR959	WASHINGTONIA ROBUSTA	WASHINGTONIA	12		30	15	REMAIN			80%			
TR960	THRINAX RADIATA	FLORIDA THATCH PALM	4		10	10	REMAIN			80%			
TR961	WASHINGTONIA ROBUSTA	WASHINGTONIA	10		30	15	REMAIN			10%			
TR962	QUERCUS VIRGINIANA	LIVE OAK	12		20	20	REMAIN			45%	WEAK BRANCH ATTACHMENT(S)		
TR963	QUERCUS VIRGINIANA	LIVE OAK	11		20	20	REMAIN			35%	RESTRICTED CANOPY		
TR964	QUERCUS VIRGINIANA	LIVE OAK	10		20	20	REMAIN			75%	RESTRICTED CANOPY		
TR965	ROYSTONEA REGIA	ROYAL PALM	13		35	15	REMAIN			80%			
TR966	DELONIX REGIA	ROYAL POINCIANA	10		15	25	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR967	ROYSTONEA REGIA	ROYAL PALM	14		25	15	REMAIN			50%	NUTRIENT DEFICIENCY		
TR968	BURSERA SIMARUBA	GUMBO LIMBO	15		20	25	REMAIN			70%	CONSTRICTED ROOTS		
TR969	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	5	REMAIN			70%			
TR970	COCOS NUCIFERA	COCONUT PALM	9		30	15	REMAIN			30%	TRUNK DAMAGE (MINOR)		
TR971	QUERCUS VIRGINIANA	LIVE OAK	6		15	15	REMAIN			75%	LEANING (MINOR)		
TR972	QUERCUS VIRGINIANA	LIVE OAK	5		10	10	REMAIN			35%	ROOT FLAIR (NONE)		
TR973	DYPSIS DECARYI	TRIANGLE PALM	17		15	20	REMAIN			25%			
TR974	ADONIDIA MERRILLII	CHRISTMAS PALM	12		5	15	REMAIN			70%			
TR975	ADONIDIA MERRILLII	CHRISTMAS PALM	15		5	15	REMAIN			60%			
TR976	PHOENIX DACTYLIFERA	DATE PALM	5		10	10	REMAIN			70%	NUTRIENT DEFICIENCY		
TR977	SYAGRUS ROMANZOFFIANA	QUEEN PALM	11		15	15	REMAIN			70%	TAPERED TRUNK		
TR978	ADONIDIA MERRILLII	CHRISTMAS PALM	17		5	15	REMAIN			70%			
TR979	DELONIX REGIA	ROYAL POINCIANA	13		20	30	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR980	ADONIDIA MERRILLII	CHRISTMAS PALM	13		5	10	REMAIN			40%			
TR981	ADONIDIA MERRILLII	CHRISTMAS PALM	7		5	10	REMAIN			30%			
TR982	LAGERSTROEMIA INDICA	CREPE MYRTLE	5		15	10	REMAIN			30%			
TR983	LAGERSTROEMIA INDICA	CREPE MYRTLE	3		15	10	REMAIN			75%			
TR984	LAGERSTROEMIA INDICA	CREPE MYRTLE	5		15	10	REMAIN			75%			
TR985	YUCCA SP.	YUCCA	6		10	10	REMAIN			70%			
TR986	MANGIFERA INDICA	MANGO	18		40	35	REMAIN			45%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR987	DYPSIS LUTESCENS	ARECA PALM	23		10	15	REMAIN			40%			
TR988	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			35%	LEADER - BENT		
TR989	ADONIDIA MERRILLII	CHRISTMAS PALM	8		15	15	REMAIN			80%			
TR990	COCOS NUCIFERA	COCONUT PALM	9		5	15	REMAIN			70%	RESTRICTED CANOPY		
TR991	COCOS NUCIFERA	COCONUT PALM	11		3	15	REMAIN			75%	RESTRICTED CANOPY		
TR992	COCOS NUCIFERA	COCONUT PALM	9		20	10	REMAIN			75%	OVER-PRUNED		
TR993	DYPSIS LUTESCENS	ARECA PALM	17		15	15	REMAIN			80%			
TR994	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		20	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR995	COCOS NUCIFERA	COCONUT PALM	9		25	15	REMAIN			80%	UTILITY PRUNED		
TR996	COCOS NUCIFERA	COCONUT PALM	11		25	15	REMAIN			80%	UTILITY PRUNED		
TR998	TABEBUIA CARAIBA	YELLOW TABEBUIA	9		15	15	REMAIN			80%	CODOMINANT LEADER FAILURE		
TR999	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	15	REMAIN			80%			
TR1000	BURSERA SIMARUBA	GUMBO LIMBO	10		15	30	REMAIN			80%	CONSTRICTED ROOTS		
TR1001	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	15	REMAIN			70%			
TR1002	BURSERA SIMARUBA	GUMBO LIMBO	22		25	30	REMAIN			65%	CONSTRICTED ROOTS		
TR1003	BURSERA SIMARUBA	GUMBO LIMBO	13		20	25	REMAIN			80%	CONSTRICTED ROOTS		
TR1004	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	8		20	20	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR1005	WODYETIA BIFURCATA	FOXTAIL PALM	10		20	15	REMAIN			75%			
TR1006	YUCCA SP.	YUCCA	9		15	10	REMAIN			75%	RESTRICTED CANOPY		
TR1007	COCOS NUCIFERA	COCONUT PALM	14		20	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR1008	COCOS NUCIFERA	COCONUT PALM	12		20	15	REMAIN			45%	NUTRIENT DEFICIENCY		
TR1009	COCOS NUCIFERA	COCONUT PALM	12		30	15	REMAIN			60%	UTILITY PRUNED		
TR1010	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			80%			
TR1011	THRINAX RADIATA	FLORIDA THATCH PALM	3		20	0	REMAIN			75%	DEAD		
TR1012	MANGIFERA INDICA	MANGO	10		25	25	REMAIN			75%	UTILITY PRUNED		
TR1013	MANGIFERA INDICA	MANGO	14		25	25	REMAIN			70%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR1014	QUERCUS VIRGINIANA	LIVE OAK	28		40	55	REMAIN			75%	CONSTRICTED ROOTS		
TR1015	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	13		10	15	REMAIN			50%	PRUNED INTO SHRUB		
TR1016	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	12		10	15	REMAIN			40%	PRUNED INTO SHRUB		
TR1017	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	7		10	15	REMAIN			75%	SLOUGHING BARK		
TR1018	DELONIX REGIA	ROYAL POINCIANA	25		35	75	REMAIN			75%	CONSTRICTED ROOTS		
TR1019	SABAL PALMETTO	CABBAGE PALM	21		10	10	REMAIN			75%			
TR1020	SABAL PALMETTO	CABBAGE PALM	14		15	10	REMAIN			70%			
TR1021	SABAL PALMETTO	CABBAGE PALM	14		15	10	REMAIN			60%			
TR1022	COCOS NUCIFERA	COCONUT PALM	9		5	10	REMAIN			80%			
TR1023	SABAL PALMETTO	CABBAGE PALM	10		15	10	REMAIN			65%			
TR1024	CARYOTA MITIS	FISHTAIL PALM	23		15	15	REMAIN			60%	RESTRICTED CANOPY		
TR1025	LIVISTONA CHINENSIS	CHINESE FAN PALM	22		20	20	REMAIN			70%			
TR1026	COCOS NUCIFERA	COCONUT PALM	11		3	10	REMAIN			70%	RESTRICTED CANOPY		
TR1027	VEITCHIA ARECINA	MONTGOMERY PALM	47		25	25	REMAIN			70%			
TR1028	DYPSIS LUTESCENS	ARECA PALM	19		20	15	REMAIN			70%			
TR1029	COCOS NUCIFERA	COCONUT PALM	5		1	10	REMAIN			60%			
TR1030	COCOS NUCIFERA	COCONUT PALM	8		10	20	REMAIN			75%			
TR1031	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	4		15	10	REMAIN			70%	GIRDLING ROOTS		
TR1032	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	5		15	15	REMAIN			65%			
TR1033	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	4		15	15	REMAIN			80%			
TR1034	COCOS NUCIFERA	COCONUT PALM	7		10	20	REMAIN			80%			
TR1035	DYPSIS LUTESCENS	ARECA PALM	60		15	25	REMAIN			65%			
TR1036	DYPSIS LUTESCENS	ARECA PALM	18		5	10	REMAIN			70%			
TR1037	RAVENALA MADAGASCARIENSIS	TRAVELERS PALM	17		1	15	REMAIN			70%			
TR1038	ADONIDIA MERRILLII	CHRISTMAS PALM	19		10	10	REMAIN			75%			
TR1039	ADONIDIA MERRILLII	CHRISTMAS PALM	8		5	10	REMAIN			5%			
TR1041	BURSERA SIMARUBA	GUMBO LIMBO	17		25	30	REMAIN			75%			
TR1042	WASHINGTONIA ROBUSTA	WASHINGTONIA	9		5	10	REMAIN			50%			
TR1043	MANGIFERA INDICA	MANGO	3		10	10	REMAIN			80%	RESTRICTED CANOPY		
TR1044	NOT PRESENT									80%			
TR1045	COCOS NUCIFERA	COCONUT PALM	17		30	10	REMAIN			75%	CAVITIES		
TR1046	MANGIFERA INDICA	MANGO	8		20	20	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR1047	ADONIDIA MERRILLII	CHRISTMAS PALM	5		15	10	REMAIN			40%	NUTRIENT DEFICIENCY		
TR1048	COCOS NUCIFERA	COCONUT PALM	14		30	15	REMAIN			45%	NUTRIENT DEFICIENCY		
TR1049	ADONIDIA MERRILLII	CHRISTMAS PALM	6		15	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1050	ROYSTONEA REGIA	ROYAL PALM	13		20	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR1051	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	3		10	10	REMAIN			60%			
TR1052	COCOS NUCIFERA	COCONUT PALM	14		5	15	REMAIN			60%	NUTRIENT DEFICIENCY		

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GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-06 | SHT # 205

TOTAL: 233

CAD FILE: 12082-MULTI-TINV

DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR1053	COCCOLOBA UVIFERA	SEA GRAPE	73		35	40	REMAIN			80%	UTILITY PRUNED		
TR1054	BURSERA SIMARUBA	GUMBO LIMBO	16		25	30	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR1055	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			60%			
TR1056	PHOENIX ROEBELENII	PYGMY DATE PALM	16		5	10	REMAIN			40%			
TR1057	PHOENIX ROEBELENII	PYGMY DATE PALM	18		5	10	REMAIN			60%			
TR1058	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	24		15	20	REMAIN			35%	OVER-PRUNED		
TR1059	COCCOTHRINAX CRINITA	OLD MAN PALM	15		10	15	REMAIN			60%			
TR1060	ROYSTONEA REGIA	ROYAL PALM	14		35	15	REMAIN			60%	RESTRICTED CANOPY		
TR1061	ROYSTONEA REGIA	ROYAL PALM	14		35	15	REMAIN			55%	RESTRICTED CANOPY		
TR1062	ROYSTONEA REGIA	ROYAL PALM	13		30	15	REMAIN			75%	RESTRICTED CANOPY		
TR1082	PHOENIX ROEBELENII	PYGMY DATE PALM	8		5	10	REMAIN			75%			
TR1083	PHOENIX ROEBELENII	PYGMY DATE PALM	11		5	10	REMAIN			80%			
TR1084	PHOENIX ROEBELENII	PYGMY DATE PALM	9		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1085	PHOENIX ROEBELENII	PYGMY DATE PALM	11		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1086	PHOENIX ROEBELENII	PYGMY DATE PALM	11		5	10	REMAIN			75%	NUTRIENT DEFICIENCY		
TR1087	DELONIX REGIA	ROYAL POINCIANA	9		20	20	REMAIN			65%	TRUNK DAMAGE (MODERATE)		
TR1088	PHOENIX ROEBELENII	PYGMY DATE PALM	9		10	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1089	PHOENIX ROEBELENII	PYGMY DATE PALM	11		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1090	NOT PRESENT									80%			
TR1091	PHOENIX ROEBELENII	PYGMY DATE PALM	4		5	5	REMAIN			80%			
TR1092	DELONIX REGIA	ROYAL POINCIANA	11		20	15	REMAIN			80%	CONSTRICTED ROOTS		
TR1093	DELONIX REGIA	ROYAL POINCIANA	7		15	10	REMAIN			80%	CONSTRICTED ROOTS		
TR1094	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	17		20	25	REMAIN			80%	CONSTRICTED ROOTS		
TR1096	DELONIX REGIA	ROYAL POINCIANA	12		15	20	REMAIN			80%	CONSTRICTED ROOTS		
TR1097	PHOENIX ROEBELENII	PYGMY DATE PALM	7		10	10	REMAIN			75%			
TR1099	PHOENIX ROEBELENII	PYGMY DATE PALM	7		10	10	REMAIN			40%			
TR1100	PHOENIX ROEBELENII	PYGMY DATE PALM	14		10	10	REMAIN			35%	NUTRIENT DEFICIENCY		
TR1101	PHOENIX ROEBELENII	PYGMY DATE PALM	9		5	10	REMAIN			65%	NUTRIENT DEFICIENCY		
TR1102	PHOENIX ROEBELENII	PYGMY DATE PALM	12		5	10	REMAIN			75%	NUTRIENT DEFICIENCY		
TR1103	PHOENIX ROEBELENII	PYGMY DATE PALM	3		5	5	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1104	PHOENIX ROEBELENII	PYGMY DATE PALM	16		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1105	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	13		15	20	REMAIN			50%	CONSTRICTED ROOTS		
TR1106	TABEBUIA CARAIBA	YELLOW TABEBUIA	15		28	20	REMAIN			50%	CONSTRICTED ROOTS		
TR1107	PHOENIX ROEBELENII	PYGMY DATE PALM	14		10	10	REMAIN			50%	NUTRIENT DEFICIENCY		
TR1108	PHOENIX ROEBELENII	PYGMY DATE PALM	7		5	5	REMAIN			50%	NUTRIENT DEFICIENCY		
TR1109	VEITCHIA ARECINA	MONTGOMERY PALM	7		25	10	REMAIN			60%			
TR1110	PHOENIX ROEBELENII	PYGMY DATE PALM	12		10	15	REMAIN			50%			
TR1111	PHOENIX ROEBELENII	PYGMY DATE PALM	4		10	10	REMAIN			50%			
TR1112	QUERCUS VIRGINIANA	LIVE OAK	20		20	40	REMAIN			80%	GIRDLING ROOTS		
TR1113	QUERCUS VIRGINIANA	LIVE OAK	10		15	15	REMAIN			80%	CONSTRICTED ROOTS		
TR1114	QUERCUS VIRGINIANA	LIVE OAK	15		20	20	REMAIN			80%	CONSTRICTED ROOTS		
TR1115	DELONIX REGIA	ROYAL POINCIANA	11		15	20	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR1116	DELONIX REGIA	ROYAL POINCIANA	10		15	15	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR1117	PHOENIX ROEBELENII	PYGMY DATE PALM	8		10	10	REMAIN			80%	SUPPRESSED CANOPY		
TR1118	COCOS NUCIFERA	COCONUT PALM	10		25	10	REMOVE		1	80%	OVER-PRUNED		
TR1119	ROYSTONEA REGIA	ROYAL PALM	16		10	10	REMAIN			80%	UTILITY PRUNED		
TR1120	COCOS NUCIFERA	COCONUT PALM	8		20	15	REMAIN			75%	OVER-PRUNED		
TR1121	COCOS NUCIFERA	COCONUT PALM	10		20	15	REMAIN			50%	OVER-PRUNED		
TR1122	COCOS NUCIFERA	COCONUT PALM	12		25	15	REMOVE		1	80%	TRUNK DAMAGE (MINOR)		
TR1123	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	9		20	10	REMOVE		1	80%	NUTRIENT DEFICIENCY		
TR1124	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	7		20	10	REMOVE		1	45%	NUTRIENT DEFICIENCY		
TR1125	SABAL PALMETTO	CABBAGE PALM	24		10	15	REMAIN			35%	OVER-PRUNED		
TR1126	LIVISTONA CHINENSIS	CHINESE FAN PALM	9		20	10	REMAIN			45%			
TR1127	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	10		15	15	REMAIN			80%			
TR1128	SYAGRUS ROMANZOFFIANA	QUEEN PALM	9		20	10	REMAIN			80%	RESTRICTED CANOPY		
TR1129	ADONIDIA MERRILLII	CHRISTMAS PALM	11		10	10	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR1130	PHOENIX DACTYLIFERA	DATE PALM	16		25	15	REMAIN			80%	TRUNK DAMAGE (MINOR)		
TR1131	PHOENIX DACTYLIFERA	DATE PALM	16		25	15	REMAIN			75%			
TR1132	ROYSTONEA REGIA	ROYAL PALM	15		20	10	REMAIN			80%	REDUCED CANOPY (MODERATE)		
TR1133	PHOENIX DACTYLIFERA	DATE PALM	17		20	15	REMAIN			30%			
TR1134	PHOENIX DACTYLIFERA	DATE PALM	19		20	15	REMAIN			35%			
TR1135	PHOENIX ROEBELENII	PYGMY DATE PALM	8		10	15	REMAIN			80%			
TR1136	PHOENIX ROEBELENII	PYGMY DATE PALM	9		10	15	REMAIN			35%			
TR1141	COCOS NUCIFERA	COCONUT PALM	11		20	15	REMAIN			50%			
TR1142	FICUS AUREA	STRANGLER FIG	9		10	15	REMAIN			65%	GROWING ON ROCK		
TR1143	FICUS AUREA	STRANGLER FIG	9		15	20	REMAIN			50%	GROWING ON ROCK		
TR1144	FICUS AUREA	STRANGLER FIG	31		20	20	REMAIN			50%	GROWING ON ROCK		
TR1145	DELONIX REGIA	ROYAL POINCIANA	1		5	5	REMAIN			40%			
TR1146	DELONIX REGIA	ROYAL POINCIANA	10		20	25	REMAIN			60%	RESTRICTED CANOPY		
TR1147	DELONIX REGIA	ROYAL POINCIANA	6		15	20	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR1148	COCOS NUCIFERA	COCONUT PALM	8		15	15	REMAIN			75%	TRUNK DAMAGE (MINOR)		
TR1149	DYPSIS LUTESCENS	ARECA PALM	17		1	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1150	DYPSIS LUTESCENS	ARECA PALM	16		5	10	REMAIN			80%	NUTRIENT DEFICIENCY		
TR1151	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	13		10	10	REMAIN			80%			
TR1152	BURSERA SIMARUBA	GUMBO LIMBO	11		20	25	REMAIN			80%	GIRDLING ROOTS		
TR1153	WODYETIA BIFURCATA	FOXTAIL PALM	10		15	15	REMAIN			35%	RESTRICTED CANOPY		
TR1154	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			80%			
TR1155	WODYETIA BIFURCATA	FOXTAIL PALM	8		15	15	REMAIN			80%			
TR1156	WODYETIA BIFURCATA	FOXTAIL PALM	8		15	5	REMAIN			80%	PENCIL TOP		
TR1157	COCOS NUCIFERA	COCONUT PALM	7		20	10	REMAIN			80%			
TR1158	SWIETENIA MAHAGONI	MAHOGANY	5		15	10	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR1159	SWIETENIA MAHAGONI	MAHOGANY	5		15	10	REMAIN			50%	CODOMINANT LEADERS - MULTI/INCLUDED BARK		
TR1160	SWIETENIA MAHAGONI	MAHOGANY	6		15	10	REMAIN			0%	INCLUDED BRANCHES		
TR1161	FILICIUM DECIPIENS	JAPANESE FERN TREE	16		30	35	REMAIN			75%	CONSTRICTED ROOTS		
TR1162	LIVISTONA CHINENSIS	CHINESE FAN PALM	11		10	15	REMAIN			75%			
TR1163	LIVISTONA CHINENSIS	CHINESE FAN PALM	15		10	15	REMAIN			75%			
TR1164	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	16		15	20	REMAIN			80%	PRUNED INTO SHRUB		
TR1165	LIVISTONA CHINENSIS	CHINESE FAN PALM	14		10	15	REMAIN			80%			
TR1166	QUERCUS VIRGINIANA	LIVE OAK	24		40	50	REMAIN			80%	CONSTRICTED ROOTS		
TR1167	QUERCUS VIRGINIANA	LIVE OAK	29		40	70	REMAIN			80%	CONSTRICTED ROOTS		
TR1168	QUERCUS VIRGINIANA	LIVE OAK	25		40	70	REMAIN			80%	CONSTRICTED ROOTS		
TR1169	PHOENIX ROEBELENII	PYGMY DATE PALM	3		5	5	REMAIN			80%			
TR1170	PHOENIX ROEBELENII	PYGMY DATE PALM	3		5	5	REMAIN			80%			
TR1171	WODYETIA BIFURCATA	FOXTAIL PALM	16		16	15	REMAIN			80%	IMPROPERLY MULCHED		
TR1172	QUERCUS VIRGINIANA	LIVE OAK	25		40	70	REMAIN			80%	CONSTRICTED ROOTS		
TR1173	CALOPHYLLUM INOPHYLLUM	BRAZILIAN BEAUTY LEAF	16		30	30	REMAIN			80%	CONSTRICTED ROOTS		
TR1174	LIVISTONA CHINENSIS	CHINESE FAN PALM	19		5	10	REMAIN			80%			
TR1175	SWIETENIA MAHAGONI	MAHOGANY	24		30	30	REMAIN			80%	CONSTRICTED ROOTS		
TR1176	QUERCUS VIRGINIANA	LIVE OAK	14		30	25	REMAIN			80%	CONSTRICTED ROOTS		
TR1177	ADONIDIA MERRILLII	CHRISTMAS PALM	12		15	15	REMAIN			70%	TRUNK DAMAGE (MAJOR)		
TR1178	BURSERA SIMARUBA	GUMBO LIMBO	10		20	25	REMAIN			70%	CONSTRICTED ROOTS		
TR1179	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	5		25	15	REMAIN			70%			
TR1180	TABEBUIA HETEROPHYLLA	PINK TABEBUIA	9		25	20	REMAIN			80%	CONSTRICTED ROOTS		
TR1181	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		15	10	REMAIN			70%	RESTRICTED CANOPY		
TR1182	SWIETENIA MAHAGONI	MAHOGANY	16		30	30	REMAIN			70%	CODOMINANT LEADERS/INCLUDED BARK		
TR1183	DYPSIS LUTESCENS	ARECA PALM	67		20	20	REMAIN			35%	CLUSTER		
TR1184	SABAL PALMETTO	CABBAGE PALM	12		15	10	REMAIN			80%			
TR1186	QUERCUS VIRGINIANA	LIVE OAK	28		30	45	REMAIN			80%	CONSTRICTED ROOTS		
TR1187	COCOS NUCIFERA	COCONUT PALM	11	N	3	15	REMOVE		1	70%	RESTRICTED CANOPY		
TR1188	SWIETENIA MAHAGONI	MAHOGANY	11	N	15	15	REMOVE	7		65%	LOPSIDED/MODERATELY REDUCED CANOPY	CLASS A SPECIES	
TR1189	BURSERA SIMARUBA	GUMBO LIMBO	6	N	15	15	REMOVE	5		80%	CODOMINANT LEADERS/NO INCLUDED BARK	CLASS A SPECIES	
TR1190	THESPESIA POPULNEA	SEASIDE MAHOE	6	N	15	20	REMOVE	0		80%	CODOMINANT LEADERS/NO INCLUDED BARK	CLASS F SPECIES	
TR1192	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	8	N	10	10	REMOVE	6		80%	TRUNK DAMAGE (MODERATE)	CLASS A SPECIES	
TR1193	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	7	N	10	20	REMOVE	5		75%	UPROOTED (PARIALLY)	CLASS A SPECIES	
TR1194	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	7	N	10	15	REMOVE	5		70%	UPROOTED (PARIALLY)	CLASS A SPECIES	
TR1195	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	8	N	15	20	REMOVE	6		80%	CODOMINANT LEADERS/INCLUDED BARK	CLASS A SPECIES	
TR1196	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	6	N	10	10	REMOVE	4		70%	UPROOTED (PARIALLY)	CLASS A SPECIES	
TR1197	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	16	N	15	20	REMOVE	13		80%	BASAL CODOMINANT	CLASS A SPECIES	
TR1198	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	6	N	10	15	REMOVE	5		80%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY	CLASS A SPECIES	
TR1199	THESPESIA POPULNEA	SEASIDE MAHOE	18	Y	20	25	REMOVE	0		75%	GIRDLING ROOTS	CLASS F SPECIES	
TR1200	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	3	N	5	5	REMOVE	2		75%	TOPPED	CLASS A SPECIES	
TR1201	THESPESIA POPULNEA	SEASIDE MAHOE	3	N	10	10	REMOVE	0		75%	RESTRICTED CANOPY	CLASS F SPECIES	
TR1202	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	19	Y	20	25	REMOVE	13		70%	RESTRICTED CANOPY	CLASS A SPECIES	
TR1203	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	6	N	15	20	REMOVE	2		40%	LOPSIDED/MODERATELY REDUCED CANOPY	CLASS A SPECIES	
TR1204	THRINAX RADIATA	FLORIDA THATCH PALM	4	N	15	5	REMOVE		1	80%			
TR1205	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	16	N	15	15	REMOVE	12		75%	UPROOTED (PARIALLY)	CLASS A SPECIES	
TR1206	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	6	N	15	15	REMOVE	5		80%	BASAL CODOMINANT/INCLUDED BARK	CLASS A SPECIES	
TR1207	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	5	N	10	15	REMOVE	4		80%	UPROOTED (PARIALLY)	CLASS A SPECIES	
TR1208	THESPESIA POPULNEA	SEASIDE MAHOE	49	Y	20	35	REMOVE	0		75%	GRAFTED LIMBS OR LEADERS	CLASS F SPECIES	
TR1209	CONOCARPUS ERECTUS VAR. SERICEUS	SILVER BUTTONWOOD	4	N	10	10	REMOVE	2		60%	RESTRICTED CANOPY	CLASS A SPECIES	
TR2500	PERSEA AMERICANA	AVOCADO	11		30	25	REMAIN			80%	TRUNK DAMAGE (MODERATE)		
TR2501	TERMINALIA BUCERAS	BLACK OLIVE	13		15	20	REMAIN			75%	CODOMINANT LEADERS/INCLUDED BARK		
TR2502	COCOS NUCIFERA	COCONUT PALM	4		1	5	REMAIN			80%			
TR2503	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	2		10	5	REMAIN			80%	DISCOLORED FOLIAGE		
TR2504	WODYETIA BIFURCATA	FOXTAIL PALM	3		3	5	REMAIN			30%	NUTRIENT DEFICIENCY		
TR2505	WODYETIA BIFURCATA	FOXTAIL PALM	3		3	5	REMAIN			80%	NUTRIENT DEFICIENCY		
TR2506	ADONIDIA MERRILLII	CHRISTMAS PALM	3		5	5	REMAIN			60%			
TR2507	BULNESIA ARBOREA	VERA WOOD	2		5	5	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2508	BULNESIA ARBOREA	VERA WOOD	2		5	5	REMAIN			50%	TOPPED		

Hazen

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GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

ENGINEER: ERIC D. HARRISON
REG. No: 66671129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | DATE: 03/25/25 | SCALE: AS SHOWN | CHECKED BY: EDH | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-07 | SHT # 206

TOTAL: 233

CAD FILE: 12082-MULTI-TINV

DRAWING FILE NO. 4-144-88

TREE ID	BOTANICAL NAME	COMMON NAME	DBH (in)	SPECIMEN REMOVAL	CLEAR TRUNK (HT)	CANOPY DIA.	DISPOSITION	MITIGATION REQUIRED (DBH)	PALM MITIGATION (1:1)	CONDITION RATING	NOTES	SPECIES CLASSIFICATION (1)	TRUNK CROSS SECTIONAL AREA (sq. in.)
TR2509	CORDIA SEBESTENA	ORANGE GEIGER	5		15	15	REMAIN			50%	PRUNED INTO SHRUB		
TR2510	WASHINGTONIA ROBUSTA	WASHINGTONIA	10		1	5	REMAIN			70%			
TR2511	WASHINGTONIA ROBUSTA	WASHINGTONIA	9		1	5	REMAIN			80%			
TR2512	TABEBUIA CARAIBA	YELLOW TABEBUIA	2		5	5	REMAIN			65%	LEANING (MODERATE)		
TR2513	BULNESIA ARBOREA	VERA WOOD	2		10	5	REMAIN			70%	CODOMINANT LEADERS/INCLUDED BARK		
TR2514	BULNESIA ARBOREA	VERA WOOD	2		10	5	REMAIN			70%	REMOVE STRAP		
TR2515	LYSILOMA LATISILIQUUM	WILD TAMARIND	2		15	10	REMAIN			70%	IMPROPERLY MULCHED		
TR2516	LYSILOMA LATISILIQUUM	WILD TAMARIND	2		15	10	REMAIN			80%	IMPROPERLY MULCHED		
TR2517	DYPSIS LUTESCENS	ARECA PALM	20		20	10	REMAIN			0%	NUTRIENT DEFICIENCY		
TR2518	COCOS NUCIFERA	COCONUT PALM	6		1	5	REMAIN			30%	SPROUT		
TR2519	DYPSIS LUTESCENS	ARECA PALM	20		20	10	REMAIN			65%	NUTRIENT DEFICIENCY		
TR2520	COCOS NUCIFERA	COCONUT PALM	6		1	5	REMAIN			35%	SPROUT		
TR2521	COCOS NUCIFERA	COCONUT PALM	11		3	10	REMAIN			70%	RESTRICTED CANOPY		
TR2522	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	8		10	10	REMAIN			70%	PRUNED INTO SHRUB		
TR2523	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			60%			
TR2524	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	7		10	10	REMAIN			30%	PRUNED INTO SHRUB		
TR2525	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	8		10	10	REMAIN			80%	PRUNED INTO SHRUB		
TR2526	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	9		10	10	REMAIN			80%	PRUNED INTO SHRUB		
TR2527	COCOS NUCIFERA	COCONUT PALM	10		20	15	REMAIN			80%	UTILITY PRUNED		
TR2528	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		20	10	REMAIN			80%			
TR2529	SWIETENIA MAHAGONI	MAHOGANY	6		20	15	REMAIN			80%	RESTRICTED CANOPY		
TR2530	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		15	10	REMAIN			70%	RESTRICTED CANOPY		
TR2531	COCOS NUCIFERA	COCONUT PALM	13		35	15	REMAIN			80%			
TR2532	SABAL PALMETTO	CABBAGE PALM	12		20	15	REMAIN			75%			
TR2533	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		15	5	REMAIN			80%			
TR2534	LAGERSTROEMIA INDICA	CREPE MYRTLE	7		20	15	REMAIN			80%			
TR2535	BURSERA SIMARUBA	GUMBO LIMBO	13		15	15	REMAIN			80%			
TR2536	LAGERSTROEMIA INDICA	CREPE MYRTLE	14		15	15	REMAIN			80%	GRAFTED LIMBS OR LEADERS		
TR2537	LAGERSTROEMIA INDICA	CREPE MYRTLE	7		15	15	REMAIN			75%			
TR2538	BURSERA SIMARUBA	GUMBO LIMBO	22		35	40	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2539	COCOS NUCIFERA	COCONUT PALM	9		35	15	REMAIN			75%			
TR2540	SWIETENIA MAHAGONI	MAHOGANY	4		15	10	REMAIN			80%	CONSTRICTED ROOTS		
TR2541	BURSERA SIMARUBA	GUMBO LIMBO	6		15	15	REMAIN			80%	CONSTRICTED ROOTS		
TR2542	ROYSTONEA REGIA	ROYAL PALM	4		2	5	REMAIN			80%			
TR2543	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	15	REMAIN			80%			
TR2544	QUERCUS VIRGINIANA	LIVE OAK	3		15	10	REMAIN			80%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR2547	BURSERA SIMARUBA	GUMBO LIMBO	2		15	10	REMAIN			80%	SUPPRESSED CANOPY		
TR2549	FILICIUM DECIPIENS	JAPANESE FERN TREE	5		10	15	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR2550	MANGIFERA INDICA	MANGO	3		5	5	REMAIN			80%	CODOMINANT LEADERS - MULTI		
TR2551	ADONIDIA MERRILLII	CHRISTMAS PALM	6		20	10	REMAIN			70%			
TR2552	ADONIDIA MERRILLII	CHRISTMAS PALM	10		20	10	REMAIN			0%			
TR2553	TERMINALIA CATAPPA	TROPICAL ALMOND	30		30	50	REMAIN			75%	CONSTRICTED ROOTS		
TR2554	ADONIDIA MERRILLII	CHRISTMAS PALM	7		20	10	REMAIN			60%			
TR2555	ADONIDIA MERRILLII	CHRISTMAS PALM	3		25	10	REMAIN			70%			
TR2556	ADONIDIA MERRILLII	CHRISTMAS PALM	6		10	10	REMAIN			75%			
TR2557	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		25	10	REMAIN			70%	RESTRICTED CANOPY		
TR2563	SWIETENIA MAHAGONI	MAHOGANY	35		35	55	REMAIN			75%	COMPACTED SOILS, ROOT DAMAGE		
TR2566	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	3		10	10	REMAIN			75%	STRAP CONSTRICTING TRUNK		
TR2567	LAGERSTROEMIA SPECIOSA	QUEEN CREPE MYRTLE	2		10	5	REMAIN			75%	REDUCED CANOPY (MODERATE)		
TR2568	SYAGRUS ROMANZOFFIANA	QUEEN PALM	6		15	10	REMAIN			45%	NUTRIENT DEFICIENCY		
TR2569	SYAGRUS ROMANZOFFIANA	QUEEN PALM	6		15	10	REMAIN			70%	NUTRIENT DEFICIENCY		
TR2570	SABAL PALMETTO	CABBAGE PALM	22		15	10	REMAIN			80%	RESTRICTED CANOPY		
TR2571	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			80%	DESSICATED FOLIAGE		
TR2572	DYPSIS LUTESCENS	ARECA PALM	16		10	10	REMAIN			80%			
TR2573	DYPSIS LUTESCENS	ARECA PALM	59		15	15	REMAIN			75%			
TR2586	EUCALYPTUS DEGLUPTA	RAINBOW EUCALYPTUS	4		15	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2587	FICUS AUREA	STRANGLER FIG	59		25	45	REMAIN			75%	ROOT DAMAGE		
TR2588	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	17		10	15	REMAIN			75%	PRUNED INTO SHRUB		
TR2589	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	11		10	10	REMAIN			75%	PRUNED INTO SHRUB		
TR2590	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	13		10	10	REMAIN			0%	PRUNED INTO SHRUB		
TR2591	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	12		10	10	REMAIN			50%	PRUNED INTO SHRUB		
TR2592	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	7		10	10	REMAIN			50%	PRUNED INTO SHRUB		
TR2593	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	13		10	15	REMAIN			45%	PRUNED INTO SHRUB		
TR2594	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	12		10	10	REMAIN			45%	RESTRICTED CANOPY		
TR2595	CLERODENDRUM QUADRILOCULARE	STARBURST CLERODENDRON	5		5	10	REMAIN			80%	PRUNED INTO SHRUB		
TR2596	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	17		10	15	REMAIN			80%	PRUNED INTO SHRUB		
TR2597	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	3		1	5	REMAIN			75%	NUTRIENT DEFICIENCY		
TR2598	PHOENIX ROEBELENII	PYGMY DATE PALM	12		3	5	REMAIN			75%			
TR2599	CHORISIA SPECIOSA	KAPOK	70		45	65	REMAIN			75%	CONSTRICTED ROOTS		
TR2600	QUERCUS VIRGINIANA	LIVE OAK	27		35	35	REMAIN			45%	CODOMINANT LEADERS/INCLUDED BARK		
TR2601	QUERCUS VIRGINIANA	LIVE OAK	24		35	40	REMAIN			75%	CODOMINANT LEADERS/INCLUDED BARK		
TR2602	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	24		10	15	REMAIN			75%	PRUNED INTO SHRUB		
TR2603	QUERCUS LAURIFOLIA	LAUREL OAK	16		30	30	REMAIN			0%	INCLUDED BRANCHES		
TR2604	QUERCUS VIRGINIANA	LIVE OAK	22		30	40	REMAIN			80%	ROOT DAMAGE FROM PARKING		
TR2605	LAGERSTROEMIA INDICA	CREPE MYRTLE	4		5	5	REMAIN			30%	PRUNED INTO SHRUB		
TR2606	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM	8		3	5	REMAIN			30%	TRUNK DAMAGE (MINOR)		
TR2607	QUERCUS VIRGINIANA	LIVE OAK	25	Y	30	40	REMOVE	15		60%	CONSTRICTED ROOTS	CLASS A SPECIES	
TR2608	QUERCUS LAURIFOLIA	LAUREL OAK	30		35	40	REMAIN			30%	ROOT DAMAGE/DECAY		
TR2609	PLUMERIA SP.	FRANGIPANI	5		15	15	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2610	PELTOPHORUM PTEROCARPUM	YELLOW POINCIANA	30		30	35	REMAIN			80%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR2614	SWIETENIA MAHAGONI	MAHOGANY	33		40	45	REMAIN			75%	CONSTRICTED ROOTS		
TR2615	QUERCUS VIRGINIANA	LIVE OAK	26		35	55	REMAIN			75%	CODOMINANT LEADERS - MULTI		
TR2616	ROYSTONEA REGIA	ROYAL PALM	19		20	15	REMAIN			75%	RESTRICTED CANOPY		
TR2617	QUERCUS VIRGINIANA	LIVE OAK	25		30	45	REMAIN			75%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2619	TERMINALIA BUCERAS	BLACK OLIVE	16		35	30	REMAIN			75%	ROOT DAMAGE FROM MOWER		
TR2620	LAGERSTROEMIA INDICA	CREPE MYRTLE	22		20	20	REMAIN			45%	IMPROPERLY MULCHED		
TR2621	TERMINALIA BUCERAS	BLACK OLIVE	19		35	30	REMAIN			50%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2622	QUERCUS VIRGINIANA	LIVE OAK	28		35	30	REMAIN			50%	REDUCED CANOPY (MAJOR)		
TR2623	SWIETENIA MAHAGONI	MAHOGANY	36		35	50	REMAIN			50%	ROOT DAMAGE		
TR2624	SWIETENIA MAHAGONI	MAHOGANY	32		35	50	REMAIN			80%	ROOT DAMAGE		
TR2625	SWIETENIA MAHAGONI	MAHOGANY	18		30	40	REMAIN			80%	ROOT COLLAR - PARTIALLY BURRIED		
TR2626	SCHINUS TEREBINTHIFOLIA	BRAZILLIAN PEPPER	68		30	35	REMAIN			80%	CONSTRICTED ROOTS		
TR2627	SWIETENIA MAHAGONI	MAHOGANY	13		20	30	REMAIN			30%	WEAK BRANCH ATTACHMENT(S)		
TR2628	PHOENIX DACTYLIFERA	DATE PALM	17		10	15	REMAIN			40%			
TR2629	FICUS BENGHALENSIS	BANYAN	116		50	60	REMAIN			55%	ROOT DAMAGE		
TR2630	QUERCUS VIRGINIANA	LIVE OAK	26		35	50	REMAIN			70%	CONSTRICTED ROOTS		
TR2631	SWIETENIA MAHAGONI	MAHOGANY	15		40	35	REMAIN			70%	RESTRICTED CANOPY		
TR2632	FICUS AUREA	STRANGLER FIG	36		20	30	REMAIN			75%	REDUCED CANOPY (MODERATE)		
TR2633	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			55%	RESTRICTED CANOPY		
TR2634	CHRYSOPHYLLUM OLIVIFORME	SATIN LEAF	2		10	5	REMAIN			75%			
TR2635	CHRYSOPHYLLUM OLIVIFORME	SATIN LEAF	2		10	5	REMAIN			70%			
TR2636	CHRYSOPHYLLUM OLIVIFORME	SATIN LEAF	2		10	5	REMAIN			70%			
TR2637	CORDIA SEBESTENA	ORANGE GEIGER	2	N	15	10	REMOVE	1		75%	INSECT DAMAGE - LEAVES	CLASS B SPECIES	
TR2638	CORDIA SEBESTENA	ORANGE GEIGER	2	N	10	10	REMOVE	1		75%	INSECT DAMAGE - LEAVES	CLASS B SPECIES	
TR2639	TERMINALIA BUCERAS	BLACK OLIVE	23		35	40	REMAIN			75%	LOPSIDED/MODERATELY REDUCED CANOPY		
TR2640	BISCHOFIA JAVANICA	JAVA BISHOPWOOD	41		40	50	REMAIN			70%	GIRDLING ROOTS		
TR2641	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	11		15	15	REMAIN			80%			
TR2642	DYPSIS LUTESCENS	ARECA PALM	12		15	10	REMAIN			80%			
TR2643	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	5	REMAIN			75%	UTILITY PRUNED		
TR2644	PHOENIX ROEBELENII	PYGMY DATE PALM	7		10	10	REMAIN			75%			
TR2645	ROYSTONEA REGIA	ROYAL PALM	16		20	15	REMAIN			70%	NUTRIENT DEFICIENCY		
TR2646	COCOS NUCIFERA	COCONUT PALM	6	N	1	5	REMOVE		1	80%			
TR2647	QUERCUS VIRGINIANA	LIVE OAK	25		35	40	REMAIN			65%	LOPSIDED/SIGNIFICANTLY REDUCED CANOPY		
TR2648	QUERCUS VIRGINIANA	LIVE OAK	20		30	40	REMAIN			80%	FLAT TRUNK		
TR2649	MANGIFERA INDICA	MANGO	30		35	45	REMAIN			80%	CONSTRICTED ROOTS		
TR2650	MANGIFERA INDICA	MANGO	29		35	40	REMAIN			80%	CODOMINANT LEADERS/NO INCLUDED BARK		
TR2651	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4		10	10	REMAIN			80%			
TR2652	COCCOLOBA UVIFERA	SEA GRAPE	38		40	25	REMAIN			35%	OVER-EXTENED LIMB(S)		
EXISTING TREE DBH TO BE REMOVED (in)								**244**					
NUMBER OF PALMS TO BE REMOVED (EA)									**23**				
SPECIMEN TRUNK CROSS SECTIONAL AREA (SQ.IN)													**0.00**
TOTAL TRUST FUND PAYMENT													
NOTES													
1. TREE RATING IS PER THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS GUIDE TO PLANT APPRAISAL, 10TH ADDITION													
2. TRUST FUND PAYMENT = SQUARE INCHED OF TRUNK REMOVED X $25/sq in (for class A trees)													

GENERAL NOTE

TREES NOTED AS NOT PRESENT ON THE TREE DISPOSITION CHART WERE FIELD VERIFIED AS NOT WITHIN THE PROJECT LIMITS. TREE SYMBOLS AND TAGS SHOWN ON PLANS FOR THESE TREES WERE INCLUDED WITH THE SURVEY AND ARE SHOWN FOR REFERENCE.

ISSUED FOR BID

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REG. No: 66671129
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FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

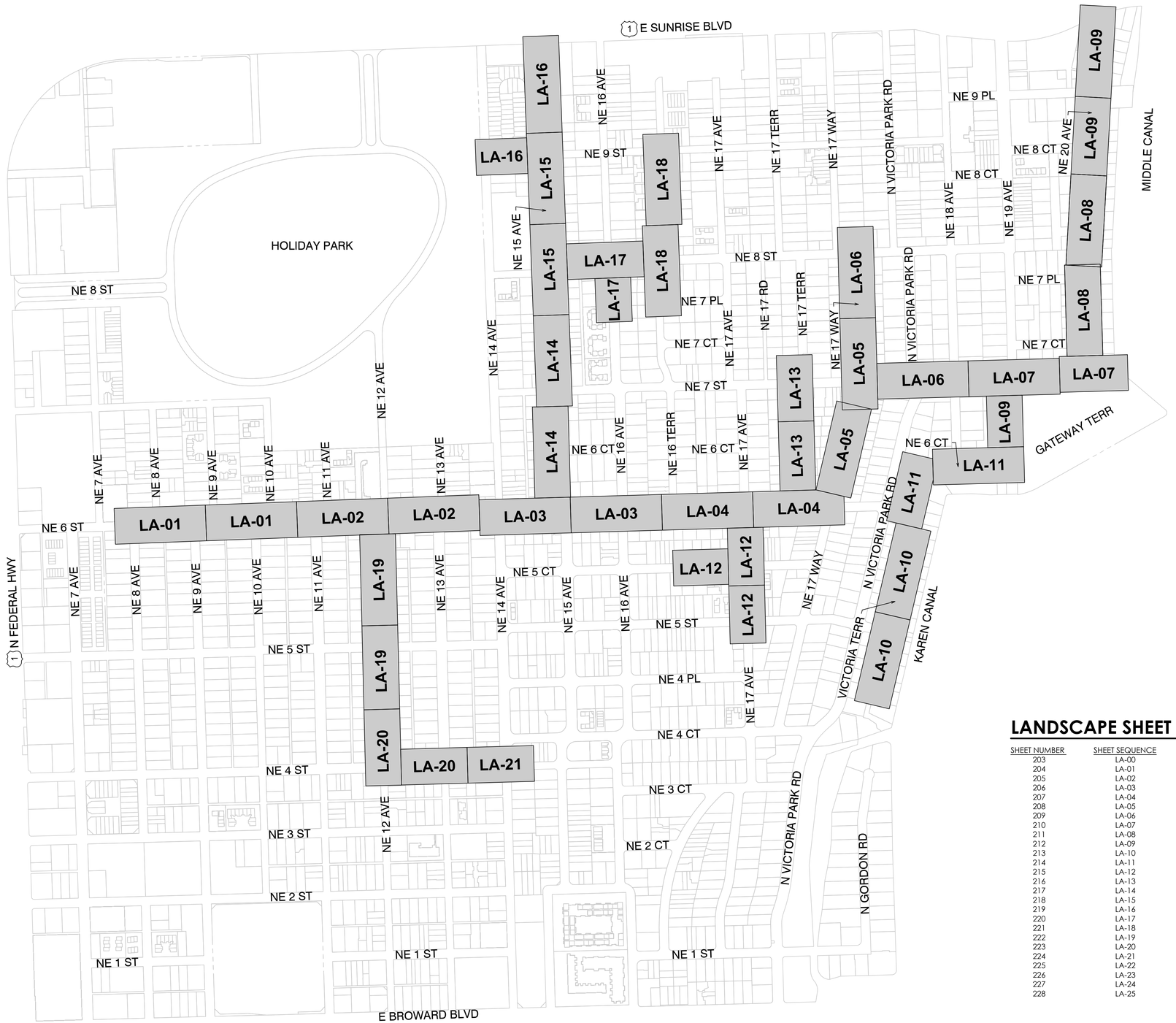
NO.	DATE	BY	CHK'D	DESCRIPTION
REVISIONS				

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

TREE INVENTORY SCHEDULE

SHEET NO. TI-08 | SHT # 207
TOTAL: 233
CAD FILE: 12082–MULTI–TINV
DRAWING FILE NO. 4–144–88



LANDSCAPE SHEET INDEX

SHEET NUMBER	SHEET SEQUENCE	SHEET TITLE
203	LA-00	LANDSCAPE KEY MAP
204	LA-01	LANDSCAPE RESTORATION PLAN
205	LA-02	LANDSCAPE RESTORATION PLAN
206	LA-03	LANDSCAPE RESTORATION PLAN
207	LA-04	LANDSCAPE RESTORATION PLAN
208	LA-05	LANDSCAPE RESTORATION PLAN
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216	LA-13	LANDSCAPE RESTORATION PLAN
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218	LA-15	LANDSCAPE RESTORATION PLAN
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220	LA-17	LANDSCAPE RESTORATION PLAN
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225	LA-22	LANDSCAPE RESTORATION PLAN
226	LA-23	LANDSCAPE SPECIFICATIONS
227	LA-24	LANDSCAPE DETAILS - SHEET 1
228	LA-25	LANDSCAPE DETAILS - SHEET 2

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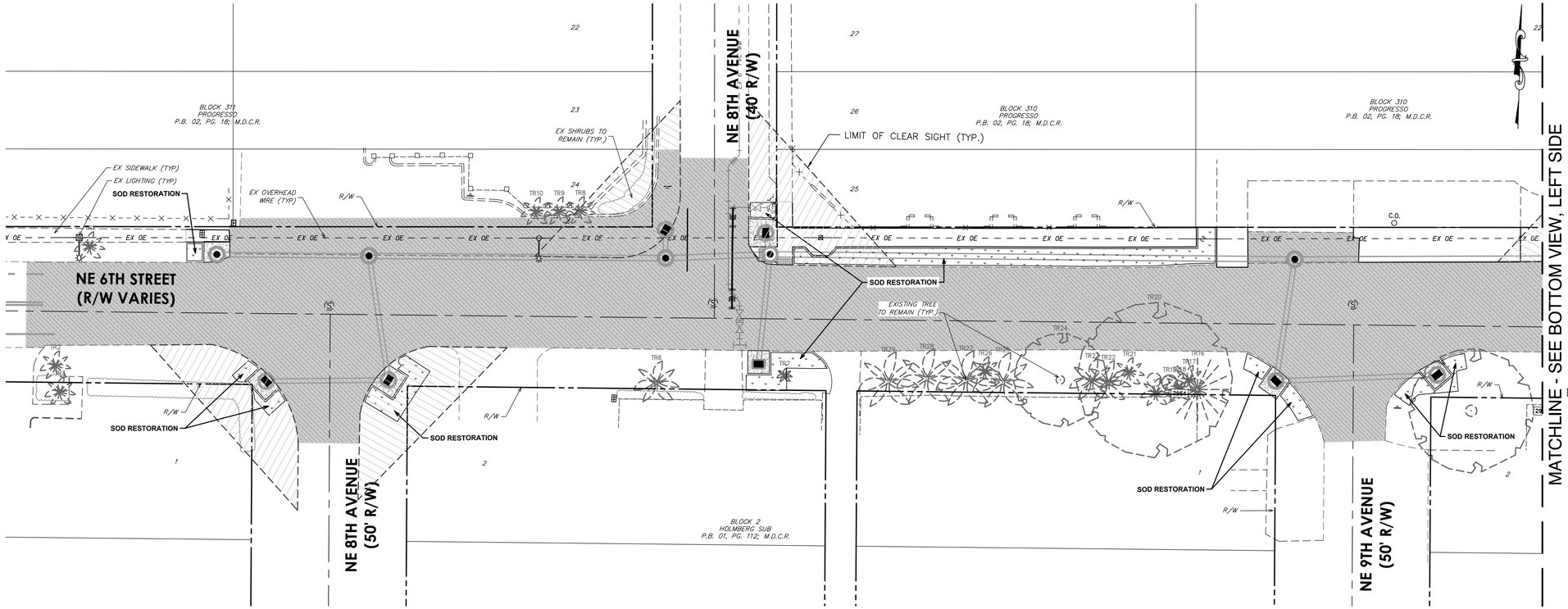
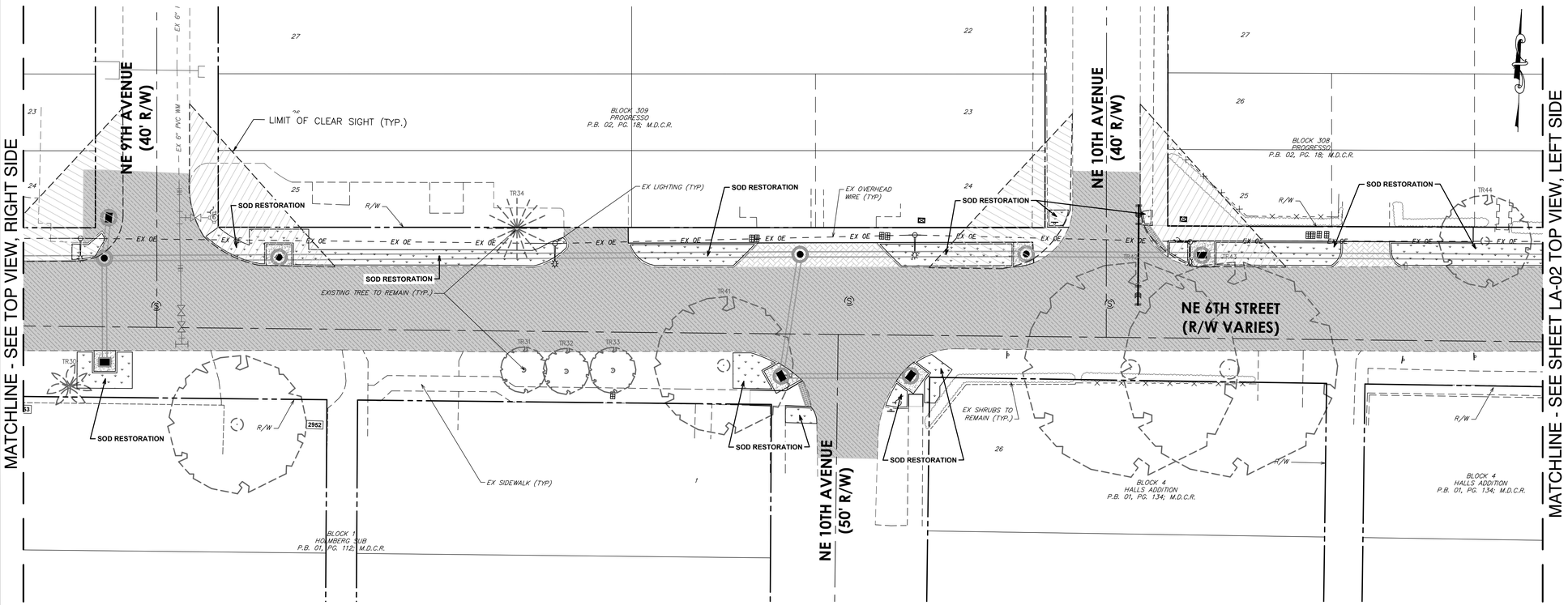
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE KEY MAP

SHEET NO.	SHT #
LA-00	208
TOTAL:	233
CAD FILE: 12082-LA-00	
DRAWING FILE NO. 4-144-88	





0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

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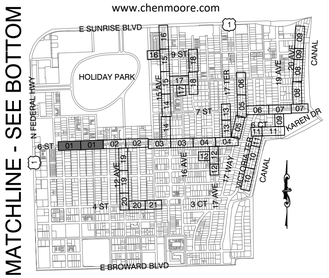

KEY MAP

Sunshine811

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DRAWN BY: JKC
DATE: 03/25/25
DESIGNED BY: JKC
SCALE: AS SHOWN
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FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING

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NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

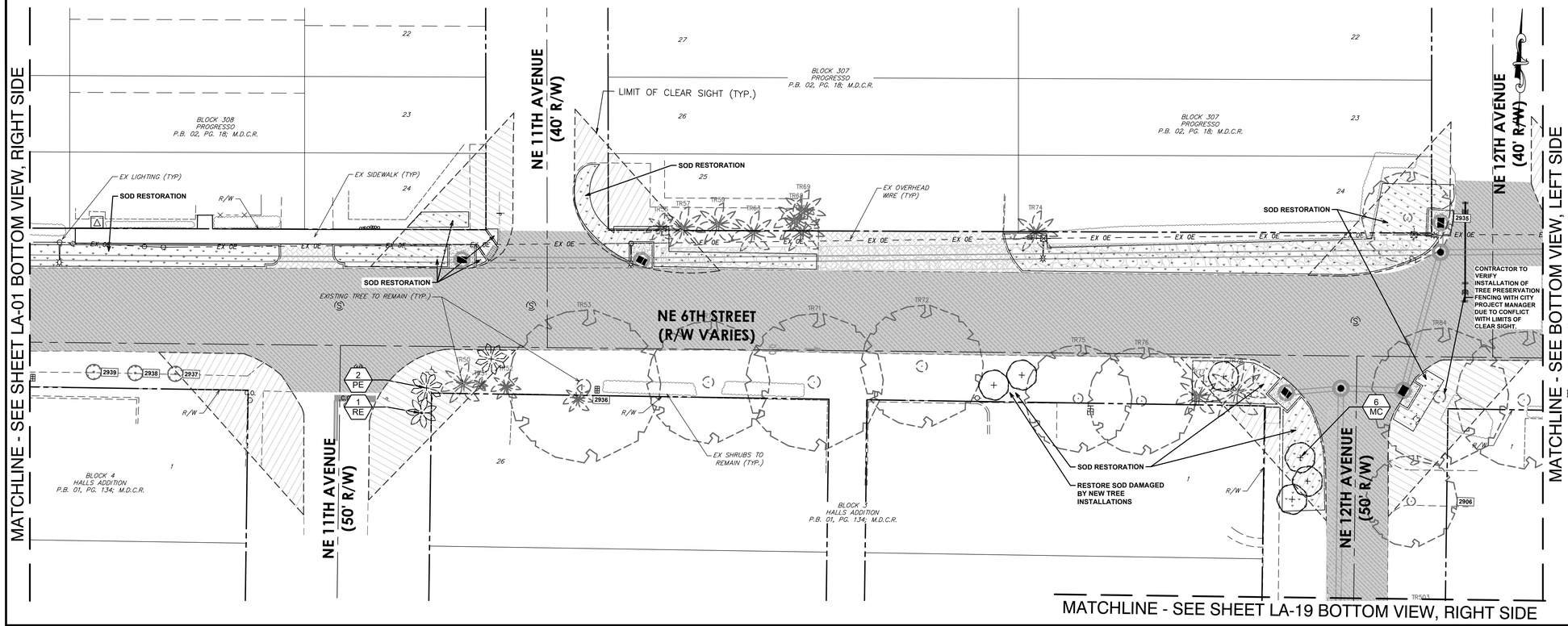
LANDSCAPE RESTORATION PLAN

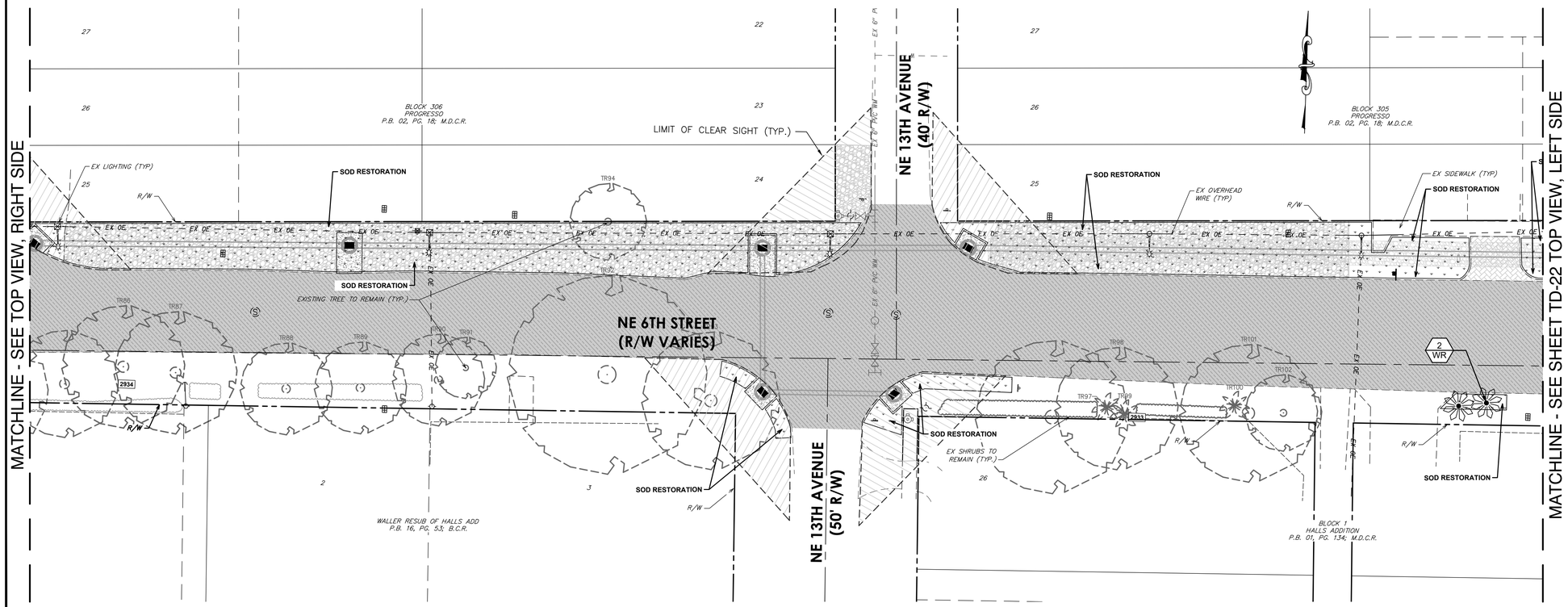
SHEET NO.	SHT #
LA-01	209
TOTAL:	233

CAD FILE:
12082—MULTI—LAND

DRAWING FILE NO.
4—144—88

CAM #25-0925
Exhibit 1F
Page 1936 of 2050





0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

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KEY MAP

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DESIGNED BY:	SCALE:
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REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

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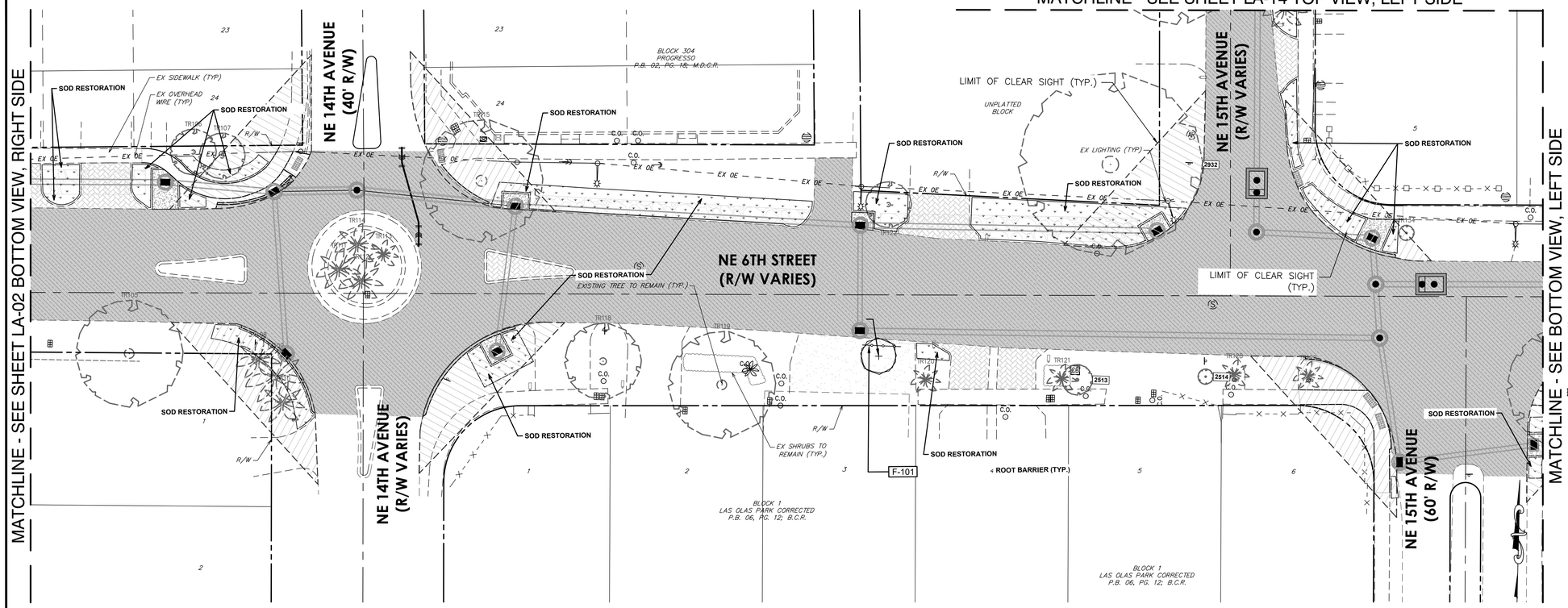
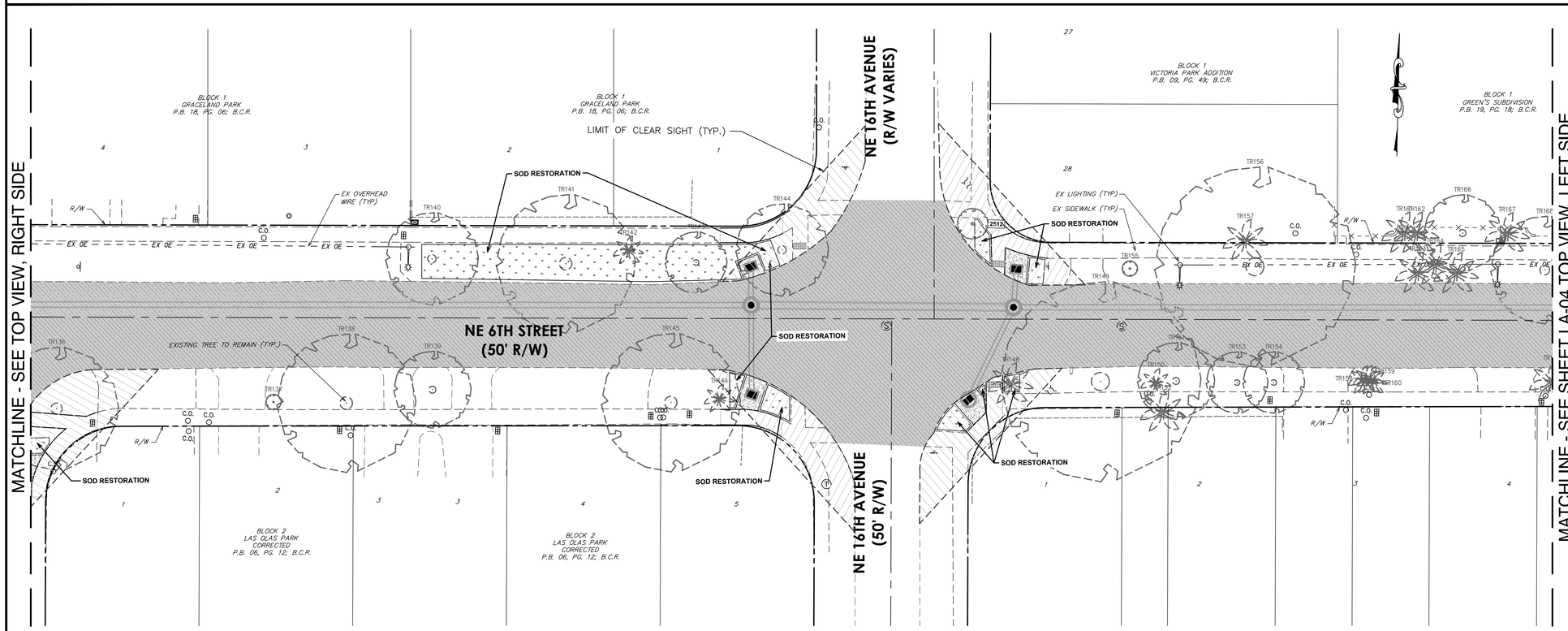
SHEET NO.	SHT #
LA-02	210
TOTAL:	233
CAD FILE: 12082–MULTI–LAND	
DRAWING FILE NO. 4–144–88	





0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

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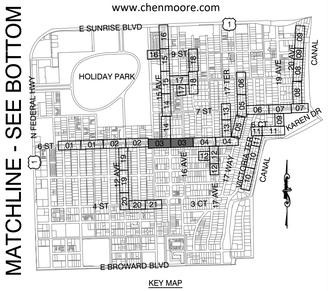

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REVISIONS

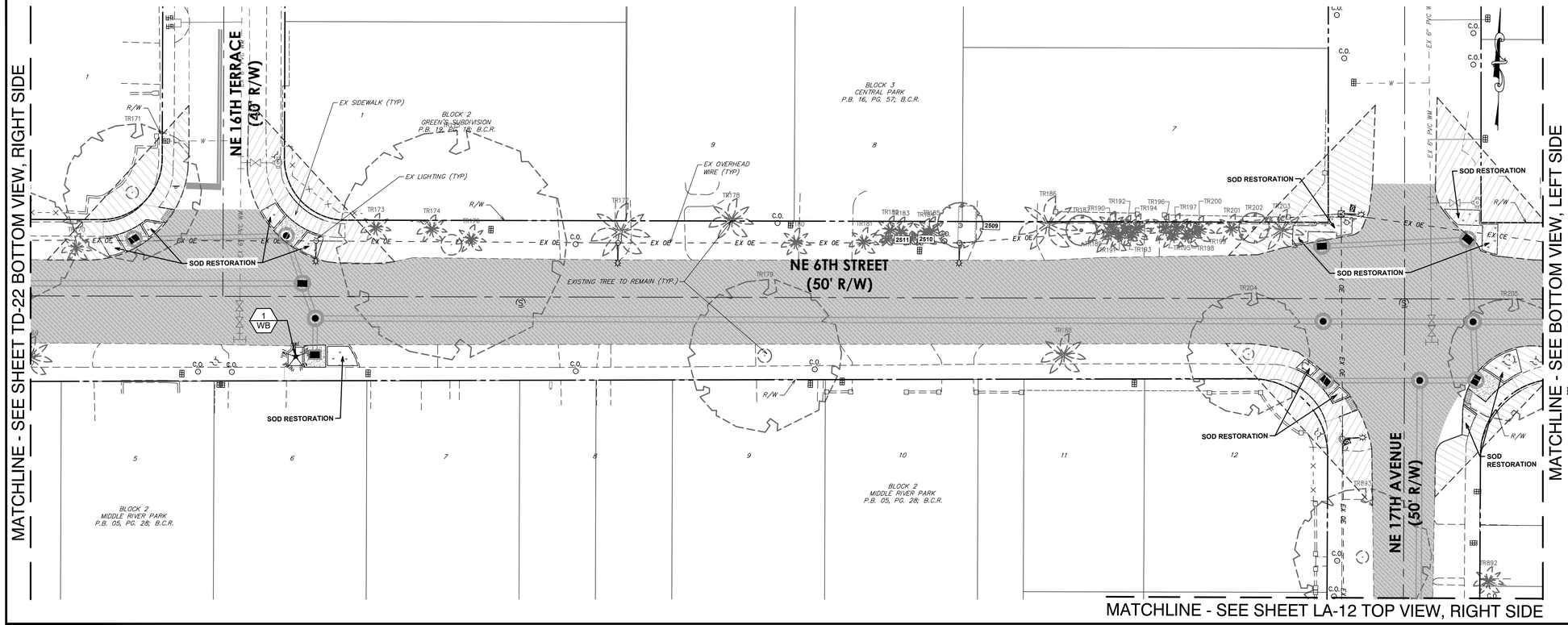
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-03	211
TOTAL:	233

CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88



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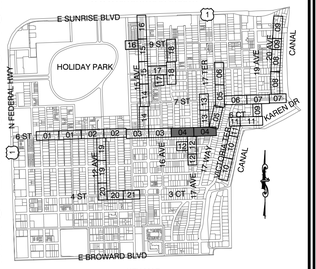


Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-04	212
TOTAL:	233

CAD FILE: 12082—MULTI—LAND
DRAWING FILE NO. 4—144—88

MATCHLINE - SEE SHEET LA-04 BOTTOM VIEW, RIGHT SIDE

BLOCK 18
VICTORIA PARK
CORRECTED AMD.
P.B. 10, PG. 66; B.C.R.

EX SIDEWALK (TYP)

SOD RESTORATION

EXISTING TREE
TO REMAIN (TYP.)

NE 17TH WAY
(50' R/W)

SOD RESTORATION

EX 8" VC

BLOCK 19
VICTORIA PARK CORRECTED AMD.
P.B. 10, PG. 66; B.C.R.

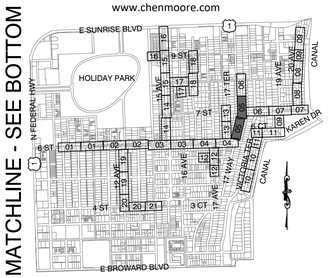
MATCHLINE - SEE SHEET LA-06 BOTTOM VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

Sunshine811

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Check positive response codes before you dig!

MATCHLINE - SEE SHEET LA-05 TOP VIEW, RIGHT SIDE

LIMIT OF CLEAR SIGHT
(TYP.)

SOD RESTORATION

NE 7TH STREET
(50' R/W)

LOT 13
VICTORIA HIGHLANDS
P.B. 09, PG. 47; B.C.R.

BLOCK 6
VICTORIA HIGHLANDS AMD
P.B. 15, PG. 09; B.C.R.

LOT 10
VICTORIA HIGHLANDS
P.B. 09, PG. 47; B.C.R.

NE 17TH WAY
(50' R/W)

EX LIGHTING (TYP)

EX OVERHEAD
WIRE (TYP)

EX SIDEWALK (TYP)

BLOCK 4
VICTORIA HIGHLANDS AMD
P.B. 15, PG. 09; B.C.R.

MATCHLINE - SEE SHEET LA-06 TOP VIEW, LEFT SIDE

0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	
DATE: 03/25/25	SCALE: AS SHOWN		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

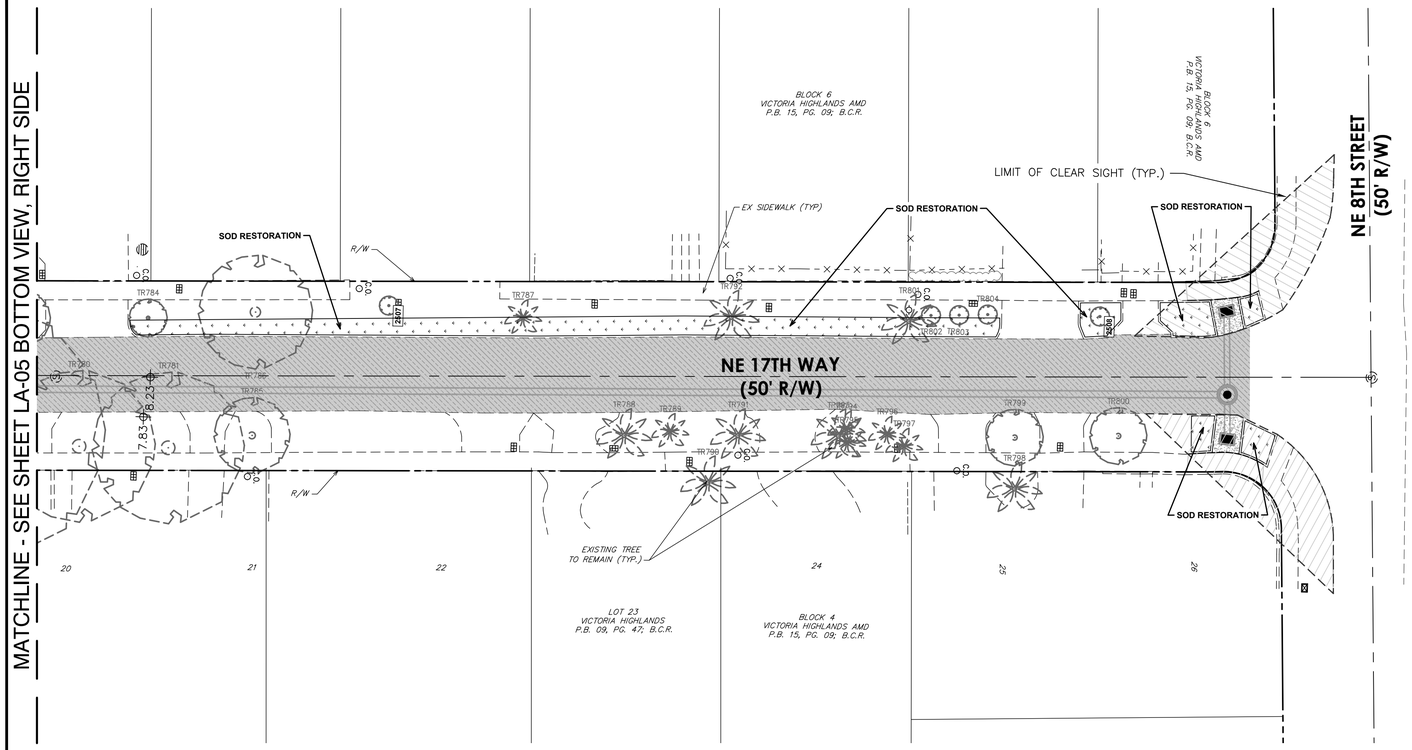
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

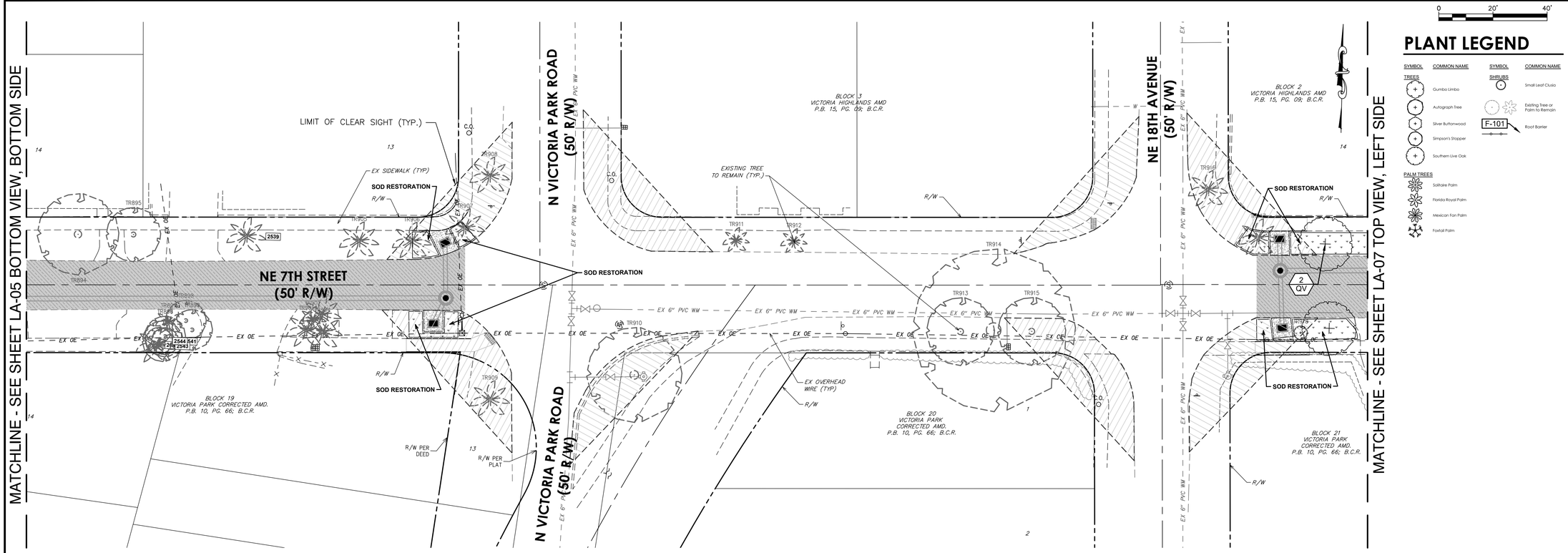
LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-05	213
TOTAL:	233

CAD FILE:
12082-MULTI-LAND

DRAWING FILE NO.
4-144-88





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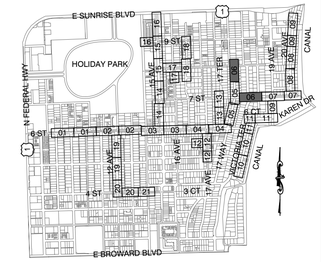

KEY MAP

Sunshine811

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Check positive response codes before you dig!

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

0 20' 40'

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	

DATE: 03/25/25
SCALE: AS SHOWN

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

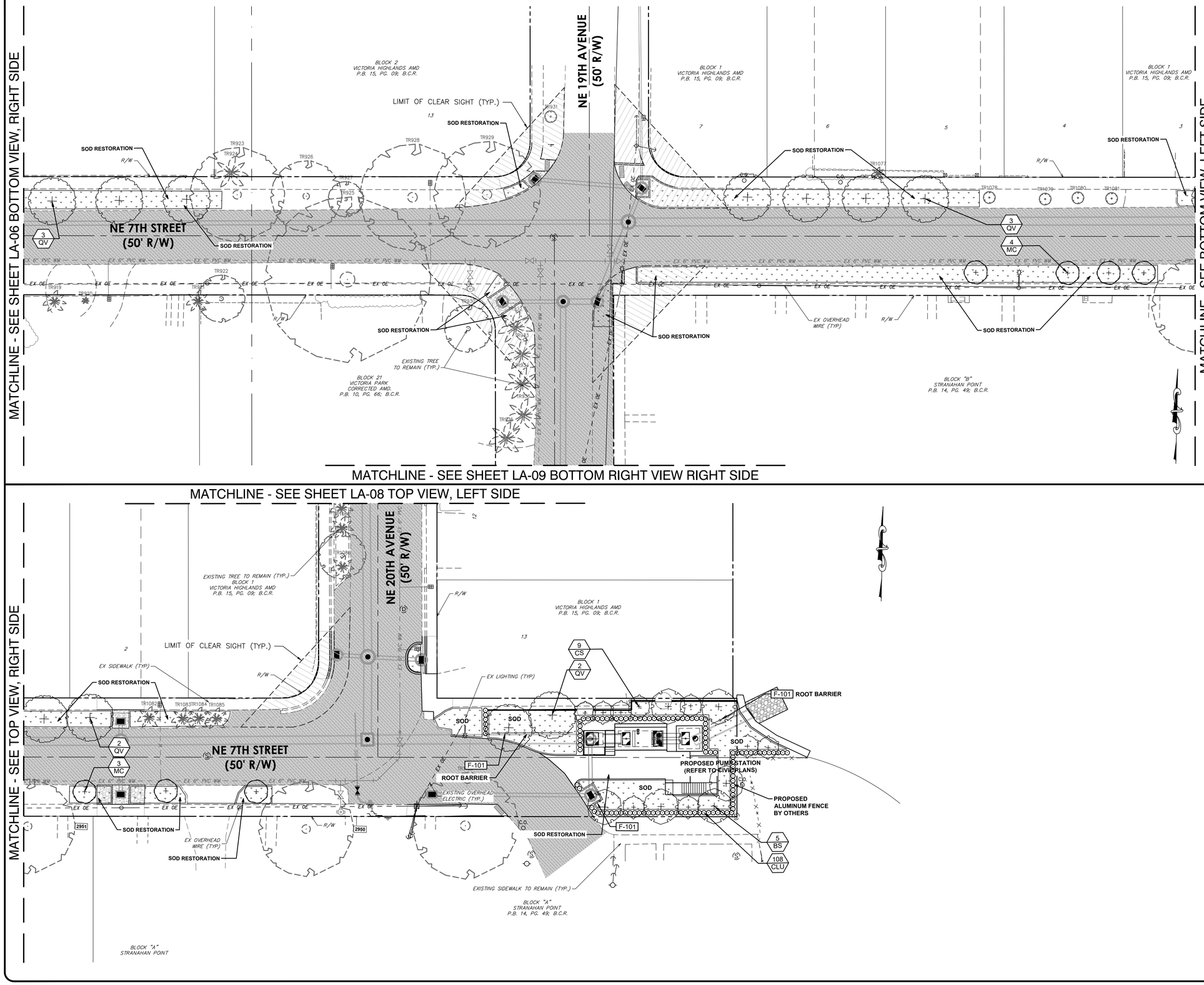
SHEET NO.	SHT #
LA-06	214
TOTAL:	233
CAD FILE: 12082-MULTI-LAND	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET LA-06 BOTTOM VIEW, RIGHT SIDE

MATCHLINE - SEE SHEET LA-09 BOTTOM RIGHT VIEW RIGHT SIDE

MATCHLINE - SEE SHEET LA-08 TOP VIEW, LEFT SIDE

MATCHLINE - SEE TOP VIEW, RIGHT SIDE



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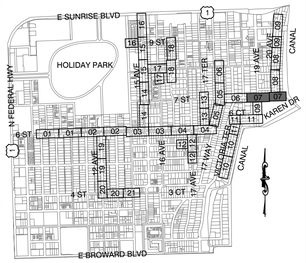

KEY MAP

Sunshine811

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0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

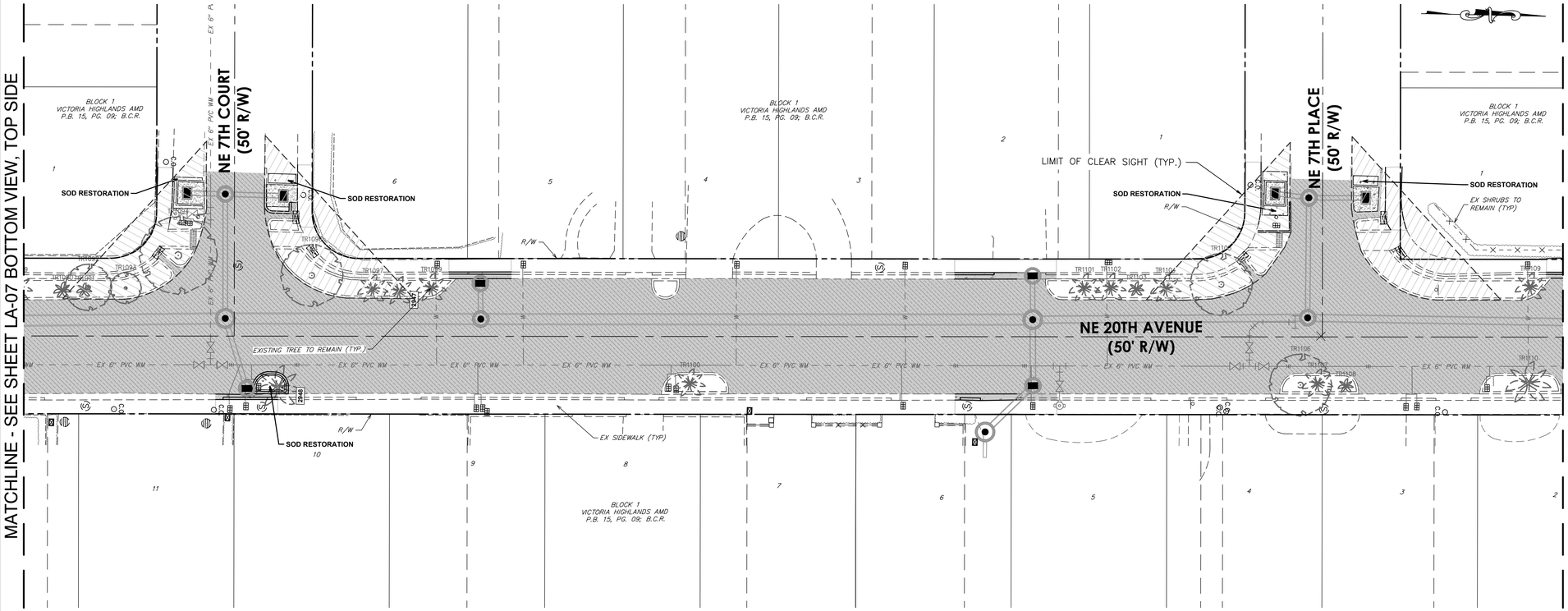
LANDSCAPE RESTORATION PLAN

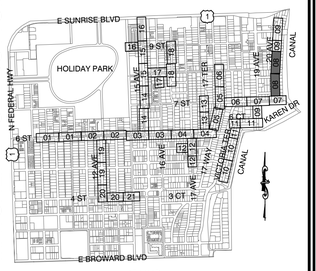
SHEET NO. LA-07 | SHT # 215

TOTAL: 233

CAD FILE: 12082-MULTI-LAND

DRAWING FILE NO. 4-144-88





Hazen

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HOLLYWOOD, FLORIDA 33021

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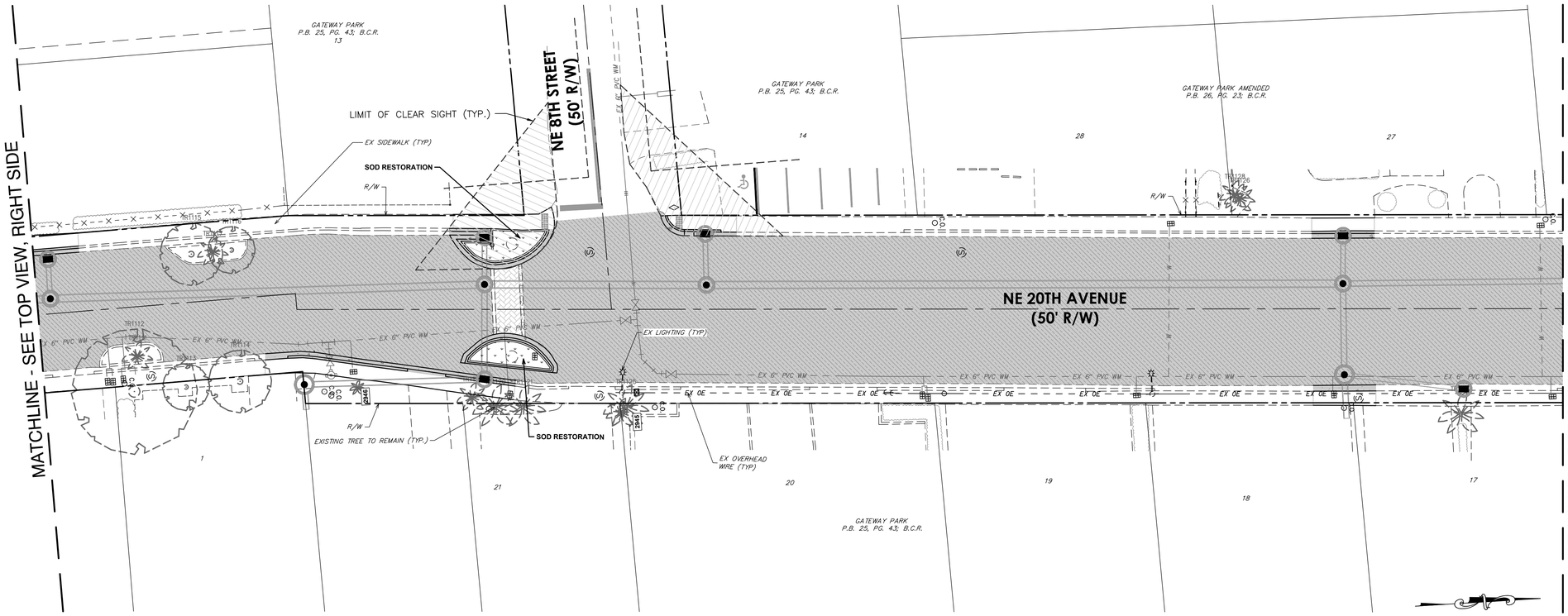


0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Glumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

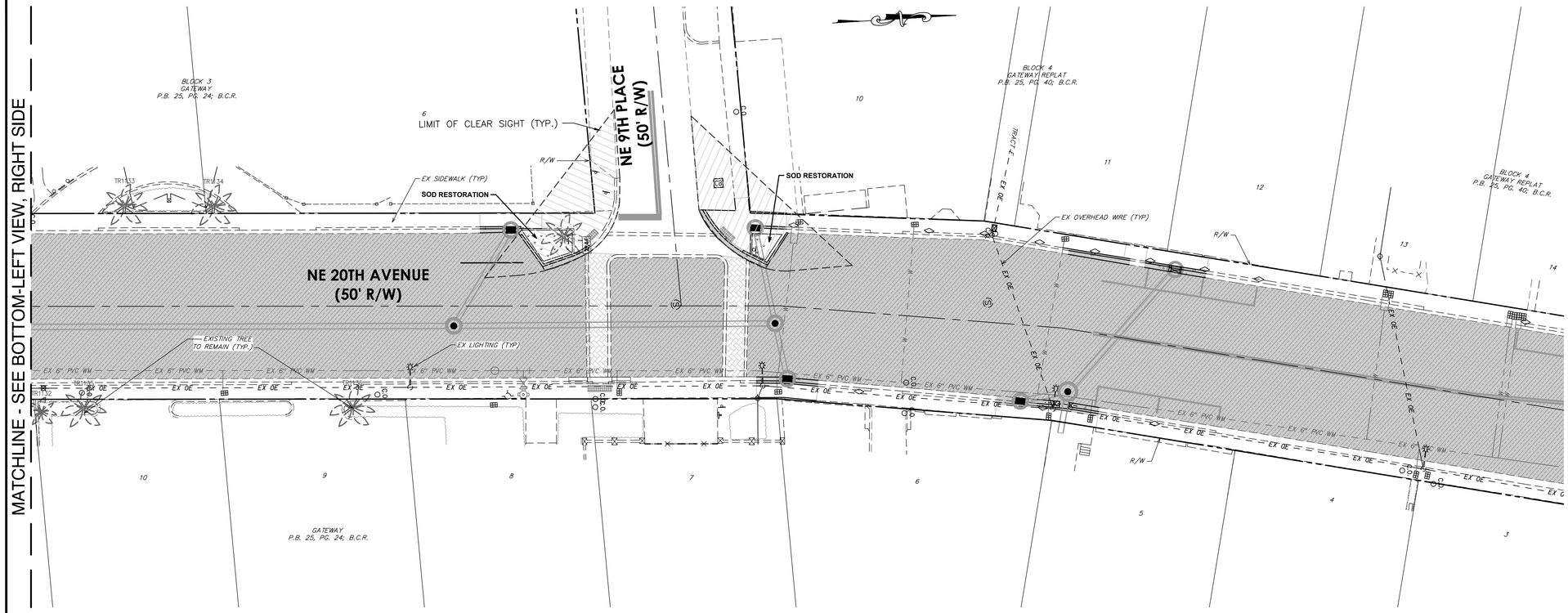
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-08
SHT # 216
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88



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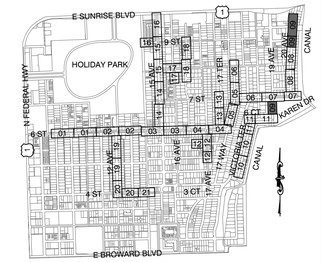

KEY MAP

Sunshine811

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Check positive response codes before you dig!

0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexicon Fan Palm
	Foxtail Palm
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

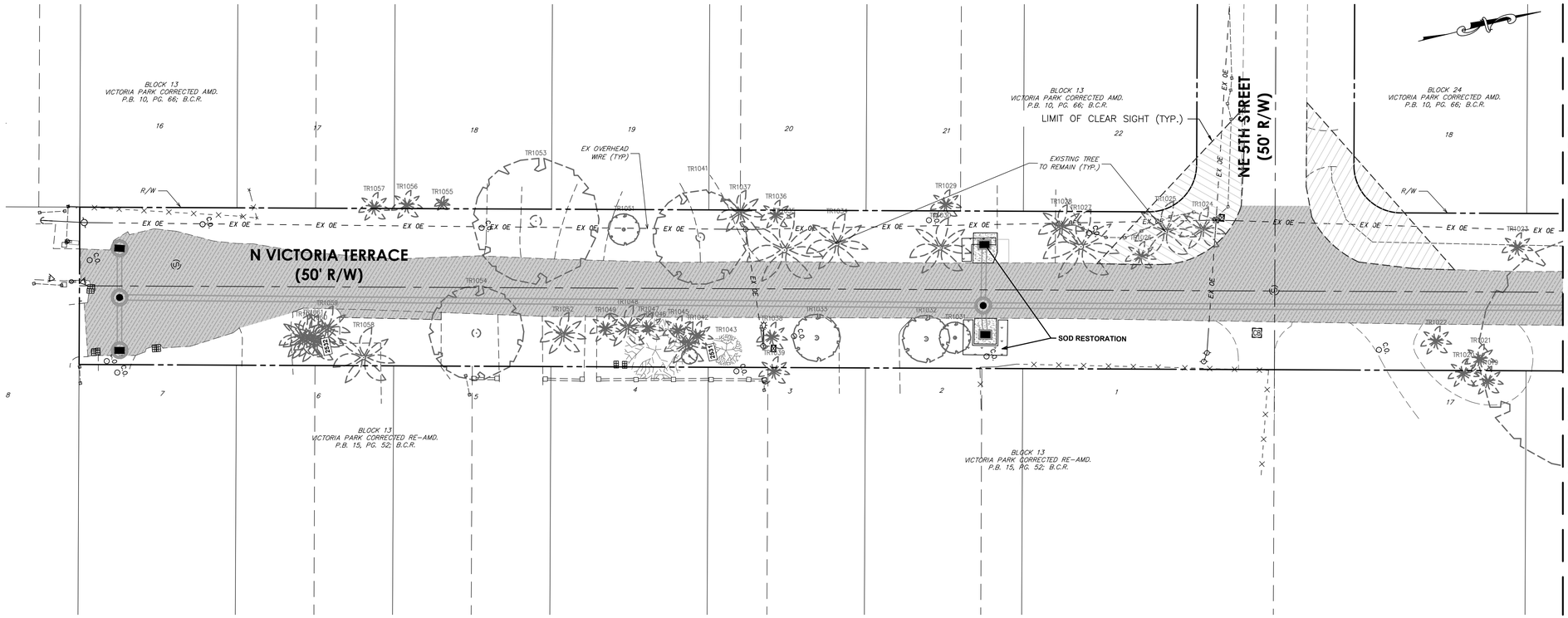
NO.	DATE	BY	CHK'D	DESCRIPTION

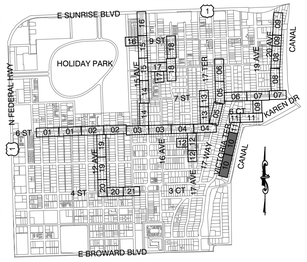
REVISIONS

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-09
SHT # 217
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88





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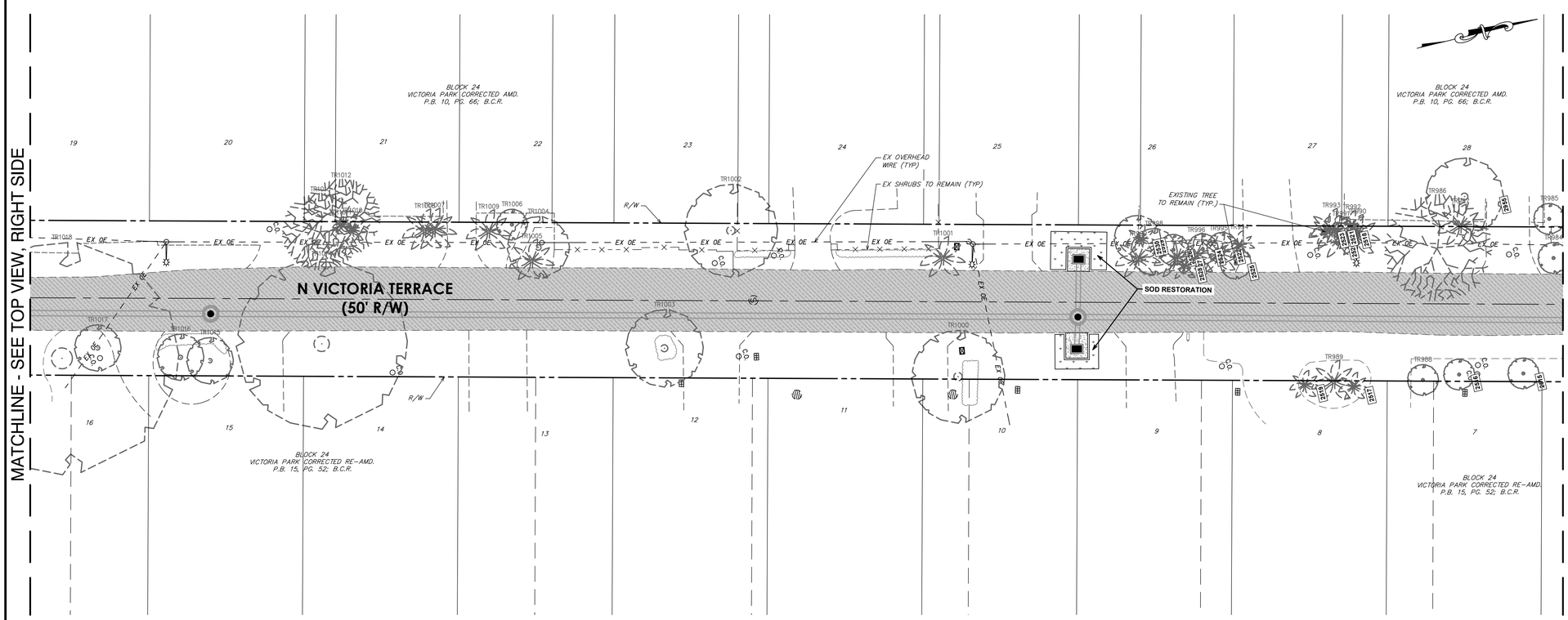


0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:	FIELD BOOK:
JKC	03/25/25	
DESIGNED BY:	SCALE:	
JKC	AS SHOWN	
CHECKED BY:		
EDH		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

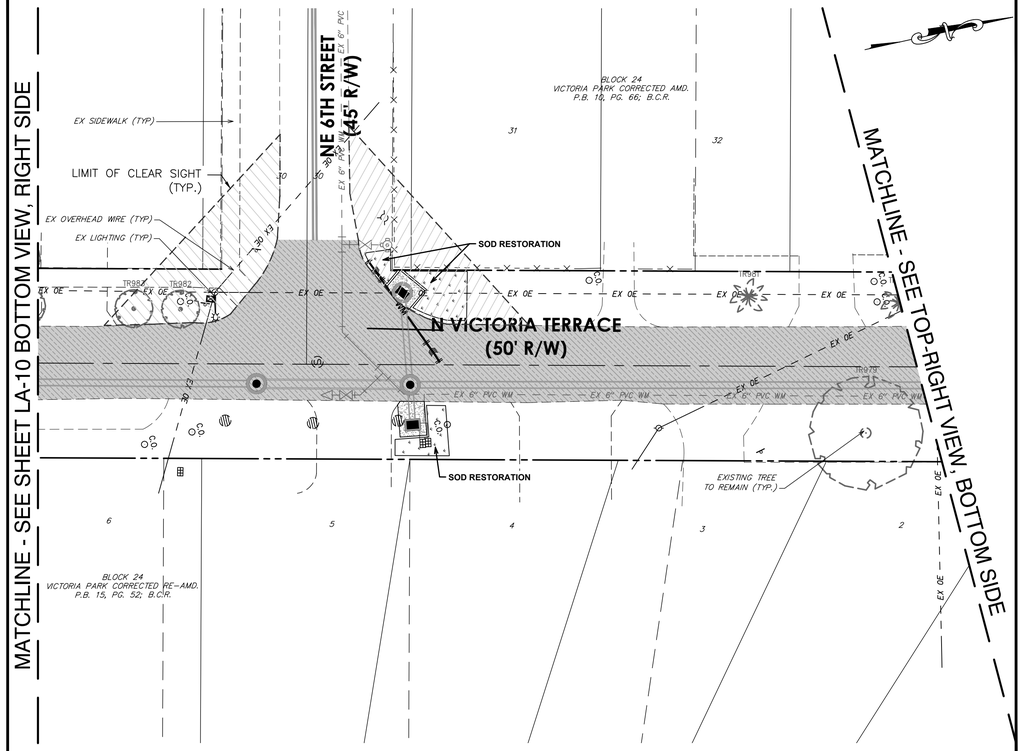
REVISIONS

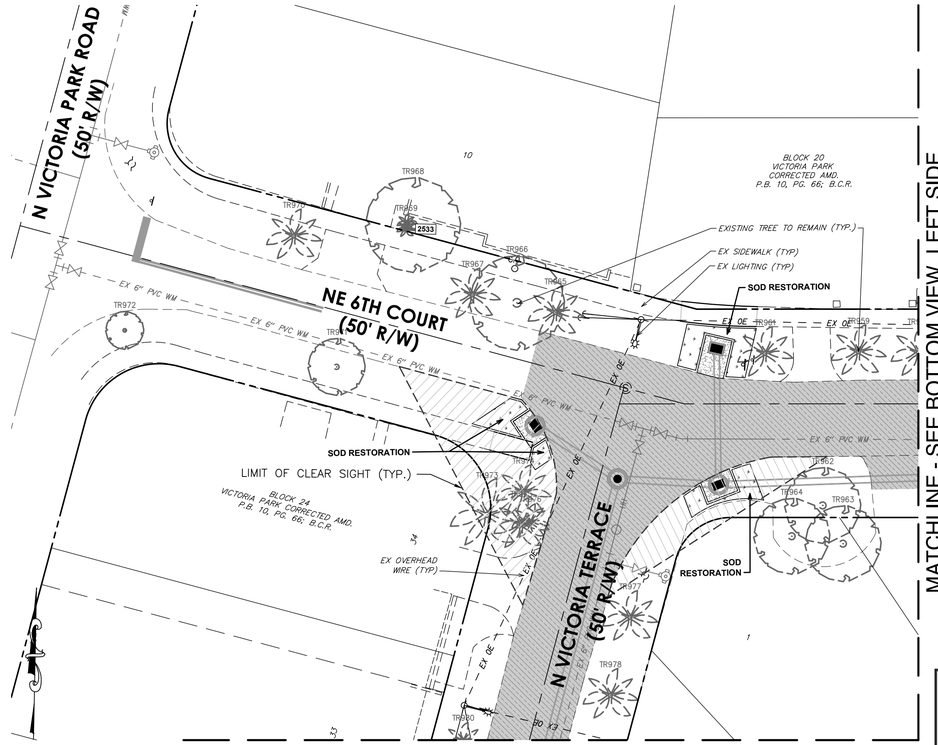
NO.	DATE	BY	CHK'D	DESCRIPTION

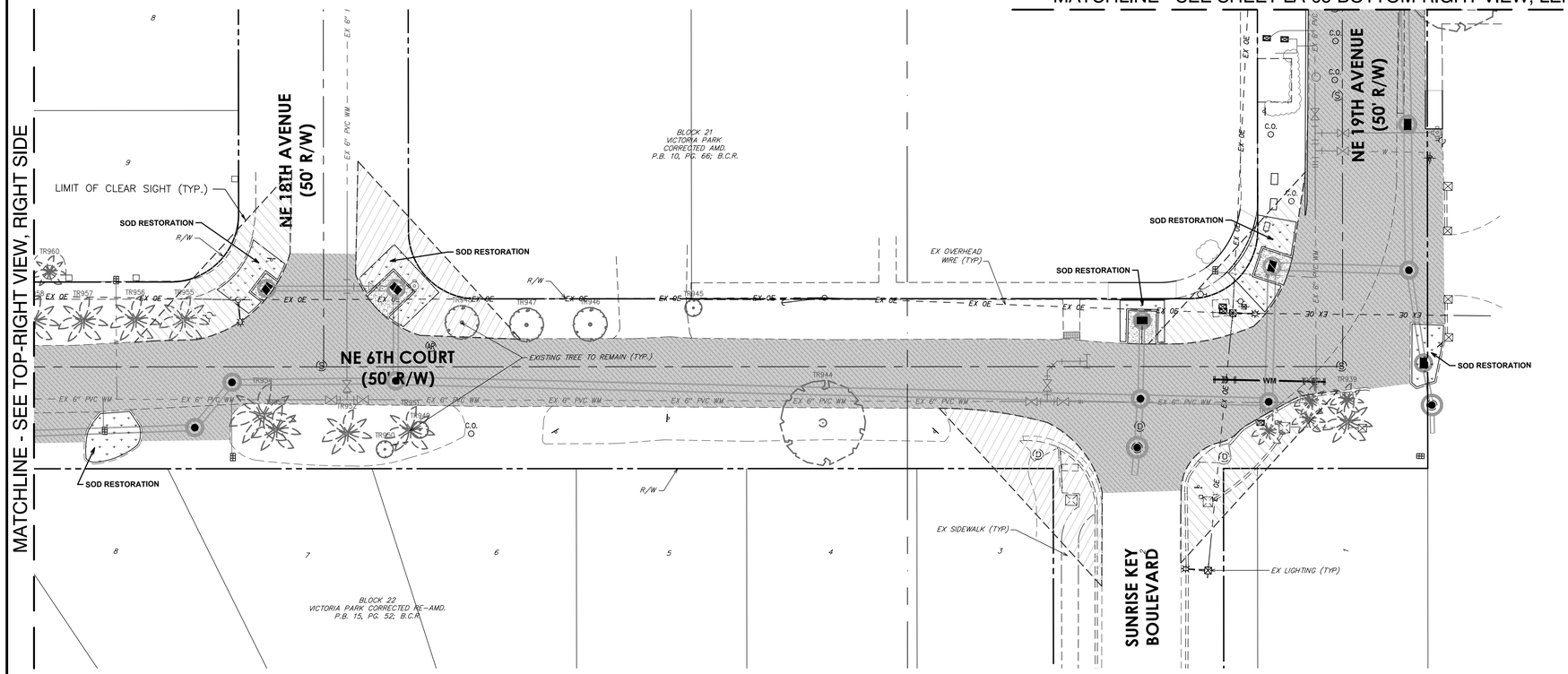
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

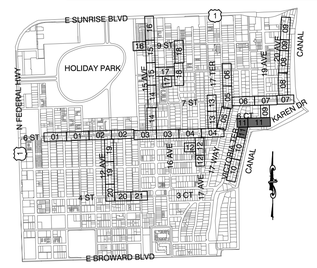
LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-10	218
TOTAL:	233
CAD FILE: 12082-MULTI-LAND	
DRAWING FILE NO. 4-144-88	









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0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

Sunshine811
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ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

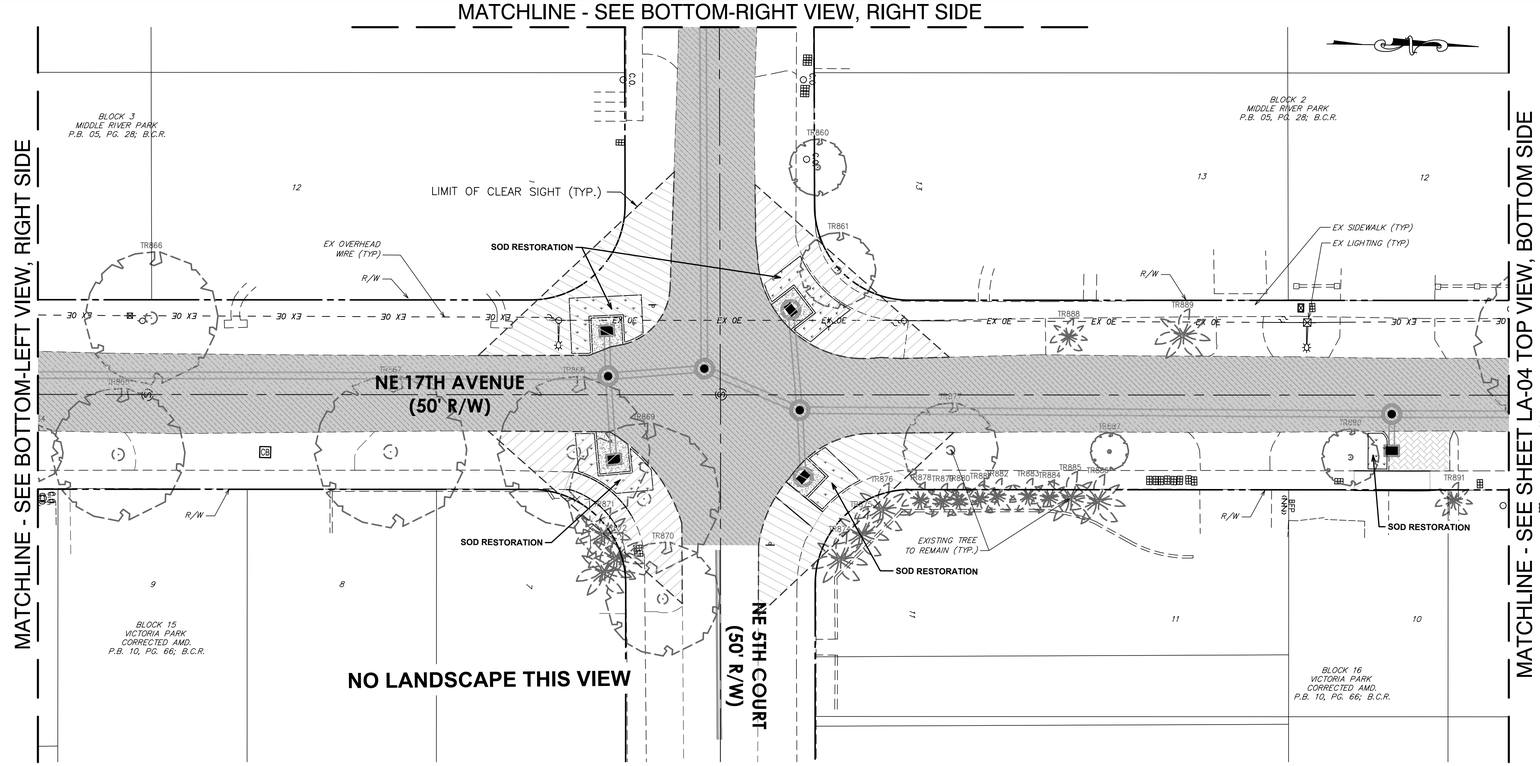
REVISIONS

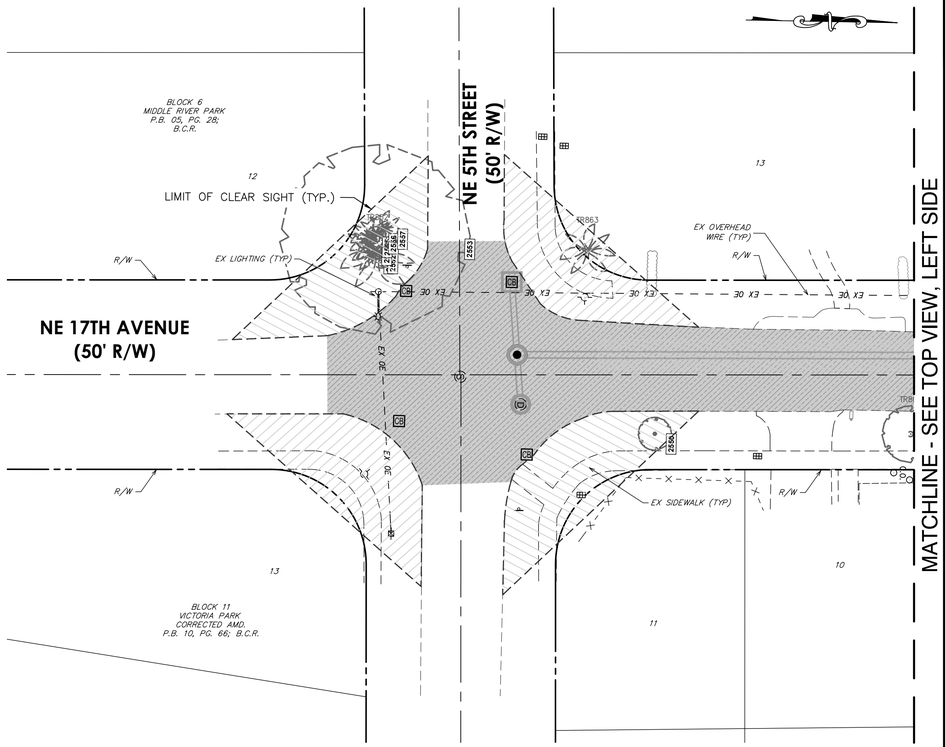
NO.	DATE	BY	CHK'D	DESCRIPTION

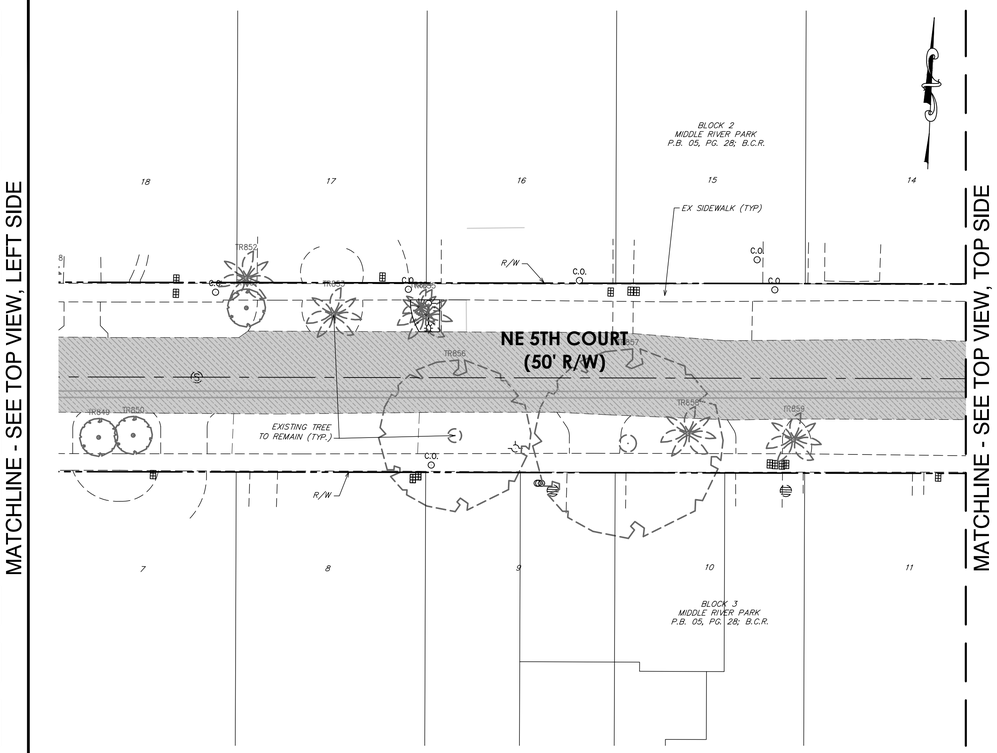
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-11
SHT # 219
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88







PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

0 20' 40'

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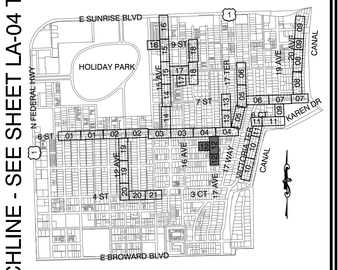

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

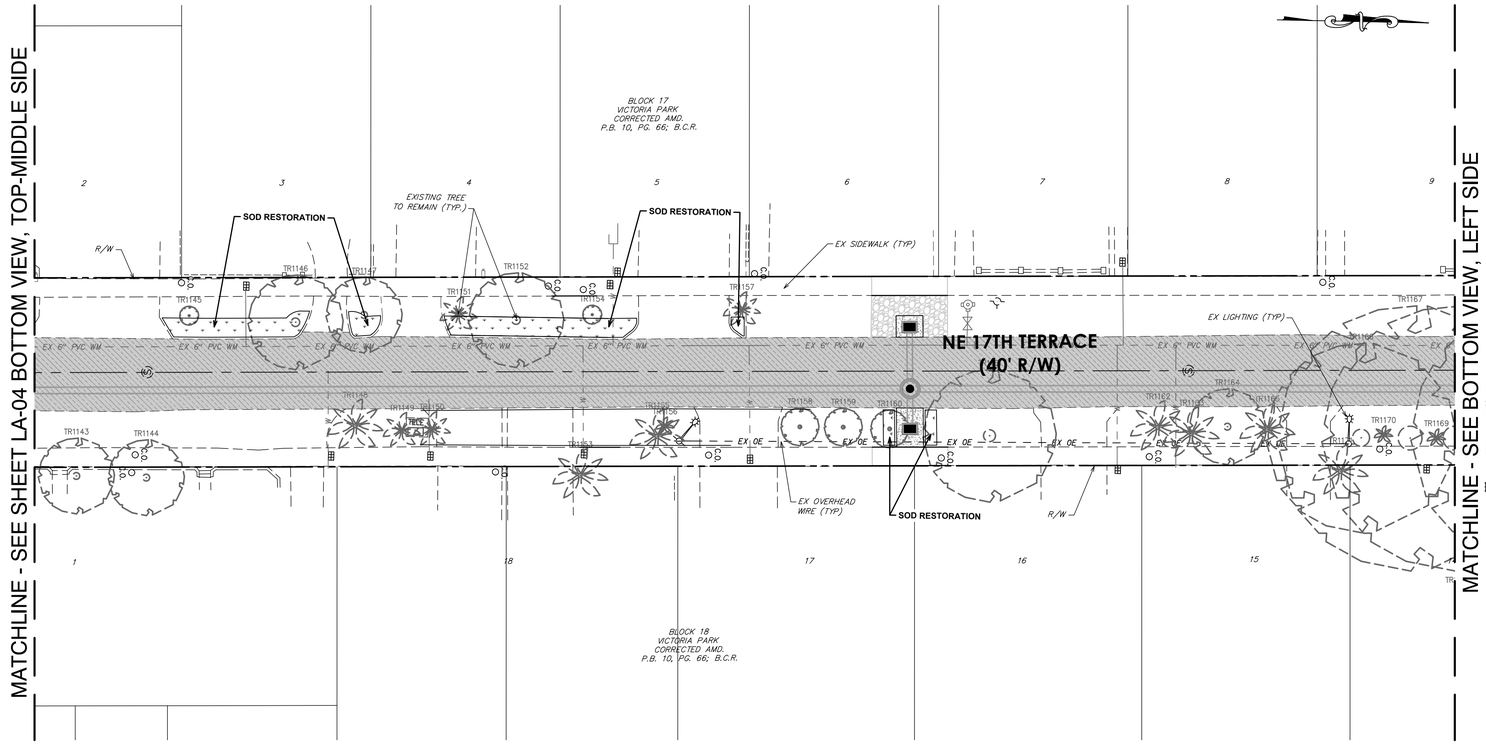
NO.	DATE	BY	CHK'D	DESCRIPTION

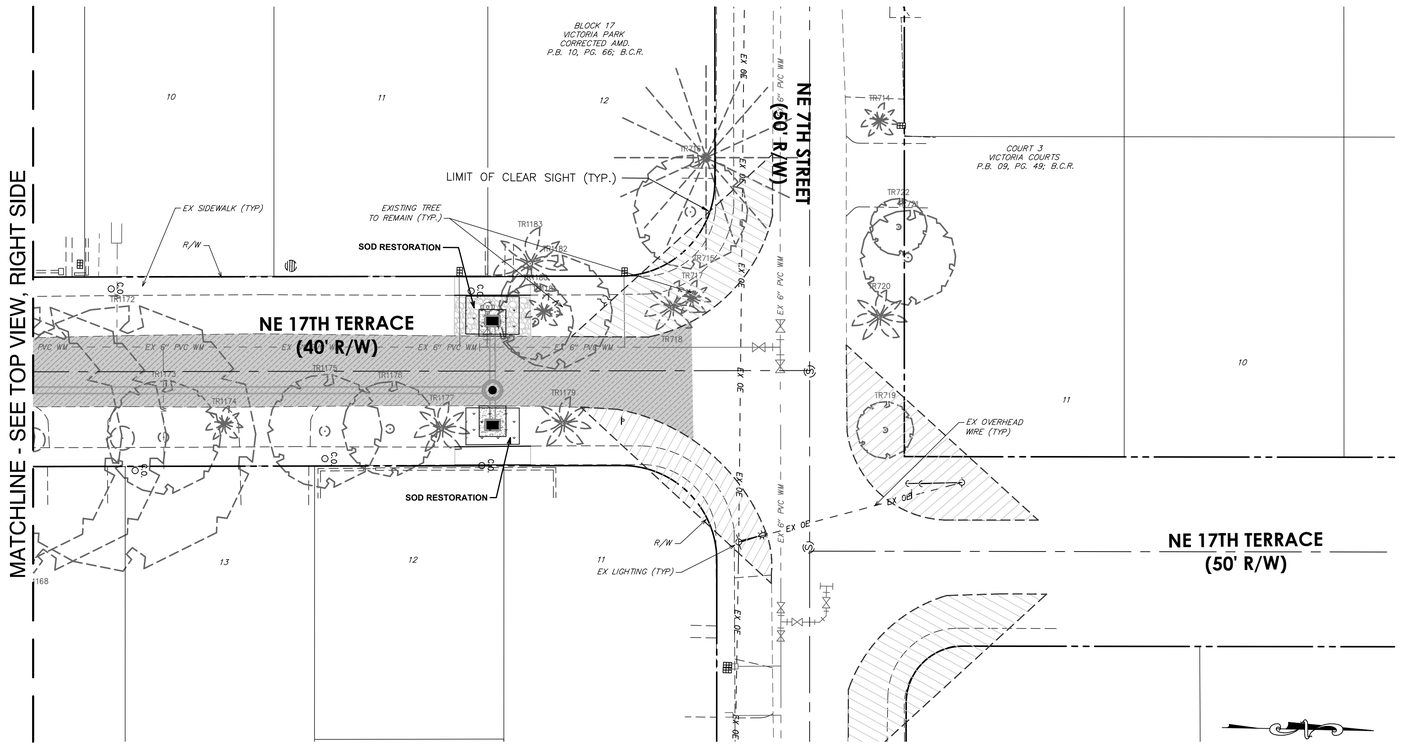
ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-12
SHT # 220
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88

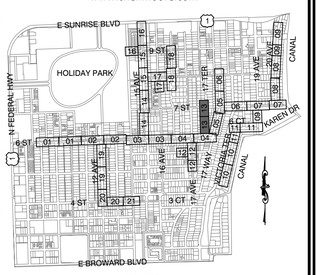




Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Glumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	
EDH	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

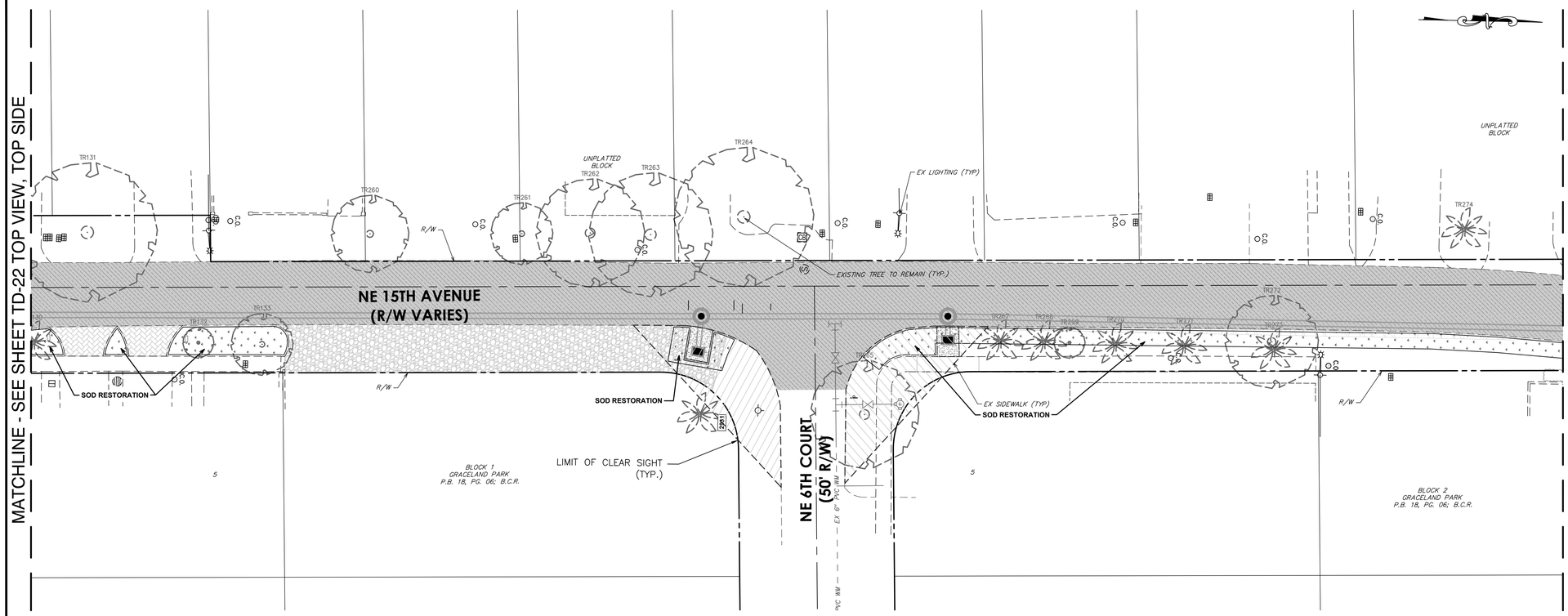
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

ISSUED FOR BID

SHEET NO.	SHT #
LA-13	221
TOTAL:	233
CAD FILE: 12082-MULTI-LAND	
DRAWING FILE NO. 4-144-88	



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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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chen moore and associates
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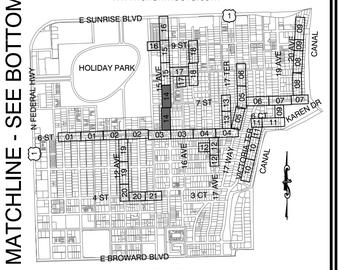

KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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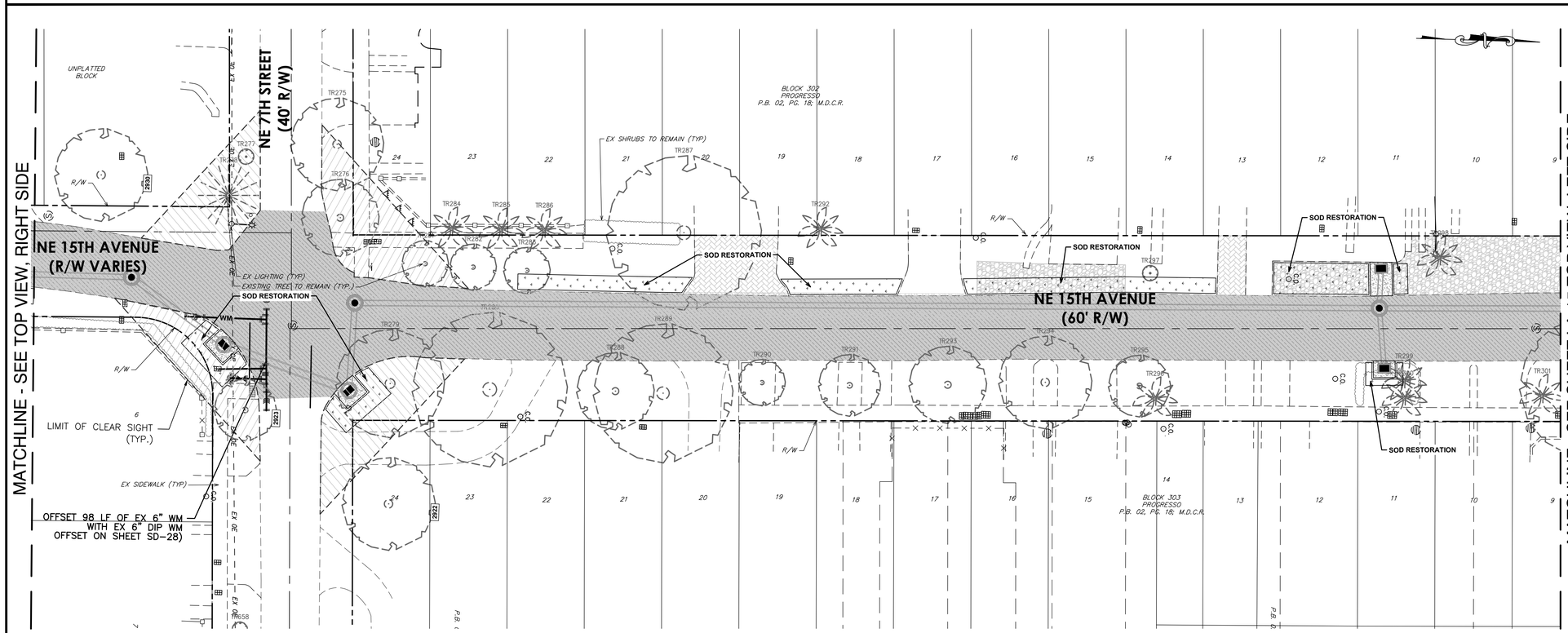
LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC	DATE: 03/25/25		
DESIGNED BY: JKC	SCALE: AS SHOWN		
CHECKED BY: EDH		FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301



0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

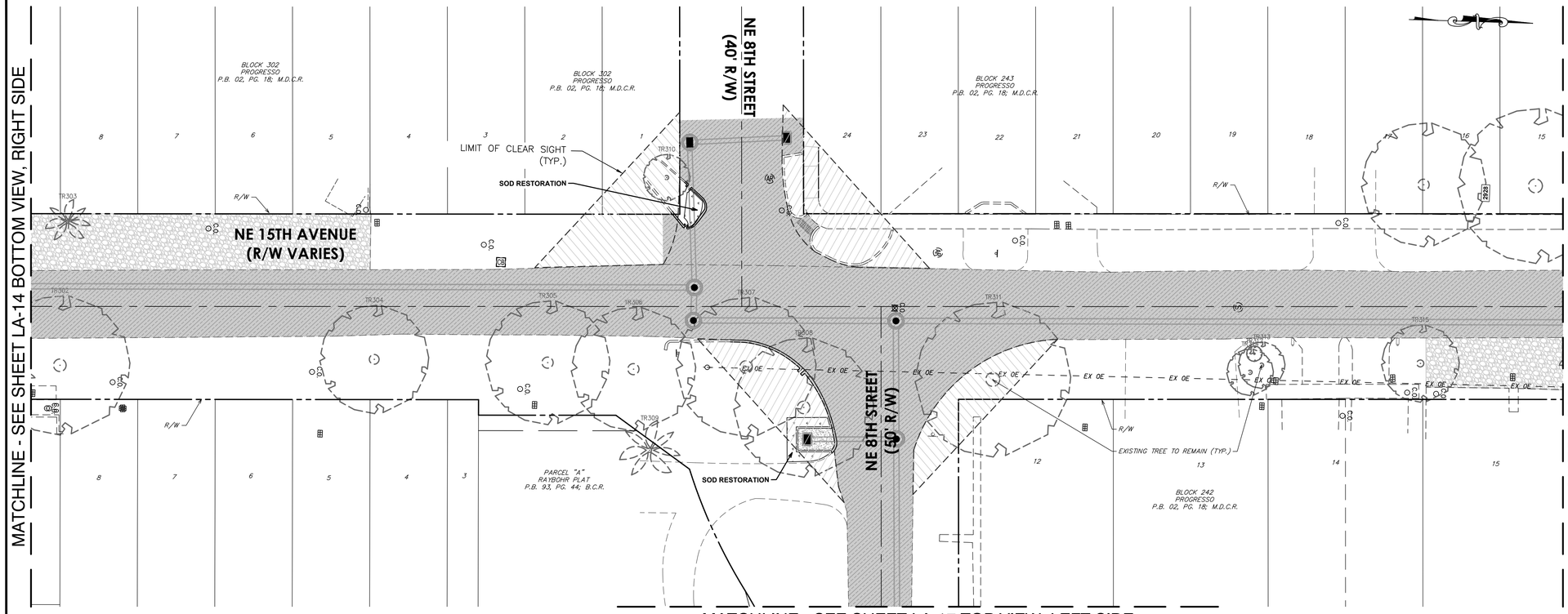
REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

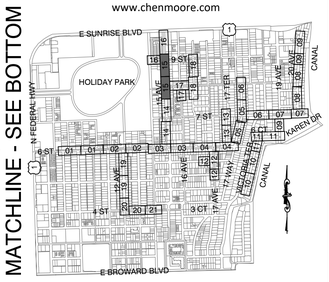
SHEET NO.	SHT #
LA-14	222
TOTAL:	233
CAD FILE: 12082-MULTI-LAND	
DRAWING FILE NO. 4-144-88	



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

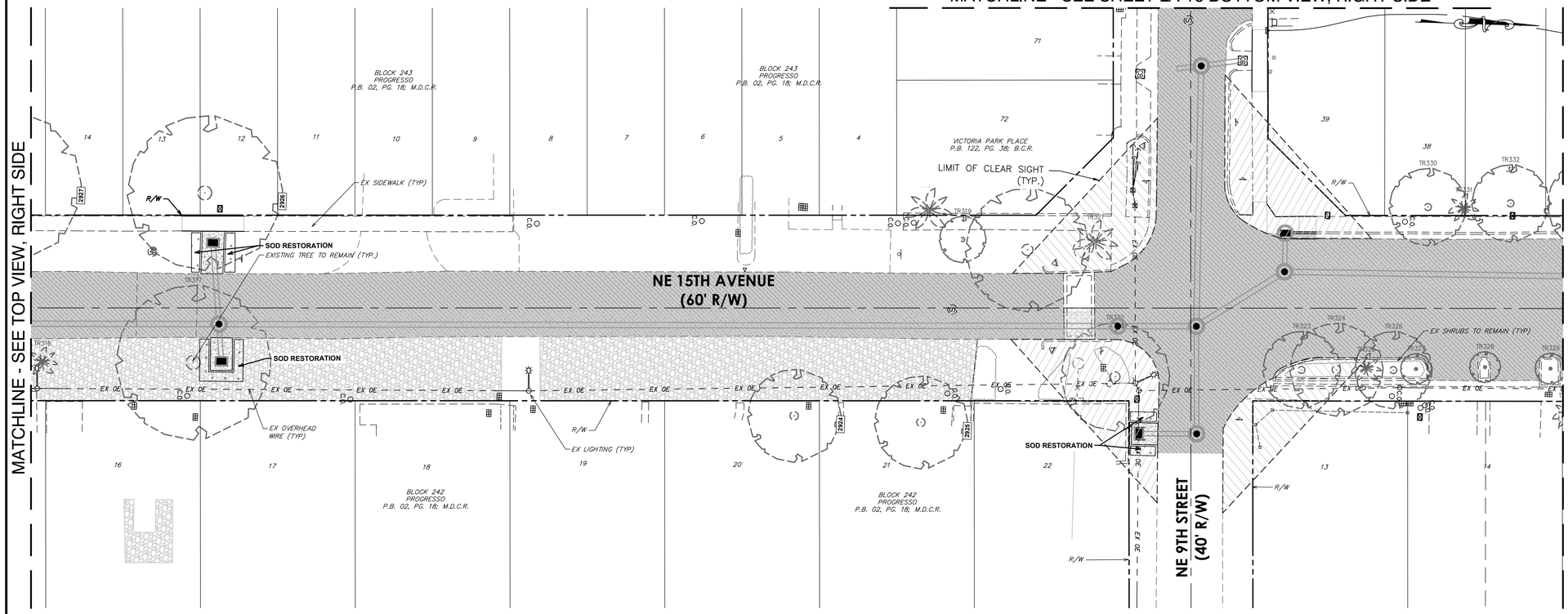
DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	
EDH	

FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

MATCHLINE - SEE SHEET LA-16 BOTTOM VIEW, RIGHT SIDE



0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

NO.	DESCRIPTION	DATE	BY	CHK'D
REVISIONS				

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

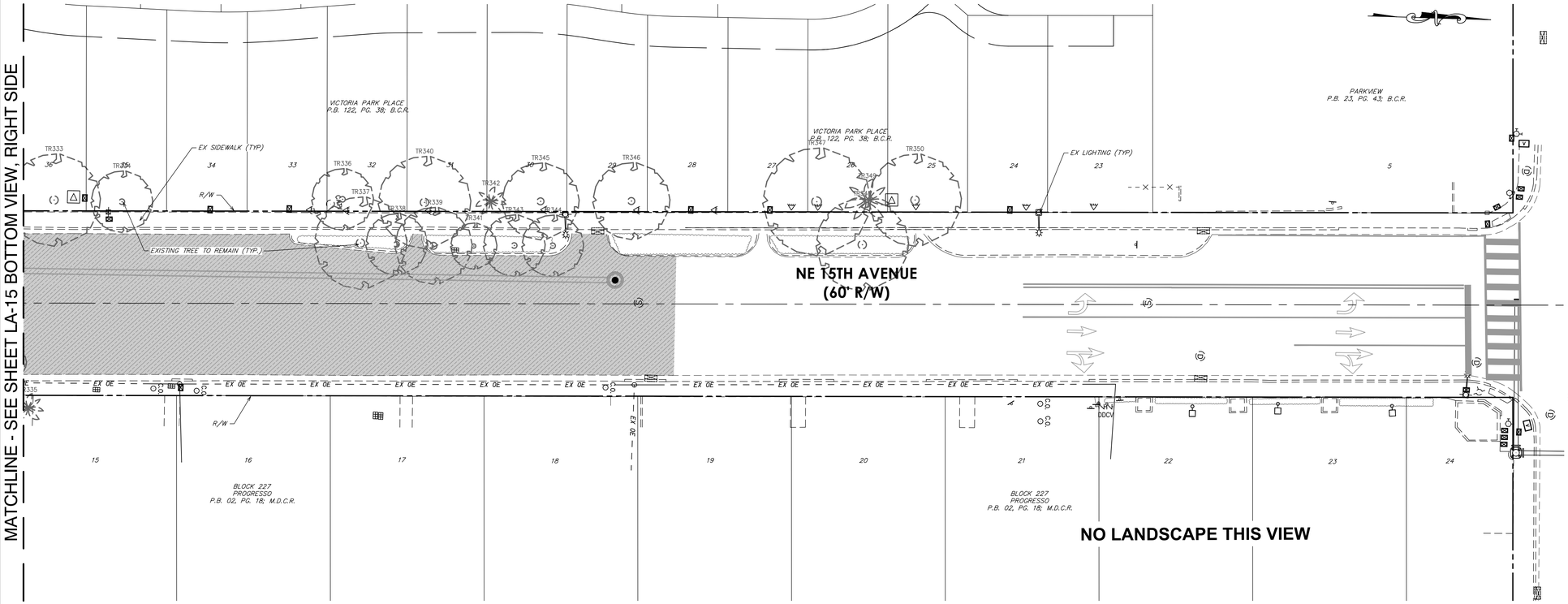
ISSUED FOR BID

SHEET NO.	SHT #
LA-15	223
TOTAL:	233

CAD FILE:
12082-MULTI-LAND

DRAWING FILE NO.
4-144-88

MATCHLINE - SEE SHEET LA-15 BOTTOM VIEW, RIGHT SIDE



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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chen moore and associates
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Suite 600
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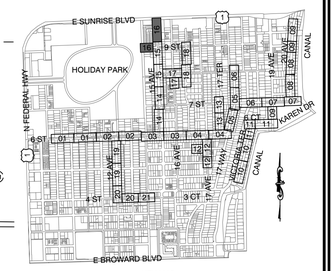

Sunshine811

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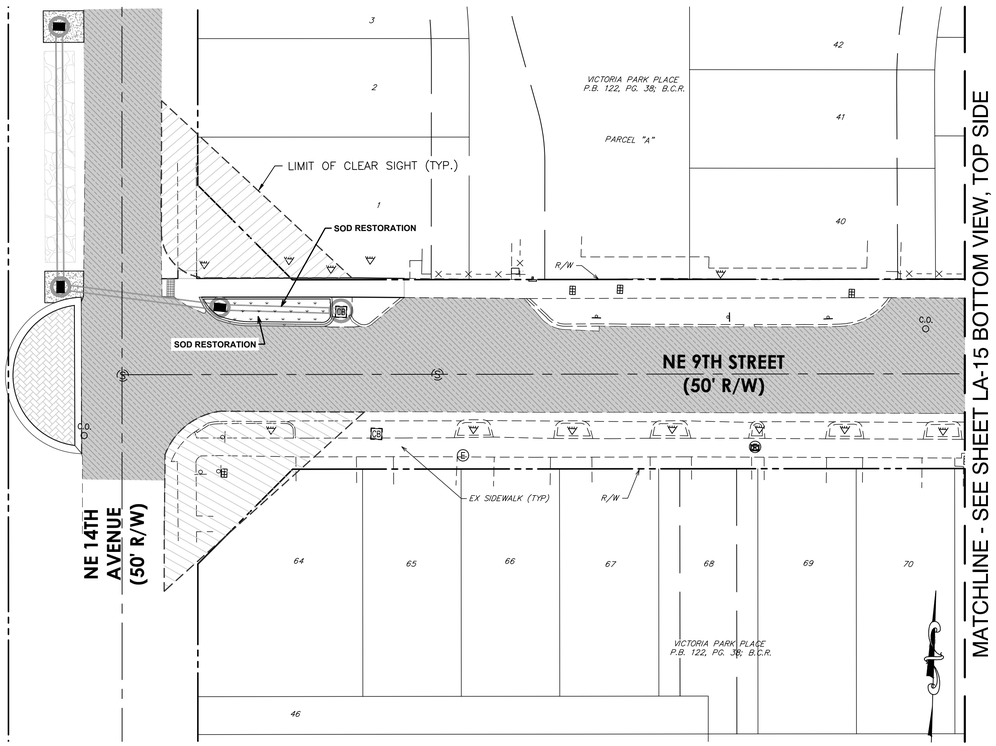


0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Roof Barrier

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DESIGNED BY:	CHECKED BY:
JKC	JKC	EDH

DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

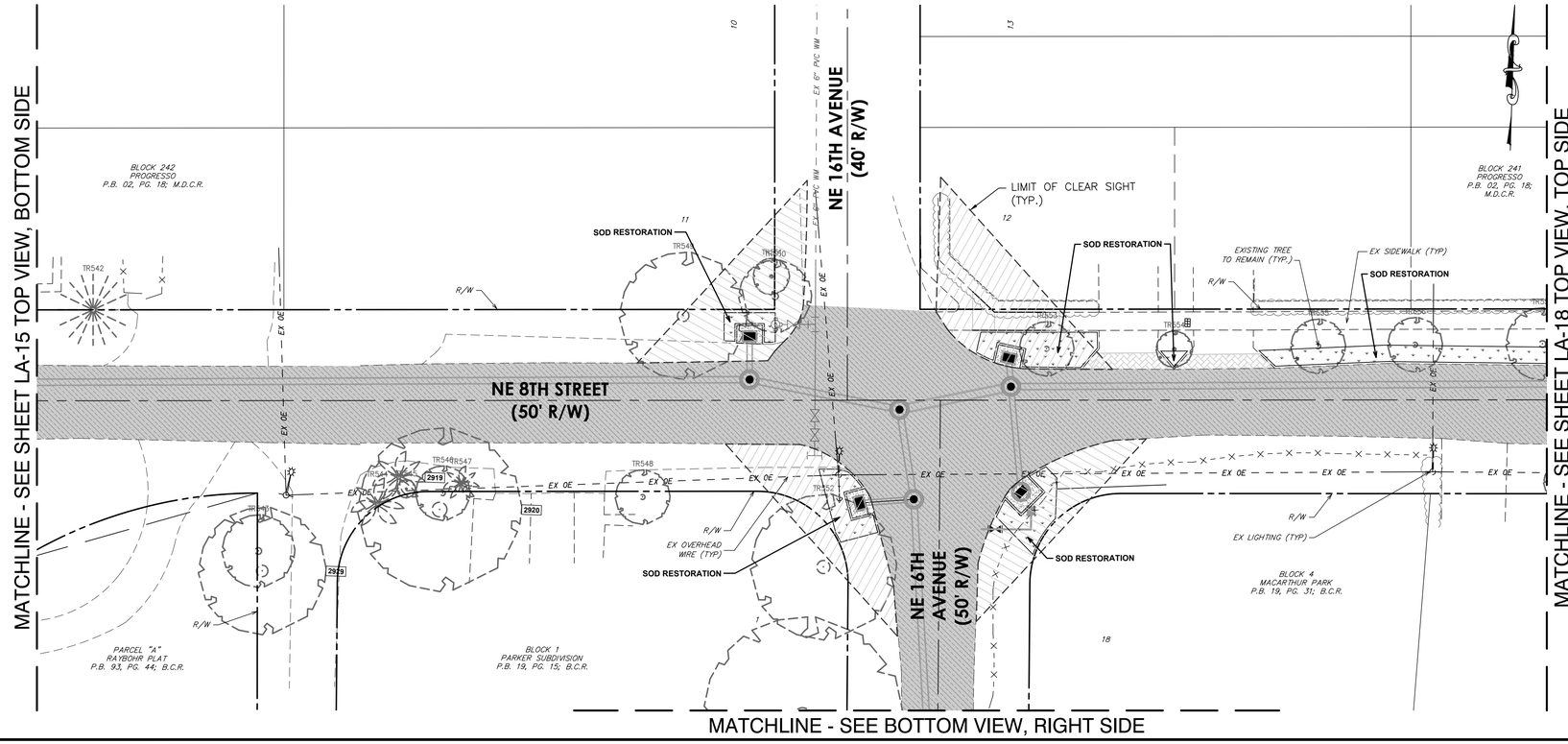
LANDSCAPE RESTORATION PLAN

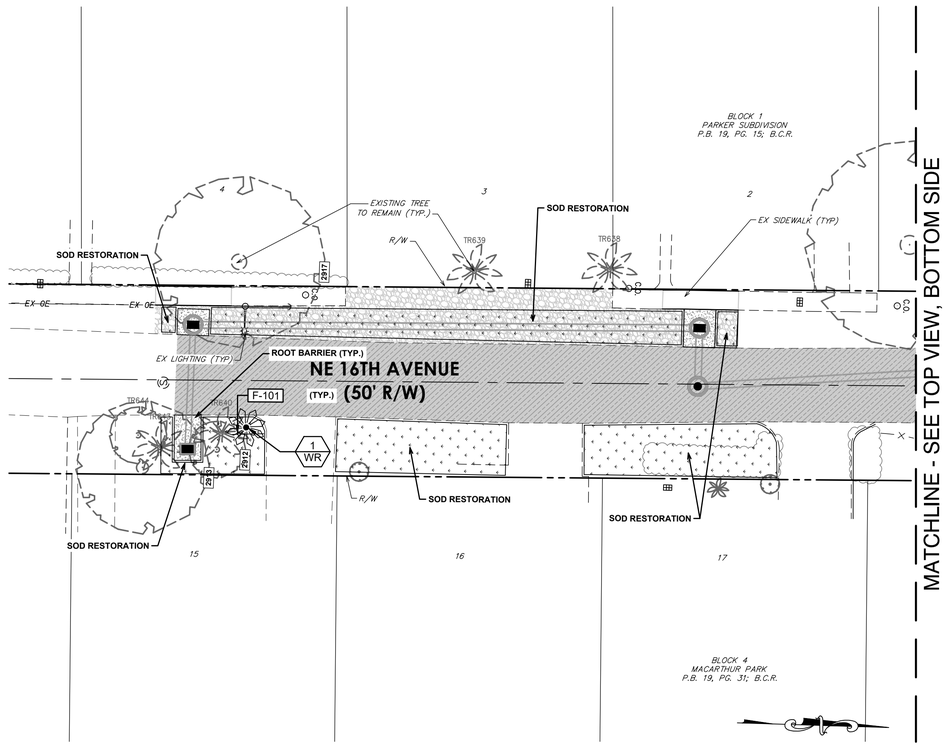
SHEET NO.	SHT #
LA-16	224

TOTAL: 233

CAD FILE:
12082-MULTI-LAND

DRAWING FILE NO.
4-144-88





0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
TREES		SHRUBS	
	Gumbo Limbo		Small Leaf Clusia
	Autograph Tree		Existing Tree or Palm to Remain
	Silver Buttonwood	F-101	Root Barrier
	Simpson's Stopper		
	Southern Live Oak		
PALM TREES			
	Solitaire Palm		
	Florida Royal Palm		
	Mexican Fan Palm		
	Foxtail Palm		

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
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www.chenmoore.com

KEY MAP

Sunshine811
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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	FIELD BOOK:
EDH	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

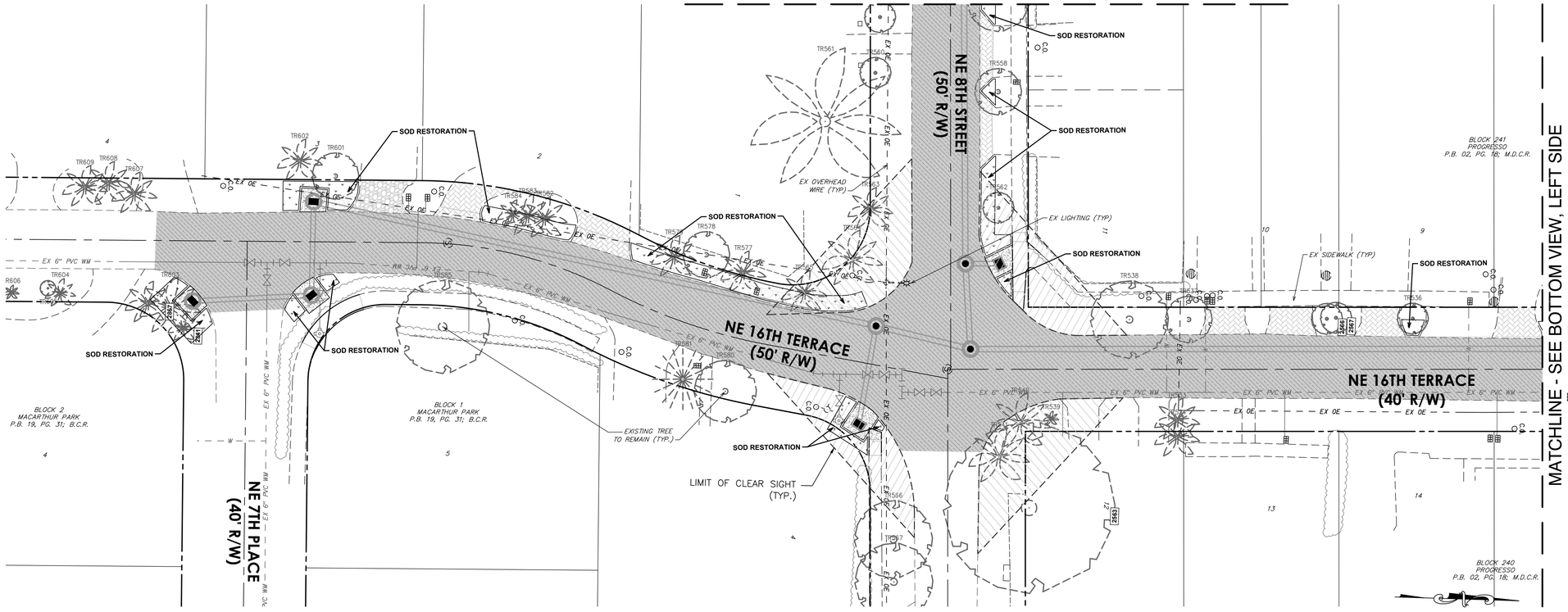
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-17	225
TOTAL:	233
CAD FILE: 12082-MULTI-LAND	
DRAWING FILE NO. 4-144-88	

MATCHLINE - SEE SHEET LA-17 TOP VIEW, RIGHT SIDE



MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates

500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
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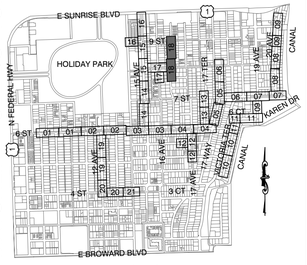

KEY MAP

Sunshine811

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 0007129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

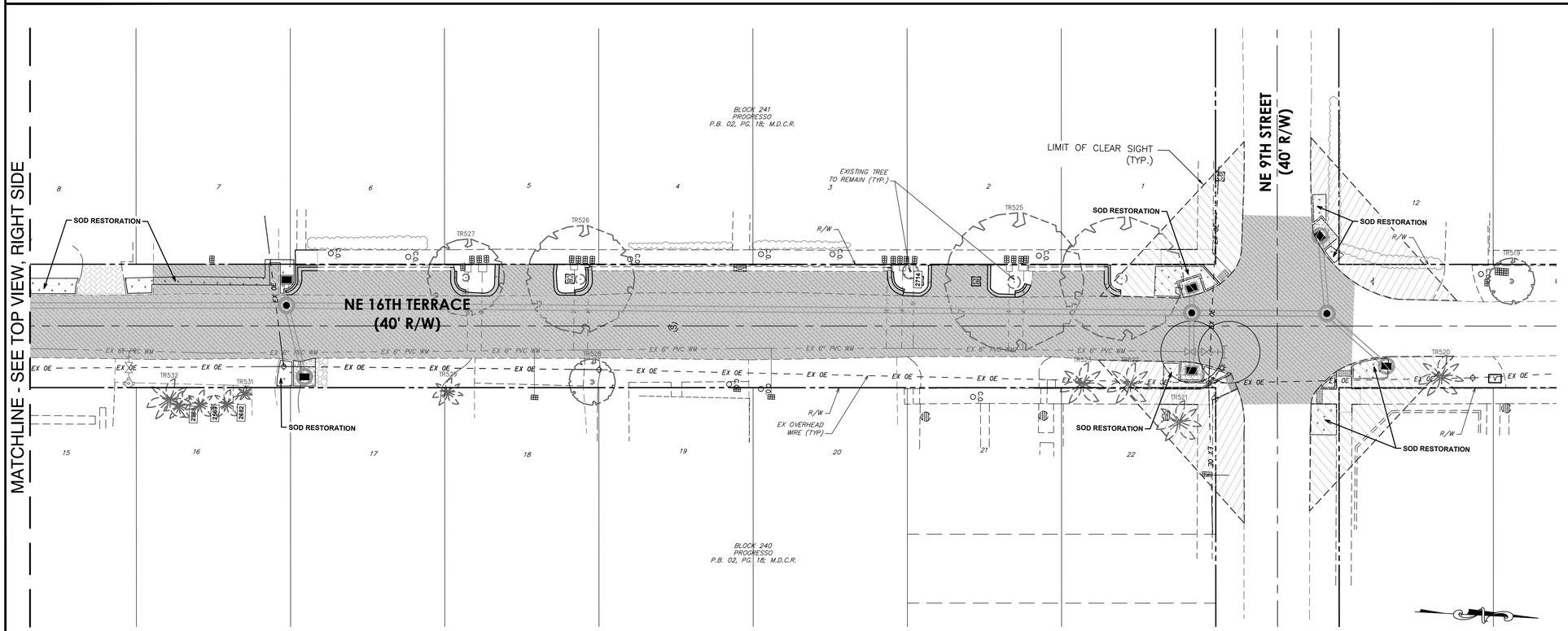
DRAWN BY:	DATE:
JKC	03/25/25
DESIGNED BY:	SCALE:
JKC	AS SHOWN
CHECKED BY:	
EDH	

FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

MATCHLINE - SEE TOP VIEW, RIGHT SIDE



0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Glumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

NO.	DATE	DESCRIPTION	BY	CHK'D

REVISIONS

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO.	SHT #
LA-18	226
TOTAL:	233
CAD FILE: 12082–MULTI–LAND	
DRAWING FILE NO. 4–144–88	

MATCHLINE - SEE SHEET LA-20 TOP VIEW, RIGHT SIDE

BLOCK 6
HALLS ADDITION
P.B. 01, PG. 134; M.D.C.R.

LIMIT OF CLEAR SIGHT (TYP.)

NE 5TH STREET
(50' R/W)

EX LIGHTING (TYP)

EXISTING TREE TO REMAIN (TYP.)

EX OVERHEAD WIRE (TYP)

EX SIDEWALK (TYP)

SOD RESTORATION

NE 12TH AVENUE
(50' R/W)

BLOCK 7
HALLS ADDITION
P.B. 01, PG. 134; M.D.C.R.

MATCHLINE - SEE BOTTOM VIEW, LEFT SIDE

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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954.730.0707
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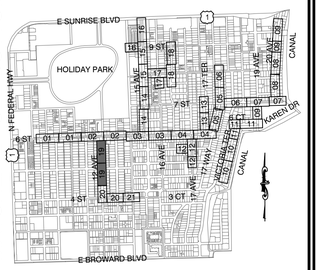
KEY MAP



Sunshine811

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LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:

TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
DATE: 03/25/25
SCALE: AS SHOWN
CHECKED BY: EDH
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING

101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

MATCHLINE - SEE TOP VIEW, RIGHT SIDE

BLOCK 3
HALLS ADDITION
P.B. 01, PG. 134; M.D.C.R.

EX SIDEWALK (TYP)

EX LIGHTING (TYP)

SOD RESTORATION

NE 12TH AVENUE
(50' R/W)

EXISTING TREE TO REMAIN (TYP.)

BLOCK 2
HALLS ADDITION
P.B. 01, PG. 134; M.D.C.R.

WALLER RESUB OF HALLS ADD
P.B. 18, PG. 53; B.C.R.

MATCHLINE - SEE SHEET LA-02 TOP VIEW, BOTTOM SIDE

0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

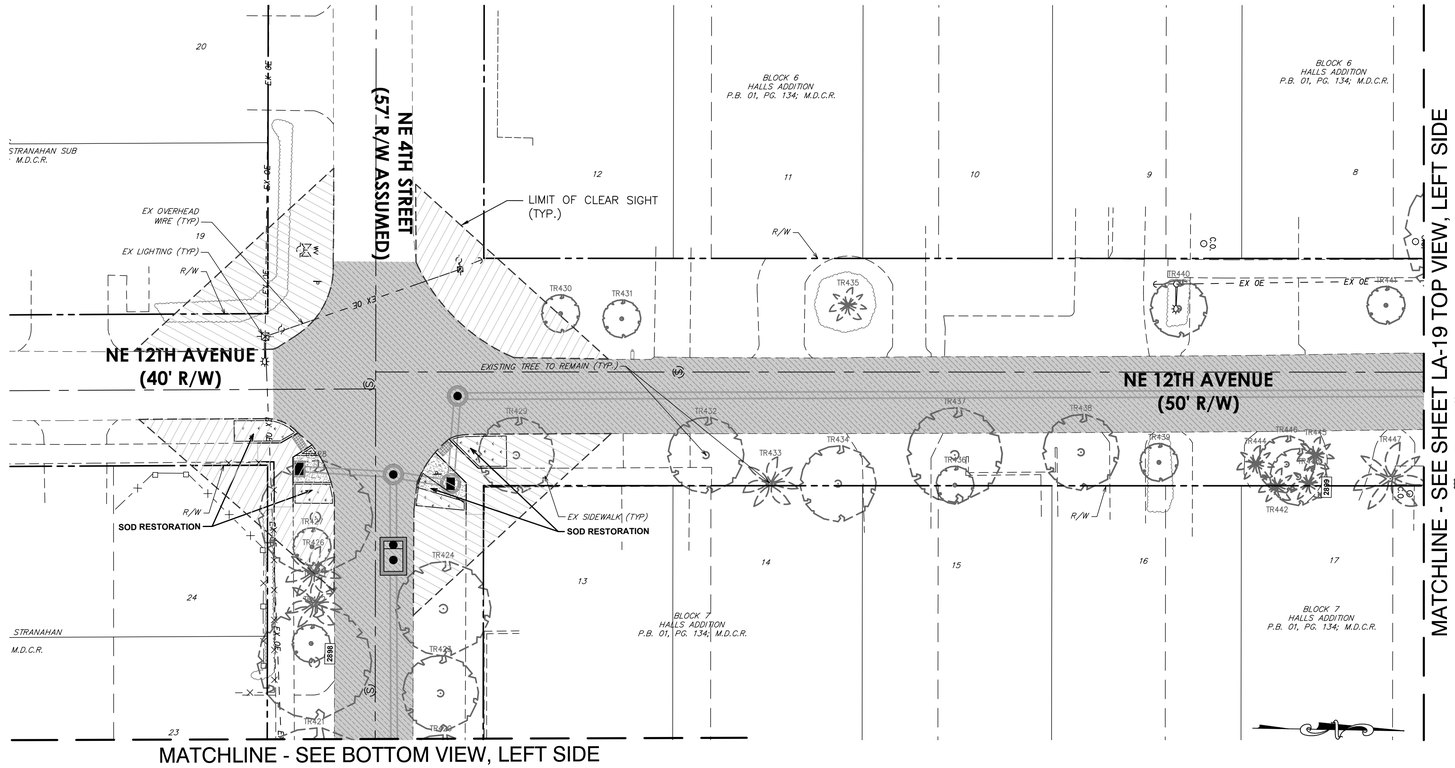
SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-19
SHT # 229
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88



0 20' 40'

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

KEY MAP

Sunshine811
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DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
JKC	JKC	EDH	
DATE: 03/25/25	SCALE: AS SHOWN		

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

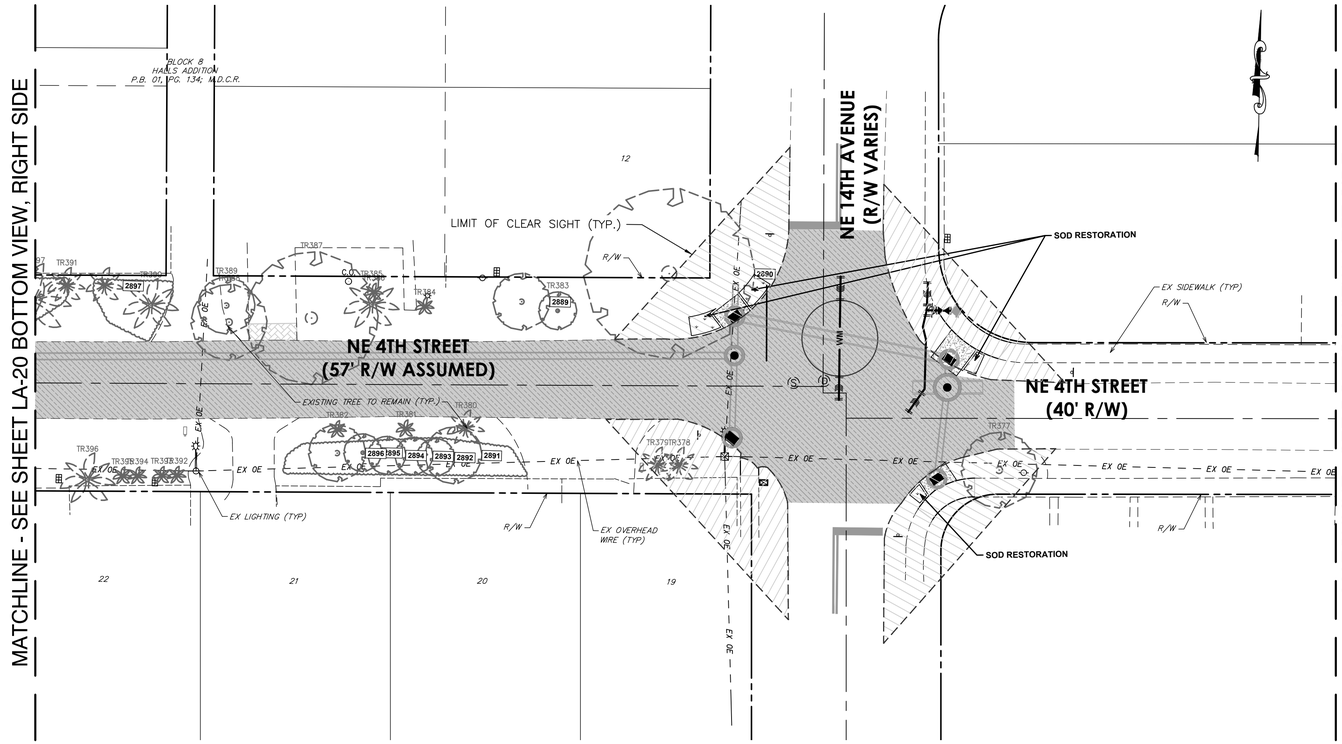
SHEET NO.	SHT #
LA-20	228
TOTAL:	233

CAD FILE: 12082–MULTI–LAND
DRAWING FILE NO. 4–144–88

PLANT LEGEND

SYMBOL	COMMON NAME
TREES	
	Gumbo Limbo
	Autograph Tree
	Silver Buttonwood
	Simpson's Stopper
	Southern Live Oak
PALM TREES	
	Solitaire Palm
	Florida Royal Palm
	Mexican Fan Palm
	Foxtail Palm

SYMBOL	COMMON NAME
SHRUBS	
	Small Leaf Clusia
	Existing Tree or Palm to Remain
F-101	Root Barrier



Hazen

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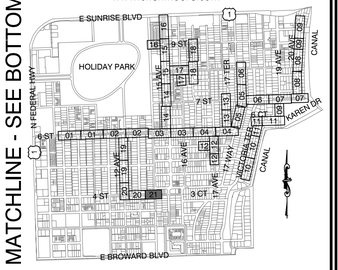

KEY MAP

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

0 20' 40'

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE
TREES							
	BS	6	Gumbo Limbo	Bursera simaruba	B & B	12` HT, 6` SPRD, 4" CAL	Yes
	CA	1	Autograph Tree	Clusia rosea	B & B	10` HT, 4` SPRD, 3" DBH	Yes
	CS	9	Silver Buttonwood	Conocarpus erectus f. sericeus	B & B	10` HT, 3` SPR, 2" DBH	Yes
	MC	13	Simpson's Stopper	Myrcianthes fragrans	B & B	8-10` HT, 4` SPR, 2" CAL	Yes
	QV	14	Southern Live Oak	Quercus virginiana	B & B	12` HT, 6` SPRD, 4" CAL	Yes

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE
PALM TREES							
	PE	2	Solitaire Palm	Ptychosperma elegans	B & B	8` CT	No
	RE	1	Florida Royal Palm	Roystonea elata	B & B	8` G.W.	Yes
	WR	3	Mexican Fan Palm	Washingtonia robusta	B & B	8` G.W.	No
	WB	1	Foxtail Palm	Wodyetia bifurcata	B & B	8` G.W.	No

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING
SHRUBS								
	CLU	108	Small Leaf Clusia	Clusia guttifera	B & B	2`-3` HT, FULL	Yes	24" o.c.

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE
SOD							
	SOD	46,183 sf	St. Augustine Grass	Stenotaphrum secundatum	Sod		

ISSUED FOR BID

LANDSCAPE ARCHITECT:
ERIC D. HARRISON
REG. No: 6667129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC
DESIGNED BY: JKC
CHECKED BY: EDH
DATE: 03/25/25
SCALE: AS SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-21
SHT # 229
TOTAL: 233
CAD FILE: 12082-MULTI-LAND
DRAWING FILE NO. 4-144-88

TREE CALIPER MITIGATION

	Code	Quantity	Common	Botanical	DBH SIZE AT INSTALLATION	TOTAL DBH REPLACEMENT
Trees	BS	6	Gumbo Limbo	Bursera simaruba	4	24
	CA	1	Autograph Tree	Clusia rosea	3	3
	CS	9	Silver Buttonwood	Conocarpus erectus f. sericeus	2	18
	MC	13	Simpsons Stopper	Myrcianthes fragrans	2	26
	QV	14	Southern Live Oak	Quercus virginiana	4	56
Palms	PE	2	Solitaire Palm	Ptychosperma elegans		
	RE	1	Florida Royal Palm	Roystonea elata		
	WR	3	Mexican Fan Palm	Washingtonia robusta		
	WB	1	Foxtail Palm	Wodyetia bifurcata		
				TOTAL DBH PROPOSED		**127**
				TOTAL DBH REMOVED		**244**
				NET DIFFERENCE		**-117**
				TOTAL PALMS PROPOSED		**12**
				TOTAL PALMS REMOVED		**23**
				NET DIFFERENCE		**-11**

NOTES

1. APPLICANT REQUEST TO PAY INTO TREE FUND DUE TO THE NATURE OF PROJECT AND REQUIRED UTILITY OFFSETS.

ROOT BARRIER SCHEDULE

CODE	DESCRIPTION	QTY
F-101	ROOT BARRIER	77 lf

NOTES

1. ALL TREES THAT CANNOT STAND ERECT WITHOUT SUPPORT WILL BE REJECTED. ALL TREES SHALL BE SUPPORTED PER INCLUDED DETAILS. NURSERY STAKES SHALL BE REMOVED FROM TREES PRIOR TO INSPECTION.

IRRIGATION RESTORATION NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING SITE FEATURES AND UTILITIES.
2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
4. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
7. CONTRACTOR SHALL MODIFY THE EXISTING IRRIGATION SYSTEM TO ACCOMMODATE THE PROPOSED DRAINAGE AND SITE IMPROVEMENTS, PROVIDING 100% HEAD-TO-HEAD COVERAGE WHILE MINIMIZING OVERSPRAY ONTO NON-PERVIOUS SURFACES.
9. THE NEW OR MODIFIED IRRIGATION ZONES SHALL BE DESIGNED TO MEET THE INTENT OF THE CITY OF FORT LAUDERDALE'S UNIFIED LAND DEVELOPMENT CODE.
10. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF IRRIGATION SYSTEM MODIFICATIONS TO THE LANDSCAPE ARCHITECT FOR DESIGN REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
11. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS.
17. CONTRACTOR TO PROVIDE PROTECTIVE MEASURES FOR ALL SITE FEATURES (CURBS, SIDEWALK, WAYFINDING, ASPHALT, ETC) WITHIN THE LIMITS OF CONSTRUCTION FOR THE DURATION OF THE PROJECT. ANY DAMAGE TO THESE ITEMS AS A RESULT OF THE CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR REPLACEMENT IN KIND.
18. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
19. ALL IRRIGATION PIPE LINES SHALL BE ROUTED TO MINIMIZE DAMAGE TO EXISTING TREE ROOTS.
20. IF NEW MAINLINE IS REQUIRED, INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
21. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE ITEMS, SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
22. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK.
23. CONTRACTOR TO REPLACE ALL TURF AND SHRUBS DAMAGED FROM THE REMOVAL OF EXISTING IRRIGATION SYSTEM AND THE INSTALLATION OF PROPOSED IRRIGATION SYSTEM.
24. AS-BUILT DRAWINGS: PROVIDE RECORD DRAWINGS AND PLANS SHOWING ALL CHANGES IN THE DESIGN TO INDICATE THE ACTUAL INSTALLATION AND LOCATION OF ALL EQUIPMENT AND MATERIALS.

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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954.730.0707
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DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

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101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE RESTORATION PLAN

SHEET NO. LA-22 | SHT # 230
TOTAL: 233
CAD FILE: 12082–MULTI–LAND
DRAWING FILE NO. 4–144–88

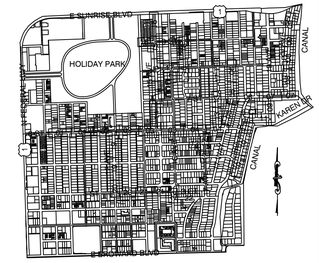
LANDSCAPE SPECIFICATIONS

1. GENERAL
   - 1.1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
     - 1.1.1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
     - 1.1.2. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS.
   - 1.2. SOURCE OF BASE INFORMATION IS PROVIDED BY CRAVEN THOMPSON & ASSOCIATES, INC. ON 07/25/2024 AND IS ASSUMED TO BE CORRECT. IF SITE DISCREPANCIES ARE PRESENT, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. IF CONTRACTOR CONTINUES WORK WITHOUT THE PROPER NOTIFICATION, CONTRACTOR DOES SO AT HIS OWN RISK.
   - 1.3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS DESCRIBED HEREIN.
   - 1.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT.
   - 1.5. CONTRACTOR SHALL VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
   - 1.6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
   - 1.7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. THE LOCATION OF EXISTING UTILITIES OR SITE FEATURES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
   - 1.8. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES.
   - 1.9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
   - 1.10. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.
   - 1.11. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
   - 1.12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
2. PRE-CONSTRUCTION RESPONSIBILITY
   - 2.1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE LANDSCAPE ARCHITECT, ANY OTHER PERTINENT PARTIES AND HIMSELF.
   - 2.2. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES ONSITE. LOCATION TO BE DETERMINED BY THE OWNER. JANITORIAL SERVICES SHALL BE PROVIDED BY CONTRACTOR THROUGHOUT THE DURATION OF PROJECT.
   - 2.3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
   - 2.4. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
   - 2.5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY TREES PROPOSED FOR RELOCATION. THIS SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF TREES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
   - 2.6. CONTRACTOR SHALL VERIFY LIMITS OF CONSTRUCTION AS NOTED ON THE PLANS. ANY WORK PERFORMED OUTSIDE OF THE AGREED UPON LIMITS OF CONSTRUCTION SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
3. SITE DEMOLITION
   - 3.1. ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLAN(S). REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
   - 3.2. ALL HARDSCAPE DESIGNATED FOR REMOVAL SHALL BE SAW CUT, LEAVING UNIFORM EDGES TO THE GREATEST EXTENT POSSIBLE. MATERIAL EDGES TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
   - 3.3. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS NOTED ON THE PLANS OR APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
   - 3.4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. SALVAGED MATERIALS SHALL BE HANDLED WITH CARE AND STORED ON-SITE OR AS DIRECTED BY OWNER. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY OWNER'S REPRESENTATIVE.
   - 3.5. REMOVE DEMOLISHED MATERIALS FROM SITE AND DISPOSE OF AS REQUIRED BY LOCAL, STATE OR FEDERAL LAWS.
   - 3.6. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, COASTAL DUNE SYSTEMS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
   - 3.7. ALL IRRIGATION IN DEMOLITION AREA TO BE CAPPED AND ADJUSTED AS NECESSARY TO ENSURE OVERALL SYSTEM IS NOT AFFECTED.
4. PLANTING SOIL
   - 4.1. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 4.2. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 6" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 4.3. MINIMUM TOPSOIL SHALL BE 2" FOR SODDED GRASS AREAS.
   - 4.4. PLANTING SOIL MIX SHALL BE A WEED FREE MIX AS FOLLOWS:
     - 4.4.1. DICOT TREES & SHRUBS: 50% SAND, 40% MUCK & 10% PEAT
     - 4.4.2. MONOCOT PALMS: 70% SAND & 30% MUCK
     - 4.4.3. TURF: 80% SAND, 10% PEAT & 10% MUCK
5. LANDSCAPE PLANTING
   - 5.1. THIS PLAN HAS BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES.
   - 5.2. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
   - 5.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
   - 5.4. ALL PLANT MATERIAL SHALL BE TRUE TO THE BOTANICAL NAME, GENUS, SPECIES AND/OR HYBRID DESIGNATION.
   - 5.5. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES (HEIGHT & SPREAD) AS SPECIFIED IN THE PLANT LIST. CONTAINER SIZE IS FOR REFERENCE PURPOSES ONLY. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE MINIMUM SIZES AT INSTALLATION, AS SPECIFIED IN THE PLANT LIST.
   - 5.6. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
   - 5.7. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
   - 5.8. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND/OR GOVERNING MUNICIPALITY.
   - 5.9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
   - 5.10. AFTER FINAL GRADE, LANDSCAPE AREAS ARE TO BE RAKED TO A DEPTH OF 6". ALL ROCK AND FOREIGN INORGANIC MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
   - 5.11. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT EXISTING TREES, DAMAGE UTILITIES OR OTHER IMPROVEMENTS.
   - 5.12. ALL PLANTING BEDS IN OPEN AREAS AND AROUND BUILDING FOUNDATIONS SHALL BE EXCAVATED TO A DEPTH OF TWENTY-FOUR INCHES (24") AND BACK FILLED WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 5.13. ALL PLANTING BEDS IN MEDIANS, HARDSCAPE AREAS OR AREAS ENCOMPASSED BY IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO A DEPTH OF THIRTY-SIX INCHES (36") OR UNTIL NATIVE SOILS ENCOUNTERED TO ENSURE DRAINAGE. BACK FILL WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 5.14. EXCAVATE PLANTING PITS TO A DEPTH SO THAT THE TRUNK FLARE AND FIRST ORDER LATERAL ROOT(S) WILL BE PLANTED AT FINISH GRADE OR SLIGHTLY HIGHER. ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST ORDER ROOTS.
   - 5.15. BURLAP, SYNTHETIC STRING, CORDS AND/OR LIFTING ROPES SHALL BE REMOVED FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED. THE TOP 1/3RD OF BURLAP MUST BE REMOVED FROM HE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE COMPLETELY REMOVED AND THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
   - 5.16. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED.
   - 5.17. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
   - 5.18. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
   - 5.19. ALL TREES SPECIFIED AS FIELD GROWN OR B&B TREES SHALL BE ROOT-PRUNED AT THE NURSERY A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
   - 5.20. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
   - 5.21. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
   - 5.22. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
   - 5.23. TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE 8' IN ALL PEDESTRIAN AREAS.
   - 5.24. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
   - 5.25. CONTRACTOR SHALL REMOVE ALL NURSERY STAKES, CONDUIT, FLAGGING AND NURSERY TAPE PRIOR TO STAKING.
   - 5.26. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT/WARRANTY PERIOD.
   - 5.27. TREES THAT CANNOT STAND WITHOUT THE SUPPORT OF STAKES AND/OR GUYS SHALL BE REJECTED.
6. TURF GRASSES
   - 6.1. ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. REFER TO PLANTING SCHEDULE FOR ESTIMATED QUANTITY AND SPECIES.
7. MULCH & FERTILIZER
   - 7.1. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF SHREDDED FLORI-MULCH, MELALEUCA OR EUCALYPTUS MULCH GRADE 'B' OR BETTER, UNLESS OTHERWISE SPECIFIED.
   - 7.2. INDIVIDUAL TREES PLANTED IN LAWN AREAS SHALL BE MULCHED WITH A MINIMUM 3' DIAMETER MULCH RING.
   - 7.3. MULCH SHALL NOT BE INSTALLED WITHIN 3" OF TREE TRUNKS.
   - 7.4. FERTILIZER MIX AS FOLLOWS:
     - 7.4.1. DICOT TREES & SHRUBS: NPK 18-4-2, SLOW RELEASE W/ MICRONUTRIENTS
     - 7.4.2. MONOCOT PALMS: NPK 8-2-12, SLOW RELEASE W/ MICRONUTRIENTS
     - 7.4.3. TURF: NPK 16-4-8, SLOW RELEASE W/ MICRONUTRIENTS
8. WATERING
   - 8.1. NO NEW IRRIGATION IS PROPOSED WITHIN THE PUBLIC RIGHT OF WAY OR ASSOCIATED WITH THIS PROJECT. REFER TO IRRIGATION RESTORATION NOTES ON SHEET LA-22.
   - 8.2. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE THE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND THE LANDSCAPE IS TURNED OVER TO THE OWNER.
9. PROJECT CLOSEOUT
   - 9.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
   - 9.2. THE CONTRACTOR SHALL RESTORE, REPLACE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK OF THE CONTRACTOR, HIS EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUB-CONTRACTORS. THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT OF THE EXISTING ADJACENT AREAS. THE RESTORATION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
   - 9.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.
   - 9.4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
   - 9.5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS INCLUDING PRODUCT/EQUIPMENT AS SPECIFIED OR REVISED DURING THE SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
10. GUARANTEE
    - 10.1. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION.
    - 10.2. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 90 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. REPLACEMENT MATERIAL SHALL BE REPLACED IN KIND AS IT RELATES TO SPECIES, QUANTITY AND SIZE.
    - 10.3. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 74 MPH AS DETERMINED BY THE NATIONAL HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

cma
chen moore and associates
500 West Cypress Creek Road,
Suite 600
Ft. Lauderdale, FL 33309
954.730.0707
www.chenmoore.com



KEY MAP

0 20' 40'

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

ISSUED FOR BID

ENGINEER: ERIC D. HARRISON
REG. No: 66671129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | CHECKED BY: EDH | DATE: 03/25/25 | SCALE: AS SHOWN | FIELD BOOK:

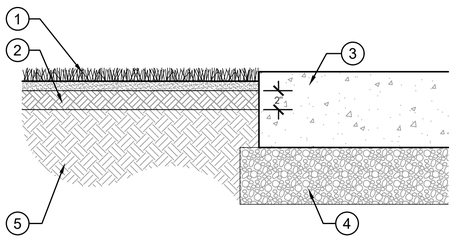
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

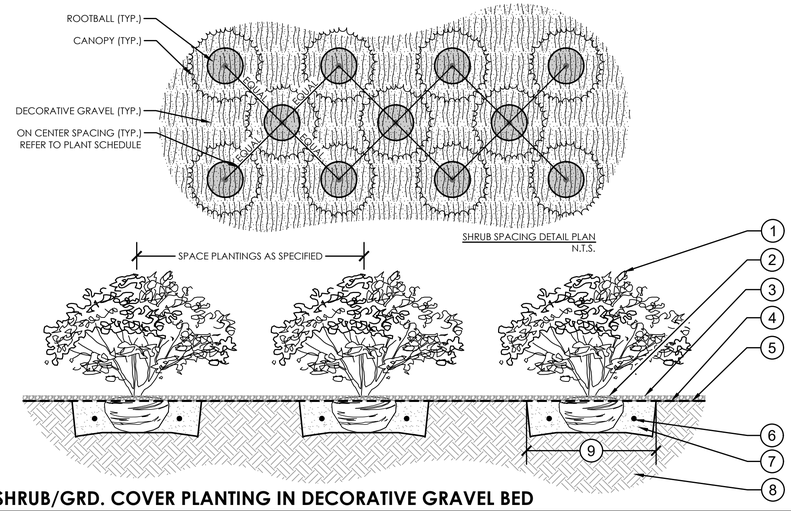
PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS
LANDSCAPE SPECIFICATIONS

SHEET NO. LA-23 | SHT # 231
TOTAL: 233
CAD FILE: 12082-MULTI-LAND-DETL
DRAWING FILE NO. 4-144-88



1. SOD (AS SPECIFIED)
2. PLANTING MIX: 80% SILICA SAND, 20% ORGANIC
3. SIDEWALK OR CURB
4. SUB-BASE
5. NATIVE SOIL

1 SOD PLANTING



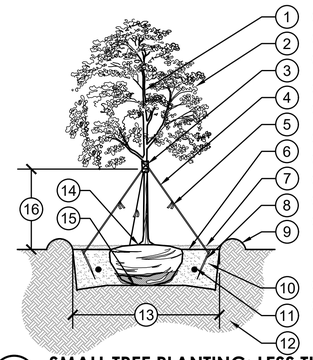
SHRUB SPACING DETAIL PLAN
N.T.S.

1. PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION: AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY.
2. SET CROWN OF ROOT SLIGHTLY ABOVE SURROUNDING FINISH GRADE; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
3. 3" LAYER OF SPECIFIED DECORATIVE GRAVEL. REFER TO PLAN SCHEDULE.
4. WEED BARRIER/LANDSCAPE FABRIC.
5. FINISH GRADE
6. FERTILIZER TABLET IF APPLICABLE.
7. BACKFILL WITH SPECIFIED SOIL MIX.
8. EXISTING SOIL.
9. 2X DIAMETER OF THE ROOTBALL.

2 SHRUB/GRD. COVER PLANTING IN DECORATIVE GRAVEL BED

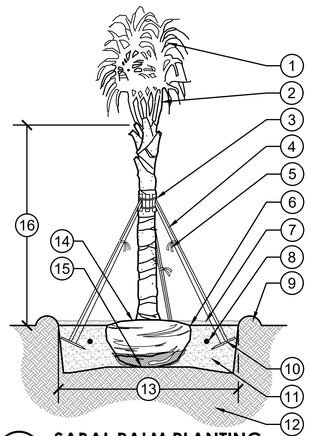
CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. FERTILIZER TABLET IF APPLICABLE
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

3 SMALL TREE PLANTING: LESS THAN 2" CALIPER

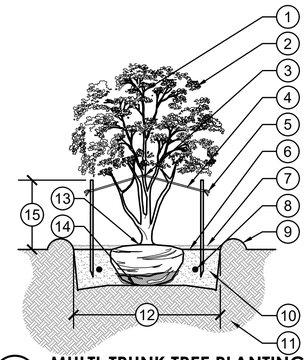


1. DO NOT HURRICANE CUT FRONDS
2. UNITE FRONDS PRIOR TO INSPECTION
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS. MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS; DO NOT NAIL STAKES DIRECTLY TO TRUNK
4. 2"X4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. BACKFILL WITH SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

4 SABAL PALM PLANTING

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. EXISTING SOIL
12. 2X DIAMETER OF THE ROOTBALL
13. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
14. SET ROOTBALL ON UNDISTURBED SOIL
15. CLEAR TRUNK: REFER TO PLANT SCHEDULE

5 MULTI-TRUNK TREE PLANTING

ISSUED FOR BID

Hazen
HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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ENGINEER: ERIC D. HARRISON
REG. No: 66671129
DATE:
TEL: 954.730.0707
FAX: 954.730.2030

DRAWN BY: JKC | DESIGNED BY: JKC | DATE: 03/25/25 | SCALE: AS SHOWN | CHECKED BY: EDH | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE DETAILS - SHEET 1

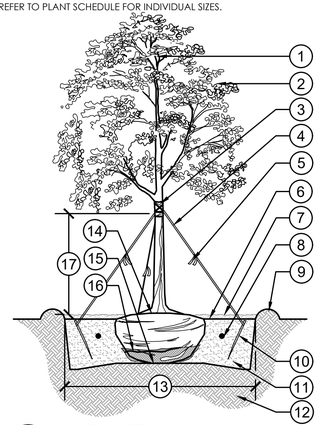
SHEET NO.	SHT #
LA-24	232
TOTAL:	233

CAD FILE: 12082-MULTI-LAND-DETL
DRAWING FILE NO. 4-144-88

CALIPER MEASUREMENTS NOTES:

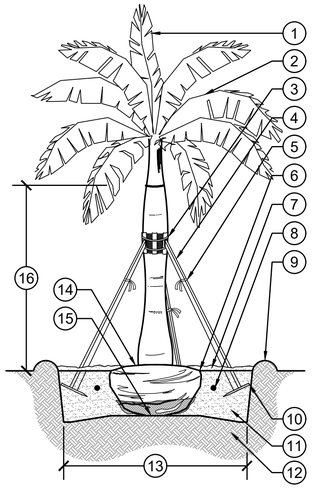
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



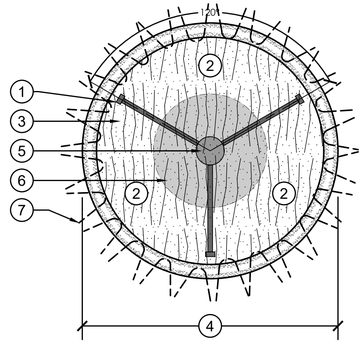
1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. FLUORESCENT MARKING FLAG
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL
17. CLEAR TRUNK: REFER TO PLANT SCHEDULE

6 LARGE TREE PLANTING: 2" CALIPER AND GREATER



1. TERMINAL BUD/FROND.
2. UNTIE FRONDS PRIOR TO INSPECTION.
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS. MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS. DO NOT NAIL STAKES DIRECTLY TO TRUNK.
4. 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE).
5. 1/2"x2" FLUORESCENT MARKER.
6. FINISH GRADE.
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK.
8. FERTILIZER TABLET IF APPLICABLE. REFER TO SPECIFICATIONS.
9. CONSTRUCT TEMPORARY 3" WATERING BASIN.
10. 2"X4"X8" STAKE. SET 2" BELOW FINISH GRADE.
11. BACKFILL WITH SPECIFIED SOIL MIX.
12. EXISTING SOIL.
13. 2x DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
15. SET ROOTBALL ON UNDISTURBED SOIL.
16. CLEAR TRUNK/GRAY WOOD. REFER TO PLANT SCHEDULE

7 LARGE PALM PLANTING DETAIL

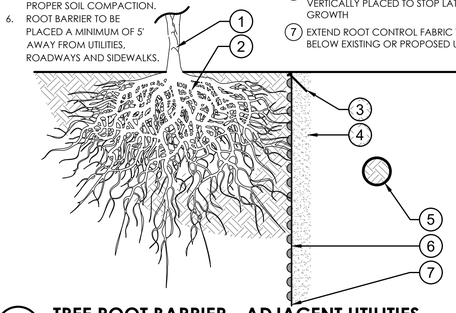


1. 2"X4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
2. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
3. CONSTRUCT TEMPORARY 3" WATERING BASIN
4. 2X DIAMETER OF THE ROOTBALL.
5. TREE TRUNK
6. ROOTBALL
7. TREE CANOPY

8 LARGE TREE STAKING DETAIL

INSTALLATION NOTES

1. CONTACT UTILITY COMPANY AND ENSURE UTILITY LINES ARE PROPERLY LOCATED PRIOR TO DIGGING OR TRENCHING.
2. FOR EXISTING TREES, CONSULT A PROFESSIONAL ARBORIST IF ROOT TRIMMING IS REQUIRED.
3. INSTALL & COVER BIOBARRIER WITHIN 12 HOURS AFTER OPENING. HIGH TEMPERATURES AND DIRECT SUNLIGHT CAN REDUCE EFFECTIVE PRODUCT LIFE.
4. INSTALL TYPAR BIOBARRIER ROOT CONTROL FABRIC WITH NODULES FACING TOWARD ROOT SOURCE.
5. BACKFILL AND TAMP FIRMLY TO ELIMINATE SOIL SETTLING. WET SOIL, IF NECESSARY, TO ENSURE PROPER SOIL COMPACTION.
6. ROOT BARRIER TO BE PLACED A MINIMUM OF 5' AWAY FROM UTILITIES, ROADWAYS AND SIDEWALKS.



1. PROPOSED OR EXISTING TREE
2. FUTURE OR EXISTING ROOT STRUCTURE
3. SECURE FABRIC EVERY 2'-0" WITHIN 1/4" OF TOP EDGE
4. EXCAVATE TRENCHES A MINIMUM OF 4' WIDE: TRENCHES MUST BE A MINIMUM LENGTH OF MATURE PLANT CANOPY PLUS 10 FEET, CENTERED ON THE ROOT SOURCE AND ADJACENT TO PROTECTION AREA
5. PROPOSED OR EXISTING UTILITIES
6. TYPAR BIOBARRIER ROOT CONTROL FABRIC VERTICALLY PLACED TO STOP LATERAL ROOT GROWTH
7. EXTEND ROOT CONTROL FABRIC TO A DEPTH BELOW EXISTING OR PROPOSED UTILITY LINES

9 TREE ROOT BARRIER - ADJACENT UTILITIES

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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ENGINEER: ERIC D. HARRISON
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DRAWN BY: JKC | DESIGNED BY: JKC | DATE: 03/25/25 | SCALE: AS SHOWN | CHECKED BY: EDH | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING
101 NE 3rd Avenue, Suite 2100, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ISSUED FOR BID

PROJECT # 12082
VICTORIA PARK STORMWATER IMPROVEMENTS

LANDSCAPE DETAILS - SHEET 2

SHEET NO. LA-25 | SHT # 233
TOTAL: 233
CAD FILE: 12082-MULTI-LAND-DETL
DRAWING FILE NO. 4-144-88

Line #	Unit of Measure	Amount	Details	Description
1	LS	1	All Work Associated with the Mobilization and Demobilization	The lump sum price for this item shall be full compensation for mobilization and demobilization activities. This includes, but is not limited to, Performance and Payment Guarantee and insurance, scheduling, project coordination, Contractor staging area, Contractor and Engineer Field Offices, labor associated with permit acquisition, temporary facilities, audio-visual documentation of the existing conditions (sidewalks, curbs, driveways, fences, vegetation, pavement markings, etc.), distribution of flyers to the affected residents and businesses, project signs, finish grading, site cleanup and site restoration, and all other activities necessary to prepare and complete the contract work. The payment for mobilization and demobilization should not exceed 7.5% of the sum of Bid Item Nos. 7 through 96. See Section Technical Specification - Section 01025 Measurements and Payments.
2	LS	1	All Work Associated with the Maintenance of Traffic	The lump sum price for this item shall be full compensation for all labor, equipment, material, and work required for maintenance of traffic in accordance with FDOT Standards and/or Broward County and/or the City of Fort Lauderdale. This item includes, but is not limited to, preparation and submittal of maintenance of traffic plans (MOTs), addressing comments regarding MOTs from agencies with jurisdiction, providing personnel as required to direct traffic (flaggers, crossing guards, local police, etc.), all temporary signage and striping, message boards, barricades, temporary barrier walls, drums, cones, providing signs, lights, installing temporary fencing and walkways as required to maintain pedestrian traffic, installing temporary steel plates for vehicular traffic and all other work incidental to the maintenance of traffic as required by FDOT Standards and/or Broward County and/or the requirements of the City of Fort Lauderdale and the Contract Documents. Payment for Maintenance of Traffic shall be made in equal monthly amounts during the duration of the Contract time.
3	LS	1	All Work Associated with the GIS Database Additions	The lump sum price for this bid item shall be full compensation for the preparation and addition of the proposed infrastructure data to the existing City GIS Database in accordance with the Contract Documents. This item includes, but is not limited to all necessary adjustments to the implemented data to create a seamless addition to the existing infrastructure. Payment for this item shall be made in full upon approval by the City of Fort Lauderdale for this work. No partial payments shall be made. This item includes all work not defined in other bid items for the Project.
4	LS	1	All Work Associated with the Record Drawings	The lump sum price for this bid item shall be full compensation for preparation, submittal, and approval of As-Built/Record Drawings, furnished in accordance with the Contract Documents. For all improvements, the CONTRACTOR shall conform to the City of Fort Lauderdale standards and requirements. See Section 01320 for a complete description.
5	LS	1	All Work Associated with the Prevention, Control, and Abatement of Erosion and Water Pollution	The lump sum price indicated for this bid item shall be full compensation for all labor, equipment, and material necessary for preparation, submittal, approval, and implementation of the NPDES Permit Application (Notice of Intent and Notice of Termination), reporting by a person holding a certification as an FDEP NPDES Construction Site Inspector, preparing a Stormwater Pollution Prevention Plan (SWPPP) and implementation of Best Management Practices (BMP) and environmental pollution protection throughout construction as outlined in the Contract Documents and required by the City. Payment for this item shall be made in equal monthly payments throughout the duration of the project.
6	LS	1	Provide Vibration Monitoring Inspection Consultant (VMC) and Noise Monitoring Consultant (NMC)	The lump sum price for this item shall be full compensation for all labor, equipment, and material for all work necessary and required for to retain the services of a Vibration Monitoring and Inspection Consultant (VMC) and a Noise Monitoring Consultant (NMC). This item includes, but is not limited to, all general, labor, and equipment required for vibration and noise inspection and monitoring services in accordance with the Contract Documents.
7	LS	1	Stormwater Pump Station	The lump sum price for this item shall be full compensation for all labor, equipment, and material for all work necessary for the construction of the Stormwater Pump Station as required in the Contract Documents. This item includes, but is not limited to, all general, civil, mechanical, structural, electrical, instrumentation and control, testing of all materials and equipment associated with the pump station construction, startup services, and sitework required for a complete and operable system. This item includes the furnishing and installation of all utility services and appurtenances associated to the pump station, including but not limited to potable water, sanitary sewer, yard drain, irrigation, electrical power, and telephone. This item includes the installation pump station outfall pipe, rip rap, embankment stabilization, and other scouring prevention features to protect the canal bed from pump station discharge erosion where required by regulatory agencies and shown on the Contract Drawings.

FOR INFORMATIONAL PURPOSES ONLY

Line #	Unit of Measure	Amount	Details	Description
8	LF	48	Cantilever Steel Sheet Pile Wall with Concrete Cap	The unit price for this item is the payment, on a linear foot basis, for all materials, labor, equipment, and work necessary and required for the complete installation of a cantilevered steel sheet pile wall with concrete cap. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, surface preparation and application of coating to steel sheet pile wall, installation of cantilevered steel sheet pile wall, concrete cap, termination details at ends, all required temporary bracing, shoring, sheeting, demolition, removal and disposal of existing seawall in accordance with the Contract Documents. This item also includes all noise, vibration, and settlement mitigation measures required in accordance with the Contract Documents.
9	LS	1	Outfall Drainage Pipe Penetration Through Proposed Seawall	The lump sum price indicated for this bid item shall be full compensation for all labor, equipment, material, and work necessary and required for constructing the 42-inch storm drain outfall penetration through the proposed seawall. This item includes, but is not limited to, excavation (including rock), removal of existing wall as required, penetration through proposed wall, installing concrete face, and all other appurtenant work as shown in the Contract Documents associated with the pipe penetration. This item also includes restoring the mudline at the pipe outfall where disturbed from the concrete face construction.
10	CY	180	Furnish and Install FDOT #57 Stone	The unit price for this item is the payment, on a cubic yard basis, for all labor, equipment, material and work required for furnishing and installing FDOT #57 stone as required for a complete installation of the proposed seawall. This item includes the furnishing and placement of FDOT #57 stone between the proposed seawall and the existing seawall as shown in the Contract Documents. This item excludes all FDOT #57 stone used for any other purpose.
11	EA	86	Remove and Dispose of Existing Storm Drainage Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to remove and dispose of existing drainage structures at all depths. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, removal and disposal of existing drainage structure, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, all testing, including post-construction testing, and all associated restoration work.
12	LF	4800	Remove and Dispose of Existing Storm Drainage Pipe and Exfiltration Trench	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to remove and dispose of existing storm drainage pipes and exfiltration trenches at all depths. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, removal and disposal of existing pipe, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, all testing, including post-construction testing, and all associated restoration work.
13	LF	317	Grout, Cap, and Abandon Existing Storm Drainage Pipe	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to grout, cut, cap, and abandon existing storm drain pipes and all depths. This item includes but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, cutting, plugging, grouting, and abandoning of existing pipe, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, all testing, including post-construction testing, and all associated restoration work.

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Line #	Unit of Measure	Amount	Details	Description
14	EA	6	Grout, Cap, and Abandon Existing Storm Drainage Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to grout, cap, and abandon of existing drainage structures at all depths. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, cutting, plugging, grouting, and abandoning of existing drainage structure, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, all testing, including post-construction testing, and all associated restoration work.
15	EA	74	Furnish and Install FDOT "Type C" Ditch Bottom Inlet	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install “Type C” ditch bottom inlets at all depths, all in accordance with the Contract Documents.. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, construction and installation of the reinforced concrete ”Type C” Ditch Bottom Inlet, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.
16	EA	23	Furnish and Install FDOT "Type 9" Curb Inlet	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install “Type 9” Curb Inlets at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, construction and installation of the reinforced concrete ”Type 9” Curb Inlet, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.
17	EA	110	Furnish and Install 4' Diameter Catch Basin	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install catch basins at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete catch basins, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.
18	EA	7	Furnish and Install 5' Diameter Catch Basin	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install catch basins at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete catch basins, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.

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Line #	Unit of Measure	Amount	Details	Description
19	EA	141	Furnish and Install 4' Diameter Manhole	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manholes, conflict manholes, at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete manholes, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, corbel tops, mud work, filter fabric, frames, grates, rims, covers, rain guards, all appurtenant items, and associated restoration work.
20	EA	2	Furnish and Install 5'x5' Manhole	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manholes, conflict manholes, at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete manholes, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, corbel tops, mud work, filter fabric, frames, grates, rims, covers, rain guards, all appurtenant items, and associated restoration work.
21	EA	2	Furnish and Install 6' Diameter Manhole	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manholes, conflict manholes, at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete manholes, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, corbel tops, mud work, filter fabric, frames, grates, rims, covers, rain guards, all appurtenant items, and associated restoration work.
22	EA	2	Furnish and Install 4' Diameter Conflict Manhole	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manholes, conflict manholes, at all depths, all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete manholes, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, corbel tops, mud work, filter fabric, frames, grates, rims, covers, rain guards, all appurtenant items, and associated restoration work.
23	EA	10	Furnish and Install Outfall Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install outfall structures all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of outfall structure, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.

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Line #	Unit of Measure	Amount	Details	Description
24	EA	5	Furnish and Install Weir Control Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install weir control structures all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, temporary bracing of existing adjacent structures, construction and installation of the reinforced concrete control structure including the concrete weir, plugged openings (bricks and expanding grout as approved by Engineer), backfill and compaction, base pad, mud work, filter fabric, frames, grates, rims, covers, sealing pipe inlets and outlet, concrete top slabs, all appurtenant items, and associated restoration work.
25	EA	145	Furnish and Install Concrete Collar for Catch Basin	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install concrete collars for catch basins all in accordance with the Contract Documents. This item includes, but is not limited to, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, removal and disposal of all materials (including unsuitable), removing and disposal of plants, bushes, shrubs, roots, installing temporary bypass pumping and/or providing flow diversion, temporary bracing of existing adjacent structures, compaction, stabilization of subgrade, formwork, furnishing and setting expansion joint material, concrete, backfilling, disposal of excess material, all appurtenant items and associated restoration work.
26	LF	5100	Furnish and Install Drainage Pipe 15" RCP or HP-PP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install reinforced concrete pipe or corrugated polypropylene drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.
27	LF	15500	Furnish and Install Drainage Pipe 18" RCP or HP-PP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install reinforced concrete pipe or corrugated polypropylene drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.

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Line #	Unit of Measure	Amount	Details	Description
28	LF	2200	Furnish and Install Drainage Pipe 24" RCP or HP-PP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install reinforced concrete pipe or corrugated polypropylene drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.
29	LF	1200	Furnish and Install Drainage Pipe 36" RCP or HP-PP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install reinforced concrete pipe or corrugated polypropylene drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.
30	LF	180	Furnish and Install Drainage Pipe 42" RCP or HP-PP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install reinforced concrete pipe or corrugated polypropylene drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.
31	LF	650	Furnish and Install Drainage Pipe 15"x24" Elliptical RCP	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install elliptical reinforced concrete pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.

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Line #	Unit of Measure	Amount	Details	Description
32	LF	19000	Furnish and Install Exfiltration Trench 18" RCP Perforated Drainage Pipe	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store, and install exfiltration trench including slotted drainage pipe all in accordance with the Contract Documents. The item includes, but it is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, perforated drainage pipe, ballast rock, filter fabric, joint material, bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement for payment shall be the linear feet of pipe installed along the horizontal centerline of the pipe in place, not including through structures, all in accordance with the requirements of the Contract Documents. The unit price shall apply to all installations depths as required by the drawings, with no additional compensation for variations in depths.
33	EA	92	Furnish and Install Pollution Retardant Baffles	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install pollution retardant baffles all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, angle brackets, seals, gaskets, pollution retardant baffles, grout, and any other items required for a complete and satisfactory installation.
34	EA	5	Furnish and Install 10"-12" Manatee Grate	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manatee grates all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, grout, grates, and any other items required for a complete and satisfactory installation.
35	EA	5	Furnish and Install 15"-18" Manatee Grate	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manatee grates all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, grout, grates, and any other items required for a complete and satisfactory installation.
36	EA	2	Furnish and Install 42"-48" Manatee Grate	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install manatee grates all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, grout, grates, and any other items required for a complete and satisfactory installation.
37	EA	25	Connect Existing Pipe to Proposed Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to connect an existing pipe to a proposed structure all in accordance with the Contract Documents. This line item includes up to two existing pipe connections to a new structure. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, removal and disposal of portions of the existing piping, grouting, construction of the connection, temporary bracing of existing structures, mud work, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work.
38	EA	25	Connect Proposed Pipe to an Existing Structure	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to core drill an existing structure and connect a proposed pipe all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, cleaning and desilting and sealing the existing structure, core drilling or removing the existing knockout plug where applicable, grouting, construction of the connection, temporary bracing of existing structures, mud work, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. This items includes new connections to existing structures where no prior openings exist, and replacement or upsizing of existing connections to existing structures.

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Line #	Unit of Measure	Amount	Details	Description
39	EA	25	Connect Proposed Pipe to Existing Pipe	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to connect a proposed pipe to an existing pipe all in accordance with the Contract Documents. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, construction of the connection, including connections between dissimilar piping materials, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work.
40	LF	1170	Line Existing Storm Pipe with C.I.P.P (10" to 24" Pipe)	This work will be performed, if necessary, as determined by the CCTV inspection report. This work will be measured and paid for at the unit price per linear foot of liner as delineated by the pipe size and depth brackets named in the Bid Schedule. Measurement shall be made based on the horizontal projection of the centerline of the permanently installed liner between drainage structures, measured to the nearest foot from the inside wall of structure to the inside wall of structure for each section lined. Each unit price bid shall include, but not limited to, all necessary or required resident and business notifications, preparation of the existing outfall, including blocking or plugging incoming lines; installation of access/lining manhole, removal, transportation and disposal of material generated by preparation; post-lining television surveys; chemical joint sealing if necessary; pipe lining; the cost of obtaining a water meter; cleaning; sample collection; material testing, grouting to eliminate infiltration at liner ends; cleanup; documentation and reporting; and all labor, materials and equipment required to provide a complete an acceptable liner installation.
41	LF	525	Line Existing Storm Pipe with C.I.P.P (48" Pipe)	This work will be performed, if necessary, as determined by the CCTV inspection report. This work will be measured and paid for at the unit price per linear foot of liner as delineated by the pipe size and depth brackets named in the Bid Schedule. Measurement shall be made based on the horizontal projection of the centerline of the permanently installed liner between drainage structures, measured to the nearest foot from the inside wall of structure to the inside wall of structure for each section lined. Each unit price bid shall include, but not limited to, all necessary or required resident and business notifications, preparation of the existing outfall, including blocking or plugging incoming lines; installation of access/lining manhole, removal, transportation and disposal of material generated by preparation; post-lining television surveys; chemical joint sealing if necessary; pipe lining; the cost of obtaining a water meter; cleaning; sample collection; material testing, grouting to eliminate infiltration at liner ends; cleanup; documentation and reporting; and all labor, materials and equipment required to provide a complete an acceptable liner installation.
42	EA	5	Furnish and Install Inline Check Valve (10"-12" Pipe)	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install inline check valves all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, rings, seals, gaskets, valves, grout, testing, and any other items required for a complete and satisfactory installation.
43	EA	3	Furnish and Install Inline Check Valve (15" Pipe)	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install inline check valves all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, rings, seals, gaskets, valves, grout, testing, and any other items required for a complete and satisfactory installation.
44	EA	2	Furnish and Install Inline Check Valve (18" Pipe)	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install inline check valves all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, rings, seals, gaskets, valves, grout, testing, and any other items required for a complete and satisfactory installation.
45	EA	1	Furnish and Install Inline Check Valve (48" Pipe)	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and materials required to furnish and install inline check valves all in accordance with the Contract Documents. This item includes, but is not limited to, furnishing and installing anchor bolts, rings, seals, gaskets, valves, grout, testing, and any other items required for a complete and satisfactory installation.

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Line #	Unit of Measure	Amount	Details	Description
46	LF	950	Heavy Desilt/Water Jetting and CCTV of Existing Outfall Drainage Pipe (10”-18” Diameter)	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and materials required to clean and televise the existing stormwater pipe within the project limits. This item includes, but is not limited to, initial field investigation to identify site conditions or access issues requiring special arrangements and/or City notification/coordination; system dewatering using plugs and hoses as needed along with necessary maintenance of traffic and safety precautions where the hoses cross streets or driveways; cleaning to remove foreign material from the sewer lines for clear viewing of the interior surface of the pipe during video inspection and to restore the sewer to near original carrying capacity; video documentation of the location and extent of displaced joints, cracks or breaks in pipe, and other defects that may permit groundwater infiltration and/or ingress of soil from around the exterior of pipe; and, submittal of video in digital format to the City. Payment shall be made at the unit price at the conclusion of cleaning/televising and after video is reviewed and accepted by the City. Measurement for payment for cleaning/televising of drainage pipe will be based upon the number of linear feet of such pipe as determined by measurement along the centerline of the pipe in place, not including through structures. The Contractor shall notify and provide documentation acceptable to the City if contaminated materials are suspected within the pipe.
47	EA	20	Heavy Desilt/Water Jetting and CCTV of Existing Drainage Structure	The unit price for this item shall be full compensation on a per each structure basis for all labor, equipment, and materials required to clean and televise existing stormwater structures within the project limits. This items includes, but is not limited to, initial field investigation to identify site conditions or access issues requiring special arrangements and/or City notification/coordination; system dewatering using plugs and hoses as needed along with necessary maintenance of traffic and safety precautions where the hoses cross streets or driveways; cleaning to remove foreign material from the structures for clear viewing of the interior surface of the structures during video inspection and to restore the sewer to near original carrying capacity; video documentation of the location and extent of displaced joints, cracks or breaks structures, and other defects that may permit groundwater infiltration and/or ingress of soil from around the exterior of structures; and, submittal of video in digital format to the City. Payment shall be made at the unit price at the conclusion of cleaning/televising and after video is reviewed and accepted by the City. The Contractor shall notify and provide documentation acceptable to the City in the event that contaminated materials are suspected within the structure.
48	LF	300	Heavy Desilt/Water Jetting and CCTV of Existing Drainage Pipe (10" - 18" Diameter)	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and materials required to clean and televise the existing stormwater pipe within the project limits. This item includes, but is not limited to, initial field investigation to identify site conditions or access issues requiring special arrangements and/or City notification/coordination; system dewatering using plugs and hoses as needed along with necessary maintenance of traffic and safety precautions where the hoses cross streets or driveways; cleaning to remove foreign material from the sewer lines for clear viewing of the interior surface of the pipe during video inspection and to restore the sewer to near original carrying capacity; video documentation of the location and extent of displaced joints, cracks or breaks in pipe, and other defects that may permit groundwater infiltration and/or ingress of soil from around the exterior of pipe; and, submittal of video in digital format to the City. Payment shall be made at the unit price at the conclusion of cleaning/televising and after video is reviewed and accepted by the City. Measurement for payment for cleaning/televising of drainage pipe will be based upon the number of linear feet of such pipe as determined by measurement along the centerline of the pipe in place, not including through structures. The Contractor shall notify and provide documentation acceptable to the City in the event that contaminated materials are suspected within the pipe.
49	LF	2400	Heavy Desilt/Water Jetting and CCTV of Existing Drainage Pipe (24" Diameter and Larger)	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and materials required to clean and televise the existing stormwater pipe within the project limits. This item includes, but is not limited to, initial field investigation to identify site conditions or access issues requiring special arrangements and/or City notification/coordination; system dewatering using plugs and hoses as needed along with necessary maintenance of traffic and safety precautions where the hoses cross streets or driveways; cleaning to remove foreign material from the sewer lines for clear viewing of the interior surface of the pipe during video inspection and to restore the sewer to near original carrying capacity; video documentation of the location and extent of displaced joints, cracks or breaks in pipe, and other defects that may permit groundwater infiltration and/or ingress of soil from around the exterior of pipe; and, submittal of video in digital format to the City. Payment shall be made at the unit price at the conclusion of cleaning/televising and after video is reviewed and accepted by the City. Measurement for payment for cleaning/televising of drainage pipe will be based upon the number of linear feet of such pipe as determined by measurement along the centerline of the pipe in place, not including through structures. The Contractor shall notify and provide documentation acceptable to the City in the event that contaminated materials are suspected within the pipe.

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Line #	Unit of Measure	Amount	Details	Description
50	LF	100	Offset Existing Water Main (2") with Necessary Fittings	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store and install DIP (cement lined), HDPE, and or PVC, potable water main with the necessary fittings as indicated on the drawings or otherwise directed by the CITY or ENGINEER and described herein for which payment is not provided under other bid items. This item includes the cost of furnishing and installation of pipe, fittings, and restraints. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, installing the new pipe along with all restrained joints, tracer wire installation, joint material, and pipe bedding material, backfilling and compacting fill material, placing structural asphalt, temporary pavement markings and striping, pipe flushing, pipe pigging, main disinfection, testing, and surveying and removing and disposing of existing potable water main, wastewater mains, as well as other miscellaneous pipe. This item shall include cost of connecting to existing main, post restraining existing main as needed per City requirements, coordination and shut down of existing water mains, cutting, removal, and disposal of existing piping, and construction of the connection including all required pipe accessories not included in other bid items. Measurement for payment shall be the linear feet of pipe actually installed as determined by measurement along the horizontal centerline of the pipe in place, through all fittings and valves, in accordance with the requirements of the Contract Documents.
51	LF	100	Offset Existing Water Main (4") with Necessary Fittings	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store and install DIP (cement lined), HDPE, and or PVC, potable water main with the necessary fittings as indicated on the drawings or otherwise directed by the CITY or ENGINEER and described herein for which payment is not provided under other bid items. This item includes the cost of furnishing and installation of pipe, fittings, and restraints. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, installing the new pipe along with all restrained joints, tracer wire installation, joint material, and pipe bedding material, backfilling and compacting fill material, placing structural asphalt, temporary pavement markings and striping, pipe flushing, pipe pigging, main disinfection, testing, and surveying and removing and disposing of existing potable water main, wastewater mains, as well as other miscellaneous pipe. This item shall include cost of connecting to existing main, post restraining existing main as needed per City requirements, coordination and shut down of existing water mains, cutting, removal, and disposal of existing piping, and construction of the connection including all required pipe accessories not included in other bid items. Measurement for payment shall be the linear feet of pipe actually installed as determined by measurement along the horizontal centerline of the pipe in place, through all fittings and valves, in accordance with the requirements of the Contract Documents.
52	LF	500	Offset Existing Water Main (6") with Necessary Fittings	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store and install DIP (cement lined), HDPE, and or PVC, potable water main with the necessary fittings as indicated on the drawings or otherwise directed by the CITY or ENGINEER and described herein for which payment is not provided under other bid items. This item includes the cost of furnishing and installation of pipe, fittings, and restraints. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, installing the new pipe along with all restrained joints, tracer wire installation, joint material, and pipe bedding material, backfilling and compacting fill material, placing structural asphalt, temporary pavement markings and striping, pipe flushing, pipe pigging, main disinfection, testing, and surveying and removing and disposing of existing potable water main, wastewater mains, as well as other miscellaneous pipe. This item shall include cost of connecting to existing main, post restraining existing main as needed per City requirements, coordination and shut down of existing water mains, cutting, removal, and disposal of existing piping, and construction of the connection including all required pipe accessories not included in other bid items. Measurement for payment shall be the linear feet of pipe actually installed as determined by measurement along the horizontal centerline of the pipe in place, through all fittings and valves, in accordance with the requirements of the Contract Documents.

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Line #	Unit of Measure	Amount	Details	Description
53	LF	200	Offset Existing Water Main (8") with Necessary Fittings	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to furnish, transport, store and install DIP (cement lined), HDPE, and or PVC, potable water main with the necessary fittings as indicated on the drawings or otherwise directed by the CITY or ENGINEER and described herein for which payment is not provided under other bid items. This item includes the cost of furnishing and installation of pipe, fittings, and restraints. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, installing the new pipe along with all restrained joints, tracer wire installation, joint material, and pipe bedding material, backfilling and compacting fill material, placing structural asphalt, temporary pavement markings and striping, pipe flushing, pipe pigging, main disinfection, testing, and surveying and removing and disposing of existing potable water main, wastewater mains, as well as other miscellaneous pipe. This item shall include cost of connecting to existing main, post restraining existing main as needed per City requirements, coordination and shut down of existing water mains, cutting, removal, and disposal of existing piping, and construction of the connection including all required pipe accessories not included in other bid items. Measurement for payment shall be the linear feet of pipe actually installed as determined by measurement along the horizontal centerline of the pipe in place, through all fittings and valves, in accordance with the requirements of the Contract Documents.
54	LF	600	Restrain Existing Water Main	The unit price for this item shall be full compensation on a per linear foot basis for all labor, equipment, and material required to excavate and restrain the existing water main piping as shown on the drawings, along with restoration as described herein for which payment is not provided under other bid items. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion, installing new pipe restraints, joint material, pipe bedding, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. Measurement and payment shall be the linear feet of pipe actually restrained as determined by measurement along the horizontal centerline of the existing pipe in accordance with the requirements of the Contract Documents.
55	EA	5	Furnish and Install Gate Valve 2"	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to furnish, transport, store and install the restrained joint gate valves shown on the drawings. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, coordination and shut down of existing mains, cutting removal and disposal of existing piping, furnishing and installing valve boxes, valve box extensions, operating nut extensions, restraining devices, concrete collars, and any other items required for a complete and satisfactory installation. This item does NOT include installation of gate valves already paid for under other bid items.
56	EA	5	Furnish and Install Gate Valve 4"	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to furnish, transport, store and install the restrained joint gate valves shown on the drawings. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, coordination and shut down of existing mains, cutting removal and disposal of existing piping, furnishing and installing valve boxes, valve box extensions, operating nut extensions, restraining devices, concrete collars, and any other items required for a complete and satisfactory installation. This item does NOT include installation of gate valves already paid for under other bid items.

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Line #	Unit of Measure	Amount	Details	Description
57	EA	10	Furnish and Install Gate Valve 6"	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to furnish, transport, store and install the restrained joint gate valves shown on the drawings. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, coordination and shut down of existing mains, cutting removal and disposal of existing piping, furnishing and installing valve boxes, valve box extensions, operating nut extensions, restraining devices, concrete collars, and any other items required for a complete and satisfactory installation. This item does NOT include installation of gate valves already paid for under other bid items.
58	EA	5	Furnish and Install Gate Valve 8"	The unit price for this item shall be full compensation on a per each basis for all labor, equipment, and material required to furnish, transport, store and install the restrained joint gate valves shown on the drawings. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, coordination and shut down of existing mains, cutting removal and disposal of existing piping, furnishing and installing valve boxes, valve box extensions, operating nut extensions, restraining devices, concrete collars, and any other items required for a complete and satisfactory installation. This item does NOT include installation of gate valves already paid for under other bid items.
59	EA	4	Furnish and Install Temporary Line Stop (2")	The unit price for this item shall be per unit basis for all labor and equipment required for temporary line stop type valves used for isolating sections of existing water mains and sewer mains, including tapping, saddles, fittings, supporting existing utilities and pressure testing. Line Stops included in this item must have the capability to bypass the flow with connection pipe between each other. Material to connect and operate the bypass from one Line Stop to another is included in this item.
60	EA	4	Furnish and Install Temporary Line Stop (4")	The unit price for this item shall be per unit basis for all labor and equipment required for temporary line stop type valves used for isolating sections of existing water mains and sewer mains, including tapping, saddles, fittings, supporting existing utilities and pressure testing. Line Stops included in this item must have the capability to bypass the flow with connection pipe between each other. Material to connect and operate the bypass from one Line Stop to another is included in this item.
61	EA	25	Furnish and Install Temporary Line Stop (6")	The unit price for this item shall be per unit basis for all labor and equipment required for temporary line stop type valves used for isolating sections of existing water mains and sewer mains, including tapping, saddles, fittings, supporting existing utilities and pressure testing. Line Stops included in this item must have the capability to bypass the flow with connection pipe between each other. Material to connect and operate the bypass from one Line Stop to another is included in this item.
62	EA	12	Furnish and Install Temporary Line Stop (8")	The unit price for this item shall be per unit basis for all labor and equipment required for temporary line stop type valves used for isolating sections of existing water mains and sewer mains, including tapping, saddles, fittings, supporting existing utilities and pressure testing. Line Stops included in this item must have the capability to bypass the flow with connection pipe between each other. Material to connect and operate the bypass from one Line Stop to another is included in this item.
63	EA	200	Replace Existing Water Services (Single and/or Double)	The unit price for this item shall be full compensation for all labor, equipment, and materials to replace an existing water service connection (single services and double services) to be paid on a per unit basis. This item includes, but is not limited to, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, reconnection to water main, new water meter box, tapping saddle and valve, corporation stop, service tubing, casing (for long side services), repair clamps, splicing, plugs, plugging existing corporation at main, pipe preparation; removal and disposing of existing water services, as well as other miscellaneous pipe materials; backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. This item will be used for existing water services that must be relocated in order to facilitate the proposed stormwater improvements or existing water services that fail due to no fault of the Contractor. It will be the Contractor's responsibility to replace, at no additional cost to the City, existing water services damaged or broken due to lack of reasonable care during construction of the proposed improvements. Payment for this item will be made only as directed by the Engineer.

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Line #	Unit of Measure	Amount	Details	Description
64	EA	200	Replace Existing Sewer Laterals (Single and/or Double)	The unit price for this item shall be full compensation for all labor, equipment, and materials to replace an existing sanitary sewer lateral (single service and double services) to be paid on a per unit basis. This item includes, but is not limited to, maintenance of existing service, locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion or provisions to avoid service interruption, backfill, and compaction, removal and disposal of existing pipe and fittings; installation of piping, fittings, reconnection to main and house service; backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, and all associated restoration work. This item will be used for replacement of existing sanitary sewer laterals that are in conflict with proposed storm drain installation or existing sanitary sewer laterals that fail due to no fault of the Contractor. It will be the Contractor's responsibility to replace, at no additional cost to the City, existing sanitary sewer laterals damaged or broken due to lack of reasonable care during construction of the proposed improvements. Payment for this item will be made only as directed by the Engineer.
65	EA	10	Remove and Replace Fire Hydrant Assembly	Measurement for payment to furnish and install fire hydrant assembly will be based upon actual quantity, each, of such named fire hydrants furnished and installed including the removal and disposal of the existing hydrant (up to the existing operating valve that is to be closed and abandoned), as indicated on the drawings or otherwise directed by the CITY or ENGINEER, all in accordance with the requirements of the Contract Documents. Location of new hydrant may differ from the removed hydrant. Payment for furnishing and installing fire hydrant assembly will be made at the unit price each, named in the Bid Schedule, as shown on the drawings and as described herein for which payment is not provided under other bid items and which price shall constitute full compensation for the fire hydrant assembly installation including but not limited to locating, verifying, and protecting existing utilities, saw cutting, removing, and disposing existing paving, curbs, gutters, and sidewalks, excavating (including rock), dewatering, installing temporary sheeting and shoring, removing and disposing of all materials (including unsuitable), removing and disposing of plants, bushes, shrubs, roots, installing temporary bypass and/or providing flow diversion; coordination and shut down of existing water mains; cutting, removal, and disposal of existing piping; installation of fire hydrant, valve, valve box, valve box extensions, operating nut extensions, concrete pad, restraining devices, risers, bends, backfilling and compacting fill material, furnish, placing, and compacting base material, applying tack coat, applying all structural asphalt courses to match existing grade, providing temporary pavement markings and striping, pipe flushing, all testing, including post-construction testing, appurtenance items, all associated restoration work, and any other items required for a complete and satisfactory installation.
66	SY	95000	Mill Existing Asphalt (Up to 2-inch in Depth) and Resurface Asphalt (Minimum 1-inch SP 9.5)	Measurement for payment for milling existing asphalt and resurfacing will be based upon the number of square yards of such materials actually milled and resurfaced in accordance with the requirements of the Contract Documents. Payment for milling and resurfacing existing asphalt will be made at the unit price per square yard up to 2-inch depth, which price shall constitute full compensation for milling, hauling off and disposing of the milled material, resurfacing, and for any other appurtenant items needed for milling and resurfacing asphalt for which separate payment is not specifically included in the Bid Schedule. Payment shall include milling up to 2-inches of depth and a minimum of 1-inch thick Superpave Asphalt (SP-9.5).
67	EA	5	Furnish and Install Speed Hump	Measurement for furnishing and installing speed humps will be based upon the actual number, each, of speed humps installed all in accordance with the requirements of the Contract Documents. Payment for furnishing and installing speed humps will be made at the unit price, each, named in the Bid Schedule, which price shall constitute full compensation for the completed installation of the speed humps including but not limited to all required materials, placement of asphalt and/or concrete and/or pavers to required height and curbing.
68	SY	670	Restoration of Driveways/Parking Areas (Asphalt)	Measurement for payment for restoration of driveways/parking areas will be based upon the actual number of square yards of such driveways/parking areas restored as shown in the Drawings, all in accordance with the requirements of the Contract Documents. Payment for restoration of driveways/parking areas will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including but not limited to all limerock, earthwork, compacting, subgrade, reconstruction of the driveway/parking area to the same depth and material as the existing one, furnishing and setting for expansion joint material, disposal of excess material, and the appurtenant items, such as mailboxes, for which separate payment is not specifically included in the Bid Schedule. No payment will be made for restoration of driveways outside the limits shown on the drawings or not approved in writing by the Engineer.

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Line #	Unit of Measure	Amount	Details	Description
69	SY	100	Restoration of Driveways (Concrete, Stamped Concrete, or Textured Concrete)	Measurement for payment for restoration of driveways/parking areas will be based upon the actual number of square yards of such driveways/parking areas restored as shown in the Drawings, all in accordance with the requirements of the Contract Documents. Payment for restoration of driveways/parking areas will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including but not limited to all limerock, earthwork, compacting, subgrade, reconstruction of the driveway/parking area to the same depth and material as the existing one, furnishing and setting for expansion joint material, disposal of excess material, and the appurtenant items, such as mailboxes, for which separate payment is not specifically included in the Bid Schedule. No payment will be made for restoration of driveways outside the limits shown on the drawings or not approved in writing by the Engineer.
70	SY	1000	Restoration of Driveways (Pavers or Brick)	Measurement for payment for restoration of driveways/parking areas will be based upon the actual number of square yards of such driveways/parking areas restored as shown in the Drawings, all in accordance with the requirements of the Contract Documents. Payment for restoration of driveways/parking areas will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including but not limited to all limerock, earthwork, compacting, subgrade, reconstruction of the driveway/parking area to the same depth and material as the existing one, furnishing and setting for expansion joint material, disposal of excess material, and the appurtenant items, such as mailboxes, for which separate payment is not specifically included in the Bid Schedule. No payment will be made for restoration of driveways outside the limits shown on the drawings or not approved in writing by the Engineer.
71	SY	3300	Restoration of Driveways/Parking Areas (Gravel)	Measurement for payment for restoration of driveways/parking areas will be based upon the actual number of square yards of such driveways/parking areas restored as shown in the Drawings, all in accordance with the requirements of the Contract Documents. Payment for restoration of driveways/parking areas will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including but not limited to all limerock, earthwork, compacting, subgrade, reconstruction of the driveway/parking area to the same depth and material as the existing one, furnishing and setting for expansion joint material, disposal of excess material, and the appurtenant items, such as mailboxes, for which separate payment is not specifically included in the Bid Schedule. No payment will be made for restoration of driveways outside the limits shown on the drawings or not approved in writing by the Engineer.
72	SY	10000	Clearing and Grading Swales	Measurement for payment for clearing and grading swale and or private property will be based upon the number of square yards of swale or private property actually cleared and graded all in accordance with the requirements of the Contract Documents. Payment for clearing and grading will be made at the unit price per square yard of clearing and grading named in the Bid Schedule which price shall constitute full compensation, including earthwork, importing of fill material, removal and disposal of excess material including but not limited to brush, bollards, and protection of trees to remain.
73	SY	1800	Furnish and Install Concrete Sidewalk (4-inch Thick)	Measurement for payment for furnishing and installing sidewalks will be based upon the actual number of square yards of such sidewalks constructed as shown in the drawings, all in accordance with the requirements of the Contract Documents. Payment for furnishing and installing sidewalks will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including all earthwork, compaction and stabilization of limerock base, subgrade, construction of the sidewalk, furnishing and setting for expansion joint material, backfilling of sidewalk, disposal of excess material, handrail where protection is needed, and the appurtenant items for which separate payment is not specifically included in the Bid Schedule. This item does NOT include replacement of sidewalk already paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.
74	SY	200	Furnish and Install Concrete Sidewalk (6-inch Thick)	Measurement for payment for furnishing and installing sidewalks will be based upon the actual number of square yards of such sidewalks constructed as shown in the drawings, all in accordance with the requirements of the Contract Documents. Payment for furnishing and installing sidewalks will be made at the unit price per square yard named in the Bid Schedule, which price shall constitute full compensation for completing said work, including all earthwork, compaction and stabilization of limerock base, subgrade, construction of the sidewalk, furnishing and setting for expansion joint material, backfilling of sidewalk, disposal of excess material, handrail where protection is needed, and the appurtenant items for which separate payment is not specifically included in the Bid Schedule. This item does NOT include replacement of sidewalk already paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.

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Line #	Unit of Measure	Amount	Details	Description
75	LF	900	Construct Type "E", Type "F", or Type "RA" Curb complete with Drop Curb, Shoulder Gutter, and 4-inch Curb Pad	Measurement for payment for furnishing and installing curb, drop curb, shoulder gutter and Curb pad will be based upon the number of linear feet of such Type "E", Type "F", or Type "RA" Curb complete with Drop Curb, Shoulder Gutter, and 4" Curb Pad actually constructed as determined by measurement along the centerline of the curb in place, and as shown on the drawings, all in accordance with the requirements of the Contract Documents. Payment for furnishing and installing curb and/or gutter will be made at the unit price per linear foot of curb and/or gutter named in the Bid Schedule, which shall constitute full compensation for complete installation including grading, placing 4" limerock pad, forming, saw cutting of pavement and cleanup of all areas disturbed by this construction. This item does NOT include replacement of curb and/or gutter already paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.
76	LF	360	Construct Type "A", Type "B", or Type "D" Curb complete with 4-inch Curb Pad	Measurement for payment for furnishing and installing curb, drop curb, shoulder gutter and Curb pad will be based upon the number of linear feet of such Type "A", Type "B", or Type "D" Curb complete with 4" Curb Pad actually constructed as determined by measurement along the centerline of the curb in place, and as shown on the drawings, all in accordance with the requirements of the Contract Documents. Payment for furnishing and installing curb and/or gutter will be made at the unit price per linear foot of curb and/or gutter named in the Bid Schedule, which shall constitute full compensation for complete installation including grading, placing 4" limerock pad, forming, saw cutting of pavement and cleanup of all areas disturbed by this construction. This item does NOT include replacement of curb and/or gutter already paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.
77	LF	290	Modify Existing Gutter Behind Landscape Island	Measurement for payment for Modify Existing Gutter Behind Landscape Island will be based upon the number of linear feet actual modification as determined by measurement along the centerline of such gutter, and as shown on the drawings, all in accordance with the requirements of the Contract Documents. Payment for modifying existing gutter behind landscape island will be made at the unit price per linear foot of gutter named in the Bid Schedule, which shall constitute full compensation for removal of existing concrete curb and gutters, leveling the existing gutter with new concrete, complete installation of new curb including grading, placing, forming, saw cutting of pavement and curb, smooth concrete finish at connection to existing site features, and cleanup of all areas disturbed by this construction. This item does NOT include replacement of curb and/or gutter already paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.
78	LS	1	Furnish and Install Pavement Markings and Signage	Measurement for payment for furnishing and installing pavement markings and signage will be based on a lump sum which shall represent full compensation for all labor and material required to furnish and install pavement markings and signage, all in accordance with the Contract Documents. This item includes, but it is not limited to removing of existing pavement markings and signage, providing new pavement markings and signage, reflective pavement markers (RPM), thermoplastic messages, symbols, and/or turn arrows, relocating or adjusting existing signs or signals, and all appurtenant items, and associated incidental restoration work. Payment shall be at the lump sum unit price named in the Bid Schedule, which price shall constitute full compensation for the work of the complete installation. This item includes all work not defined in other bid items.
79	EA	200	Remove and Reinstall Mailboxes, Signs, and Lamps	The per unit price for this bid item shall be full compensation for all labor, equipment, and materials to remove and reinstall existing mailboxes, street signs, and lamp post throughout the project area. This item does NOT include removal and re-installation of mailboxes, signs, and lamps paid for under other bid items. Use of this bid item for payment shall be subject to approval from Engineer.
80	LS	1	Furnish and Install Tree Protection (Existing Trees)	The lump sum price for this bid item shall be full compensation for protection of existing trees and landscaping, including all aspects of protection, trimming, pruning, fertilizing, and watering, furnished in accordance with Contract Documents. This item also includes the preparation and submittal of a tree disposition and landscape plan as well as the process for submitting and gaining approval of this plan.
81	EA	2	Furnish and Install Clusia Rosea (Autograph Tree)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.

FOR INFORMATIONAL PURPOSES ONLY

Line #	Unit of Measure	Amount	Details	Description
82	EA	8	Furnish and Install Bursera Simaruba (Gumbo Limbo)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
83	EA	12	Furnish and Install Conocarpus Erectus Sericeus (Silver Buttonwood)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
84	EA	16	Furnish and Install Myrcianthes Fragrans (Simpson's Stopper)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
85	EA	16	Furnish and Install Quercus Virginiana (Southern Live Oak)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
86	EA	3	Furnish and Install Ptychosperma Elegans (Solitaire Palm)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
87	EA	2	Furnish and Install Roystonea Elata (Florida Royal Palm)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
88	EA	5	Furnish and Install Washingtonia Robusta (Mexican Fan Palm)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
89	EA	2	Furnish and Install Wodyetia Bifurcata (Foxtail Palm)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.

FOR INFORMATIONAL PURPOSES ONLY

Line #	Unit of Measure	Amount	Details	Description
90	EA	130	Furnish and Install Clusia Guttifera (Small Leaf Clusia)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to furnish and install trees and plants in accordance with the Contract Documents. This item shall include, but is not limited to, excavation (including rock), backfilling, guy stakes, protection, compaction, grading, topsoil, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for complete installation. Trees shall be guyed and protected as required. Trees shall be warranted for one year after substantial completion issuance.
91	SY	50000	Furnish and Install Sod	The unit price for this item shall be full compensation on a per square yard basis for all labor, equipment, and materials required to furnish and install St. Augustine Floratam sod in accordance with the Contract Documents. This item includes excavation, backfilling, compaction, grading, top soil, sod, watering, fertilizing, disposal offsite of suitable or unsuitable materials, and all other appurtenances required for a complete installation.
92	EA	32	Remove and Dispose of Existing Trees (10" Diameter or Greater)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to remove and dispose of existing trees. Removal and disposal of trees shall include procuring the services of a Licensed Landscape Architect or Certified Arborist, obtaining of appropriate tree removal permits, spading of tree, root pruning, backfill and the removal and disposal of all vegetative matter associated with the removal as required by the Contract Documents or directed by the Engineer. Contractor shall stake ROW limits a minimum of two weeks in advance of construction to coordinate with adjacent property Owners and possible conflicting utilities.
93	EA	64	Remove and Dispose of Existing Trees (Less than 10" Diameter)	The unit price for this bid item shall be full compensation per each for all labor, equipment, and materials to remove and dispose of existing trees. Removal and disposal of trees shall include procuring the services of a Licensed Landscape Architect or Certified Arborist, obtaining of appropriate tree removal permits, spading of tree, root pruning, backfill and the removal and disposal of all vegetative matter associated with the removal as required by the Contract Documents or directed by the Engineer. Contractor shall stake ROW limits a minimum of two weeks in advance of construction to coordinate with adjacent property Owners and possible conflicting utilities.
94	LF	120	Furnish and Install Vegetation Root Barrier	The unit price for this item shall be full compensation on a linear foot basis for all labor, equipment, and materials required to furnish and install a vegetation root barrier in accordance with the requirements of the Contract Documents.
95	EA	312	Existing Tree Canopy Trimming	Measurement for payment to trim existing tree will be based upon the actual number, each, of trees trimmed. Trimming of trees shall include obtaining appropriate permits and the removal and disposal of all trimmed tree limbs/material associated with the trimming of trees as required by the contract documents or directed by the ENGINEER. Tree trimming shall be performed under the supervision of an ISA Certified and Licensed Arborist. This pay item is for the trimming of trees with overhanging limbs that conflict with the installation of proposed improvements and is at the discretion of the Engineer and City.
96	LF	120	Existing Tree Root Pruning	The unit price for this item shall be full compensation on a linear foot basis for all labor, equipment, and materials required for trees that get their roots pruned. This item shall include obtaining appropriate permits and the removal and disposal of all the material associated with the pruning of the tree roots required by the contract documents or directed by the ENGINEER. Root pruning shall be performed under the supervision of an ISA Certified and Licensed Arborist.

FOR INFORMATIONAL PURPOSES ONLY

CONSTRUCTION BID CERTIFICATION

Please Note: It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through www.BidSync.com prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the Department of State, in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration)

Address:

City: State: Zip:

Telephone No.: FAX No.: Email:

Check box if your firm qualifies for MBE / SBE / WBE: ☐

If a corporation, state the name of the President, Secretary and Resident Agent. If a partnership, state the names of all partners. If a trade name, state the names of the individuals who do business under the trade name.

Name	**Title**	**Name**	**Title**
Name	**Title**	**Name**	**Title**

ADDENDUM ACKNOWLEDGEMENT - Bidder acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued

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VARIANCES: If you take exception or have variances to any term, condition, specification, or requirement in this bid you must specify such variance in the space provided below or reference in the space provided below all variances contained on other pages within your bid. Additional pages may be attached if necessary. No variances will be deemed to be part of the bid submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

The below signatory affirms that he has or will obtain all required permits and licenses from the appropriate agencies, and that his firm is authorized to do business in the State of Florida. The below signatory agrees to furnish all labor, tools, material, equipment and supplies, and to sustain all the expense incurred in doing the work set forth in strict accordance with the bid plans and contract documents at the unit prices indicated if awarded a contract. The below signatory has not divulged to, discussed, or compared this bid with other bidders, and has not colluded with any other bidder or parties to this bid whatsoever. Furthermore, the undersigned guarantees the truth and accuracy of all statements and answers contained in this bid. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a bid, that in no event shall the City's liability for bidder's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Signature

Date

Title

The contractor shall have previous construction experience in the State of Florida with projects of similar scope and scale (or larger). Complete this form in its entirety. **Note: Do not include proposed team members or parent/subsidiary companies as references in your submittal.**

PRIME BIDDER'S NAME: _____

CLIENT NO. 1 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____

Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

_____

_____

_____

_____

Description of work that was self-performed by Bidder: _____

_____

_____

_____

_____

CLIENT NO. 2 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____

Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder: _____

CLIENT NO. 3 – Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____

Dates should be in mm/yy format

Project Name: _____

Location of Project: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder: _____

NON-COLLUSION STATEMENT

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

> 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g., ownership of five (5) percent or more).
>
> 3.4. Immediate family members (spouse, parents, and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME	RELATIONSHIPS
_____	_____
_____	_____
	_____
	_____

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

_____ _____

Authorized Signature Title

_____ _____

Name (Printed) Date

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

   Contracts. Every Contract exceeding $100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

   The Contract shall include provisions for the following:

   (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.

   (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

_____ _____

Authorized Signature Print Name and Title

_____

Date

QUESTIONNAIRE SHEET

PLEASE PRINT OR TYPE:

Firm Name:

President

Business Address:

Telephone:

Fax:

E-Mail Address:

What was the last project of this nature which you completed? Include the year, description, and contract value.

The following are named as three corporations and representatives of those corporations for which you have performed work similar to that required by this contract, and which the City may contact as your references (include addresses, telephone numbers and e-mail addresses). Include the project name, year, description, and contract value.

How many years has your organization been in business?

Have you ever failed to complete work awarded to you; if so, where and why?

The name of the qualifying agent for the firm and his position is:

Certificate of Competency Number of Qualifying Agent:

Effective Date: Expiration Date:

Licensed in:

Engineering Contractor's License # (County/State)

Expiration Date:

NOTE: To be considered for award of this contract, the bidder must submit a financial statement upon request.

NOTE: Contractor must have proper licensing and shall provide copy of same with his proposal.

QUESTIONNAIRE SHEET

1. Have you personally inspected the proposed work and have you a complete plan for its performance?

2. Will you sublet any part of this work? If so, list the portions or specialties of the work that you will.

a)

b)

c)

d)

e)

f)

g)

3. What equipment do you own that is available for the work?

4. What equipment will you purchase for the proposed work?

5. What equipment will you rent for the proposed work?

REFERENCES

A minimum of three (3) references shall be provided:

1. **Company Name:**
   Address:
   Contact:
   Phone #: Email:
   Contract Value: Year:
   Description:

2. **Company Name:**
   Address:
   Contact:
   Phone #: Email:
   Contract Value: Year:
   Description:

3. **Company Name:**
   Address:
   Contact:
   Phone #: Email:
   Contract Value: Year:
   Description:

4. Company Name:

Address:

Contact:

Phone #: Email:

Contract Value: Year:

Description:

5. Company Name:

Address:

Contact:

Phone #: Email:

Contract Value: Year:

Description:

CITY OF FORT LAUDERDALE

SWORN STATEMENT PURSUANT TO SECTION 287.087, FLORIDA STATUTES, ON PREFERENCE TO BUSINESS WITH DRUG-FREE WORK PLACE PROGRAMS

I certify that I have established a Drug Free Work Place program and have complied with the following

a. Published and distributed to each employee a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibitions.

b. Required all new employees to undergo laboratory testing as a condition of employment and will require all employees, as a condition of their continued employment, to undergo laboratory testing to detect illegal drug or alcohol use according to Florida Statutes 440.101 and 440.102.

c. Ensured that applicants with a confirmed positive drug or alcohol screening test result are not considered for employment.

d. Have tested employees when reasonably suspected of illegal drug or alcohol use.

e. Ensured that any employee refusing to take a drug or alcohol screening test in violation of the Drug Free Work Place Policy is subject to dismissal for failure to abide by the provisions of the Policy.

f. Informed employees about the dangers of drug abuse in the workplace, the business' policy of maintain a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.

g. In the statement specified in subparagraph a, notified the employees that, as a condition of their employment, the employee will abide by the terms of the statement and will notify their employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States of any state, for a violation occurring in the workplace no later than 5 days after such conviction.

h. Have required all employees to sign a copy of this statement of compliance acknowledging their understanding and agreeing to abide with the requirements of the Drug Work Place Policy.

i. Will impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.

j. Am making a good faith effort to continue to maintain a Drug Free Work Place through implementation of this document.

BY: _____ DATE: _____

NAME (Printed) _____ TITLE: _____

COMPANY NAME:_____

Affix Company Seal

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept the credit card or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below, you agree with these terms.

Please indicate which credit card payment you prefer:

☐ MasterCard

☐ Visa

_____

Company Name

_____ _____

Name (Printed) Signature

_____ _____

Title Date

TRENCH SAFETY

Bidder acknowledges that included in the appropriate bid items of his bid and in the Total Bid Price are costs for complying with the Florida Trench Safety Act, Florida Statutes 553.60 – 553.64. The bidder further identifies the costs of such compliance to be summarized below:

Trench Safety Measure (Description)	Units of Measure (LF/SF)	Unit (Quantity)	Unit Cost	Extended Cost
A.				
B.				
C.				
D.				
			Total:	

The bidder certifies that all trench excavation done within his control in excess of five feet (5') in depth shall be in accordance with the Occupational Safety and Health Administration's excavation safety standards, C.F.R. s. 1926.650 Subpart P., and the Florida Trench Safety Act, Florida Statutes 553.60-553.64.

Failure to complete the above may result in the bid being declared non-responsive.

DATE:

(SIGNATURE)

STATE OF: COUNTY OF:

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

(Name of Individual Signing)

who, after first being duly sworn by me, affixed his/her signature in the space provided above on this day of , 20 .

NOTARY PUBLIC

My Commission Expires:

Solicitation/Bid /Contract No: _____

Project Description:

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

A. all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,

B. all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: _____

Authorized Company Person's Signature: _____

Authorized Company Person's Title: _____

Date: _____

AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. ***(Only applicable if purchasing real property)*** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: _____ Title:_____ Entity: _____

Signature: _____ Date: _____

NOTARY PUBLIC ACKNOWEDGEMENT SECTION

STATE OF _____

COUTY OF _____

The foregoing instrument was acknowledged before me, by means of □ physical presence or □ online notarization, this ____ day of _____20 __, by _____, as

_____ for _____, who is

personally known to me or who has produced _____as identification.

Notary Public Signature: _____ (Notary Seal)

Print Name:_____ My commission expires:_____

ANTI-HUMAN TRAFFICKING AFFIDAVIT

The undersigned, on behalf of _____ ("Nongovernmental Entity"), a _____ (*State*) _____ (*Type of Entity*), under penalty of perjury, hereby deposes and says:

1. My name is _____.

2. I am an ____ officer or ____ authorized representative of the Nongovernmental Entity.

3. I attest that the Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes (2024), as may be amended or revised.

Under penalties of perjury, I declare that I have read the foregoing Anti-Human Trafficking Affidavit and that the facts stated in it are true.

Signature of Officer or Representative: _____

Name of Officer or Representative: _____ Title: _____

Office Address: _____

Email Address: _____

Main Phone Number: _____ FEIN No.: _____

STATE OF _____
COUNTY OF _____

Sworn to and subscribed before me by means of ❑ physical presence or ❑ online notarization, this _____ day of _____, 2024, by _____.

_____
(Signature of Notary Public – State of _____)

SEAL

_____
Print, Type or Stamp Commissioned Name of Notary Public)

Personally Known ____ OR Produced Identification ____

Type of Identification Produced_____

SAMPLE

Executive Summary Report

Of

Event: 461-6 - VICTORIA PARK STORMWATER IMPROVEMENT

Buyer: PAULETTE HEMMINGS TURNER

Date Range: 06/05/2025 04:00:00 PM - 08/08/2025 02:00:00 PM

All Suppliers Responding: 6

Suppliers Responding

Supplier	Contact	Phone Number	E Mail	City	State Or Province	Total Bid Amount	Total Awarded	Response Attachment Exists
David Mancini and Sons, Inc	Fabio Angarita	9549773556	bids@dmsi.co	Pompano Beach	FL	28,872,852.34	0.00	Yes
Southern Underground Industries, INC	Belseri Comerford	954-590-0322	mikes@southernundergroundindustries.com	Deerfield Beach	FL	33,302,388.09	0.00	Yes
FG Construction LLC	Bao Dang	954-766-4053	bao@fgconstruction.com	Tamarac	FL	31,926,892.61	0.00	Yes
ric-man international, inc	hamill andrade	9544261042	bid@ric-man.us	pompano beach	FL	50,333,105.95	0.00	No
Man-Con Inc.	Kate Hill	954-427-0230	estimating@mancon.ws	Deerfiled Beach	FL	29,128,897.98	0.00	Yes
Lanzo Construction Company	Salvatore D'Alessandro	(954) 979-0802	estimating@lanzo.org	Deerfield Beach	FL	34,500,507.81	0.00	Yes

Event Lines And Responses

Item	Description	Unit of Measure	Quantity
MOBILIZATION AND DEMOBILIZATION-	The lump sum price for this item shall be full compensation	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	1,900,000.000	0.00
Southern Underground Industries, INC	1.0000	LS	2,592,794.930	0.00
FG Construction LLC	1.0000	LS	2,378,553.500	0.00
ric-man international, inc	1.0000	LS	3,106,000.000	0.00
Man-Con Inc.	1.0000	LS	3,879,817.000	0.00
Lanzo Construction Company	1.0000	LS	2,000,000.000	0.00

Item	Description	Unit of Measure	Quantity
MAINTENANCE OF TRAFFIC (MOT)-	The lump sum price for this item shall be full compensation	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	564,712.000	0.00
Southern Underground Industries, INC	1.0000	LS	147,231.340	0.00
FG Construction LLC	1.0000	LS	1,052,648.250	0.00
ric-man international, inc	1.0000	LS	5,500,000.000	0.00
Man-Con Inc.	1.0000	LS	2,000,000.000	0.00
Lanzo Construction Company	1.0000	LS	250,000.000	0.00

Item	Description	Unit of Measure	Quantity
GIS DATABASE-	The lump sum price for this bid item shall be full compensat	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	124,251.000	0.00
Southern Underground Industries, INC	1.0000	LS	19,495.680	0.00
FG Construction LLC	1.0000	LS	122,146.250	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	1.0000	LS	9,998.490	0.00
Man-Con Inc.	1.0000	LS	23,259.000	0.00
Lanzo Construction Company	1.0000	LS	100,000.000	0.00

Item	Description	Unit of Measure	Quantity
RECORD DRAWINGS-	The lump sum price for this bid item shall be full compensat	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	348,048.000	0.00
Southern Underground Industries, INC	1.0000	LS	162,204.020	0.00
FG Construction LLC	1.0000	LS	140,834.650	0.00
ric-man international, inc	1.0000	LS	153,000.000	0.00
Man-Con Inc.	1.0000	LS	820,000.000	0.00
Lanzo Construction Company	1.0000	LS	200,000.000	0.00

Item	Description	Unit of Measure	Quantity
ALL WORK ASSOCIATED WITH THE PRE-	The lump sum price indicated for this bid item shall be full	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	601,590.000	0.00
Southern Underground Industries, INC	1.0000	LS	101,465.500	0.00
FG Construction LLC	1.0000	LS	376,251.190	0.00
ric-man international, inc	1.0000	LS	70,000.000	0.00
Man-Con Inc.	1.0000	LS	620,000.000	0.00
Lanzo Construction Company	1.0000	LS	200,000.000	0.00

Item	Description	Unit of Measure	Quantity
PROVIDE VIBRATION MONITORING INS-	The lump sum price for this item shall be full compensation	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	186,400.000	0.00
Southern Underground Industries, INC	1.0000	LS	102,267.030	0.00
FG Construction LLC	1.0000	LS	69,623.370	0.00
ric-man international, inc	1.0000	LS	75,000.000	0.00
Man-Con Inc.	1.0000	LS	300,000.000	0.00
Lanzo Construction Company	1.0000	LS	10,000.000	0.00

Item	Description	Unit of Measure	Quantity
STORMWATER PUMP STATION-	The lump sum price for this item shall be full compensation	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	13,351,352.000	0.00
Southern Underground Industries, INC	1.0000	LS	3,629,229.360	0.00
FG Construction LLC	1.0000	LS	8,019,086.660	0.00
ric-man international, inc	1.0000	LS	4,549,000.000	0.00
Man-Con Inc.	1.0000	LS	11,000,000.000	0.00
Lanzo Construction Company	1.0000	LS	5,100,000.000	0.00

Item	Description	Unit of Measure	Quantity
CANTILEVER STEEL SHEET PILE WALL-	The unit price for this item is the payment, on a linear foo	LF	48.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	48.0000	LF	8,220.000	0.00
Southern Underground Industries, INC	48.0000	LF	8,168.980	0.00
FG Construction LLC	48.0000	LF	7,092.120	0.00
ric-man international, inc	48.0000	LF	6,600.000	0.00
Man-Con Inc.	48.0000	LF	4,942.000	0.00
Lanzo Construction Company	48.0000	LF	15,000.000	0.00

Item	Description	Unit of Measure	Quantity
OUTFALL DRAINAGE PIPE PENETRATIO-	The lump sum price indicated for this bid item shall be full	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	173,743.000	0.00
Southern Underground Industries, INC	1.0000	LS	119,451.860	0.00
FG Construction LLC	1.0000	LS	38,579.170	0.00
ric-man international, inc	1.0000	LS	123,000.000	0.00
Man-Con Inc.	1.0000	LS	1,399,917.000	0.00
Lanzo Construction Company	1.0000	LS	75,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL FDOT #57 STO-	The unit price for this item is the payment, on a cubic yard	CY	180.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	180.0000	CY	109.000	0.00
Southern Underground Industries, INC	180.0000	CY	247.460	0.00
FG Construction LLC	180.0000	CY	173.160	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	180.0000	CY	88.000	0.00
Man-Con Inc.	180.0000	CY	300.000	0.00
Lanzo Construction Company	180.0000	CY	300.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND DISPOSE OF EXISTING S-	The unit price for this item shall be full compensation on a	EA	85.8000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	85.8000	EA	1,294.000	0.00
Southern Underground Industries, INC	85.8000	EA	9,633.110	0.00
FG Construction LLC	85.8000	EA	1,536.260	0.00
ric-man international, inc	85.8000	EA	2,100.000	0.00
Man-Con Inc.	85.8000	EA	3,000.000	0.00
Lanzo Construction Company	85.8000	EA	3,500.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND DISPOSE OF EXISTING S-	The unit price for this item shall be full compensation on a	LF	4,800.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	4,800.0000	LF	39.000	0.00
Southern Underground Industries, INC	4,800.0000	LF	95.460	0.00
FG Construction LLC	4,800.0000	LF	37.370	0.00
ric-man international, inc	4,800.0000	LF	17.000	0.00
Man-Con Inc.	4,800.0000	LF	100.000	0.00
Lanzo Construction Company	4,800.0000	LF	150.000	0.00

Item	Description	Unit of Measure	Quantity
GROUT, CAP, AND ABANDON EXISTING-	The unit price for this item shall be full compensation on a	LF	316.8000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	316.8000	LF	55.000	0.00
Southern Underground Industries, INC	316.8000	LF	84.390	0.00
FG Construction LLC	316.8000	LF	26.530	0.00
ric-man international, inc	316.8000	LF	36.000	0.00
Man-Con Inc.	316.8000	LF	100.000	0.00
Lanzo Construction Company	316.8000	LF	50.000	0.00

Item	Description	Unit of Measure	Quantity
GROUT, CAP, AND ABANDON EXISTING-	The unit price for this item shall be full compensation on a	EA	5.5000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.5000	EA	602.000	0.00
Southern Underground Industries, INC	5.5000	EA	5,377.950	0.00
FG Construction LLC	5.5000	EA	1,747.060	0.00
ric-man international, inc	5.5000	EA	3,200.000	0.00
Man-Con Inc.	5.5000	EA	931.000	0.00
Lanzo Construction Company	5.5000	EA	5,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL FDOT "TYPE C-	The unit price for this item shall be full compensation on a	EA	73.7000

continued...

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	73.7000	EA	4,749.000	0.00
Southern Underground Industries, INC	73.7000	EA	8,256.220	0.00
FG Construction LLC	73.7000	EA	8,895.520	0.00
ric-man international, inc	73.7000	EA	9,300.000	0.00
Man-Con Inc.	73.7000	EA	8,143.000	0.00
Lanzo Construction Company	73.7000	EA	8,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL FDOT "TYPE 9-	The unit price for this item shall be full compensation on a	EA	23.1000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	23.1000	EA	6,089.000	0.00
Southern Underground Industries, INC	23.1000	EA	8,675.440	0.00
FG Construction LLC	23.1000	EA	9,863.350	0.00
ric-man international, inc	23.1000	EA	20,000.000	0.00
Man-Con Inc.	23.1000	EA	6,861.000	0.00
Lanzo Construction Company	23.1000	EA	11,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 4' DIAMETER-	The unit price for this item shall be full compensation on a	EA	110.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	110.0000	EA	5,177.000	0.00
Southern Underground Industries, INC	110.0000	EA	8,738.260	0.00
FG Construction LLC	110.0000	EA	10,263.390	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	110.0000	EA	9,200.000	0.00
Man-Con Inc.	110.0000	EA	5,662.000	0.00
Lanzo Construction Company	110.0000	EA	10,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 5' DIAMETER-	The unit price for this item shall be full compensation on a	EA	6.6000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	6.6000	EA	5,720.000	0.00
Southern Underground Industries, INC	6.6000	EA	9,751.260	0.00
FG Construction LLC	6.6000	EA	10,480.950	0.00
ric-man international, inc	6.6000	EA	13,000.000	0.00
Man-Con Inc.	6.6000	EA	11,972.000	0.00
Lanzo Construction Company	6.6000	EA	10,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 4' DIAMETER-	The unit price for this item shall be full compensation on a	EA	140.8000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	140.8000	EA	6,482.000	0.00
Southern Underground Industries, INC	140.8000	EA	8,921.960	0.00
FG Construction LLC	140.8000	EA	8,849.330	0.00
ric-man international, inc	140.8000	EA	11,000.000	0.00
Man-Con Inc.	140.8000	EA	5,673.000	0.00
Lanzo Construction Company	140.8000	EA	11,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 5'X5' MANHO-	The unit price for this item shall be full compensation on a	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	10,136.000	0.00
Southern Underground Industries, INC	2.0000	EA	16,370.200	0.00
FG Construction LLC	2.0000	EA	14,242.000	0.00
ric-man international, inc	2.0000	EA	18,000.000	0.00
Man-Con Inc.	2.0000	EA	14,079.000	0.00
Lanzo Construction Company	2.0000	EA	21,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 6' DIAMETER-	The unit price for this item shall be full compensation on a	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	7,621.000	0.00
Southern Underground Industries, INC	2.0000	EA	15,539.650	0.00
FG Construction LLC	2.0000	EA	15,738.640	0.00
ric-man international, inc	2.0000	EA	18,000.000	0.00
Man-Con Inc.	2.0000	EA	13,781.000	0.00
Lanzo Construction Company	2.0000	EA	25,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 4' DIAMETER-	The unit price for this item shall be full compensation on a	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	28,597.000	0.00
Southern Underground Industries, INC	2.0000	EA	13,978.530	0.00
FG Construction LLC	2.0000	EA	22,182.480	0.00
ric-man international, inc	2.0000	EA	24,000.000	0.00
Man-Con Inc.	2.0000	EA	19,914.000	0.00
Lanzo Construction Company	2.0000	EA	50,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL OUTFALL STRU-	The unit price for this item shall be full compensation on a	EA	10.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	10.0000	EA	6,887.000	0.00
Southern Underground Industries, INC	10.0000	EA	9,554.840	0.00
FG Construction LLC	10.0000	EA	20,457.720	0.00
ric-man international, inc	10.0000	EA	23,000.000	0.00
Man-Con Inc.	10.0000	EA	5,252.000	0.00
Lanzo Construction Company	10.0000	EA	15,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL WEIR CONTROL-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	15,510.000	0.00
Southern Underground Industries, INC	5.0000	EA	23,505.980	0.00
FG Construction LLC	5.0000	EA	30,332.130	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	5.0000	EA	23,000.000	0.00
Man-Con Inc.	5.0000	EA	19,242.000	0.00
Lanzo Construction Company	5.0000	EA	50,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CONCRETE COL-	The unit price for this item shall be full compensation on a	EA	145.2000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	145.2000	EA	2,154.000	0.00
Southern Underground Industries, INC	145.2000	EA	883.770	0.00
FG Construction LLC	145.2000	EA	2,370.890	0.00
ric-man international, inc	145.2000	EA	3,800.000	0.00
Man-Con Inc.	145.2000	EA	996.000	0.00
Lanzo Construction Company	145.2000	EA	750.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	5,100.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5,100.0000	LF	81.000	0.00
Southern Underground Industries, INC	5,100.0000	LF	312.050	0.00
FG Construction LLC	5,100.0000	LF	181.760	0.00
ric-man international, inc	5,100.0000	LF	450.000	0.00
Man-Con Inc.	5,100.0000	LF	18.000	0.00
Lanzo Construction Company	5,100.0000	LF	220.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	15,500.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	15,500.0000	LF	66.000	0.00
Southern Underground Industries, INC	15,500.0000	LF	339.170	0.00
FG Construction LLC	15,500.0000	LF	215.020	0.00
ric-man international, inc	15,500.0000	LF	440.000	0.00
Man-Con Inc.	15,500.0000	LF	20.000	0.00
Lanzo Construction Company	15,500.0000	LF	200.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	2,200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2,200.0000	LF	135.000	0.00
Southern Underground Industries, INC	2,200.0000	LF	369.090	0.00
FG Construction LLC	2,200.0000	LF	318.940	0.00
ric-man international, inc	2,200.0000	LF	410.000	0.00
Man-Con Inc.	2,200.0000	LF	22.000	0.00
Lanzo Construction Company	2,200.0000	LF	250.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	1,200.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1,200.0000	LF	172.000	0.00
Southern Underground Industries, INC	1,200.0000	LF	393.820	0.00
FG Construction LLC	1,200.0000	LF	442.830	0.00
ric-man international, inc	1,200.0000	LF	460.000	0.00
Man-Con Inc.	1,200.0000	LF	95.000	0.00
Lanzo Construction Company	1,200.0000	LF	400.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	180.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	180.0000	LF	305.000	0.00
Southern Underground Industries, INC	180.0000	LF	444.570	0.00
FG Construction LLC	180.0000	LF	617.360	0.00
ric-man international, inc	180.0000	LF	520.000	0.00
Man-Con Inc.	180.0000	LF	100.000	0.00
Lanzo Construction Company	180.0000	LF	600.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL DRAINAGE PIP-	The unit price for this item shall be full compensation on a	LF	650.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	650.0000	LF	218.000	0.00
Southern Underground Industries, INC	650.0000	LF	393.070	0.00
FG Construction LLC	650.0000	LF	345.240	0.00

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	650.0000	LF	440.000	0.00
Man-Con Inc.	650.0000	LF	1.000	0.00
Lanzo Construction Company	650.0000	LF	400.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL EXFILTRATION-	The unit price for this item shall be full compensation on a	LF	19,000.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	19,000.0000	LF	66.000	0.00
Southern Underground Industries, INC	19,000.0000	LF	248.110	0.00
FG Construction LLC	19,000.0000	LF	114.720	0.00
ric-man international, inc	19,000.0000	LF	530.000	0.00
Man-Con Inc.	19,000.0000	LF	20.000	0.00
Lanzo Construction Company	19,000.0000	LF	295.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL POLLUTION RE-	The unit price for this item shall be full compensation on a	EA	92.4000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	92.4000	EA	1,526.000	0.00
Southern Underground Industries, INC	92.4000	EA	663.710	0.00
FG Construction LLC	92.4000	EA	1,271.310	0.00
ric-man international, inc	92.4000	EA	1,200.000	0.00
Man-Con Inc.	92.4000	EA	365.000	0.00
Lanzo Construction Company	92.4000	EA	575.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 10"-12" MANA-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	912.000	0.00
Southern Underground Industries, INC	5.0000	EA	3,256.820	0.00
FG Construction LLC	5.0000	EA	3,110.790	0.00
ric-man international, inc	5.0000	EA	4,500.000	0.00
Man-Con Inc.	5.0000	EA	2,159.000	0.00
Lanzo Construction Company	5.0000	EA	3,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 15"-18" MANA-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	956.000	0.00
Southern Underground Industries, INC	5.0000	EA	3,373.640	0.00
FG Construction LLC	5.0000	EA	3,564.200	0.00
ric-man international, inc	5.0000	EA	4,600.000	0.00
Man-Con Inc.	5.0000	EA	2,248.000	0.00
Lanzo Construction Company	5.0000	EA	4,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL 42"-48" MANA-	The unit price for this item shall be full compensation on a	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	1,314.000	0.00
Southern Underground Industries, INC	2.0000	EA	5,572.490	0.00
FG Construction LLC	2.0000	EA	6,276.120	0.00
ric-man international, inc	2.0000	EA	9,200.000	0.00
Man-Con Inc.	2.0000	EA	6,999.000	0.00
Lanzo Construction Company	2.0000	EA	10,000.000	0.00

Item	Description	Unit of Measure	Quantity
CONNECT EXISTING PIPE TO PROPOSE-	The unit price for this item shall be full compensation on a	EA	25.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	25.0000	EA	1,851.000	0.00
Southern Underground Industries, INC	25.0000	EA	9,383.850	0.00
FG Construction LLC	25.0000	EA	6,039.720	0.00
ric-man international, inc	25.0000	EA	5,700.000	0.00
Man-Con Inc.	25.0000	EA	2,868.000	0.00
Lanzo Construction Company	25.0000	EA	750.000	0.00

Item	Description	Unit of Measure	Quantity
CONNECT PROPOSED PIPE TO AN EXIS-	The unit price for this item shall be full compensation on a	EA	25.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	25.0000	EA	1,273.000	0.00
Southern Underground Industries, INC	25.0000	EA	9,592.460	0.00
FG Construction LLC	25.0000	EA	3,834.800	0.00

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	25.0000	EA	5,700.000	0.00
Man-Con Inc.	25.0000	EA	5,221.000	0.00
Lanzo Construction Company	25.0000	EA	8,500.000	0.00

Item	Description	Unit of Measure	Quantity
CONNECT PROPOSED PIPE TO EXISTIN-	The unit price for this item shall be full compensation on a	EA	25.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	25.0000	EA	1,839.000	0.00
Southern Underground Industries, INC	25.0000	EA	9,265.640	0.00
FG Construction LLC	25.0000	EA	1,162.730	0.00
ric-man international, inc	25.0000	EA	6,100.000	0.00
Man-Con Inc.	25.0000	EA	2,131.000	0.00
Lanzo Construction Company	25.0000	EA	6,000.000	0.00

Item	Description	Unit of Measure	Quantity
LINE EXISTING STORM PIPE WITH C.-	This work will be performed, if necessary, as determined by	LF	1,170.0000

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1,170.0000	LF	76.000	0.00
Southern Underground Industries, INC	1,170.0000	LF	194.960	0.00
FG Construction LLC	1,170.0000	LF	400.580	0.00
ric-man international, inc	1,170.0000	LF	430.000	0.00
Man-Con Inc.	1,170.0000	LF	233.000	0.00
Lanzo Construction Company	1,170.0000	LF	275.000	0.00

Item	Description	Unit of Measure	Quantity
LINE EXISTING STORM PIPE WITH C.-	This work will be performed, if necessary, as determined by	LF	525.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	525.0000	LF	174.000	0.00
Southern Underground Industries, INC	525.0000	LF	515.990	0.00
FG Construction LLC	525.0000	LF	490.550	0.00
ric-man international, inc	525.0000	LF	860.000	0.00
Man-Con Inc.	525.0000	LF	616.000	0.00
Lanzo Construction Company	525.0000	LF	650.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL INLINE CHECK-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	7,490.000	0.00
Southern Underground Industries, INC	5.0000	EA	9,363.140	0.00
FG Construction LLC	5.0000	EA	19,528.970	0.00
ric-man international, inc	5.0000	EA	13,000.000	0.00
Man-Con Inc.	5.0000	EA	12,345.000	0.00
Lanzo Construction Company	5.0000	EA	15,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL INLINE CHECK-	The unit price for this item shall be full compensation on a	EA	3.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	3.0000	EA	11,422.000	0.00
Southern Underground Industries, INC	3.0000	EA	13,187.290	0.00
FG Construction LLC	3.0000	EA	25,872.490	0.00
ric-man international, inc	3.0000	EA	17,000.000	0.00
Man-Con Inc.	3.0000	EA	16,869.000	0.00
Lanzo Construction Company	3.0000	EA	20,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL INLINE CHECK-	The unit price for this item shall be full compensation on a	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	13,894.000	0.00
Southern Underground Industries, INC	2.0000	EA	22,317.290	0.00
FG Construction LLC	2.0000	EA	37,698.100	0.00
ric-man international, inc	2.0000	EA	20,000.000	0.00
Man-Con Inc.	2.0000	EA	20,653.000	0.00
Lanzo Construction Company	2.0000	EA	22,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL INLINE CHECK-	The unit price for this item shall be full compensation on a	EA	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	EA	65,262.000	0.00
Southern Underground Industries, INC	1.0000	EA	76,734.380	0.00
FG Construction LLC	1.0000	EA	130,094.820	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	1.0000	EA	80,000.000	0.00
Man-Con Inc.	1.0000	EA	87,694.000	0.00
Lanzo Construction Company	1.0000	EA	85,000.000	0.00

Item	Description	Unit of Measure	Quantity
HEAVY DESILT/WATER JETTING AND C-	The unit price for this item shall be full compensation on a	LF	950.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	950.0000	LF	19.000	0.00
Southern Underground Industries, INC	950.0000	LF	58.490	0.00
FG Construction LLC	950.0000	LF	19.530	0.00
ric-man international, inc	950.0000	LF	110.000	0.00
Man-Con Inc.	950.0000	LF	120.000	0.00
Lanzo Construction Company	950.0000	LF	50.000	0.00

Item	Description	Unit of Measure	Quantity
HEAVY DESILT/WATER JETTING AND C-	The unit price for this item shall be full compensation on a	EA	20.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	20.0000	EA	1,108.000	0.00
Southern Underground Industries, INC	20.0000	EA	324.930	0.00
FG Construction LLC	20.0000	EA	732.870	0.00
ric-man international, inc	20.0000	EA	1,100.000	0.00
Man-Con Inc.	20.0000	EA	388.000	0.00
Lanzo Construction Company	20.0000	EA	250.000	0.00

Item	Description	Unit of Measure	Quantity
HEAVY DESILT/WATER JETTING AND C-	The unit price for this item shall be full compensation on a	LF	300.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	300.0000	LF	37.000	0.00
Southern Underground Industries, INC	300.0000	LF	32.490	0.00
FG Construction LLC	300.0000	LF	23.200	0.00
ric-man international, inc	300.0000	LF	72.000	0.00
Man-Con Inc.	300.0000	LF	39.000	0.00
Lanzo Construction Company	300.0000	LF	25.000	0.00

Item	Description	Unit of Measure	Quantity
HEAVY DESILT/WATER JETTING AND C-	The unit price for this item shall be full compensation on a	LF	2,400.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2,400.0000	LF	45.000	0.00
Southern Underground Industries, INC	2,400.0000	LF	64.990	0.00
FG Construction LLC	2,400.0000	LF	26.860	0.00
ric-man international, inc	2,400.0000	LF	110.000	0.00
Man-Con Inc.	2,400.0000	LF	50.000	0.00
Lanzo Construction Company	2,400.0000	LF	50.000	0.00

Item	Description	Unit of Measure	Quantity
OFFSET EXISTING WATER MAIN (2")-	The unit price for this item shall be full compensation on a	LF	100.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	100.0000	LF	133.000	0.00
Southern Underground Industries, INC	100.0000	LF	105.380	0.00
FG Construction LLC	100.0000	LF	182.760	0.00
ric-man international, inc	100.0000	LF	180.000	0.00
Man-Con Inc.	100.0000	LF	10.000	0.00
Lanzo Construction Company	100.0000	LF	765.000	0.00

Item	Description	Unit of Measure	Quantity
OFFSET EXISTING WATER MAIN (4")-	The unit price for this item shall be full compensation on a	LF	100.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	100.0000	LF	144.000	0.00
Southern Underground Industries, INC	100.0000	LF	244.720	0.00
FG Construction LLC	100.0000	LF	464.490	0.00
ric-man international, inc	100.0000	LF	260.000	0.00
Man-Con Inc.	100.0000	LF	20.000	0.00
Lanzo Construction Company	100.0000	LF	25.000	0.00

Item	Description	Unit of Measure	Quantity
OFFSET EXISTING WATER MAIN (6")-	The unit price for this item shall be full compensation on a	LF	500.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	500.0000	LF	133.000	0.00
Southern Underground Industries, INC	500.0000	LF	235.100	0.00
FG Construction LLC	500.0000	LF	454.710	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	500.0000	LF	400.000	0.00
Man-Con Inc.	500.0000	LF	25.000	0.00
Lanzo Construction Company	500.0000	LF	550.000	0.00

Item	Description	Unit of Measure	Quantity
OFFSET EXISTING WATER MAIN (8")-	The unit price for this item shall be full compensation on a	LF	200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	200.0000	LF	137.000	0.00
Southern Underground Industries, INC	200.0000	LF	258.070	0.00
FG Construction LLC	200.0000	LF	534.190	0.00
ric-man international, inc	200.0000	LF	430.000	0.00
Man-Con Inc.	200.0000	LF	30.000	0.00
Lanzo Construction Company	200.0000	LF	650.000	0.00

Item	Description	Unit of Measure	Quantity
RESTRAIN EXISTING WATER MAIN-	The unit price for this item shall be full compensation on a	LF	600.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	600.0000	LF	52.000	0.00
Southern Underground Industries, INC	600.0000	LF	130.810	0.00
FG Construction LLC	600.0000	LF	132.730	0.00
ric-man international, inc	600.0000	LF	130.000	0.00
Man-Con Inc.	600.0000	LF	10.000	0.00
Lanzo Construction Company	600.0000	LF	250.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL GATE VALVE 2-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	1,781.000	0.00
Southern Underground Industries, INC	5.0000	EA	3,286.930	0.00
FG Construction LLC	5.0000	EA	2,804.260	0.00
ric-man international, inc	5.0000	EA	3,000.000	0.00
Man-Con Inc.	5.0000	EA	1,920.000	0.00
Lanzo Construction Company	5.0000	EA	2,200.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL GATE VALVE 4-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	2,031.000	0.00
Southern Underground Industries, INC	5.0000	EA	10,695.280	0.00
FG Construction LLC	5.0000	EA	3,167.600	0.00
ric-man international, inc	5.0000	EA	4,700.000	0.00
Man-Con Inc.	5.0000	EA	2,420.000	0.00
Lanzo Construction Company	5.0000	EA	3,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL GATE VALVE 6-	The unit price for this item shall be full compensation on a	EA	10.0000

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Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	10.0000	EA	2,698.000	0.00
Southern Underground Industries, INC	10.0000	EA	10,941.430	0.00
FG Construction LLC	10.0000	EA	3,590.440	0.00
ric-man international, inc	10.0000	EA	5,900.000	0.00
Man-Con Inc.	10.0000	EA	3,794.000	0.00
Lanzo Construction Company	10.0000	EA	5,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL GATE VALVE 8-	The unit price for this item shall be full compensation on a	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	3,288.000	0.00
Southern Underground Industries, INC	5.0000	EA	11,739.680	0.00
FG Construction LLC	5.0000	EA	4,670.100	0.00
ric-man international, inc	5.0000	EA	6,700.000	0.00
Man-Con Inc.	5.0000	EA	4,444.000	0.00
Lanzo Construction Company	5.0000	EA	6,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL TEMPORARY LI-	The unit price for this item shall be per unit basis for all	EA	4.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	4.0000	EA	6,274.000	0.00
Southern Underground Industries, INC	4.0000	EA	10,851.050	0.00
FG Construction LLC	4.0000	EA	9,040.150	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	4.0000	EA	13,000.000	0.00
Man-Con Inc.	4.0000	EA	10.000	0.00
Lanzo Construction Company	4.0000	EA	5,100.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL TEMPORARY LI-	The unit price for this item shall be per unit basis for all	EA	4.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	4.0000	EA	7,024.000	0.00
Southern Underground Industries, INC	4.0000	EA	15,594.780	0.00
FG Construction LLC	4.0000	EA	14,925.500	0.00
ric-man international, inc	4.0000	EA	18,000.000	0.00
Man-Con Inc.	4.0000	EA	200.000	0.00
Lanzo Construction Company	4.0000	EA	8,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL TEMPORARY LI-	The unit price for this item shall be per unit basis for all	EA	25.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	25.0000	EA	6,813.000	0.00
Southern Underground Industries, INC	25.0000	EA	15,472.300	0.00
FG Construction LLC	25.0000	EA	14,075.730	0.00
ric-man international, inc	25.0000	EA	25,000.000	0.00
Man-Con Inc.	25.0000	EA	500.000	0.00
Lanzo Construction Company	25.0000	EA	11,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL TEMPORARY LI-	The unit price for this item shall be per unit basis for all	EA	12.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	12.0000	EA	7,990.000	0.00
Southern Underground Industries, INC	12.0000	EA	16,309.500	0.00
FG Construction LLC	12.0000	EA	16,828.000	0.00
ric-man international, inc	12.0000	EA	26,000.000	0.00
Man-Con Inc.	12.0000	EA	500.000	0.00
Lanzo Construction Company	12.0000	EA	13,000.000	0.00

Item	Description	Unit of Measure	Quantity
REPLACE EXISTING WATER SERVICES-	The unit price for this item shall be full compensation for	EA	200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	200.0000	EA	280.000	0.00
Southern Underground Industries, INC	200.0000	EA	3,754.160	0.00
FG Construction LLC	200.0000	EA	1,529.170	0.00
ric-man international, inc	200.0000	EA	3,700.000	0.00
Man-Con Inc.	200.0000	EA	100.000	0.00
Lanzo Construction Company	200.0000	EA	3,500.000	0.00

Item	Description	Unit of Measure	Quantity
REPLACE EXISTING SEWER LATERALS-	The unit price for this item shall be full compensation for	EA	200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	200.0000	EA	1,048.000	0.00
Southern Underground Industries, INC	200.0000	EA	3,047.730	0.00
FG Construction LLC	200.0000	EA	3,233.690	0.00
ric-man international, inc	200.0000	EA	3,900.000	0.00
Man-Con Inc.	200.0000	EA	100.000	0.00
Lanzo Construction Company	200.0000	EA	3,200.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND REPLACE FIRE HYDRANT-	Measurement for payment to furnish and install fire hydrant	EA	10.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	10.0000	EA	8,039.000	0.00
Southern Underground Industries, INC	10.0000	EA	19,731.220	0.00
FG Construction LLC	10.0000	EA	14,272.470	0.00
ric-man international, inc	10.0000	EA	15,000.000	0.00
Man-Con Inc.	10.0000	EA	200.000	0.00
Lanzo Construction Company	10.0000	EA	9,500.000	0.00

Item	Description	Unit of Measure	Quantity
MILL EXISTING ASPHALT (UP TO 2-I-	Measurement for payment for milling existing asphalt and res	SY	95,000.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	95,000.0000	SY	11.000	0.00
Southern Underground Industries, INC	95,000.0000	SY	13.990	0.00
FG Construction LLC	95,000.0000	SY	11.600	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	95,000.0000	SY	13.000	0.00
Man-Con Inc.	95,000.0000	SY	4.000	0.00
Lanzo Construction Company	95,000.0000	SY	20.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL SPEED HUMP-	Measurement for furnishing and installing speed humps will b	EA	10.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	10.0000	EA	4,856.000	0.00
Southern Underground Industries, INC	10.0000	EA	2,775.270	0.00
FG Construction LLC	10.0000	EA	5,381.320	0.00
ric-man international, inc	10.0000	EA	8,800.000	0.00
Man-Con Inc.	10.0000	EA	12,000.000	0.00
Lanzo Construction Company	10.0000	EA	5,000.000	0.00

Item	Description	Unit of Measure	Quantity
RESTORATION OF DRIVEWAYS/PARKING-	Measurement for payment for restoration of driveways/parking	SY	669.5187

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	669.5187	SY	173.000	0.00
Southern Underground Industries, INC	669.5187	SY	66.890	0.00
FG Construction LLC	669.5187	SY	98.260	0.00
ric-man international, inc	669.5187	SY	110.000	0.00
Man-Con Inc.	669.5187	SY	250.000	0.00

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Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
Lanzo Construction Company	669.5187	SY	150.000	0.00

Item	Description	Unit of Measure	Quantity
RESTORATION OF DRIVEWAYS (CONCRE-	Measurement for payment for restoration of driveways/parking	SY	100.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	100.0000	SY	206.000	0.00
Southern Underground Industries, INC	100.0000	SY	225.360	0.00
FG Construction LLC	100.0000	SY	150.270	0.00
ric-man international, inc	100.0000	SY	310.000	0.00
Man-Con Inc.	100.0000	SY	300.000	0.00
Lanzo Construction Company	100.0000	SY	300.000	0.00

Item	Description	Unit of Measure	Quantity
RESTORATION OF DRIVEWAYS (PAVERS-	Measurement for payment for restoration of driveways/parking	SY	1,000.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1,000.0000	SY	150.000	0.00
Southern Underground Industries, INC	1,000.0000	SY	204.830	0.00
FG Construction LLC	1,000.0000	SY	85.260	0.00
ric-man international, inc	1,000.0000	SY	310.000	0.00
Man-Con Inc.	1,000.0000	SY	257.000	0.00
Lanzo Construction Company	1,000.0000	SY	175.000	0.00

Item	Description	Unit of Measure	Quantity
RESTORATION OF DRIVEWAYS/PARKING-	Measurement for payment for restoration of driveways/parking	SY	3,300.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	3,300.0000	SY	29.000	0.00
Southern Underground Industries, INC	3,300.0000	SY	32.320	0.00
FG Construction LLC	3,300.0000	SY	46.200	0.00
ric-man international, inc	3,300.0000	SY	72.000	0.00
Man-Con Inc.	3,300.0000	SY	16.000	0.00
Lanzo Construction Company	3,300.0000	SY	100.000	0.00

Item	Description	Unit of Measure	Quantity
CLEARING AND GRADING SWALES-	Measurement for payment for clearing and grading swale and o	SY	10,000.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	10,000.0000	SY	32.000	0.00
Southern Underground Industries, INC	10,000.0000	SY	10.030	0.00
FG Construction LLC	10,000.0000	SY	26.230	0.00
ric-man international, inc	10,000.0000	SY	19.000	0.00
Man-Con Inc.	10,000.0000	SY	4.000	0.00
Lanzo Construction Company	10,000.0000	SY	30.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CONCRETE SID-	Measurement for payment for furnishing and installing sidewa	SY	1,800.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1,800.0000	SY	59.000	0.00
Southern Underground Industries, INC	1,800.0000	SY	72.300	0.00
FG Construction LLC	1,800.0000	SY	68.100	0.00
ric-man international, inc	1,800.0000	SY	110.000	0.00
Man-Con Inc.	1,800.0000	SY	132.000	0.00
Lanzo Construction Company	1,800.0000	SY	150.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CONCRETE SID-	Measurement for payment for furnishing and installing sidewa	SY	200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	200.0000	SY	59.000	0.00
Southern Underground Industries, INC	200.0000	SY	98.470	0.00
FG Construction LLC	200.0000	SY	95.910	0.00
ric-man international, inc	200.0000	SY	140.000	0.00
Man-Con Inc.	200.0000	SY	152.000	0.00
Lanzo Construction Company	200.0000	SY	180.000	0.00

Item	Description	Unit of Measure	Quantity
CONSTRUCT TYPE "E", TYPE "F", OR-	Measurement for payment for furnishing and installing curb,	LF	900.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	900.0000	LF	67.000	0.00
Southern Underground Industries, INC	900.0000	LF	46.870	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
FG Construction LLC	900.0000	LF	40.470	0.00
ric-man international, inc	900.0000	LF	83.000	0.00
Man-Con Inc.	900.0000	LF	118.380	0.00
Lanzo Construction Company	900.0000	LF	70.000	0.00

Item	Description	Unit of Measure	Quantity
CONSTRUCT TYPE "A", TYPE "B", OR-	Measurement for payment for furnishing and installing curb,	LF	360.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	360.0000	LF	68.000	0.00
Southern Underground Industries, INC	360.0000	LF	46.760	0.00
FG Construction LLC	360.0000	LF	29.990	0.00
ric-man international, inc	360.0000	LF	78.000	0.00
Man-Con Inc.	360.0000	LF	92.000	0.00
Lanzo Construction Company	360.0000	LF	70.000	0.00

Item	Description	Unit of Measure	Quantity
MODIFY EXISTING GUTTER BEHIND LA-	Measurement for payment for Modify Existing Gutter Behind La	LF	290.4000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	290.4000	LF	110.000	0.00
Southern Underground Industries, INC	290.4000	LF	52.360	0.00
FG Construction LLC	290.4000	LF	60.960	0.00
ric-man international, inc	290.4000	LF	79.000	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
Man-Con Inc.	290.4000	LF	113.000	0.00
Lanzo Construction Company	290.4000	LF	100.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL PAVEMENT MAR-	Measurement for payment for furnishing and installing paveme	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	255,142.000	0.00
Southern Underground Industries, INC	1.0000	LS	259,942.340	0.00
FG Construction LLC	1.0000	LS	240,967.000	0.00
ric-man international, inc	1.0000	LS	351,000.000	0.00
Man-Con Inc.	1.0000	LS	500,000.000	0.00
Lanzo Construction Company	1.0000	LS	75,000.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND REINSTALL MAILBOXES,-	The per unit price for this bid item shall be full compensat	EA	200.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	200.0000	EA	76.000	0.00
Southern Underground Industries, INC	200.0000	EA	1,373.900	0.00
FG Construction LLC	200.0000	EA	64.510	0.00
ric-man international, inc	200.0000	EA	270.000	0.00
Man-Con Inc.	200.0000	EA	100.000	0.00
Lanzo Construction Company	200.0000	EA	350.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL TREE PROTECT-	The lump sum price for this bid item shall be full compensat	LS	1.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	1.0000	LS	200,600.000	0.00
Southern Underground Industries, INC	1.0000	LS	5,302.820	0.00
FG Construction LLC	1.0000	LS	38,476.070	0.00
ric-man international, inc	1.0000	LS	149,000.000	0.00
Man-Con Inc.	1.0000	LS	600,000.000	0.00
Lanzo Construction Company	1.0000	LS	35,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CLUSIA ROSEA-	The unit price for this bid item shall be full compensation	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	1,547.000	0.00
Southern Underground Industries, INC	2.0000	EA	1,949.570	0.00
FG Construction LLC	2.0000	EA	1,007.710	0.00
ric-man international, inc	2.0000	EA	2,100.000	0.00
Man-Con Inc.	2.0000	EA	100.000	0.00
Lanzo Construction Company	2.0000	EA	1,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL BURSERA SIMA-	The unit price for this bid item shall be full compensation	EA	8.0000

continued...

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	8.0000	EA	1,238.000	0.00
Southern Underground Industries, INC	8.0000	EA	1,273.720	0.00
FG Construction LLC	8.0000	EA	885.560	0.00
ric-man international, inc	8.0000	EA	1,400.000	0.00
Man-Con Inc.	8.0000	EA	100.000	0.00
Lanzo Construction Company	8.0000	EA	1,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CONOCARPUS E-	The unit price for this bid item shall be full compensation	EA	12.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	12.0000	EA	1,125.000	0.00
Southern Underground Industries, INC	12.0000	EA	1,832.590	0.00
FG Construction LLC	12.0000	EA	879.450	0.00
ric-man international, inc	12.0000	EA	2,000.000	0.00
Man-Con Inc.	12.0000	EA	100.000	0.00
Lanzo Construction Company	12.0000	EA	1,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL MYRCIANTHES-	The unit price for this bid item shall be full compensation	EA	15.6000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	15.6000	EA	1,196.000	0.00
Southern Underground Industries, INC	15.6000	EA	1,832.590	0.00
FG Construction LLC	15.6000	EA	958.850	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	15.6000	EA	2,000.000	0.00
Man-Con Inc.	15.6000	EA	100.000	0.00
Lanzo Construction Company	15.6000	EA	1,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL QUERCUS VIRG-	The unit price for this bid item shall be full compensation	EA	16.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	16.0000	EA	1,547.000	0.00
Southern Underground Industries, INC	16.0000	EA	2,047.050	0.00
FG Construction LLC	16.0000	EA	1,936.010	0.00
ric-man international, inc	16.0000	EA	2,200.000	0.00
Man-Con Inc.	16.0000	EA	100.000	0.00
Lanzo Construction Company	16.0000	EA	2,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL PTYCHOSPERMA-	The unit price for this bid item shall be full compensation	EA	3.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	3.0000	EA	1,266.000	0.00
Southern Underground Industries, INC	3.0000	EA	2,138.030	0.00
FG Construction LLC	3.0000	EA	848.920	0.00
ric-man international, inc	3.0000	EA	1,400.000	0.00
Man-Con Inc.	3.0000	EA	100.000	0.00
Lanzo Construction Company	3.0000	EA	1,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL ROYSTONEA EL-	The unit price for this bid item shall be full compensation	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	1,969.000	0.00
Southern Underground Industries, INC	2.0000	EA	1,559.650	0.00
FG Construction LLC	2.0000	EA	1,679.500	0.00
ric-man international, inc	2.0000	EA	2,300.000	0.00
Man-Con Inc.	2.0000	EA	100.000	0.00
Lanzo Construction Company	2.0000	EA	2,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL WASHINGTONIA-	The unit price for this bid item shall be full compensation	EA	5.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	5.0000	EA	915.000	0.00
Southern Underground Industries, INC	5.0000	EA	1,559.660	0.00
FG Construction LLC	5.0000	EA	1,160.390	0.00
ric-man international, inc	5.0000	EA	1,700.000	0.00
Man-Con Inc.	5.0000	EA	100.000	0.00
Lanzo Construction Company	5.0000	EA	2,000.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL WODYETIA BIF-	The unit price for this bid item shall be full compensation	EA	2.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	2.0000	EA	1,125.000	0.00
Southern Underground Industries, INC	2.0000	EA	1,559.600	0.00
FG Construction LLC	2.0000	EA	580.190	0.00
ric-man international, inc	2.0000	EA	1,700.000	0.00
Man-Con Inc.	2.0000	EA	100.000	0.00
Lanzo Construction Company	2.0000	EA	1,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL CLUSIA GUTTI-	The unit price for this bid item shall be full compensation	EA	129.6000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	129.6000	EA	30.000	0.00
Southern Underground Industries, INC	129.6000	EA	102.030	0.00
FG Construction LLC	129.6000	EA	26.260	0.00
ric-man international, inc	129.6000	EA	190.000	0.00
Man-Con Inc.	129.6000	EA	55.000	0.00
Lanzo Construction Company	129.6000	EA	200.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL SOD-	The unit price for this item shall be full compensation on a	SY	50,000.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	50,000.0000	SY	10.000	0.00
Southern Underground Industries, INC	50,000.0000	SY	9.390	0.00
FG Construction LLC	50,000.0000	SY	7.650	0.00

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
ric-man international, inc	50,000.0000	SY	27.000	0.00
Man-Con Inc.	50,000.0000	SY	1.000	0.00
Lanzo Construction Company	50,000.0000	SY	20.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND DISPOSE OF EXISTING T-	The unit price for this bid item shall be full compensation	EA	32.4000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	32.4000	EA	1,864.000	0.00
Southern Underground Industries, INC	32.4000	EA	3,119.310	0.00
FG Construction LLC	32.4000	EA	1,923.800	0.00
ric-man international, inc	32.4000	EA	3,200.000	0.00
Man-Con Inc.	32.4000	EA	1,591.000	0.00
Lanzo Construction Company	32.4000	EA	3,500.000	0.00

Item	Description	Unit of Measure	Quantity
REMOVE AND DISPOSE OF EXISTING T-	The unit price for this bid item shall be full compensation	EA	63.6000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	63.6000	EA	317.000	0.00
Southern Underground Industries, INC	63.6000	EA	779.830	0.00
FG Construction LLC	63.6000	EA	1,526.820	0.00
ric-man international, inc	63.6000	EA	800.000	0.00
Man-Con Inc.	63.6000	EA	597.000	0.00
Lanzo Construction Company	63.6000	EA	1,500.000	0.00

Item	Description	Unit of Measure	Quantity
FURNISH AND INSTALL VEGETATION R-	The unit price for this item shall be full compensation on a	LF	120.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	120.0000	LF	43.000	0.00
Southern Underground Industries, INC	120.0000	LF	55.410	0.00
FG Construction LLC	120.0000	LF	33.590	0.00
ric-man international, inc	120.0000	LF	46.000	0.00
Man-Con Inc.	120.0000	LF	35.000	0.00
Lanzo Construction Company	120.0000	LF	25.000	0.00

Item	Description	Unit of Measure	Quantity
EXISTING TREE CANOPY TRIMMING-	Measurement for payment to trim existing tree will be based	EA	312.0000

Responses

Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	312.0000	EA	300.000	0.00
Southern Underground Industries, INC	312.0000	EA	227.450	0.00
FG Construction LLC	312.0000	EA	183.220	0.00
ric-man international, inc	312.0000	EA	240.000	0.00
Man-Con Inc.	312.0000	EA	178.000	0.00
Lanzo Construction Company	312.0000	EA	250.000	0.00

Item	Description	Unit of Measure	Quantity
EXISTING TREE ROOT PRUNING-	The unit price for this item shall be full compensation on a	LF	120.0000

continued...

Responses				
Supplier	Bid Quantity	Unit of Measure	Unit Price	Award Amount
David Mancini and Sons, Inc	120.0000	LF	50.000	0.00
Southern Underground Industries, INC	120.0000	LF	18.200	0.00
FG Construction LLC	120.0000	LF	30.540	0.00
ric-man international, inc	120.0000	LF	19.000	0.00
Man-Con Inc.	120.0000	LF	18.000	0.00
Lanzo Construction Company	120.0000	LF	25.000	0.00

Header Questions And Responses

QUESTION

Did you sign and attach all the Required Forms

Question Responses		
Supplier	Name	Answer
9	David Mancini and Sons, Inc	Yes
399	Southern Underground Industries, INC	Yes
401	FG Construction LLC	Yes
1588	ric-man international, inc	Yes
1618	Man-Con Inc.	Yes
1714	Lanzo Construction Company	Yes

QUESTION

The attached Anti-Human Trafficking Affidavit will be requested by the City from the awarded Bidder. This is an exhibit only and is not needed as part of your initial bid response.

Question Responses		
Supplier	Name	Answer
9	David Mancini and Sons, Inc	Yes
399	Southern Underground Industries, INC	Yes
401	FG Construction LLC	Yes
1588	ric-man international, inc	No
1618	Man-Con Inc.	Yes
1714	Lanzo Construction Company	Yes

Contacts

Name	Email
PAULETTE HEMMINGS TURNER	pturner@fortlauderdale.gov

Q And A

Supplier	Question	Answer
JVA Engineering Contractor, Inc	Is an engineer's estimate available ?	Engineer's estimate is approximately $44M.
FG Construction LLC	What is the goal for minority participation(CBE/DBE/MWBE)?	Please refer to page A-9 - Exhibit 1 WIFIA PROGRAM BORROWER GUIDE TO FEDERAL REQUIREMENTS
CC Control Corp	Please confirm the Pump Station Control Panel LCP-SS10 is to utilize a Bubbler System and not the Vegapuls used on other stations.	Yes, the Pump Station Control Panel LCP-SS10 is to utilize a bubbler level system. The use of radar sensors such as the Vegapuls, which have been implemented on other stations, is not intended for this installation. This design direction reflects the City’s current preference and specific request for bubbler systems in stormwater applications.

continued...

Supplier	Question	Answer
Lanzo Construction Company	Contract Payment Method: Is the City's Procurement Card (P-Card) Program a requirement for this project? If so, what is the P-Card Fee percentage? Please let us know. Thanks.	P-Card program is not a requirement for this project.
Home Express Corp. dba HE-Builders	Could you please provide the estimated budget for the referenced project?	Engineer's estimate is approximately $44M

Supplier	Question	Answer
Warrior USA	Will the City consider alternative methods of Trenchless Rehabilitation? the project currently has Cure in Place liners specified. Thermoform liner is a Styrene free structural PVC liner available from 4" - 48" in dia.	The Contract Documents currently specify cured-in-place pipe (CIPP) as the trenchless rehabilitation method. However, in accordance with the General Condition: GC-03 - Substitutions, the City may consider alternative methods or materials, such as the proposed Thermoform liner, provided that a formal written substitution request is submitted. In addition to the requirements outlined in GC-03, the substitution request shall include a summary of the potential benefits to the City associated with the proposed alternative. For your convenience, we have included the relevant excerpts below: “GC - 03 - SUBSTITUTIONS - If the Contractor desires to use materials and/or products of manufacturer's names different from those specified in the Contract Documents, the Bidder requesting the substitution shall make written application as described herein. The burden of proving the equality of the proposed substitution rests on the Contractor making the request. To be acceptable, the proposed substitution shall meet or exceed all expressed requirements of the Contract Documents and shall be submitted upon the Contractor's letterhead. The following requirements shall be met in order for the substitution to be considered: 1.Requests for substitution shall be accompanied by such technical data, as the party making the request desires to submit. The Project Manager will consider reports from reputable independent testing laboratories, verified experience records from previous users and other written information valid in the circumstances; and 2.Requests for substitution shall completely and clearly indicate in what respects the materials and/or products differ from those indicated in the Contract Documents; and 3.Requests for substitution shall be accompanied by the manufacturer's printed recommendations clearly describing the installation, use and care, as applicable, of the proposed substitutions; and

Supplier	Question	Answer
		4.Requests for substitution shall be accompanied by a complete schedule of changes in the Contract Documents, if any, which must be made to permit the use of the proposed substitution.
ric-man international, inc	does the city have a bid bond form for prime contractor to use? or will a standard AIA acceptable?	The Standard AIA form is acceptable.
Arcadis US, Inc.	Would the City issue a separate RFQ for Construction Engineering and Inspection (CEI) services for this project given the magnitude and cost of it?	The City has Construction Engineering and Inspection (CEI) services for this project.
Insituform Technologies, LLC	1.) CIPP specifications require calculations to be stamped by a P.E. registered in the State of Delaware. Please confirm that this should be the State of Florida.	The required calculations shall be signed and sealed by a Professional Engineer registered in the State of Florida.
Insituform Technologies, LLC	Can the Owner please identify a location for the disposal of sand/debris from the pipe cleaning operations?	Prior to any pipe cleaning activities, the awarded Contractor will need to submit a disposal plan for any removed sand and debris for review and approval by the City.
Insituform Technologies, LLC	Standard test parameters identified in ASTM 1216 for pipe diameters greater than typically 12" will use plate samples instead of PVC samples. Please confirm that this is acceptable for the project sampling of installed CIPP.	Confirmed. Plate samples will be acceptable for pipe diameters greater than 12-inch.
Magnum Construction Management, LLC d/b/a MCM	Due to the size of this project and the upcoming July 4th Holiday, please consider extending the bid due date by at least two weeks.	The City is not considering extending the bid due date at this time. The July 4th holiday was taken in consideration when the solicitation was posted.

Supplier	Question	Answer
Vortex Services, LLC.	Would the owner consider Quadex GeoKrete an approved lining system for pipe diameters 36in and above in lieu of CIPP? https://vortexcompanies.com/services/geopolymer-pipe-lining/	Question Would the owner consider Quadex GeoKrete an approved lining system for pipe diameters 36in and above in lieu of CIPP? https://vortexcompanies.com/services/geopolymer-pipe-lining/ Response In accordance with the General Condition: GC-03 - Substitutions, the City may consider alternative methods or materials, provided that a formal written substitution request is submitted. In addition to the requirements outlined in GC-03, the substitution request shall include a summary of the potential benefits to the City associated with the proposed alternative. For your convenience, we have included the relevant excerpts below: “GC - 03 - SUBSTITUTIONS - If the Contractor desires to use materials and/or products of manufacturer's names different from those specified in the Contract Documents, the Bidder requesting the substitution shall make written application as described herein. The burden of proving the equality of the proposed substitution rests on the Contractor making the request. To be acceptable, the proposed substitution shall meet or exceed all expressed requirements of the Contract Documents and shall be submitted upon the Contractor's letterhead. The following requirements shall be met in order for the substitution to be considered: 1.Requests for substitution shall be accompanied by such technical data, as the party making the request desires to submit. The Project Manager will consider reports from reputable independent testing laboratories, verified experience records from previous users and other written information valid in the circumstances; and 2.Requests for substitution shall completely and clearly indicate in what respects the materials and/or products differ from those indicated in the Contract Documents; and 3.Requests for substitution shall be accompanied by the manufacturer's printed recommendations clearly describing the installation, use and care, as applicable, of

Supplier	Question	Answer
		the proposed substitutions; and 4.Requests for substitution shall be accompanied by a complete schedule of changes in the Contract Documents, if any, which must be made to permit the use of the proposed substitution.
ric-man international, inc	Are there any existing Asbestos pipes within the work area of this project	Please refer to Note 10 on Sheets ED-01 through ED-22 of the Plans.
ric-man international, inc	Are there any known existing contamination within the vicinity of the work on this project?	Please refer to Sheet GN-06 of the Plans for a map identifying contaminated sites in the vicinity of the project area.
ric-man international, inc	What is the anticipated award date for this project?	The estimated award date is fourth quarter 2025.
ric-man international, inc	What is the anticipated start date for construction?	Construction start date is contingent upon contract award date, procurement of contractor permits required for construction activities, approvals of construction schedule, and other factors impacting start of construction.
ric-man international, inc	Is there any known construction with other contractors within this project that may impact the work on this contract? If so: a.Where is the work involved? b.What type of work is it? c.What are the dates anticipated?	Refer to Section 01001, Paragraph 2.03 of the Technical Specifications.
ric-man international, inc	Is there any tree removal required in this project?	Tree removal and associated permitting will be required as part of the Work. Please refer to the Tree Disposition (TD-01 – TD-22), Tree Inventory (TI-01 – TI-08), and Landscape Restoration (LA-01 – LA-25) Sheets as well as Section 02481 of the Technical Specifications.
ric-man international, inc	Is there any Owner or Utility companies work planned in the project boundaries.	Refer to Section 01001, Paragraph 2.03 of the Technical Specifications.
ric-man international, inc	What is the procedure and fees if any for obtaining water for testing and construction use?	Please refer to Section 01510, Paragraph 1.03 of the Technical Specifications and GC -31 of the Contract.
ric-man international, inc	Will you be providing payment for stored materials?	Please refer to Section 01025, Paragraph 1.05 of the Technical Specifications.
ric-man international, inc	Are there any materials to be furnished by the City?	No. All materials required for the completion of the Work shall be furnished by the Contractor unless specifically noted otherwise in the Contract Documents

Supplier	Question	Answer
ric-man international, inc	Any vibration Monitoring requirements in specs?	Vibration and noise monitoring is required for this project. Refer to Addendum No. 2, Section 02314 Paragraph 1.01A for a revised description.
ric-man international, inc	Are there any fees/bonds DUE from BWD Traffic Engineering?	There are no fees or bonds are anticipated from Broward County Traffic Engineering Division. However, please refer to Section 01025 Paragraph 1.06 C for the Permits, License, and Fees Allowance account which shall be full compensation for all permits, licenses and fees required of the Contractor from the various agencies having jurisdiction over the construction of the project.
ric-man international, inc	Are there any schools within the within or impacting this project?	It is the Contractor's responsibility to familiarize itself with the project conditions prior to bidding. Refer to Addendum No. 2, Sheet No. DT-01 and No. DT-02 were revised to include Details GNRL 004, 005, and 007 for FDOT School and Broward County School maintenance of traffic requirements.
ric-man international, inc	PDF page 494 & 497 of part 1 of the specs MENTION Field Office. Is a field office mandatory?	Section 01590 of the Technical Specifications requires the Contractor to furnish and install a field office for the Engineer.
Man-Con Inc.	Is the City providing a designated staging area for contractor use within the project limits? If so, please share the location or address.	The City has not designated a staging area for this project. The contractor is responsible for submitting a staging plan for the approval of the City. Refer to Section 02015 and Addendum No. 2.

Supplier	Question	Answer
Man-Con Inc.	If we are unable to meet the specific experience requirements listed in Section 0.8 of the Special Conditions, may we still be considered for the award?	"Section 'Special Condition,' Subsection 8 is clear and specific: the required expertise outlined therein must be submitted for the application to be considered. Special Conditions - Subsection 8 "The following expertise is required to be considered for this Contract. Specific references attesting to this expertise must be submitted with the bid response. The contractor shall have previous construction experience in constructing: stormwater drainage pipe ranging from 12 inches to 42 inches, cured in place pipe (CIPP) lining, and water & sewer main pipe installation ranging from 6 inches to 12 inches in the State of Florida within the last five (5) years. Bidder shall submit proof of construction experience for a minimum of three (3) projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by Contractor; and client's name, address, telephone number and e-mail address"
Man-Con Inc.	Please confirm that the project is subject to Build America, Buy America (BABA) requirements in addition to AIS, as outlined in Exhibit 1 – WIFIA Program Borrower Guide to Federal Requirements.	All bidders are required to conform to the requirements of Exhibit 1 - WIFIA Program Borrower Guide to Federal Requirements
Man-Con Inc.	Question attached.	Question: Please confirm the CEI firm assigned to this project. If the information is not yet available, could you provide a list of potential candidates under consideration, as certain firms require additional management-related costs to meet the required expectations? Response: This information will be released to the awarded vendor.

Supplier	Question	Answer
Man-Con Inc.	Questions Attached.	Question: Since allowance accounts are included in the executed contract's Schedule of Values, they should be eligible for bond and insurance markup. Please clarify the City's preference regarding these costs: Would the City prefer that the contractor apply bond and insurance costs proportionally to each reimbursement invoice billed against the allowance items, or should the contractor carry the full bond and insurance costs for the total allowance amount—regardless of whether the full amount is utilized—as part of the bidder's General Conditions Response: Response to be submitted via upcoming addendum. Question: Section 0.8 of the Special Conditions outlines the requirement to demonstrate construction experience on at least three (3) projects of similar scope and scale within the last five (5) years. For clarification, can the City confirm that the evaluation of "scope and scale" will be based specifically on factors such as pipe size, total linear footage installed, and overall contract value? Response: Please refer to Addendum 2. Question: All outfall locations requiring CIPP lining will require cofferdams or other temporary dewatering measures to facilitate the lining operations. Is there a specific bid item designated for this work, or should contractors include these costs under the general lining or incidental items? Response: Section 01025, Item 40 and 41 have been revised. Refer to Addendum No. 2. Question: Based on the soil borings, it appears that much of the proposed drainage improvements will extend below the existing muck strata. Will the City provide separate bid items for muck removal, disposal, import clean fill, and special bedding/pipe foundation? Or should contractors assume these costs are incidental to the pipe installation

Supplier	Question	Answer
		and include them within the applicable bid items? Response: Refer to Section 02222, Paragraph 3.08 B. In addition, Section 01025 details bid items for drainage improvements. Bid items include removing and disposing of all materials (including unsuitable) and providing pipe bedding. Please refer to Addendum No. 2.
JVA Engineering Contractor, Inc	The specifications reference an allowance account for contaminated Soil and groundwater but it's not listed in the bid items. Do you have an estimated quantity and an amount for the line item?	Please refer to Section - Special Conditions, Subsection 09. Bid Allowance. Contaminated Soil and/ or Groundwater Services is not a line item, awarded vendor will be reimbursed per Section - Special Conditions, subsection - 09 Bid Allowance if the services is provided.
JVA Engineering Contractor, Inc	The specifications reference multiple allowance accounts but they are not listed in the line items. What are the quantities and amount for each line item ?	Please refer to Section - Special Conditions, Subsection 09. Bid Allowance. The allowances are not a line item, awarded vendor will be reimbursed per Section - Special Conditions, subsection - 09 Bid Allowance if the services are provided.
Lanzo Construction Company	Please confirm if furnish & install of all Lighting & Electrical Poles at the Pump Station Site will be paid under Pay Item #7	FPL power pole to be installed by FPL. Site lighting, including light poles, shall be furnished and installed by Contractor and shall be paid for under Pay Item No. 7.
Lanzo Construction Company	Pay Item #66: Please confirm if 2" Asphalt Milling is being resurfaced with 1" only. If so, the associated Trench Patch for Pipeline Install should also be 1" lower to match the Resurfacing depth. Please provide us with a clarification.	Item #66 states milling up to 2-inches, but can be less. Flexibility is provided to achieve proposed grades where applicable, always meeting asphalt thickness requirements per asphalt restoration details.

Supplier	Question	Answer
Man-Con Inc.	Questions attached.	In the future, please upload each question individually rather than in a file. Responses in order as questions: 1. A dewatering plan approval has been requested to Broward County RED and the review process is ongoing as a measure of expediting the permit process. Payment for all bid items shall include dewatering per Section 01025, Paragraph 1.01D. Refer to revised Section 01025, Paragraph 1.06C, 3 per Addendum No. 4 for compensation for environmental containment measures should the results of laboratory sampling indicate contaminated groundwater. 2. Section 01025, Item 46, 48 and 49 regarding heavy desilt/water jetting and CCTV of existing outfall drainage pipe and existing drainage pipe have been revised per Addendum No. 4. For heavy desilting, Contractor shall assume existing drainage pipes are up to 70% full of silt and debris. 3. Refer to Tree Canopy Pruning Notes on Sheet TD-21. 4. Permitting is currently in progress. All permits are anticipated to be procured prior to Contractor's Notice to Proceed. 5. The Contract Documents do not dictate the Contractor's means and methods. Refer to Section 02369. 6. Refer to Sheet 7, Note 3 stating: "Contractor shall assume possible presence of limestone at site and that no additional costs shall be incurred by the City resulting in sheet pile installation in limestone." Refer to Section 01025, Paragraph 1.03C, Item 8. Item 8 is a complete unit price cost for installation of the cantilever steel sheet pile wall with concrete cap. Refer to Section 02369, Paragraph 3.02 for additional requirements if rock is encountered, at no additional cost to the City. 7. Refer to Section 09900, Paragraph 3.01C and Paragraph 3.03J.

Supplier	Question	Answer
		8. Sheet No. S-07 includes a note stating: "Remove existing footing toe as required and install new panel directly in front of existing wall toe." Additionally, Sheet No. S-07 includes a note stating: "Existing seawall to be modified as needed to remain in place. Actual conditions will vary." Refer to Section 01025, Paragraph 1.03C, Item 8. Item 8 includes removal and disposal of existing seawall in accordance with Contract Documents.
ric-man international, inc	Could you please indicate the markup allowed under the change order for subcontractors?	Please refer to Construction Agreement (Sample), Article 14 – Change of Contract
ric-man international, inc	Can the CIPP experience be supplemented by a subcontractor?	Yes. CIPP experience can be supplemented by a subcontractor.
ric-man international, inc	Provided the City is receiving grant monies, please confirm this waives the local preference.	Local Preference is not a requirement for this project.
ric-man international, inc	Items 40 and 41 require the CIPP of existing drainage. Are there existing videos of the pipe condition? We assume the integrity of the outfalls is sound.	Refer to section 01025, Items 46 to 49 for CCTV as part of evaluating the conditions of existing drainage system. Also refer to section 02723.
ric-man international, inc	The technical specifications require laser profiling for flexible pipes as part of the final inspection. Since none of the proposed improvements include flexible pipes, please confirm that the laser profile is not required.	Laser profile is required as described on Section 02630, paragraph 3.08.C. Rigid pipe (RCP) does not require a laser profile.
ric-man international, inc	Is the existing gravity sewer lined?	Condition of existing gravity sewer is unknown.
ric-man international, inc	There are several sewer laterals crossings. Can a line item be created for the replacement?	Refer to Note 25 of Drawing GN-04. In addition, refer to Section 01025, Item 64.
ric-man international, inc	There are some big trees in the project (i.e., SD-13) that contradict the root protection detail. What would be required from the contractor on these conflicts?	Refer to Tree Disposition and Pruning Notes on Sheet TD-21 of the Contract Documents.
Lanzo Construction Company	Pay Item #54: Please provide us with a Pipe Restraint Table to follow for Restraining Existing Water Main of various sizes.	Refer to restraining joint details on the revised sheet DT-16. Refer to Addendum No. 4.
Man-Con Inc.	Please ensure that all previously uploaded PDF attachments with unanswered questions are answered.	All unanswered questions are being addressed by the City.

Supplier	Question	Answer
Lanzo Construction Company	Please provide details for Existing Outfalls to be cleaned, televised and CIPP Lined.	Refer to the solicitation documents for all available information for size and material of existing outfall. As a general example, see notes regarding Outfall #3 on drawing page SD-16, Sheet 47. Additional similar information is found throughout the solicitation documents.
Lanzo Construction Company	Please Confirm if Full Lane Roadway Restoration is proposed for Parallel Installation and 8' Wide when crossing Roadway. As mentioned in Details: Road 001 & 002.	Refer to Paving and Grading Sheets PG-00 - PG 30. Refer to Addendum No. 4 for revised PG-06.