PUMP STATION D-31 DEVELOPMENT AGREEMENT

This DEVELOPMENT AGREEMENT ("Agreement") is made to be effective as of _____ (the "Effective Date"), by and between CITY OF FORT LAUDERDALE, a municipal corporation of the State of Florida ("City"), whose address is 100 North Andrews Avenue, Fort Lauderdale, Florida 33313 and LAS OLAS SMI, LLC, a Delaware limited liability company authorized to do business in the State of Florida ("Developer"), whose address is c/o Suntex Marina Investors LLC, 17330 Preston Road, Suite 220A, Dallas, Texas 75252, as follows:

ARTICLE 1 APPOINTMENT AND TERM

Section 1.1 <u>Appointment</u>. On August 23, 2016, Developer's affiliate, Suntex Marina Investors LLC ("SMI"), was the sole bidder in response to the City's RFP #264-11791 for the lease, management and development of that certain marina commonly known as the Las Olas Marina (the "Marina Property"), and pursuant to City Resolutions, including Resolution No. 16-180, the City Commission selected SMI's proposal in connection with such development. In connection therewith, City engages Developer to develop, on behalf of the City, the upgrade of that certain existing "City of Fort Lauderdale D-31 Pump Station" (the "Pump Station") which is located on the Marina Property currently leased by Developer pursuant to that certain Ground Lease Agreement dated April 30, 2018, as amended from time-to-time (collectively the "Lease"). Developer's Final Completion (as defined in Section 2.8) of this Agreement shall be a condition precedent to the Commencement Date of the Lease.

Section 1.2 **Defined Terms**.

Capitalized terms used herein and not otherwise defined shall have the meanings ascribed to such terms in the Lease.

- (a) "Project" shall mean the excavation of a new wet well; demolition of the existing Pump Station; design and installation of the new pump station equipment, pumps, controls, generator, air filtration systems, and other equipment as required by City's design and operational criteria; and, upgrades to the water, sewer and other utility connection lines connected thereto and design drawings necessary in connection therewith.
- (b) "Parties" shall mean Developer and City, collectively.
- (c) "*Term*" shall mean period of time from the date the development of the Project commences, which shall be such time as Developer receives all applicable necessary and required governmental approvals and authorizations, and ending upon Final Completion of the Project, unless this Agreement is terminated earlier pursuant to the terms and conditions herein.

Section 1.3 <u>Independent Contractor</u>. City engages Developer, due to its direct involvement in the Las Olas Marina project, as an independent contractor to provide development services related to the design and construction of the Project. Developer shall be responsible for providing the development services in accordance with the standards set forth in this Agreement. Developer's authority to act on behalf of City is strictly limited to that expressly delegated herein. Nothing herein shall be construed to imply a joint venture, partnership, ownership, or participation by Developer in the Project after Final Completion.

Section 1.4 <u>Construction Manager At Risk</u>. Developer shall engage a third-party construction manager at risk, who will be a licensed Florida contractor or otherwise meets any required legal and/or regulatory qualifications, to perform the actual design and construction.

ARTICLE 2 DEVELOPMENT

- Section 2.1 <u>Approved Plans and Specifications.</u> Developer has submitted to City, and City hereby acknowledges and agrees that the City has reviewed, approved, and confirmed (or taken all steps required to approve and confirm) that certain development plan prepared by Kimley-Horn and Associates, Inc., dated August 7, 2020 (the "*Approved Development Plan*"), which Approved Development Plan includes the plans and specifications ("*Approved Plans and Specifications*") for the Project setting forth a description of the proposed improvements to be included in the Project. The Plans and Specifications are attached as Exhibit A, which have been reviewed and approved by the City's Building Department (ENG-SEW-20020008).
- Section 2.2 <u>Budget</u>. The costs to develop, construct and deliver the Approved Development Plan, including hard costs, soft costs, costs of oversight of general conditions and general requirements and other expenditures anticipated to be incurred in connection with developing the Project, including but not limited to all funds necessary to pay construction costs, material, labor, design, professional fees, equipment, water/sewer studies, contractor overhead and expenses as well as any bonding, permit fees, financing costs, taxes, and insurance premiums (collectively, the "*Project Costs*"), are estimated (but not guaranteed) to be two million and nine hundred thousand dollars (\$2,900,000) ("*Budget*"), is attached as Exhibit B.
- Section 2.3 <u>Funds for Construction</u>. In connection with its obligations under the Lease and for the benefit of utilizing the completed Project, Developer agrees to contribute an amount up to and not to exceed four hundred thousand dollars (\$400,000) toward the Project Costs that are included in the Budget ("*Developer Contribution*"). City agrees to contribute an amount up to and not to exceed two million five hundred thousand dollars (\$2,500,000) ("*City Contribution*" and together with Developer Contribution, the "*Total Contribution*"). The Developer Contribution is not to be deemed or construed in any way as a joint venture, partnership, ownership, or participation in the Project.
- Section 2.4 <u>Construction Cost Overages</u>. City and Developer shall evenly split on a pay-as-you-go basis for Project Costs in excess of the Budget up to two hundred and fifty thousand dollars (\$250,000) (or one hundred and twenty five thousand dollars per party) ("*Overage Cap*"). All costs in excess of the Budget need to be approved by the City in advance of being expended. In the event the Project Costs exceed the Overage Cap, the Parties shall meet and negotiate in good faith to resolve any issues, which may be subject to and require City Commission approval, including but not limited to the payment of all Project Costs in excess of the Overage Cap. The City shall be solely responsible for any City requested, non-regulatory, modifications which result in increases to the Project Costs in excess of the Budget created by a change from the Approved Development Plan.
- Section 2.5 <u>Other Services</u>. Developer shall provide the following additional services during the period prior to commencement of construction of the Project:
 - (a) Provide City with a monthly progress report at the end of each month (the "*Project Schedule*").
 - (b) Provide business administration and supervision consistent with good construction practices and as may be required for the Project.

- (c) The Parties will work together to obtain all necessary public, including but not limited to all permits required, for the Project, including any State of Florida or ground lessor approvals, city planning, applicable building codes, public works, and building permit approvals. All such applications shall be completed by Developer in the name of City and processed by Developer.
- Section 2.6 <u>Project Administration</u>. During construction of the Project, Developer shall exercise general management of the Project's construction and in connection therewith shall, without limiting the generality of the foregoing, perform the following duties in respect of the Project:
 - (a) Determine, upon receipt of an application for payment from the General Contractor, subject to approval by Engineer, the amount due the General Contractor under the General Contract and review and request from payment from the City.
 - (b) Obtain from the General Contractor all required lien waivers and all other documentation as provided for herein, in the General Contract, and under the provisions of the Florida Construction Lien Law (F.S. Sects. 713.001-713.37).
 - (c) Assist in preparing such reports as may be required of the General Contractor on the progress of construction, which reports shall not be required more frequently than once per month.
 - (d) Maintain construction accounts for the Project.
 - (e) Coordinate the installation of the utilities with the appropriate utility companies.
 - (f) Provide monthly progress pay applications to the City.
- Section 2.7 **Bonds**. If City's building department so requires, City shall cause the Construction Bond described in Section 25-112 of the City of Fort Lauderdale Code of Ordinances to be deposited with the city engineer, with the premium for the bond to be payable directly by the Developer as part of the approved Budget.
- Section 2.8 <u>Final Completion</u>. For purposes of this Agreement, the "*Final Completion*" of the Project shall be deemed to have occurred on the date when the new pump station facility is operational, all regulatory agencies have approved final inspections and all submittals required hereunder have been delivered, including copies of all transferable warranties. The Parties agree that Developer will cease providing its services upon Final Completion, with the exception of the obligations identified in Section 2.10. Developer's final completion shall be a condition precedent to occupancy of the Leased Premises and to the receipt of either a temporary certificate of occupancy or a final certificate of occupancy.
- Section 2.9 <u>Ownership and Operation of the Project</u>. The Project shall be solely owned and operated by City. After Final Completion, Developer shall provide a one (1) year warranty limited to construction and design defects (and specifically excluding any maintenance or repairs or issues necessitated by wear and tear). Except for Developer's obligations in connection with such one (1) year warranty period, City will be solely and fully responsible for the complete and full operation, maintenance, and repairs of the Project and Developer shall have no further obligations relating to the Project after Final Completion.
- Section 2.10 <u>Developer's Services.</u> Developer will hire appropriately licensed third parties to develop and construct the Project and will manage, supervise and coordinate the licensed third parties as

needed to effectuate a complete code and permit compliant Project (the "Services"). Developer's obligations, responsibilities and duties under this Agreement do not include, and Developer is not itself preparing, any design or engineering plans or specifications, or performing any of the construction or directly furnishing any of the materials required for the Project. Developer has engaged and designated Kimley-Horn and Associates, Inc. ("Engineer") as the engineer of record for the Project. Developer will engage Straticon, LLC or another licensed Florida contractor (the "General Contractor") as the general contractor and for the Project. Developer will enter into a separate construction agreement (the "General Contract") with the General Contractor.

Section 2.11 <u>Limitation of Developer's Liability</u>. Developer and Developer's direct and indirect shareholders, affiliates, members, managers, officers, directors, and employees ("*Related Parties*") entire liability under this Agreement shall be limited to and shall not exceed the amount of the Total Contribution.

Section 2.12 <u>Deemed Approval by City.</u> Whenever Developer shall be required under the terms of this Agreement to obtain the approval of City with respect to a matter, City shall be deemed to have approved such matter if City fails to send Developer written notice of City's disapproval of such matter within fifteen (15) business days after the date of Developer's written request to City for seeking City's approval or consent. This section does not apply to questions or issues pertaining to the City's permitting process or regulatory requirements that have a defined application, submission, and license/permit issuance process.

ARTICLE 3 CONSTRUCTION FUNDS

Section 3.1 **Project Costs.** Developer will provide pay applications (each, a "**Payment Application**") that must be complete for City approval and include all reasonably requested supporting documentation. The City reserves the right to reject incomplete Payment Applications before making any payments for the Project. Developer shall not submit a Payment Application more frequently than once every month and the City will remit payment in accordance with the Florida Prompt Payment Act.

ARTICLE 4 REMEDIES

Section 4.1 **City Default.** Upon a failure by City to pay any amounts or monetary obligations due and owing to Developer which is not cured within sixty (60) days following receipt of written notice by Developer specifying such default, Developer may, in its sole discretion, (i) elect to suspend/stop all Developer obligations hereunder until such outstanding obligations are paid, or (ii) elect to offset all, or part of, Developer's obligations owing to City under the Lease, and such election shall not be deemed an event of default under the Lease by City nor shall such election prevent or prohibit Developer from seeking any and all other remedies to which it may be entitled to in equity or at law. Upon a breach of City's representations and warranties set forth in Section 5.2 below, Developer may, in its sole discretion, elect to suspend/stop all Developer obligations hereunder until such breach is cured, and such election shall not prevent or prohibit Developer from seeking any and all other remedies to which it may be entitled to in equity or at law. Further, if Developer is unable to or fails to, for a reason beyond Developer's control to obtain: (i) any and all information required for applications related to the Project; or (ii) any required permits for the Project; or (iii) any and all necessary and required consents and approvals from any governmental agency with authority over the Project, including without limitation consents or approvals related to the permitting process or technical aspects related to any municipal, county, or other governmental agency regulatory requirements for the Project, Developer may, in its sole discretion elect to suspend/stop all Developer obligations hereunder.

Section 4.2 <u>No Waiver.</u> No delay or omission of the non-defaulting party to exercise any right or remedy accruing upon the occurrence of a default or breach hereunder shall impair any such right or remedy, nor shall any such delay or omission be construed to be a waiver of any such right or remedy. The non-defaulting party may waive any right or remedy available to it upon the occurrence of a default, but no such waiver shall extend to or affect the rights or remedies of the non-defaulting party with respect to any other existing or subsequent defaults.

ARTICLE 5 REPRESENTATIONS AND WARRANTIES

- Section 5.1 <u>Developer's Representations and Warranties</u>. Developer hereby represents and warrants to City as of the date hereof:
 - (a) That Developer is duly organized and validly existing in the State of Delaware and in good standing under the laws of and is authorized to conduct business in the State of Florida. Developer has full power and authority to execute, deliver and carry out the terms and provisions of this Agreement and has taken all necessary action to authorize the execution, delivery and performance of this Agreement, and this Agreement constitutes the legal, valid and binding obligation of Developer enforceable in accordance with its terms, subject to creditor's rights, bankruptcy and any other equitable principles.
 - (b) That Developer shall comply with all insurance requirements set forth in the General Contract and/or the contract with the Engineer.
- Section 5.2 <u>City's Representations and Warranties</u>. City hereby represents and warrants to Developer as of the date hereof:
 - (a) The Approved Development Plan and the Approved Plans and Specifications have been reviewed and approved by all applicable building construction divisions within the City.
 - (b) The City, through CAM 21-0035 has waived the City's procurement and bidding requirements for this Agreement.
 - (c) This Agreement and the Approved Development Plan and the Approved Specifications and Plans shall comply with all applicable statutes, laws, ordinances and rules.

ARTICLE 6 MISCELLANEOUS PROVISIONS

- Section 6.1 <u>Notices</u>. All notices given hereunder shall be made in writing and given to the addressee at the address specified below Notices may be given by certified mail, return receipt requested, by overnight delivery, or by electronic delivery, or by hand delivery, and shall be effective upon receipt at the address of the addressee.
- Section 6.2 <u>Assignment</u>. Developer may assign all of its right, title and interest in and to this Agreement to any affiliate of Developer without the consent of City; provided that such affiliate is not on the Scrutinized Companies list pursuant to Florida law as further defined in Section 6.9.
- Section 6.3 No Third-Party Beneficiaries. This Agreement is solely for the benefit of the parties hereto and their successors and permitted assigns. No other person shall be deemed to be a third-

party beneficiary of this Agreement or any provision hereof or shall be entitled to enforce any rights hereunder or with respect hereto.

- Section 6.4 <u>Relationship Between Parties</u>. The relationship of the Parties shall be limited to the Services. Nothing herein shall be deemed to create a partnership or joint venture between the Parties hereto, nor to authorize either of the Parties hereto to act as general agent for the other party. Neither of the Parties hereto shall have the power to borrow money or incur debt on behalf of or in the name of the other party hereto or to use or commit the credit of the other party hereto for any purpose, except as specifically set forth herein.
- Section 6.5 **Force Majeure Events**. Except for obligations regarding the payment of money and the maintenance of insurance, whenever a period of time is herein prescribed for action to be taken by City or Developer, neither party shall be liable or responsible for, and there shall be excluded from the computation for any such period of time, any delays due to Force Majeure Events. For purposes hereof, Force Majeure Events shall consist of major incident of inclement weather (including tornado or hurricane), or hostile governmental action, civil commotion, or fire or other casualty, or any other circumstance beyond the reasonable control of City or Developer, as the case may be. If the work shall be stopped or delayed for a period of thirty (30) days or more by City or any other public or governmental authority under the control of City, it shall be deemed a Force Majeure Event.
- Section 6.6 Conflicts; Entire Agreement; Headings. This Agreement represents the entire Agreement between City and Developer with regard to project management services related to the development of the Project and all prior agreements are superseded hereby. In the event of a conflict between the provisions of this Agreement and the Lease, this Agreement shall control. The headings and captions of various paragraphs of this Agreement are for convenience of reference only and are not to be construed as defining or limiting, in any way, the scope or intent of the provisions hereof.
- Section 6.7 <u>Governing Law and Waiver of Jury Trial</u>. This Agreement shall be governed and construed in accordance with the laws of the State of Florida with venue in Broward County, Florida. THE PARTIES EXPRESSLY AGREE TO WAIVE A TRIAL BY JURY ON ALL ISSUES SO TRIABLE RELATED TO THIS AGREEMENT.
- Section 6.8 Attorney Fees. The prevailing party in any litigation shall be entitled to recover all reasonable costs and expenses incurred to enforce this Agreement, determine the duties, obligations or liabilities of the parties under this Agreement, or concerning the meaning, interpretation or enforceability of any provision contained in this Agreement, including reasonable attorneys' expenses, whether incurred during trial or on appeal. For purposes of this Section 6.8, a party will be considered to be the "prevailing party" if: (i) such party initiated the litigation and substantially obtained the relief which it sought (whether by judgment, voluntary agreement or action of the other party, trial or alternative dispute resolution process); (ii) such party did not initiate the litigation and either (A) received a judgment in its favor, or (B) did not receive judgment in its favor, but the party receiving the judgment did not substantially obtain the relief which it sought; or (iii) the other party to the litigation withdrew its claim or action without having substantially received the relief which it was seeking.
- Section 6.9 <u>Scrutinized Companies.</u> Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed, Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Developer certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2020), as may be amended or revised, and that it is not engaged in a boycott of Israel, and that it does not have business operations in

Cuba or Syria, as provided in Section 287.135, Florida Statutes (2020), as may be amended or revised. The City may terminate this Agreement at the City's option if the Developer is found to have submitted a false certification as provided under subsection (5) of Section 287.135, Florida Statutes (2020), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2020), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2020), as may be amended or revised.

Section 6.10 Public Records. IF THE DEVELOPER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE DEVELOPER'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY CLERK'S OFFICE, 100 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301; PHONE: (954) 828-5002; EMAIL: PRRCONTRACT@FORTLAUDERDALE.GOV.

Developer shall:

- 1. Keep and maintain public records that ordinarily and necessarily would be required by the City in order to perform the service.
- 2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2020), as may be amended or revised, or as otherwise provided by law.
- 3. Ensure that public records, kept and maintained by Developer, that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Term if the Developer does not transfer the records to the City.
- 4. Upon completion of this Agreement, transfer, at no cost, to the City all public records in possession of the Developer or keep and maintain public records required by the City to perform the Services. If the Developer transfers all public records to the City upon completion of this Agreement, the Developer shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Developer keeps and maintains public records upon completion of this Agreement, the Developer shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

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EXECUTED to be effective as of the Effective Date set forth above.

CITY OF FORT LAUDERDALE,

a municipal corporation of the State of Florida

By:
Christopher J. Lagerbloom
City Manager
Date:
ATTEST:
By:
APPROVED AS TO FORM: ALAIN E. BOILEAU, CITY ATTORNEY
By:Rhonda Montoya Hasan Assistant City Attorney

WITNESSES:	LAS OLAS SMI, LLC, a Delaware limited liability company authorized to do business in the State of Florida
[Witness print/type name]	By: David Filler, Manager
[Witness print/type name]	ATTEST:
(CORPORATE SEAL)	
STATE OFCOUNTY OF	: :
notarization, this day of	nowledged before me by means of \square physical presence or \square online
(SEAL)	(Signature of Notary Public – State of Florida)
	Print, Type or Stamp Commissioned Name of Notary Public)
Personally Known OR Produ Type of Identification Produced	ced Identification

EXHIBIT A

WASTEWATER PUMP STATION D-31 REPLACEMENT PLANS

DRAWING INDEX SHEET TITLE G1.00 Cover Sheet C1.00 Existing Pump Station Demolition Plan C2.00 Proposed Pump Station Site Plan and Profile C3.00 Pump Station Plan and Details Retaining Wall and Enclosure Plan Pump Station and Generator Details C4.00 City of Ft. Lauderdale Standard Details C4.01 City of Ft. Lauderdale Standard Details C1-1.01 Demolition Plan (Overall "Info Only") C2-1.01 Utility Plan (Overall "Info Only") Electrical Notes and Diagram Electrical Site Plan Electrical One Line Diagram Electrical Details Electrical Details Electrical Details I&C Legend I&C Diagram **Control Panel Schematics** Control Panel Schematics Control Panel Schematics Standard Loop Diagrams



CITY OF FORT LAUDERDALE

WASTEWATER PUMP STATION D-31 REPLACENTENT

LAS OLAS MARINA
FORT LAUDERDALE, FLORIDA

Kimley» Horn



LAS OLAS SMI, LLC

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TOM JENSON, P.E. #37290 ON 2020/04/14 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

FLOOD ZONE: X
BASE FLOOD ELEVATION (BFE): 6.0' NAVD 1988 (BASED
ON BROWARD COUNTY 100—YEAR FLOOD ELEVATION MAP)

ATTENTION, THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION.
THIS MUST BE TAKEN INTO ACCOUNT WHEN OBTAINING SCALED DATA.



WASTEWATER PUMP STATION D-31 REPLACEMENT

LOCATION: LAS OLAS MARINA

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS HEATHER MORAITIS STEVEN GLASSMAN

MAYOR

COMMISSIONER - DISTRICT 1

COMMISSIONER - DISTRICT 2

ROBERT McKINZIE VICE MAYOR.

BEN SORENSEN COMMISSIONER - DISTRICT 3
COMMISSIONER - DISTRICT 4

PROJECT MANAGER
MICHAEL D. SPRUCE, P.E.
THOMAS C. JENSEN, P.E.
JOHN T. DOOGAN, P.L.S.
MICHAEL A. GUIDA, P.E.

JOB TITLE
PROJECT MANAGER
ENGINEER OF RECORD
SURVEYOR
ENGINEER OF RECORD

(561)595-9090 (561)248-5967 (561)392-2594 (561)818-5725

DATE: 8/7/2020

CAD FILE: G1.00 COVER SHEET

DRAWING FILE No.: G1.00 COVER SHEET

Final

CAM 21-002 Exhibit

GENERAL NOTES:

- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES
- 2. CONTRACTOR TO ADHERE TO THE CITY OF FORT LAUDERDALE UTILITIES CONSTRUCTION STANDARDS.
- SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED BY AVIROM & ASSOCIATES, INC. SURVEYING & MAPPING DATED JAN. 30, 2020.
- 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
- RECORD DRAWINGS USED FOR EXISTING FEATURES. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST
- 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.
- CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
- 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.

- 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.
- 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.
- 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 SITE SURVEY PREPARED BY AVIROM & ASSOCIATES, INC. SURVEYING & MAPPING DATED JAN. 30, 2020.
- 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 AND C900 PVC SHALL BE RESTRAINED JOINT AS SPECIFIED.
- 23. 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.
- 24. 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.
- 25. 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.
- 26. 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.
- 27. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT

SPECIFICATIONS AND PERMIT REQUIREMENTS.

- 28. ALL WORK WITHIN CITY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE CITY MINIMUM STANDARDS AND/OR REQUIREMENTS.
- 29. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- 30. 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.
- 31. CONTRACTOR SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
- 32. 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.
- 33. 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.
- 34. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- 35. 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.
- 36. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
- 37. 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.
- 38. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
- 39. 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.
- 40. 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.
- 41. 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.
- 42. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR CITY

APPROVAL PRIOR TO ORDERING MATERIALS AND INSTALLATION.

43. EXISTING GAS MAINS SHALL BE IDENTIFIED BY THE APPROPRIATE UTILITY. PRIOR TO START OF CONSTRUCTION.

UTILITY CONTACTS:

TECO PEOPLES GAS 5101 NW 21ST AVENUE FORT LAUDERDALE, FL 33309 PHONE: (954)453-0794 CONTACT: DAVID RIVERA

FLORIDA POWER & LIGHT COMPANY (FPL) 7201 CYPRESS ROAD. CSF-CB PLANTATION, FL 33317 PHONE: (954)717-1430 CONTACT: NOAH SHERBACOFF

AT&T FLORIDA 8601 WEST SUNRISE BOULEVARD PLANTATION, FL 33322 PHONE: (305)428-05010 CONTACT: OTIS T. KEEVE

CITY OF FORT LAUDERDALE PUBLIC WORKS 700 NW 19TH AVENUE FORT LAUDERDALE, FL 33311 PHONE: (954)828-6126 CONTACT: THOMAS LAWRENCE, P.E.

CITY OF FORT LAUDERDALE UTILITIES 4250 NW 10TH AVENUE FORT LAUDERDALE, FL 33309 PHONE: (954)828-7855 CONTACT: STEVEN ROBERTS

MARINA PUMP STATION FORT LAUDERDALE, FLORIDA

LAS OLAS

LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

Consultants

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

> C & W ENGINEERING ELECTRICA 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

8/7/2020

Date

Issued for

Rev

Designed By Drawn By Approved / Checked By Project Number THOMAS C. JENSEN

37290

KHA PROJ #: 140458000

FINAL

Project Phase

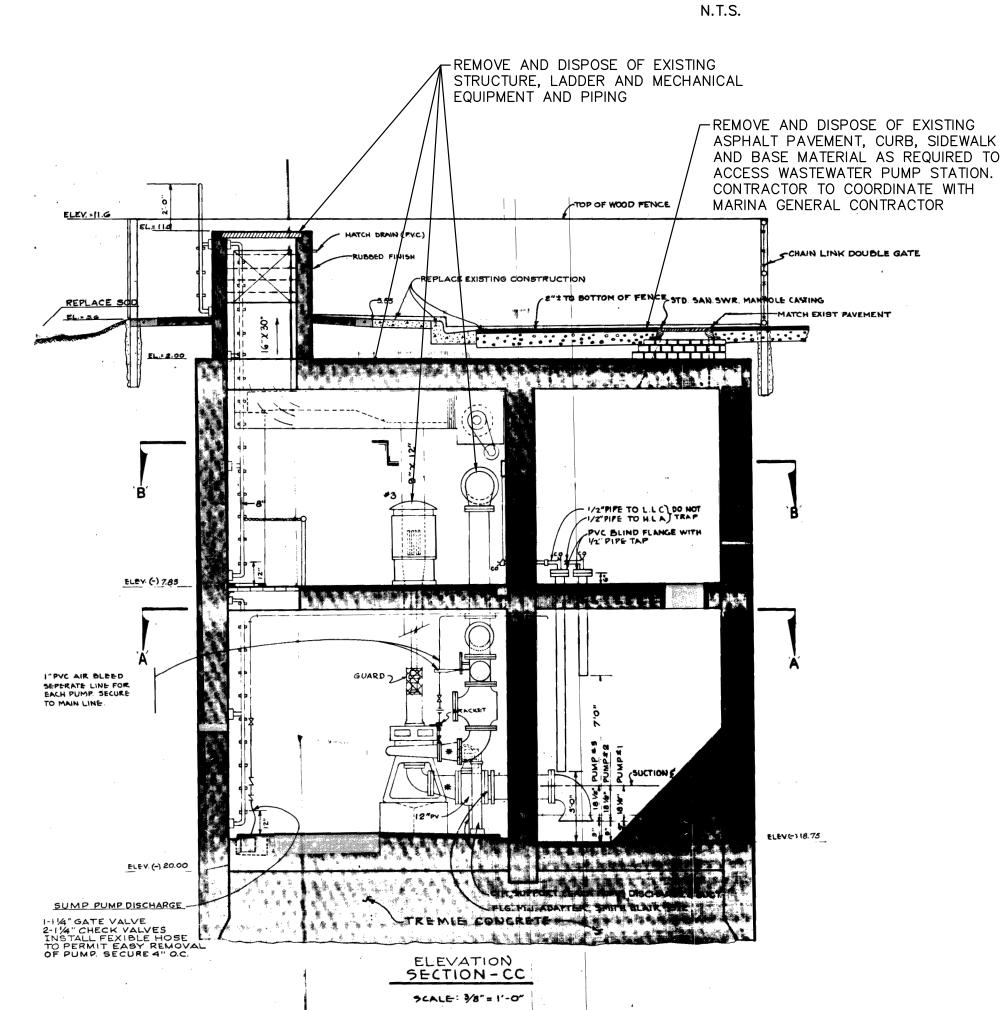
GENERAL NOTES

Sheet Number

G1.01

-REMOVE AND DISPOSE OF EXISTING CONCRETE GENERATOR PAD

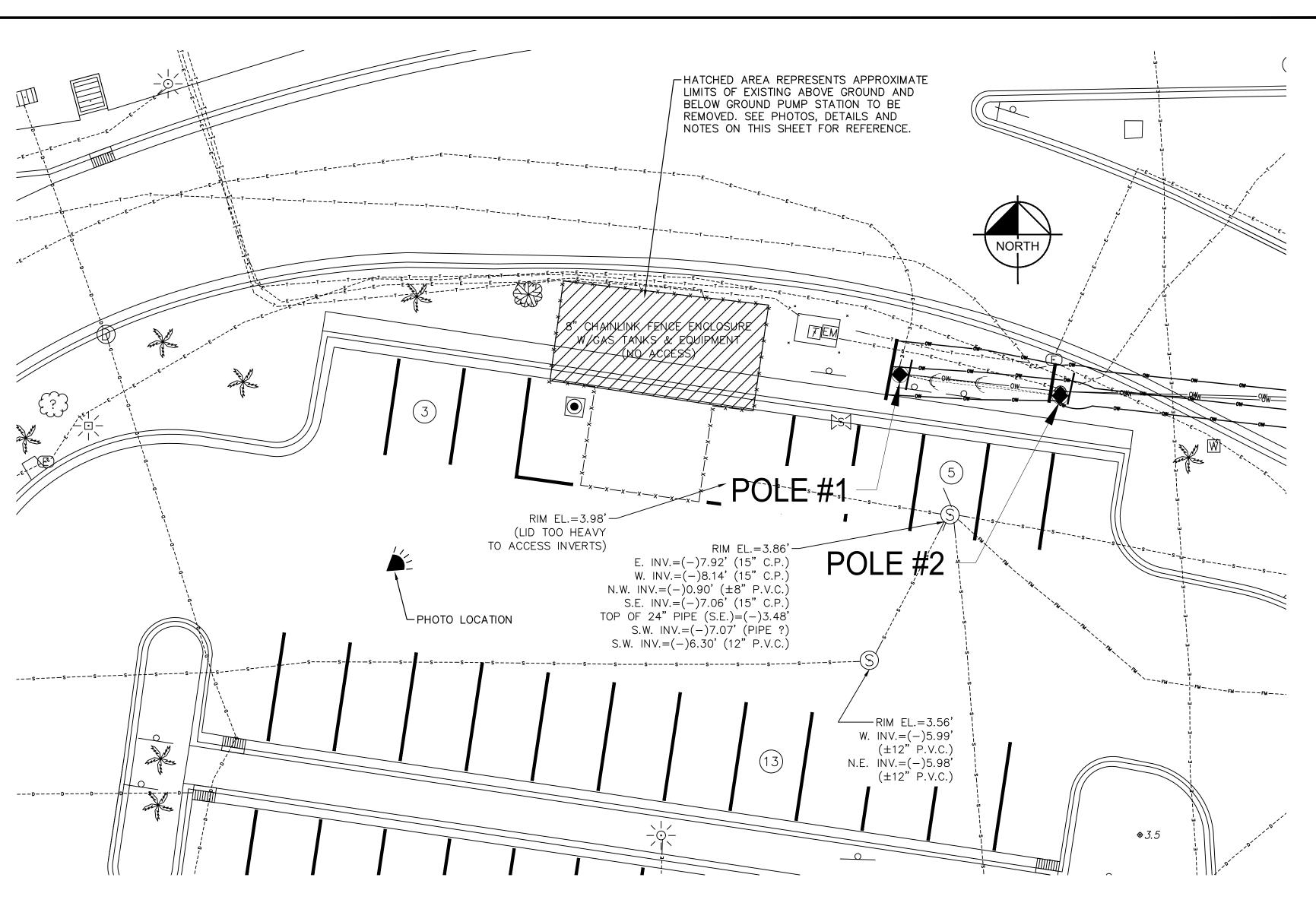
PHOTO OF EXISTING LIFT STATION LOOKING N.E.



RECORD DRAWING OF EXISTING WASTEWATER PUMP STATION

RECORD DRAWING OF EXISTING ELECTRICAL PANEL N.T.S.

CONTROL PANEL AND SERVICE ENTRANCE



MAIN BREAKER TRIP SWITCH -REMOVE AND DISPOSE OF EXISTING ELECTRICAL PANEL AND ASSOCIATED EQUIPMENT

TT TRANS.

WIREWAY-

WIREWAY MAIN LUGS MAIN BREAKER JINSTALL CONDUIT ISNUG AGAINST WALL ORESET LIGHTING G#14 IN I"CONDUIT FROM ATS. TO GEN. CONTROL RECPT. 5 446, #4 BARE GND IN 24"CONDUIT FROM EMERGENCY BREAKER TO EMERG. POWER RECEPT. 3 4/0,144 BARE GND. IN 21/2" CONDUIT FROM MAIN BREAKER TO F.P. L. METER

AUTOMATIC TRANSFER SWITCH

DEMOLITION NOTES:

- 1. NEW WASTEWATER PUMP STATION MUST BE COMPLETELY OPERATIONAL AND RELEASED BY THE REGULATORY AGENCIES BEFORE ANY DEMOLITION OF EXISTING STATION CAN BEGIN.
- 2. ALL DEMOLITION AND DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL AND STATE
- 3. REFER TO ELECTRICAL SHEETS FOR LIMITS OF ELECTRICAL REMOVAL AND NOTES.
- 4. DEMOLITION CONTRACTOR FOR SEWAGE WASTEWATER STATION TO COORDINATE WITH MARINA GENERAL CONTRACTOR AS REQUIRED.
- 5. PRIOR TO REMOVAL OF THE EXISTING STATION, THE EXISTING STATION SHALL BE THOROUGHLY CLEANED AND DISINFECTED.

GENERAL NOTE:

REFER TO SHEET C1-1.01 THAT SHOWS THE OVERALL LAS OLAS MARINA DEMOLITION PLAN FOR LOCATION OF EXISTING LIFT STATION THAT IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY

GRAPHIC SCALE IN FEET

LAS OLAS **MARINA PUMP**

STATION FORT LAUDERDALE, FLORIDA

> LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

Consultants

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

Date Issued for

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_ _ _ _ _ _ THOMAS C. JENSEN 37290

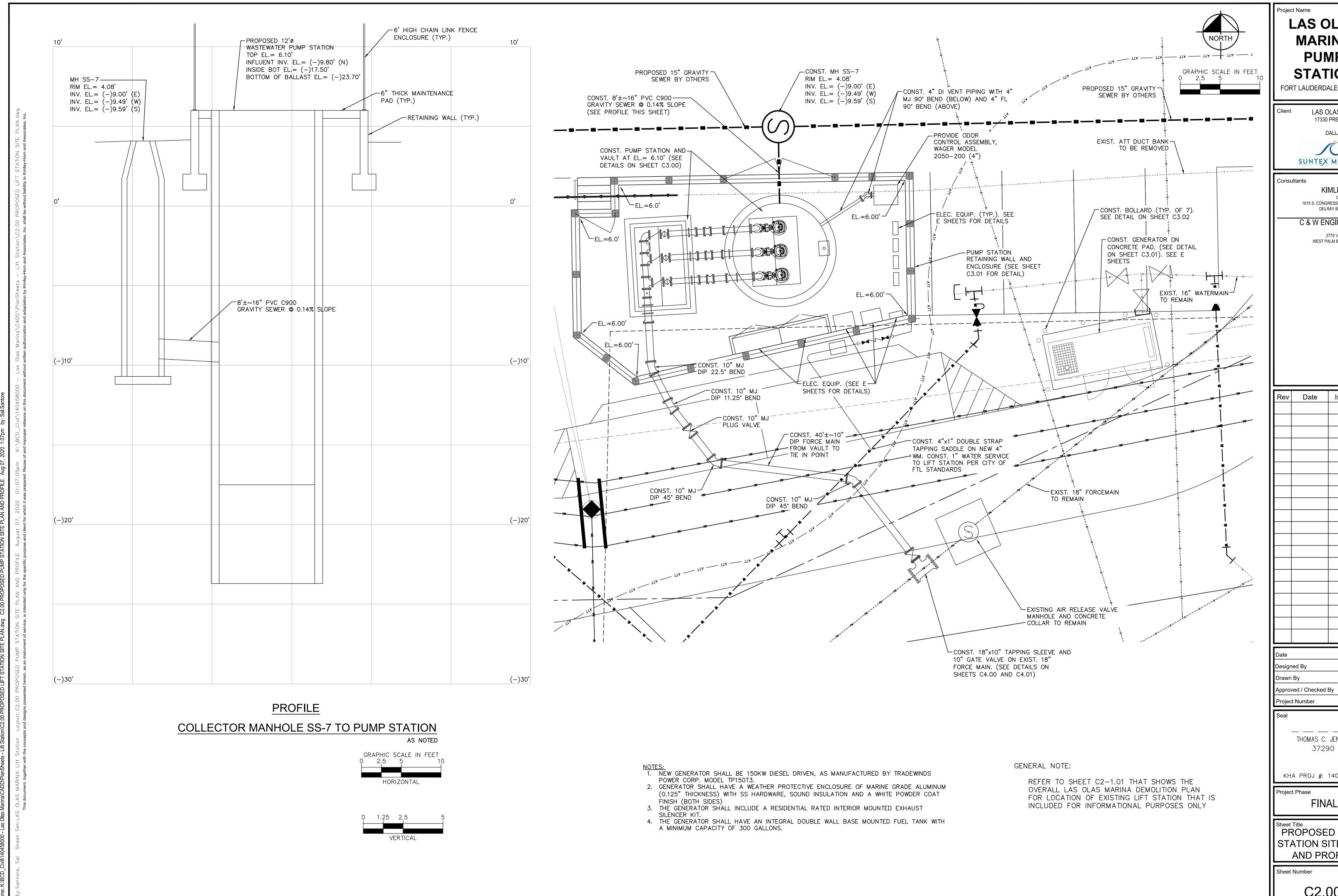
KHA PROJ #: 140458000

Project Phase FINAL

EXISTING PUMP STATION DEMOLITION PLAN

Sheet Number

C1.00



LAS OLAS **MARINA PUMP STATION**

FORT LAUDERDALE, FLORIDA

LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

> C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

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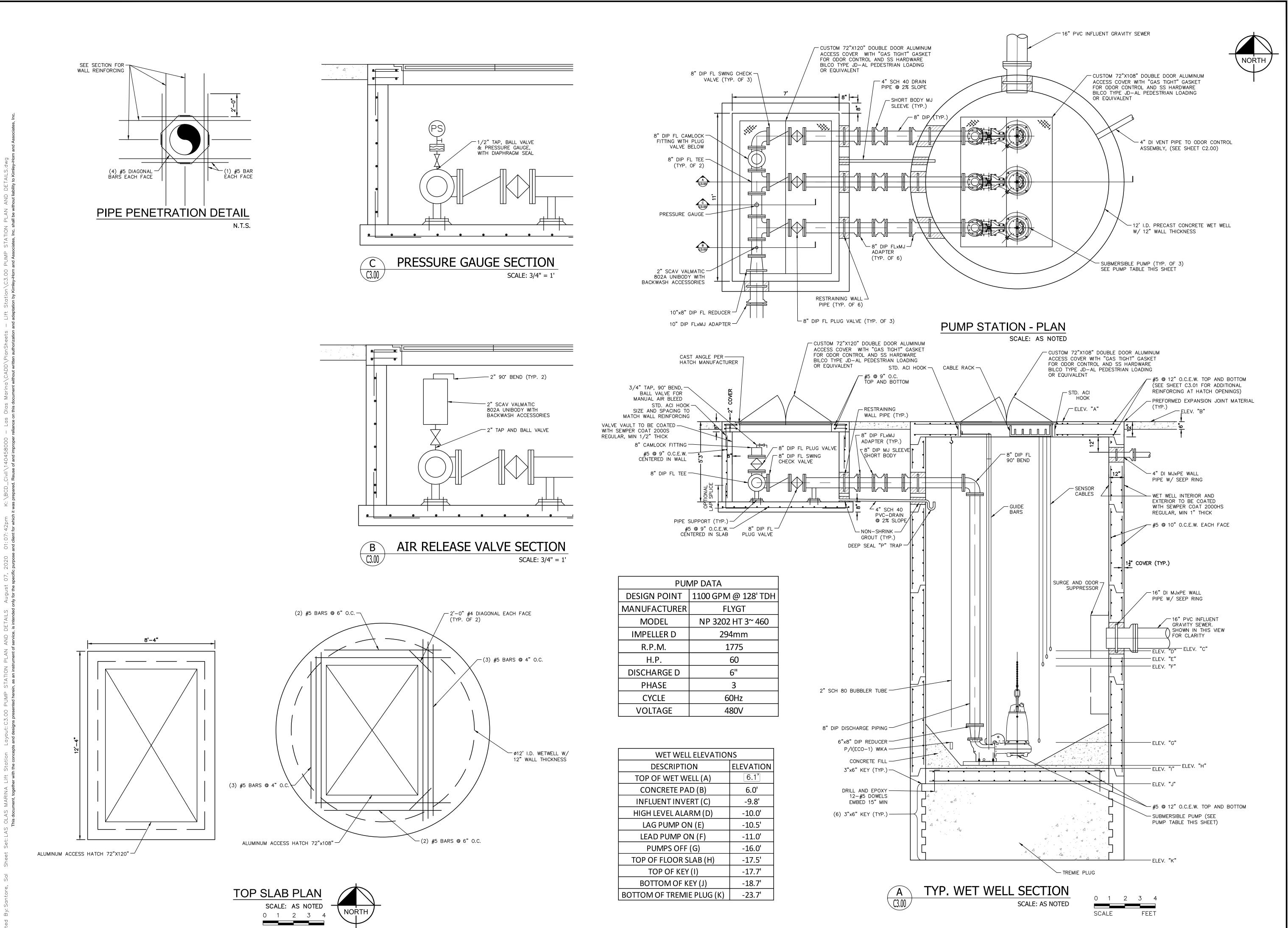
THOMAS C. JENSEN

KHA PROJ #: 140458000

FINAL

PROPOSED PUMP STATION SITE PLAN AND PROFILE

C2.00



LAS OLAS

MARINA PUMP STATION

FORT LAUDERDALE, FLORIDA LAS OLAS SMI, LLC 17330 PRESTON ROAD

> SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

Consultants

Rev

Date

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

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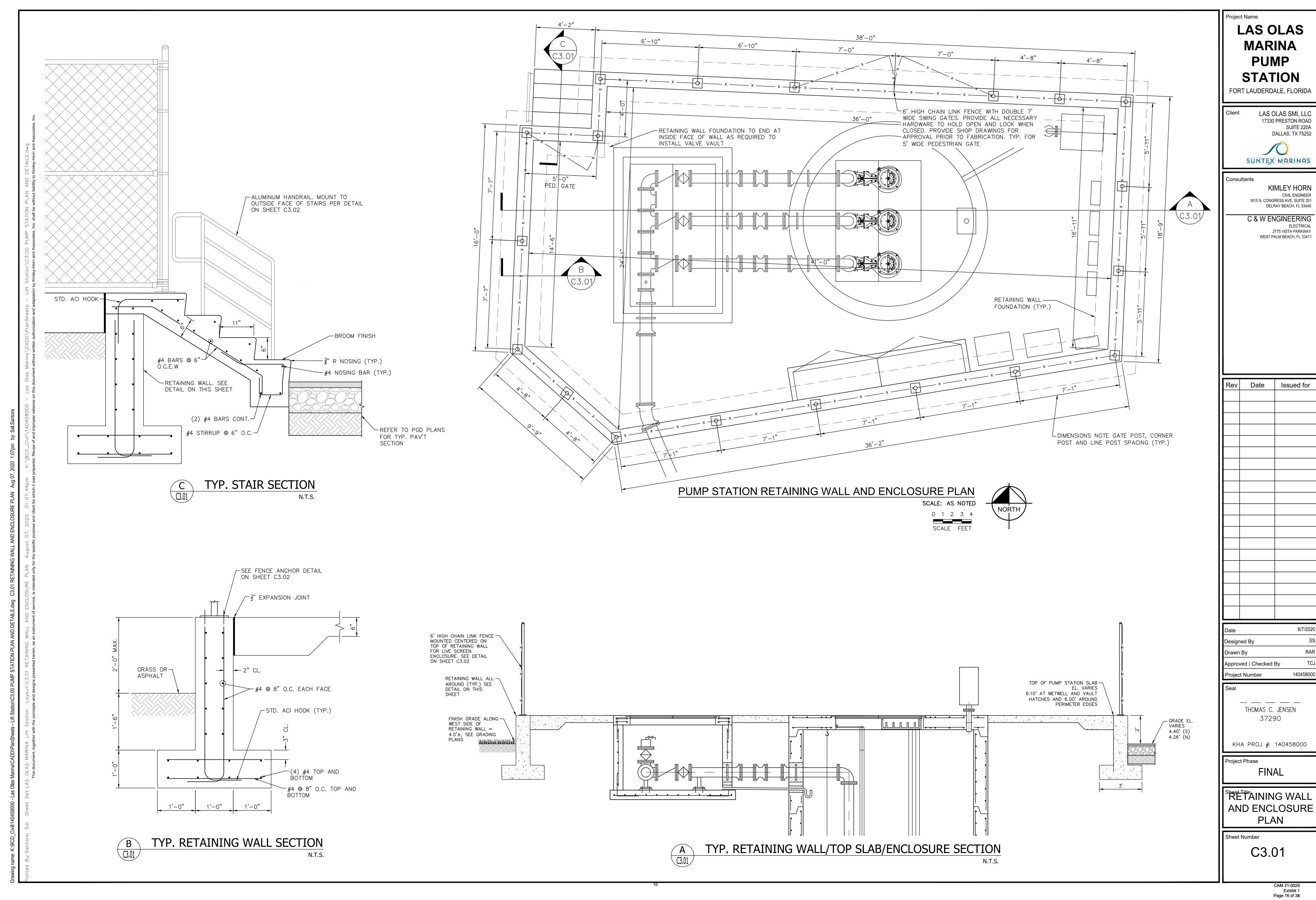
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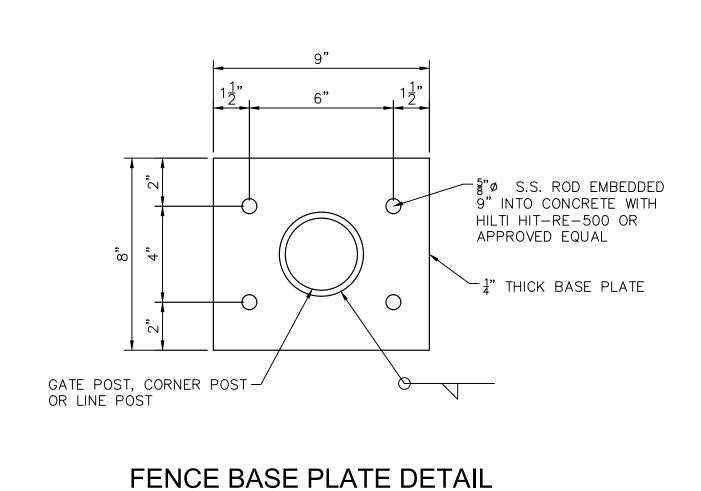
Project Phase FINAL

PUMP STATION | PLAN AND DETAILS

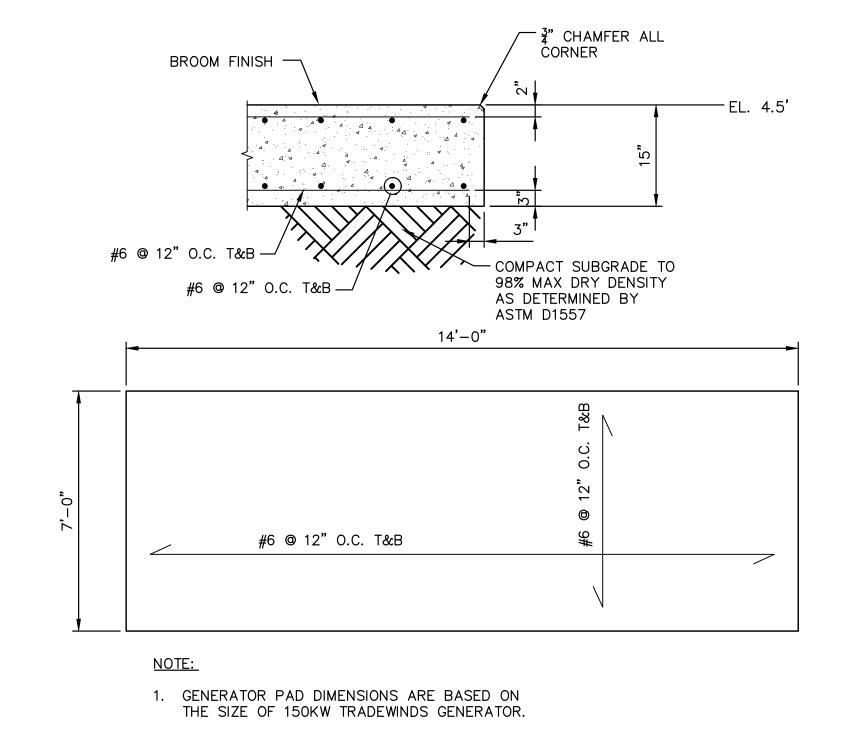
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C3.00

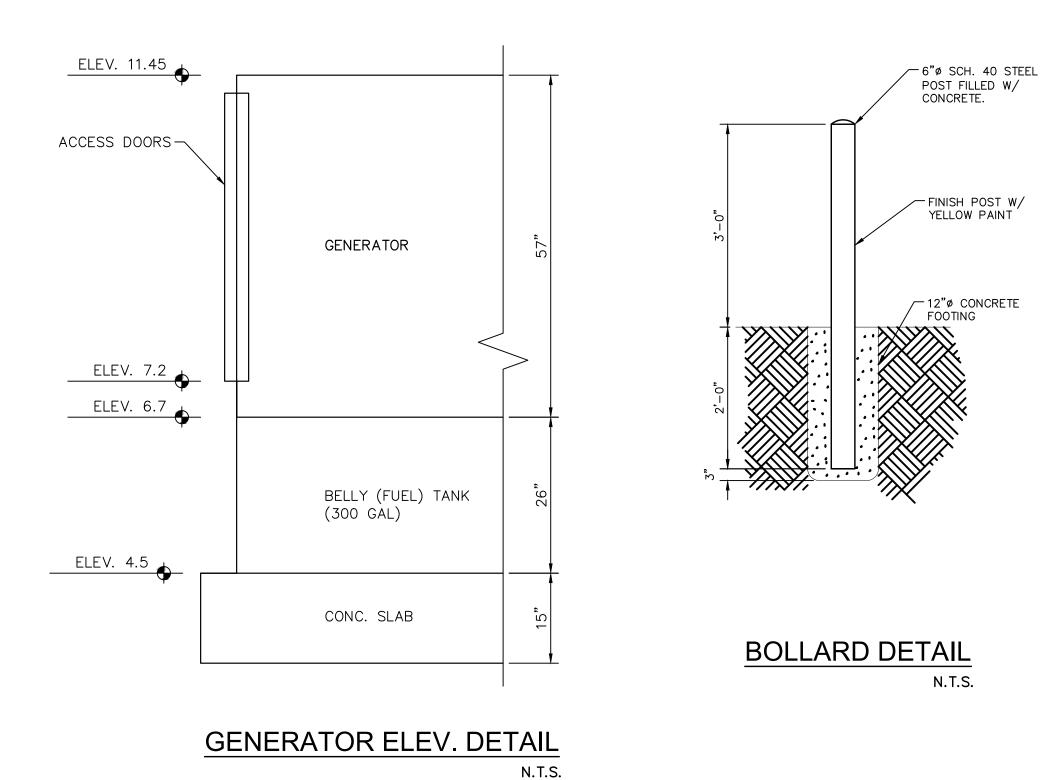




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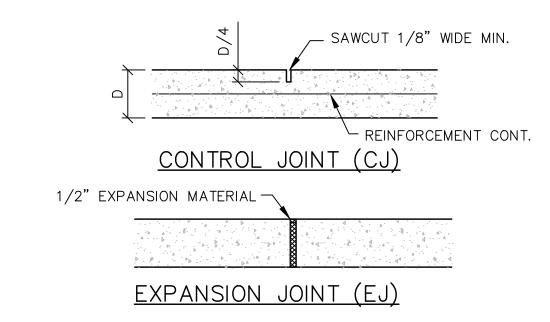


GENERATOR PAD DETAIL





N.T.S.

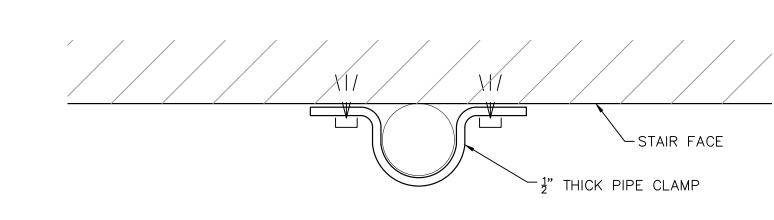




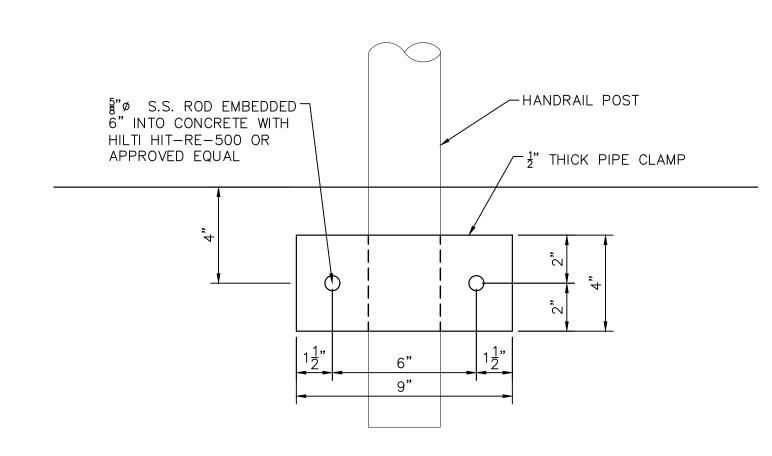
#4 @ 12" O.C.E.W. ─

(2) #4 BARS — 2'-0"

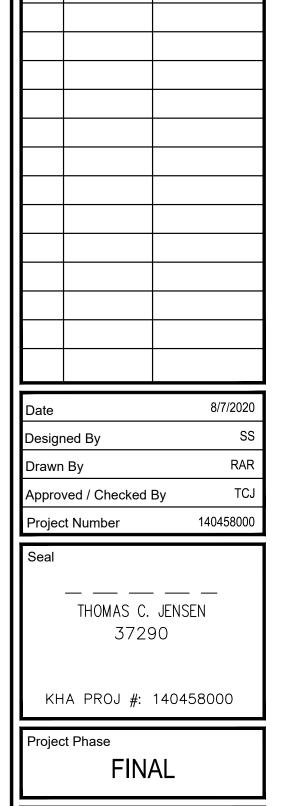
CONCRETE JOINT DETAILS N.T.S.



<u>PLAN</u>



ELEVATION HANDRAIL CONNECTION DETAIL



LAS OLAS

MARINA

PUMP

STATION

LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING

ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

KIMLEY HORN

Consultants

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Date

Issued for

FORT LAUDERDALE, FLORIDA

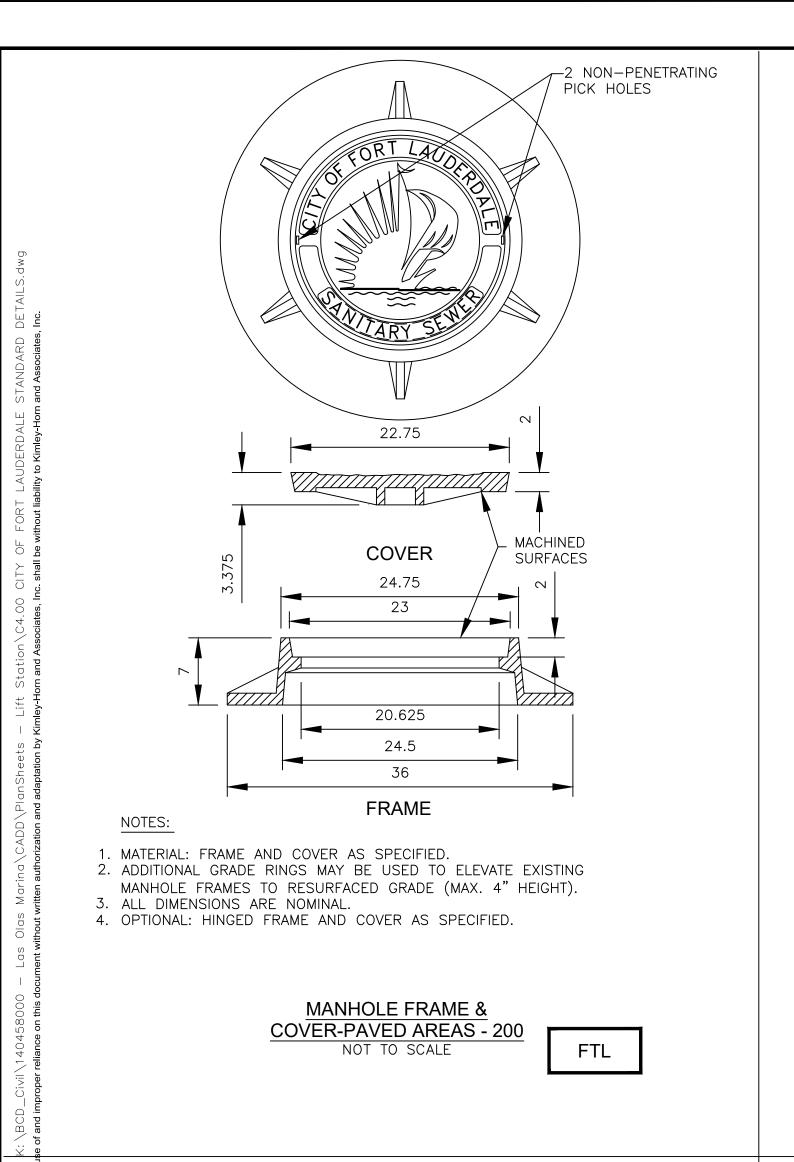
CAM 21-0029 Exhibit 1 Page 16 of 38

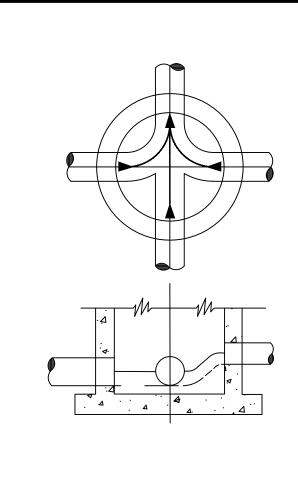
Sheet Title PUMP STATION AND

GENERATOR

DETAILS

C3.02





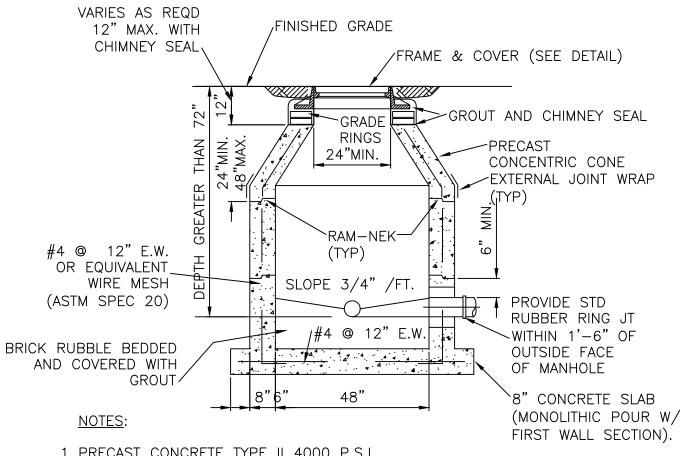
NOTES:

- 1. ALL INVERT CHANNELS ARE TO BE CONSTRUCTED FOR SMOOTH FLOW WITHOUT OBSTRUCTION.
- 2. PROPERLY SHAPED SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS TO PROVIDE FOR SMOOTH FLOWS. 3. SERVICE LATERALS SHALL NOT ENTER MANHOLES UNLESS SPECIFIED ON PLANS
- FLOW CHANNEL) 4. BRICK RUBBLE PERMITTED AS FLOW CHANNEL BUILDUP.
- 5. SIDEWALLS OF FLOW CHANNEL SHALL BE AT LEAST HALF OF PIPE HEIGHT AT

AND THEN MUST BE TREATED AS MAINS. (ELEVATIONS SHOWN, PRECAST HOLE,

6. NO INSIDE DROP LARGER THAN 6" SHALL BE ALLOWED WITH 3 OR 4 INVERTS AND MANHOLES WITH A CHANGE OF DIRECTION OF FLOW OF MORE THAN 45 DEGREES.

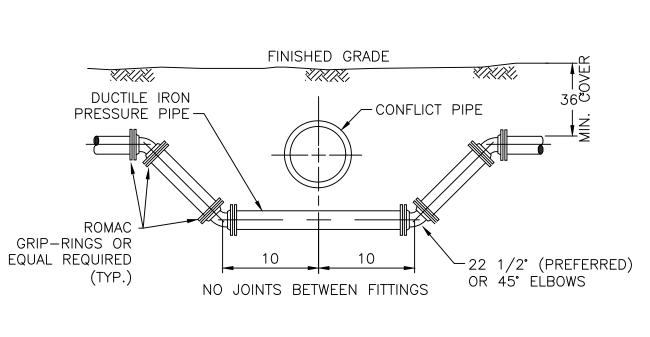
> **INVERT FLOW CHANNELS - 202** NOT TO SCALE



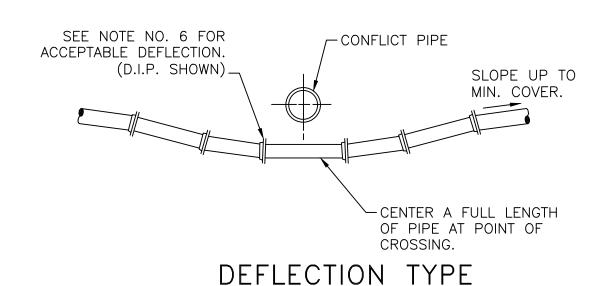
- 1. PRECAST CONCRETE TYPE II 4000 P.S.I.
- 2. "RAM-NEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH THE WIDTH AT LEAST 1/2 THE WALL THICKNESS).
- 3. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING
- 4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM. (SEE DETAIL)
- 5. LIFT HOLES ARE PERMITTED 6. ALL PIPE HOLES SHALL BE PRECAST OR CORE DRILLED.
- A. FOR PVC PIPE ENTERING MANHOLE WITH PRECAST HOLES USE THE APPROVED NON-ASBESTOS PVC-MANHOLE ADAPTER OR PRECAST FLEXIBLE MANHOLE SLEEVE FOR THE APPROPRIATE PIPE DIAMETER AND DIMENSION RATIO. THE ADAPTER SHALL NOT EXTEND MORE THAN 1" INTO THE MANHOLE. DOUBLE BANDING IS REQUIRED FOR FLEXIBLE MANHOLE SLEEVE.
- B. CONNECTION TO A MANHOLE WITH A CORE DRILLED HOLE SHALL BE MADE USING A 5' MIN. DUCTILE IRON PIPE SECTION (EPOXY LINED) OR THE APPROVED PVC-MANHOLE ADAPTER.
- · INSIDE DROPS SHALL NOT BE DESIGNED TO EXCEED 1.80 FEET AND NOT CONSTRUCTED TO EXCEED 2.0 FEET. MAX. 6" INSIDE DROP IS PERMITTED FOR MANHOLES WITH 3 OR MORE INVERTS AND MANHOLES WITH A CHANGE IN FLOW DIRECTION OF MORE THAN 45 DEGREES.
- 8. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
- 9. MINIMUM 5 FEET IS REQUIRED BETWEEN OUTSIDE OF MANHOLE AND SERVICE WYE. 10. MANHOLES TO BE PAINTED INSIDE AND OUTSIDE WITH 2 COATS OF AN
- APPROVED PROTECTIVE COATING. (ONE COAT RED, ONE COAT BLACK) MIN. 8-10 MILS D.F.T. PER COAT.
- 11. MANHOLE SHALL BE SET PLUMB TO LINE AND GRADE.

STANDARD MANHOLE - 203 NOT TO SCALE

FTL



FITTING TYPE



PRESSURE PIPE CONFLICT DETAIL - 400

NOT TO SCALE

FTL

Date Issued for

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Project Number

Project Phase

Approved / Checked By

THOMAS C. JENSEN

37290

KHA PROJ #: 140458000

FINAL

Sheet Title CITY OF FORT

LAUDERDALE

STANDARD

DETAILS

Drawn By

LAS OLAS

MARINA

PUMP

STATION

FORT LAUDERDALE, FLORIDA

LAS OLAS SMI, LLC

SUNTEX MARINAS

1615 S. CONGRESS AVE. SUITE 201

C & W ENGINEERING

Consultants

17330 PRESTON ROAD

DALLAS, TX 75252

KIMLEY HORN

DELRAY BEACH, FL 33445

2775 VISTA PARKWAY

WEST PALM BEACH, FL 33411

CIVIL ENGINEER

ELECTRICAL

SUITE 220A

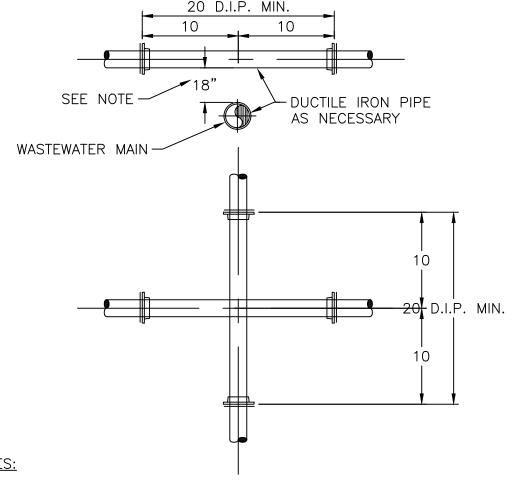
PARAMETERS:

- 1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION.
- D.I.P. IS NOT REQUIRED FOR STORM SEWERS. 2. MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN. MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN. VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
- 3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
- 4. FITTINGS SHALL BE RESTRAINED 5. THE DEFLECTION TYPE CROSSING IS PREFERRED. 6. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION FOR DUCTILE IRON PIPE. NO DEFLECTION AT THE JOINT IS ALLOWED FOR P.V.C. PIPE. BENDING OF P.V.C. PIPE SHALL NOT EXCEED THE FOLLOWING
- PVC PIPE SIZE (INCH) MIN. ALLOWED RADIUS (FT.) MAX. DEFLECTION (INCH) PER 20' LENGTH

6"	300	8"
8"	400	6"
10"	600	4"
12"	600	<i>A</i> "
I Z		4

PRESSURE PIPE CONFLICT NOTES - 401

NOT TO SCALE



- 1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION.
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- 3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.

STANDARD WATER AND SEWER SEPARATION DETAIL - 402 NOT TO SCALE

FTL

I. FORCE MAIN AND WATER MAIN OUTSIDE OF WELLFIELD PROTECTION ZONE

MAXIMUM QUANTITY OF WATER (GALLONS PER HOUR) THAT MAY BE SUPPLIED TO MAINTAIN PRESSURE WITHIN 5 P.S.I. OF THE SPECIFIED TEST PRESSURE.

(MECHANICAL OR PUSH-ON JOINT, 18 FT. NOMINAL LENGTHS, PER 1000 FT. OF

							PIPE	-)						
	AVG. TE Pressu					PIPF	DIAM	IFTFR	(INCH	FS)				
ŗ	PSI	2	3	4	6	8		12	•	16	18	20	24	30
	150	0.10	0.14	0.18	0.27	0.37	0.46	0.55	0.64	0.73	0.83	0.92	1.10	1.38

- 1. TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9. 2. THE MAXIMUM QUANTITY OF ADDED WATER FOR A PIPELINE IS CALCULATED BY MULTIPLYING THE QUANTITY PER HOUR AS OBTAINED FROM THE ABOVE TABLE, BY THE DURATION OF THE TEST IN HOURS, AND BY THE TOTAL LENGTH OF THE LINE BEING TESTED DIVIDED BY 1,000. IF THE LINE UNDER TEST CONTAINS SECTIONS OF VARIOUS DIAMETERS, THE MAXIMUM QUANTITY ADDED WILL BE THE
- SUM OF THE COMPUTED QUANTITIES FOR EACH SIZE.<< 3. MAXIMUM TEST LENGTH = 2,500 FEET PER SECTION. <<
- 4. THIS STANDARD SHALL REFLECT ANY REVISION OF A.W.W.A. C-600-05. HOWEVER, THE MAXIMUM QUANTITY OF WATER ADDED SHALL NOT EXCEED 50% OF RECOMMENDED LIMIT PER APPLICABLE AWWA C-600-05 STANDARD.<<
- 6. FORMULA BASIS: $L = (S)x(D)x(P)\overline{2}$

5. STANDARD TEST PRESSURE = 150 P.S.I.

- L = MAXIMUM QUANTITY OF WATER TO BE ADDED (GALLONS PER HOUR)
- S = LENGTH OF PIPE TESTED (FEET)
- D = DIAMETER OF PIPE (INCHES)P = TEST PRESSURE (P.S.I.)
- 7. PRESSURE TEST DURATION TO BE MIN. 2 HOURS. 8. DISINFECTION OF MAINS SHALL COMPLY WITH A.N.S.I./A.W.W.A. C-651-05
- STANDARD. 9. DUCTILE IRON WATER MAIN PIPE SHALL CONFORM TO THE REQUIREMENTS OF A.N.S.I./A.W.W.A. C-151-'02.
- II. FORCE MAIN AND WATER MAIN WITHIN WELLFIELD PROTECTION ZONE.

1. PRESSURE TEST PROCEDURE TO FOLLOW THE CURRENT AWWA C-600-05 STANDARD (150psi, (2) HOUR DURATION). THERE SHALL BE NO PRESSURE DROP IN THE PIPE DURING THE TEST ("ZERO" FILL-UP TOLERANCE).

> PRESSURE TEST CRITERIA - 403 NOT TO SCALE

> > FTL

	<u> </u>	Щ.	Щ.																	
	TEE (BRANCH)	32	58	84	108	132	155	177	199	221	261	318	370	417	462	503	530	554		
C	VERT. HORZ. 11.25° BEND	9	თ	12	14	16	19	21	23	25	29	35	40	45	49	53	56	59		
M FITTIN	VERT. HORZ. 22.5° BEND	13	18	23	28	23	38	42	47	51	29	0/	81	06	66	108	113	118		
DIRECTION FROM FITTING	VERT. HORZ. 30° BEND	17	25	32	38	45	51	57	63	69	80	92	109	122	134	145	153	159	JON,	
	VERT. HORZ. 45° BEND	27	38	49	59	69	79	88	97	106	123	147	169	188	207	224	236	246	, 3RD EDI	<u>R</u>
IN EACH	VERT. HORZ. 60° BEND	37	53	89	82	96	109	123	135	148	171	205	235	263	289	313	329	343	OR D.I.P."	= 150
RESTRAINED IN	VERT. HORZ. 90° BEND	65	92	118	142	167	190	212	234	256	297	354	407	455	500	542	570	594	DESIGN F	PRESSURE
BE RES	HORZ. 11.25	2	4	5	7	8	6	10	11	12	13	16	18	20	22	23	24	25	RESTRAINT DESIGN FOR D.I.P.", 3RD EDITION,	DESIGN
FEET) TO	HORZ. 22.5° BEND	9	ი	=	13	16	18	20	22	23	27	32	36	40	44	47	49	51	"THRUST	
\leq	HORZ. 30° BEND	80	12	15	18	21	24	26	29	32	36	43	49	54	59	64	99	69	MANUAL,	CRITERIA:
PIPE LENGTH	HORZ. 45° BEND	13	18	23	28	32	37	41	45	49	26	99	75	84	91	98	102	106	ALLOWED! ROM DIPRA	IG DESIGN
☶	HORZ. 60° BEND	18	25	32	39	45	51	57	62	68	78	92	105	116	127	137	143	148	- BLOCKS RACTED FI	FOLLOWIN
	HORZ. 90° BEND	31	43	56	29	8/	88	98	108	118	136	160	182	202	220	237	247	256	1. NO THRUST BLOCKS ALLOWED! 2. CHART EXTRACTED FROM DIPRA	USING THE FOLLOWING DESIGN CRITERIA:
	NOMINAL PIPE DIAMETER (INCHES)	4	9	8	10	12	14	16	18	20	24	30	36	42	48	54	60	64	- 7	-
PR	FSSURI	- P	IPF	= _	DF	SI	GN	T	۱ARI	F	FC)R	TH	RI	IST	R	FS	TR	AINT	

NOT TO SCALE

ნ. 4. R PRESSURE PIPE - DESIGN TABLE FOR THRUST RESTRAINT

KHA

CITY OF FORT LAUDERDALE

STANDARD DETAIL KIMLEY-HORN AND

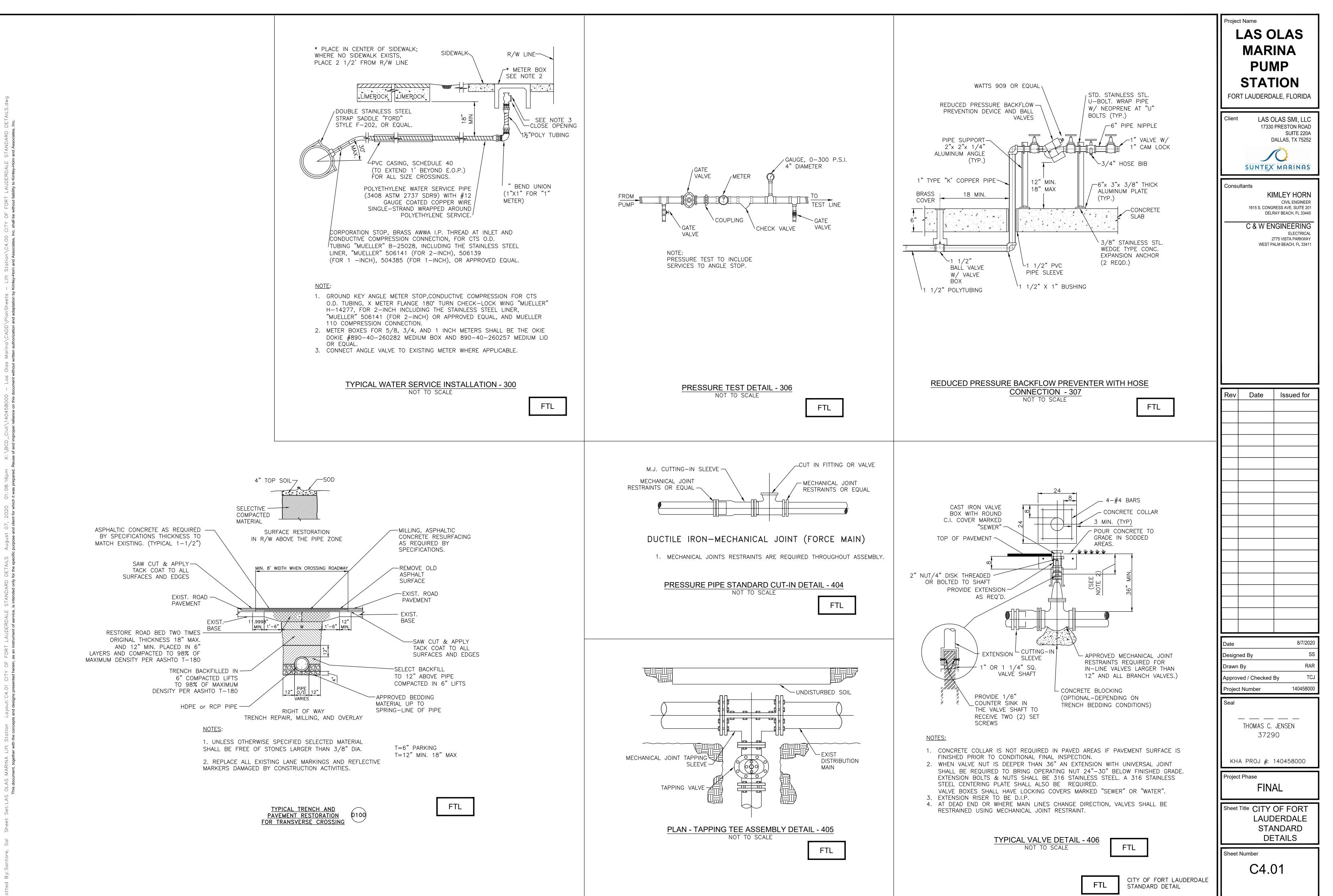
ASSOCIATES DETAIL

Sheet Number C4.00

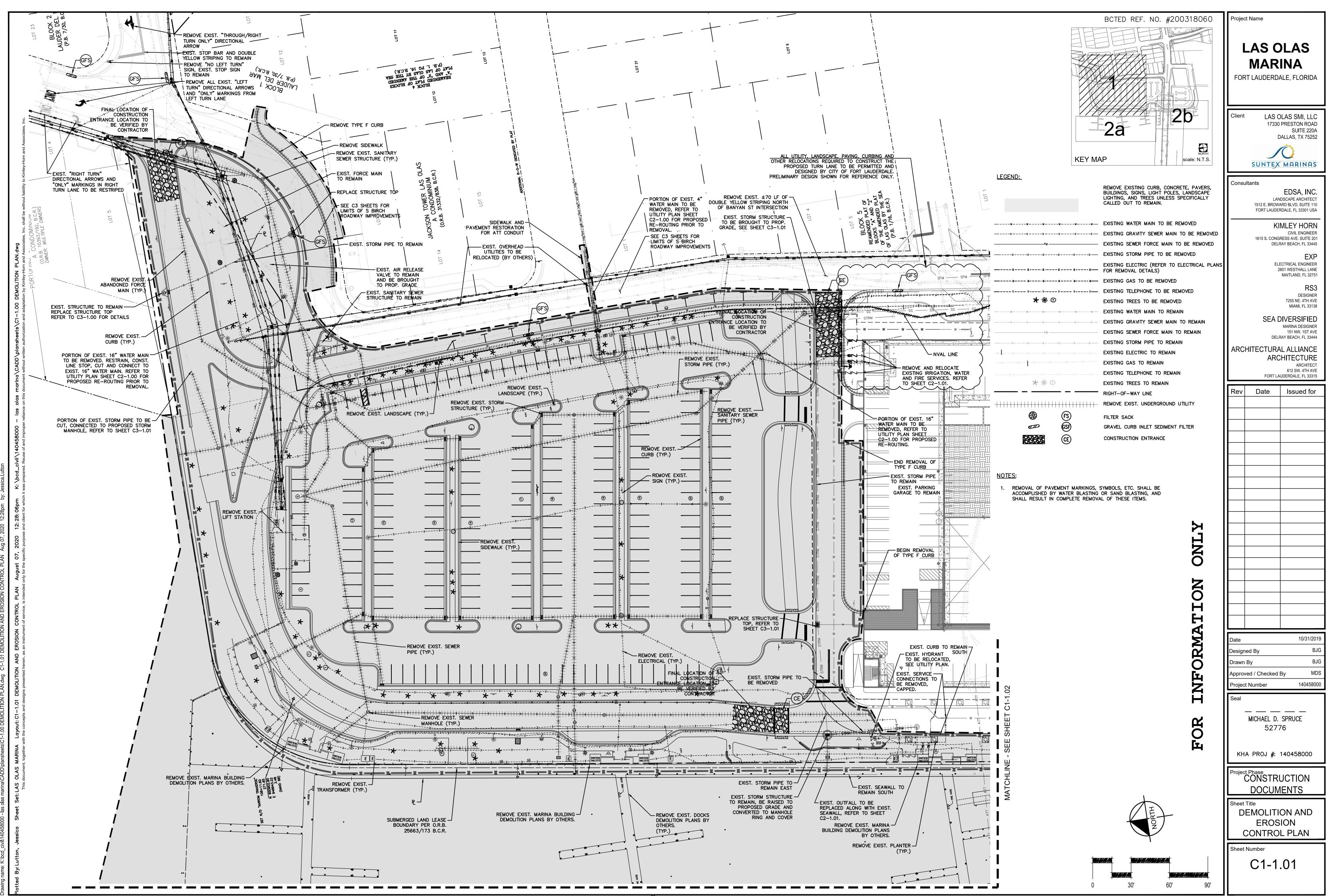
Exhibit 1 Page 18 of 38

8/7/2020

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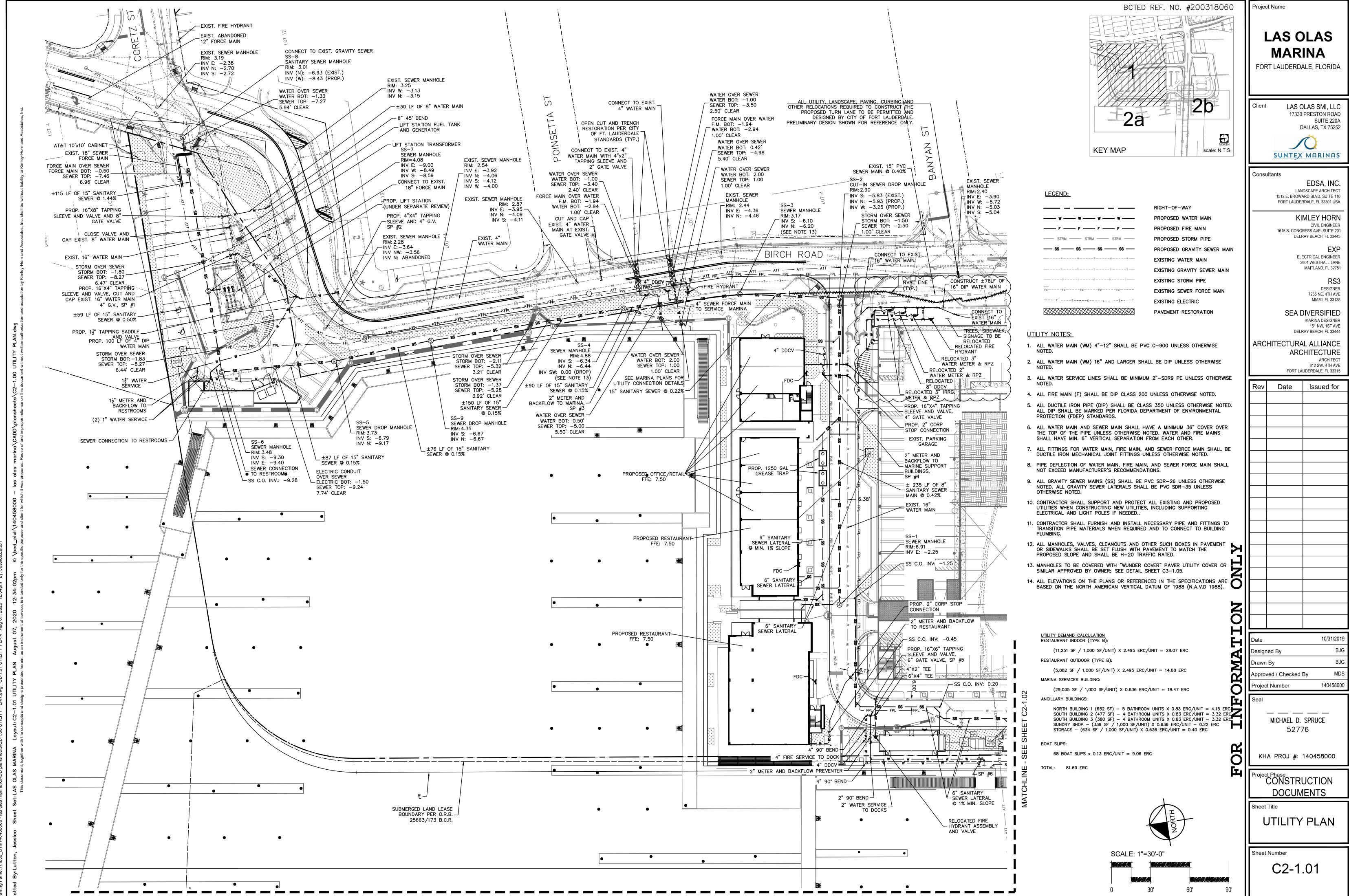


Exhibit 1 Page 20 of 38

GENERAL ELECTRICAL NOTES

I. SCHEMATIC NATURE PLAN VIEWS ARE SCHEMATIC IN NATURE AND MEANT TO SHOW THE SCHEMATIC ARRANGEMENT OF EQUIPMENT AND CONDUIT. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL EQUIPMENT LOCATIONS, CLEARANCES REQUIREMENTS, AND COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS PRIOR TO INSTALL.

2. APPROVED SHOP DRAWINGS

USE APPROVED SHOP DRAWINGS FOR LAY OUT OF EQUIPMENT. THE CONTRACT DOCUMENTS WILL VARY FROM THE SHOP DRAWINGS. INFORM THE ENGINEER IMMEDIATELY IF THERE ARE LAY OUT ISSUES OR INADEQUATE SPACE FOR EQUIPMENT OR CLEARANCES. LAND CONDUITS IN OPENINGS OF ENCLOSURES PER THE APPROVED SHOP DRAWINGS, DO NOT USE THE CONTRACT DRAWINGS.

3. <u>CLEARANCES</u>

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET N.E.C. CLEARANCES ABOUT EQUIPMENT. THE SAME APPLIES TO RACEWAY SUPPORTS.

CONDUIT ROUTING IS SCHEMATIC IN NATURE. CONDUIT ROUTING IS SHOWN FOR CLARITY ON THE CONTRACT DRAWINGS. ROUTE CONDUITS AS MAY BE REQUIRED. PROVIDE PULL BOXES AS REQUIRED PER NEC.

5. <u>FUTURES FACILITIES</u>

WHERE FUTURE FACILITIES ARE INDICATED. CONDUIT ROUTING SHALL ACCOUNT FOR SUCH FACILITIES.

6. <u>RESPONSIBILITIES</u>

BIDDERS, SUPPLIERS, EQUIPMENT VENDORS, GENERAL CONTRACTOR, SUB CONTRACTORS AND OTHER SIMILAR ENTITIES ARE REQUIRED TO READ ALL THE CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS.

7. HOME RUNS

CONTRACTOR SHALL COORDINATE HOME RUNS BETWEEN PLAN VIEWS. WHERE ANY CONDUIT IS SHOWN IN ANY PLAN VIEW IT SHALL BE INSTALLED THE ENTIRE LENGTH AS MAY BE REQUIRED.

8. FIELD VERIFICATIONS

FIELD VERIFY ALL EXISTING CONDITIONS. MAKE MINOR ADJUSTMENTS AS NEEDED. INFORM OWNER/ENGINEER OF INCONSISTENCIES IMMEDIATELY IF PROBLEMS OR CONFLICTS EXIST.

9. COMPLETE AND FUNCTIONAL SYSTEMS

PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE AND FUNCTIONAL SYSTEM. DEMONSTRATE SYSTEM OPERATION TO THE OWNER/ENGINEER.

PROVIDE GROUNDING SYSTEM AS INDICATED ON DRAWINGS AND BY NEC. ALL POWER RACEWAYS REQUIRE GROUNDING CONDUCTORS. BONDING THROUGH RACEWAY SYSTEMS SHALL BE CONTINUOUS FROM MAIN SWITCH GROUND BUSES TO PANEL GROUND BARS, FROM PANEL GROUND BARS TO BRANCH CIRCUIT OUTLETS, MOTORS, LIGHTS, ETC. THESE GROUND CONDUCTORS ARE REQUIRED THROUGHOUT THE PROJECT REGARDLESS OF WHETHER CONDUIT RUNS SHOW GROUND CONDUCTORS ON DRAWINGS.

LAS OLAS MARINA LIFT STATION,

OVERALL ELECTRICAL SITE PLAN

SCALE: AS NOTED

+ + + + + + + + + + + + + +

+ + + + + + + +

+ + + + + + + +

11. CONTRACTOR MINIMUM REQUIREMENTS

PROVIDE AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR A COMPLETE SYSTEM SHALL BE INCLUDED.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS.

ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, NFPA, AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. APPROVED. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL CONCEALED

12. SCOPE OF WORK A. COORDINATE NEW ELECTRICAL EQUIPMENT. B. DEMO EXISTING EQUIPMENT. C. INSTALL NEW EQUIPMENT. D. STARTUP AND TESTING

FACILITIES BEFORE ANY WORK BEGINS.

E. RESTORE AREAS TO ORIGINAL CONDITION.

13. CONDUIT CONDUIT SIZES AS SHOWN ON THE DRAWINGS ARE MINIMUM. THE CONTRACTOR MAY INCREASE AS REQUIRED FOR EASE OF PULLING.

ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE 316 SS. CONDUITS SHALL HAVE BURRS REMOVED WITH A REAMER. CONDUITS ENTERING CABINETS SHALL HAVE LOCK NUTS INSIDE AND OUT UNLESS ENTRANCE IS THREADED. NYLON INSULATED BUSHING SHALL BE USED ON ALL CONDUIT TERMINATIONS.

ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" BELOW FINAL

ALL BURIED CONDUIT SHALL BE PVC UNLESS INDICATED; SERVICE CONDUIT SHALL BE PVC SCHEDULE 80 OR RIGID GALVANIZED STEEL.

OUTSIDE.

14. <u>JUNCTION BOXES</u> PROVIDE ADDITIONAL BOXES AS MAY BE REQUIRED. PROVIDE NEMA 3R

15. <u>CONDUCTORS</u>

ALL ELECTRICAL EQUIPMENT IS INSTALLED

ABOVE 7 FOOT NAVD ELEVATION

CONDUCTORS SHALL BE COPPER STRANDED TYPE THWN WITH 75°C RISE INSULATION.

GROUNDING CONDUCTORS SHALL BE TINNED COPPER 600V RATED #6 MINIMUM GAUGE.

PARKING LOT

MULTICONDUCTOR LABELS SHALL BE STRANDED 14 GAUGE, 600V, THWN INSULATED WITH PVC JACKET.

> + + + + + + + + |+ + + + +

16. SHUT DOWNS CONTRACTOR SHALL COORDINATE ANY

POWER DOWNTIME WITH FPL AND THE OWNER. ANY POWER DOWN TIME SHALL BE APPROVED BY THE OWNER.

17. RESTORATION

CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL FACILITIES HE DISTURBS. CONTRACTOR SHALL PROVIDE CLEANUP, AND PROPER DISPOSAL, AND PAY ALL FEES FOR ALL DEMOLISHED MATERIALS AND THE LIKE.

18. WARRANTY

CONTRACTOR SHALL WARRANT LABOR AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT.

19. STATION CONTROL PANEL & RTU EXISTING LSCP & RTU SHALL REMAIN OPERATION AND NOT DEMOLISHED UNTIL NEW LIFT STATION HAS BEEN BUILT,

TESTED AND ACCEPTED BY THE ENGINEER AND OWNER. THEN SCHEDULE THE DEMO OF THE EXISTING STATION

20. EQUIPMENT ID, CIRCUIT IDENTIFICATION

ALL EQUIPMENT AND CIRCUITS FOR POWER AND CONTROL RACEWAYS SHALL BE IDENTIFIED IN JUNCTION AND TERMINAL BOXES, PULL BOXES, CONTROL PANELS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS.

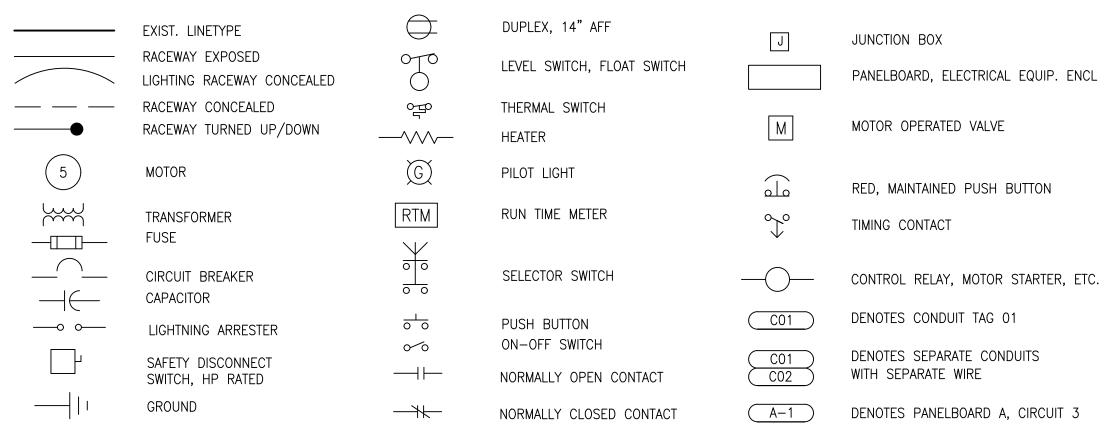
21. MAJOR COORINDATION PERSONNEL

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CITY OF FT LAUDERDALE MAINTENANCE SUPERVISOR: MR. STEVE ROBERTS. (954)-828-7855 ALL POWER SERVICE INSTALLATION AND DEMOLITION/DISCONNECT OF EXISTING SERVICE WITH MR. LUCAS CORNISH OF FPL (954)-717-2062



GRAPHIC SCALE IN FEET

ELECTRICAL LEGEND



MATERIAL SCHEDULE

| LOCATION | CONDUIT | ENCLOSURE
MATERIALS | ENCLOSURE
NEMA RATING | FASTENERS, STRUT,
THREADED ROD, ETC. | REMARKS |
|-------------|---------------|------------------------|--------------------------|---|---------|
| EXTERIOR | | | | | |
| BELOW GRADE | PVC SCHED. 40 | CONCRETE BOXES | N/A | 316 SS | |
| ABOVE GRADE | RGS | 316 SS | 4X | 316 SS | |
| | | | | | |

GENERAL NOTES

- 1. THE SCHEDULE SHALL ESTABLISH THE MINIMUM LEVEL OF QUALITY FOR MATERIALS. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS
- 2. THE SCHEDULE SHALL NOT APPLY TO POWER TRANSFORMERS, LIGHT FIXTURES AND THE LIKE, THOSE ELEMENTS ARE NOTED OR INDICATED ELSEWHERE

LEGEND

N/A NOT APPLICABLE 316 SS 316 STAINLESS STEEL

| ELECT | TRICAL ABBREVIATION | ONS | |
|-------|--------------------------|-------|-----------------------------|
| | COMPRESSOR | OL | OVER LOAD RELAY |
| CR | CONTROL RELAY | PB | PUSH BUTTON |
| CP | CONTROL PANEL | PDP | POWER DIST. PANEL |
| DISC | DISCONNECT SWITCH | PM | POWER MONITOR |
| ETM | ELAPSED TIME METER | R,G,A | RED, GREEN, AMBER PILOT LIG |
| F | FUSE | SA | SURGE ARRESTER |
| FSA | FIELD SURGE ARRESTOR | SS | SELECTOR SWITCH OR |
| GFI | GROUND FAULT INTERRUPTER | | 316 STAINLESS STEEL |
| HOA | HAND-OFF-AUTO | TS | TEST SWITCH |
| HOR | HAND-OFF-REMOTE | WP | WEATHER PROOF |
| IPB | INST. PULL BOX | ZSC | POSITION SWITCH CLOSED |
| LA | LIGHTNING ARRESTER | ZSO | POTION SWITCH OPEN |
| MCU | MARTIN COUNTY UTILITIES | | |

C&W engineering **ELECTRICAL CONSULTANTS** 2775 VISTA PARKWAY, SUITE G6 WEST PALM BEACH, FL. 33411 (561) 642-5333 REGISTRATION NUMBERS C & W ENGINEERING INC. CA# 33315 MICHAEL A. GUIDA, P.E. 60755

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8/10/2020

LAS OLAS

MARINA

PUMP

STATION

FORT LANDER DALLE, FLORIDA

Client

Consultants

Rev

Date

LAS OLAS SMI, LLC

SUNTEX MARINAS

1615 S. CONGRESS AVE. SUITE 201

C & W ENGINEERING

17330 PRESTON ROAD

DALLAS, TX 75252

KIMLEY HORN

DELRAY BEACH, FL 33445

CIVIL ENGINEER

ELECTRICAL

2775 VISTA PARKWAY

Issued for

WEST PALM BEACH, FL 33411

SUITE 220A

MICHAEL A. GUIDA 60755

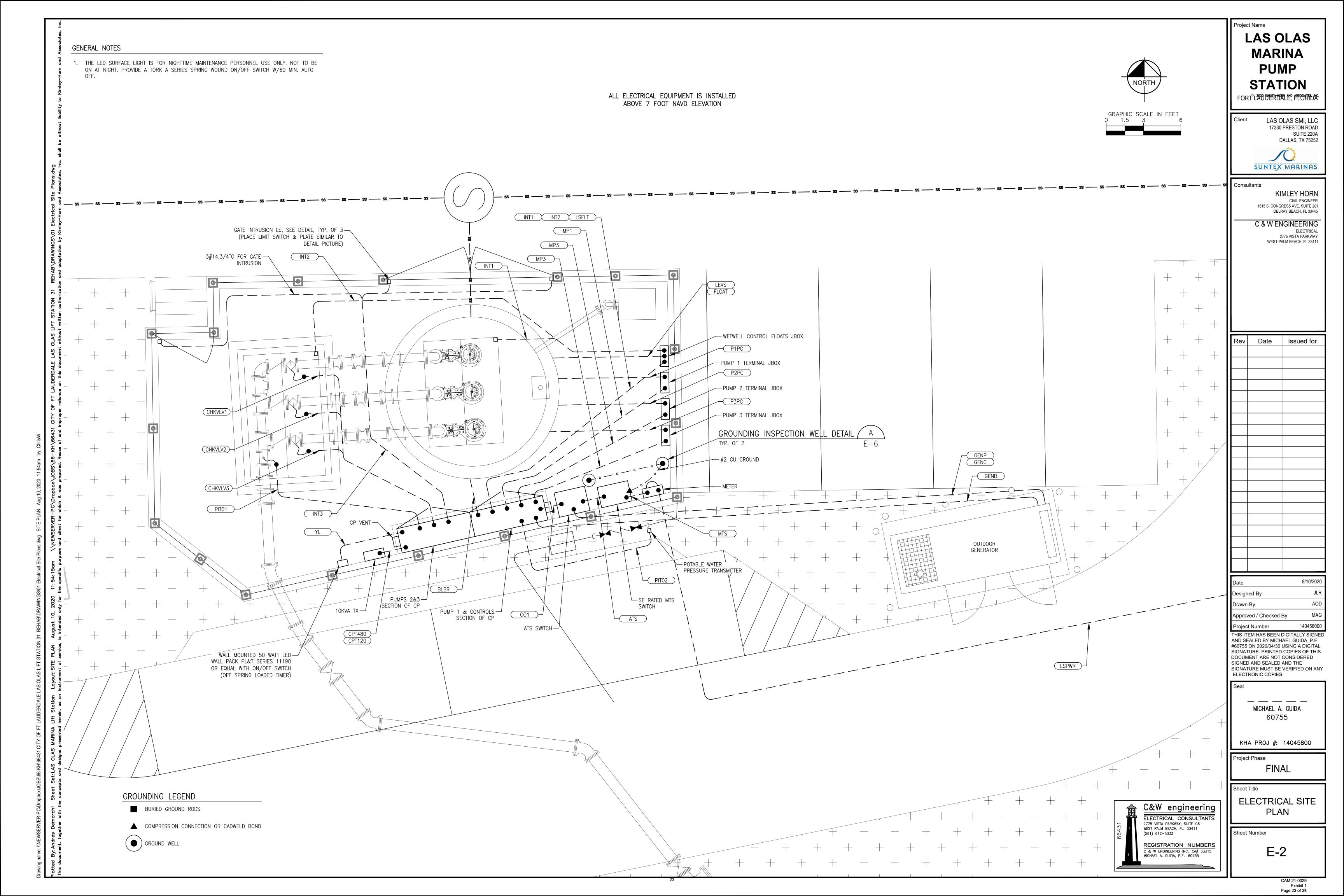
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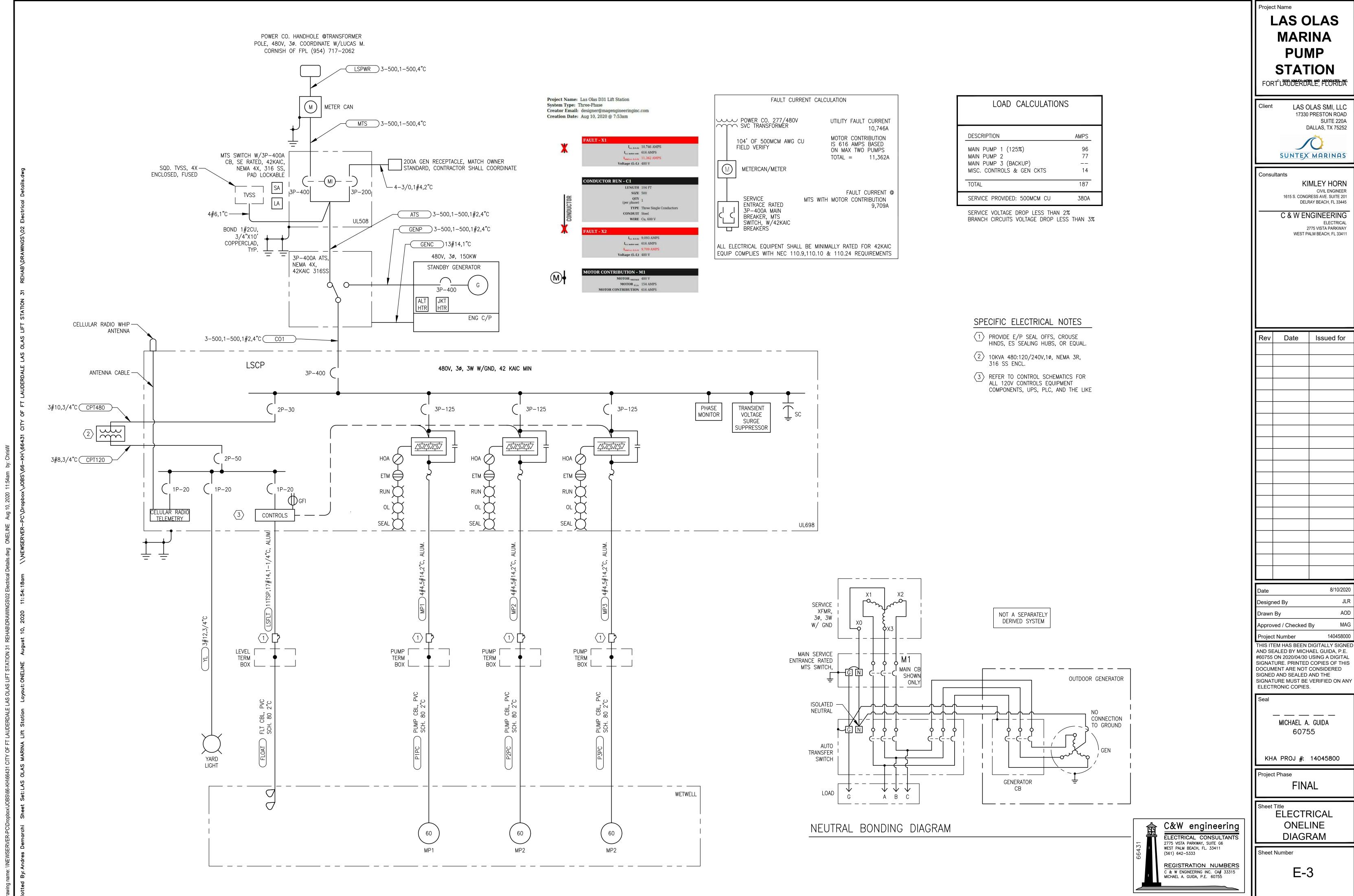
FINAL

ELECTRICAL NOTES & **LEGENDS**

Sheet Number

Page 22 of 33





CAM 21-0029 Exhibit

BUBBLER
LEVEL

HMI

CB

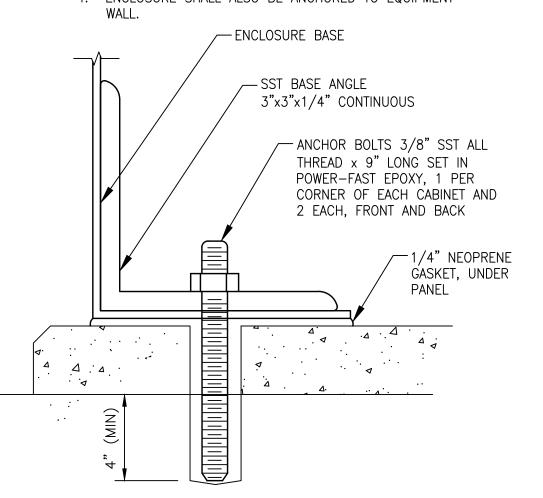
PAD LOCKABLE
CB, TYP.

HINGES, TYP.

DEAD FRONT VIEW

GENERAL ELECTRICAL NOTES

- 1. PROVIDE A CABLE TIE DOWN SYSTEM TO SECURE THE CONTROL PANEL TO WITHSTAND A HURRICANE.
- 2. SYSTEM SHALL BE DESIGNED BY FLORIDA REGISTERED STRUCTURAL ENGINEER. THE WIND LOAD SHALL BE PER THE AREA OF INSTALLATION, BUT A MINIMUM OF 150 MPH.
- 3. INCREASE THE EQUIPMENT RATINGS INDICATED.
- 4. ENCLOSURE SHALL ALSO BE ANCHORED TO EQUIPMENT



ANCHOR DETAIL

NTS

TAIL

C&W engineering

ELECTRICAL CONSULTANTS
2775 VISTA PARKWAY, SUITE G6
WEST PALM BEACH, FL. 33411
(561) 642-5333

REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 333315
MICHAEL A. GUIDA, P.E. 60755

LAS OLAS
MARINA
PUMP
STATION

FORT LATURER DALE, FLORIDA

Client LAS OLAS SMI, LLC

17330 PRESTON ROAD
SUITE 220A
DALLAS, TX 75252

SUNTEX MARINAS

Consultants

KIMLEY HORN

CIVIL ENGINEER

1615 S. CONGRESS AVE. SUITE 201

DELRAY BEACH, FL 33445

Date

Issued for

C & W ENGINEERING

ELECTRICAL
2775 VISTA PARKWAY
WEST PALM BEACH, FL 33411

Date 8/10/2020
Designed By JLR
Drawn By AOD

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Approved / Checked By

Project Number

60755

MICHAEL A. GUIDA

KHA PROJ #: 14045800

Project Phase FINAL

PUMP STATION
CONTROL PANEL
DETAILS

Sheet Number

E-4

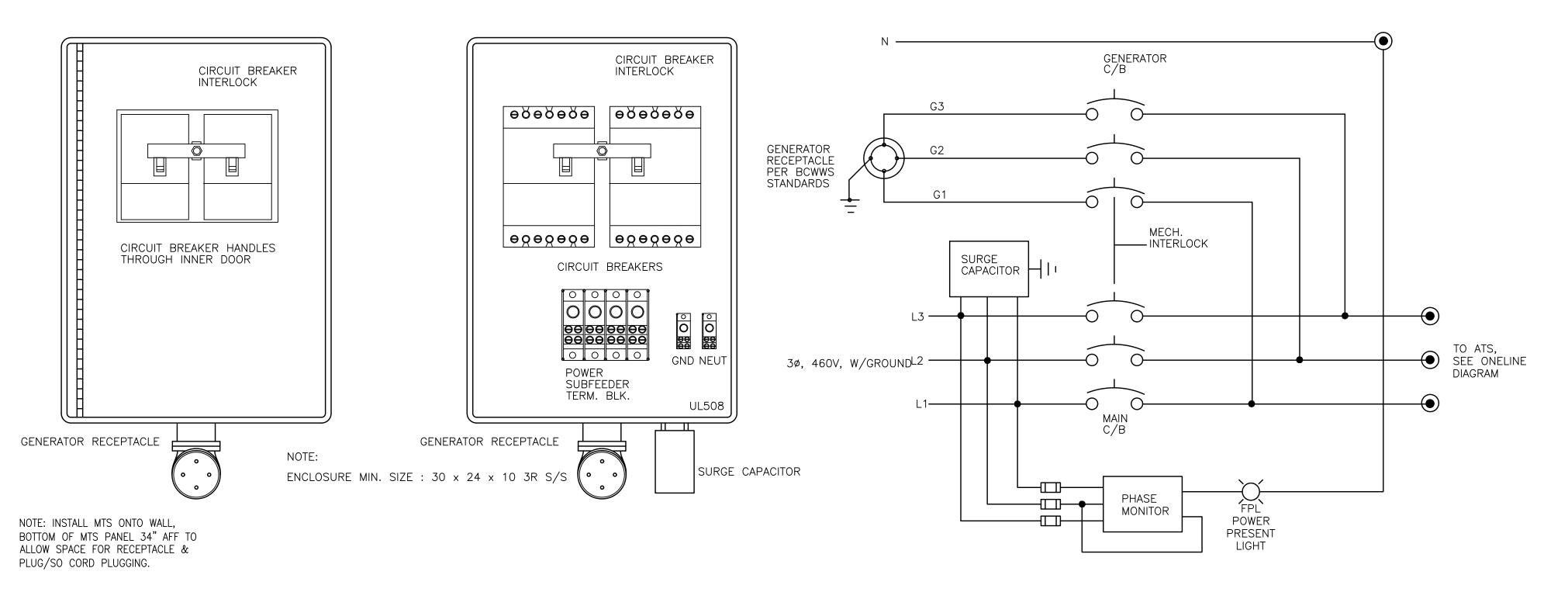


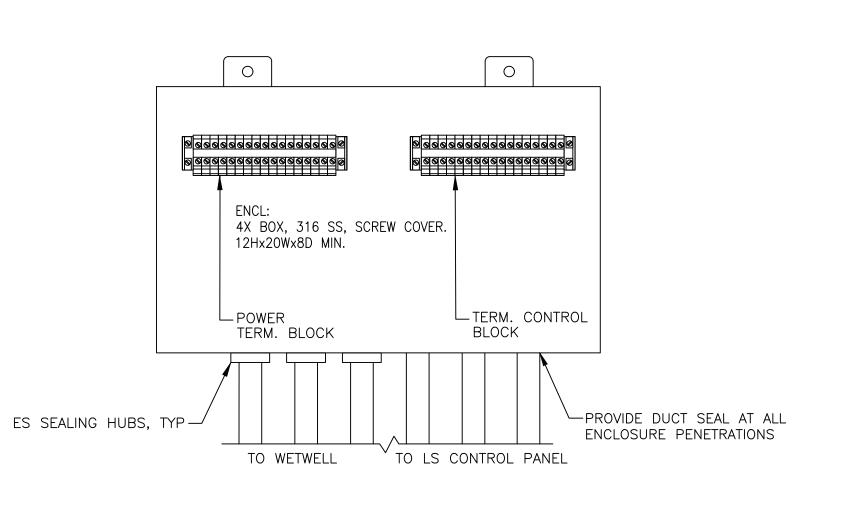
LEVEL PS2 PS3 PS4 AIR COMPRESSOR AIR FLOW METER--3-WAY VALVE 1-WAY VALVE ─ 1−WAY VALVE BLOW-DOWN PORT 🔎 BUBBLER OUTLET TO WET WELL COORDINATE W/OWNER SOME, SOME COMPONENTS OWNER FURNISHED.

- ALLEN BRADLEY 4X LIMIT SWITCH WITH ROCKER ARM, INSTALL SO THAT ARM MOVES WHEN GATE IS OPENED LIFT STATION— GATE, TYP. OF 2 - CONDUIT STUB UP L-SHAPE ALUMINUM PLATE — @ 316SSS HARDWARE 316SS 5/8" UNISTRUT -

LIMIT SWITCH INSTALLATION DETAIL

NTS





THE ABOVE IS TYPICAL FOR TERMINAL BOXES

TYPICAL TERMINAL JBOX DETAIL

NTS

MANUAL EMERGENCY TRANSFTER SWITCH PANEL

PNEUMATIC LAYOUT

NTS

NTS

C&W engineering ELECTRICAL CONSULTANTS
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WEST PALM BEACH, FL. 33411 (561) 642-5333 REGISTRATION NUMBERS C & W ENGINEERING INC. CA# 33315 MICHAEL A. GUIDA, P.E. 60755

LAS OLAS **MARINA PUMP STATION**

FORT LATUBLE BURLET, FEORTIDIA LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

SUNTEX MARINAS

Consultants

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

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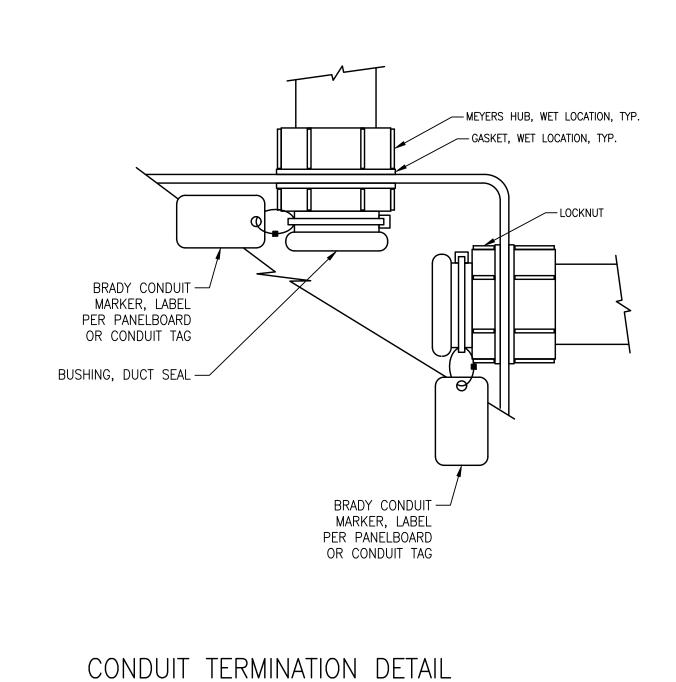
Project Phase

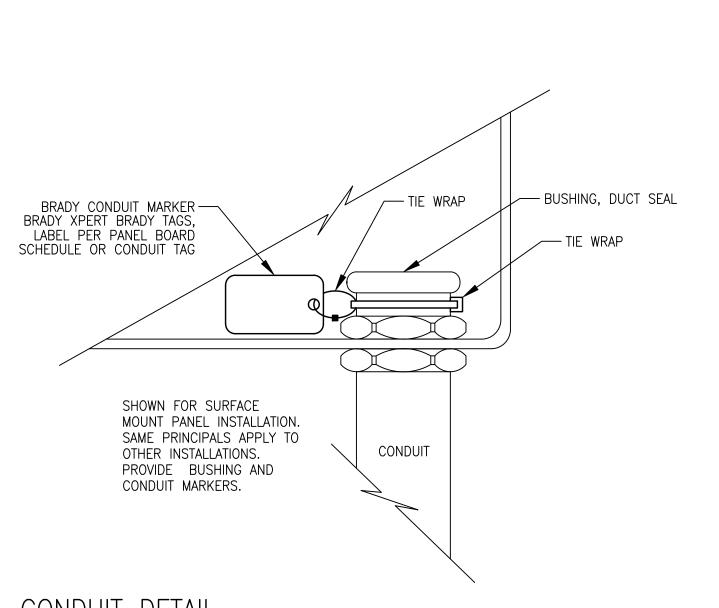
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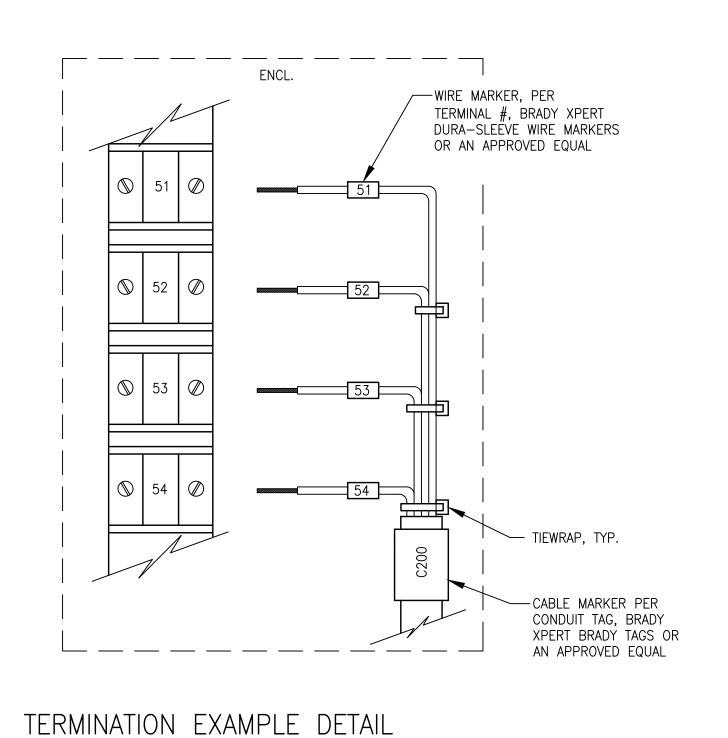
ELECTRICAL DETAILS

Sheet Number

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- INSPECTION HAND HOLE

— INSPECTION HAND HOLE COVER

FINAL GRADE, PAVED

FINAL GRADE, NON-PAVED

CABLE TO ROD CADWELD

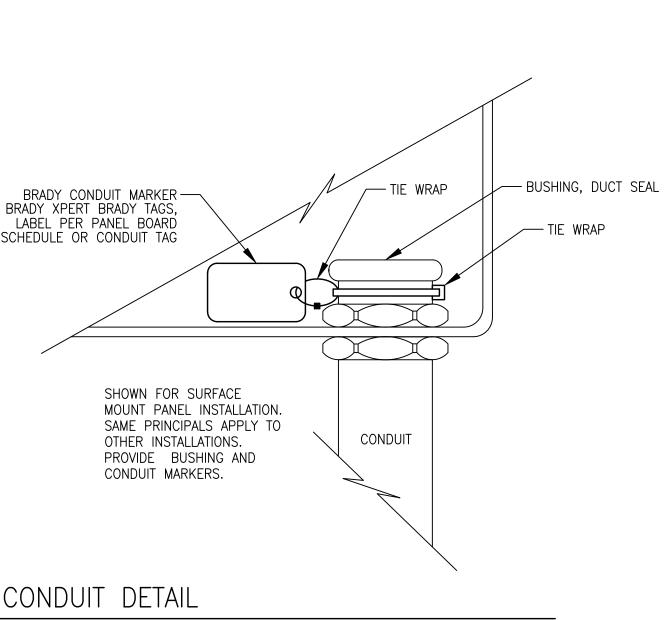
CONCRETE ——

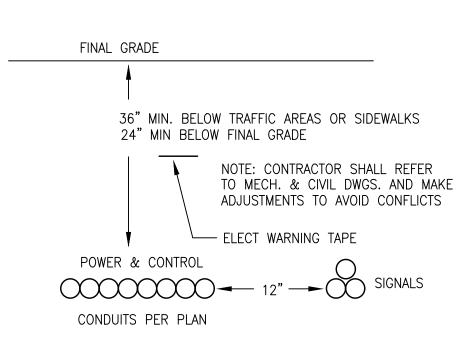
CLEAN SAND FILL -

GROUND RING —

GROUND WELL

NTS





DIRECT BURIED CONDUIT

NTS

CIRCUIT MARKER DETAIL

TIE WRAP —

BRADY CONDUIT — 316 SS MARKER,

PANELBOARD OR

NTS

CONDUIT TAG

LABEL PER

- TIE WRAP

CONDUCTORS

CONDUIT DETAIL NTS

C&W engineering ELECTRICAL CONSULTANTS 2775 VISTA PARKWAY, SUITE G6 WEST PALM BEACH, FL. 33411 (561) 642-5333 REGISTRATION NUMBERS C & W ENGINEERING INC. CA# 33315 MICHAEL A. GUIDA, P.E. 60755

LAS OLAS **MARINA PUMP**

STATION FORT LAW KINER WALLER, FEWATION

> 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252 SUNTEX MARINAS

LAS OLAS SMI, LLC

Consultants

Rev

Date

KIMLEY HORN CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

> C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

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MICHAEL A. GUIDA 60755

KHA PROJ #: 14045800

Project Phase FINAL

> **ELECTRICAL DETAILS**

> > E-6

Sheet Number

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INSERTION MAGMETER

FUNCTIONAL INDENTIFICATION

CLR CHLORINE RESIDUAL

DO DISSOLVED OXYGEN

TSS - TOTAL SUSPENDED SOLIDS

COND - CONDUCTIVITY

XX – ANALYZER

TURB. - TURBIDITY

рН – рН

| - | |
|--------------|--|
| M | - CHEMICAL METER PUMP |
| | - FLOW METER (MAGNETIC) |
| 0 | - PLC INPUT/OUTPUT POINT |
| \neq | - DIAPHRAM SEALS, FACTORY
FACTORY FILLED SILICONE |
| | |

1. THE I SHEETS SHALL BE USED FOR GENERAL ARRANGEMENT OF INSTRUMENTS, FIELD CONTROL PANELS,

- PRIMARY PROCESS LINE

- EXISTING PROCESS LINE

VENDOR SUPPLIED CABLE

- 120V POWER SUPPLY

FLOOR DRAIN

PROCESS FLUME

STATIC MIXER

DUPLEX GFR

- FLOW SWITCH

- OPERATOR I'FACE

AIR RELIEF VALVE

88888

- ELECTRICAL SIGNAL (PROPOSED)

ELECTRICAL SIGNAL (EXISTING)

INSTRUMENT AIR COMPRESSOR

- PRESSURE SENSOR (FLANGE)

- 2. I&C SUPPLIER SHALL PROVIDE PLC AND CONFIGURE INSTRUMENT AND CONTROL EQUIPMENT AS MAY BE COORDINATE W/OWNER FOR OWNER FURNISHED E
- FIELD INSTRUMÉNTS.

MEANINGS OF IDENTIFICATION LETTERS

| | FIRST | LETTER | | SUCCEEDING LETTERS | |
|---|---------------------------------------|-----------------------|-----------------------------|--|------------------------|
| | MEASURED OR INITIATING VARIABLE | MODIFIER | READOUT OR PASSIVE FUNCTION | OUTPUT FUNCTION | MODIFIER |
| Α | ANALYSIS | | ALARM | | |
| В | USERS' CHOICE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| С | CONDUCTIVITY (ELECTRICAL) | | | CONTROL | |
| D | DENSITY (MASS)
OR SPECIFIC GRAVITY | DIFFERENTIAL | | | |
| Ε | VOLTAGE (EMF) | | PRIMARY ELEMENT | | |
| F | FLOW RATE | RATIO (FRACTION) | | | |
| G | GAUGING (DIMENSIONAL) | | GLASS | | |
| Н | HAND (MANUALLY INITIATED) | | AUDIBLE HORN | | HIGH |
| 1 | CURRENT (ELECTRICAL) | | INDICATE | | |
| J | POWER | SCAN | | | |
| K | TIME OR TIME SCHEDULE | | | CONTROL STATION | |
| L | LEVEL | | LIGHT (PILOT) | | LOW |
| М | MOISTURE OR HUMIDITY | | | | MIDDLE OR INTERMEDIATE |
| N | AMPLITUDE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| 0 | USER'S CHOICE | | ORIFICE (RESTORATION) | | |
| Р | PRESSURE OR VACUUM | | POINT (TEST CONN.) | | |
| Q | QUANTITY OR EVENT | INTEGRATE OR TOTALIZE | | | |
| R | RUN | | RELAY | | |
| S | SPEED OR FREQUENCY | SAFETY | | SWITCH | |
| T | TEMPERATURE | | | TRANSMIT | |
| U | MULTIVARIABLE | | MULTIFUNCTION | MULTIFUNCTION | MULTIFUNCTION |
| V | VISCOSITY | | | VALVE, DAMPER OR LOUVER | |
| W | WEIGHT OR FORCE | | WELL | | |
| Χ | FAILURE | | | | |
| Υ | USER'S CHOICE | | | RELAY OR COMPUTE | |
| Z | POSITION | | | DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT | |

ABBREVIATIONS

| Al | ANALOG INPUT | LCP | LEVEL CONTROL PANEL |
|----------------|------------------------------|------|-------------------------------|
| AO | ANALOG OUTPUT | LR | LOCAL OR REMOTE |
| AM | AUTOMATIC OR MANUAL | LOR | LOCAL OFF REMOTE |
| ATB | ANALOG TERMINAL BOX | MB | MOD BUS |
| CL | CHLORINE | MB+ | MOD BUS PLUS |
| CP | CONTROL PANEL | MCC | MOTOR CONTROL CENTER |
| CTM | CURRENT TRIP MODULE | MCP | MAIN CONTROL PANEL |
|)I | DISCRETE INPUT | MOA | MANUAL OR OFF OR AUTOMATIC |
| N | DEVICE NET | MOD | MODULATING |
| 00 | DISCRETE OUTPUT | OC | OPEN OR CLOSE |
| DTB | DISCRETE TERMINAL BOX | OAC | OPEN AUTO CLOSE |
| ΞN | ETHERNET | OHC | OPEN OR HOLD OR CLOSE |
| ES | ELECTRICAL SUPPLY | PB | PUSH BUTTON |
| ETM | ELAPSED TIME METER | PCP | POSITION CONTROL PROCESSOR |
| | FLUORIDE | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| FCD | FLOW CONTROL DAMPER | RCT | REPEAT CYCLE TIMER |
| -CV | FLOW CONTROL VLV, OPEN-CLOSE | RTM | RUN TIME METER |
| FMD | FLOW MODULATING DAMPER | RTU | REMOTE TERMINAL UNIT |
| FMV | FLOW MODULATING VALVE | RO | READ OUT, DIGITAL |
| FOC | FIBER OPTIC CABLE | SDI | SILT DENSITY INDEX |
| - P | FIELD PANEL | SI | SIGNAL ISOLATOR |
| H0 | HAND OR OFF | S.P. | SAMPLE POINT |
| HOA | HAND OR OFF OR AUTOMATIC | TCLR | TOTAL CHLORINE |
| HOR | HAND OR OFF OR REMOTE | VFD | VARIABLE FREQUENCY DRIVE |
| LA | LOCAL OR AUTO | YN | YES OR NO |
| | | | |

C&W engineering ELECTRICAL CONSULTANTS 2775 VISTA PARKWAY, SUITE G6 WEST PALM BEACH, FL. 33411 (561) 642-5333

> REGISTRATION NUMBERS C & W ENGINEERING INC. CA# 33315 MICHAEL A. GUIDA, P.E. 60755

I&C LEGEND Sheet Number

LAS OLAS

MARINA

PUMP

STATION

LAS OLAS SMI, LLC 17330 PRESTON ROAD

SUNTEX MARINAS

1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING

WEST PALM BEACH, FL 33411

Consultants

Rev

Designed By

Approved / Checked By

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#60755 ON 2020/04/30 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED

SIGNATURE MUST BE VERIFIED ON ANY

_ _ _ _ _ _ MICHAEL A. GUIDA 60755

KHA PROJ #: 14045800

FINAL

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ELECTRONIC COPIES.

Project Phase

Sheet Title

Project Number

Drawn By

Date

SUITE 220A DALLAS, TX 75252

KIMLEY HORN

CIVIL ENGINEER

ELECTRICAL 2775 VISTA PARKWAY

Issued for

8/10/2020

FORT LATUBLE BURLET, FEORTIDIA

Page 28 of 38

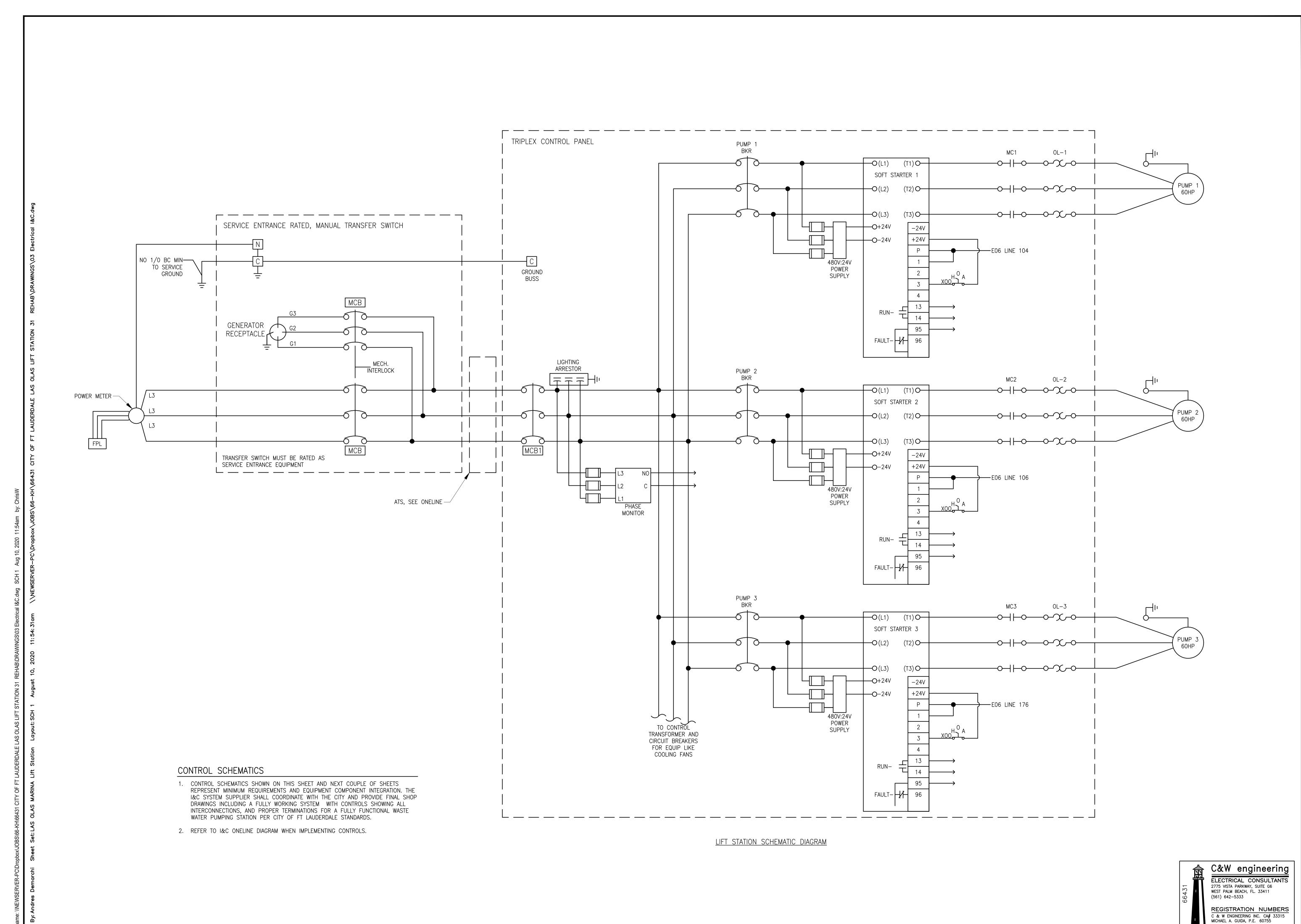
GENERAL NOTES

VENDOR CONTROL PANELS AND THE LIKE AND TO SHOW PLC AND OPERATOR INTERFACE REQUIREMENTS. IT IS NOT MEANT TO SHOW MECHANICAL EQUIPMENT REQUIREMENTS, SIZES AND THE LIKE.

REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.

3. PROVIDE NEW I/O INDICATED AND TERMINATE SIGNALS AT

LAS OLAS **MARINA PUMP STATION** FORT LATUDER DALE, FEORTIDA CAM 21-0029 Exhibit 1 Page 29 of 38



LAS OLAS
MARINA
PUMP
STATION

SIAIION
FORT LÄTÜLER DALLER, FETCHTOM

17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252

LAS OLAS SMI, LLC

SUNTEX MARINAS

Consultants

KIMLEY HORN
CIVIL ENGINEER

CIVIL ENGINEER 1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING

ELECTRICAL

2775 VISTA PARKWAY

WEST PALM BEACH, FL 33411

Rev Date Issued for

Date 8/10/2020

Designed By JLR

Drawn By AOD

Approved / Checked By MAG

Project Number 140458000

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Seal

__ __ __ __ __ MICHAEL A. GUIDA 60755

KHA PROJ #: 14045800

FINAL

Shoot Title

Project Phase

CONTROL PANEL SCHEMATICS

Sheet Number

I-3

CAM 21-0029 Exhibit 1 Page 29 of 33

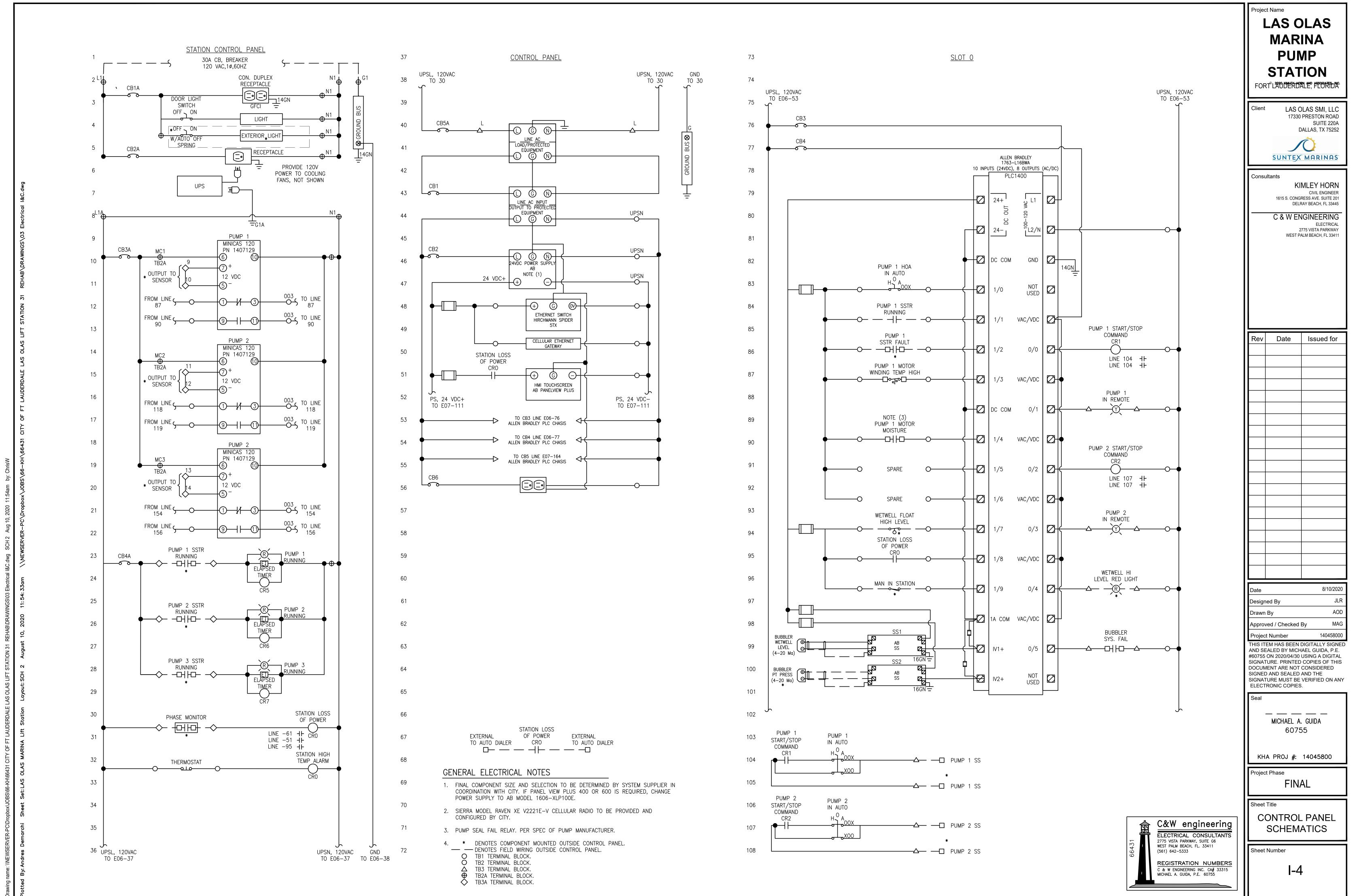
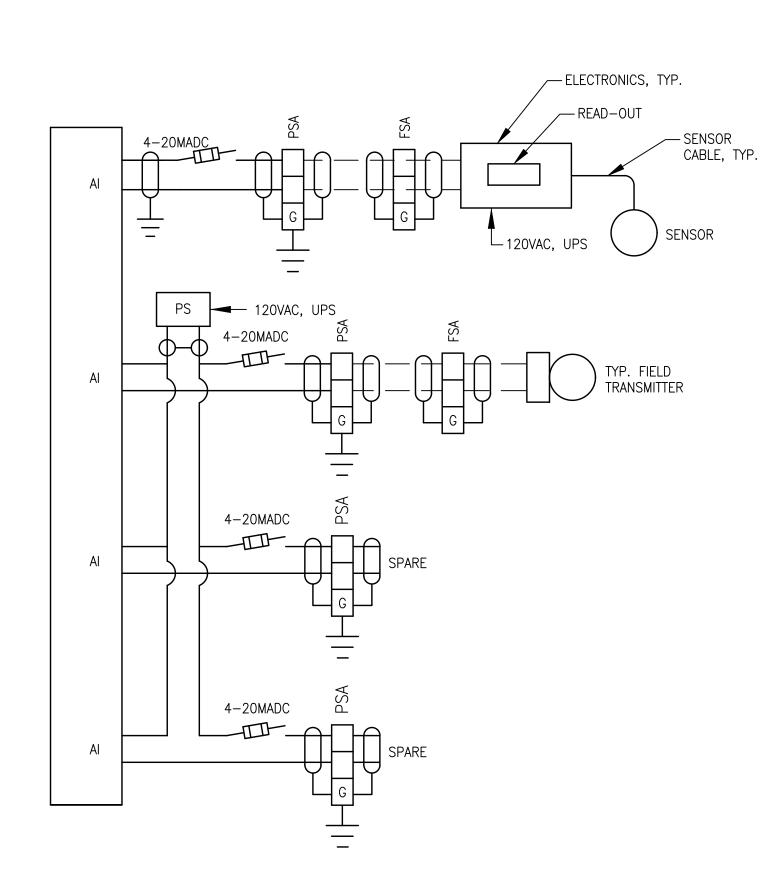


Exhibit 1

Page 30 of 33

CAM 21-0029 Exhibit 1 Page 32 of 33

→ 24VDC **→** COMMON TYP. 3 POS. SELECTOR FUSE WITH BLOWN FUSE
INDICATOR FOR LOOPS THAT
LEAVE THE PANEL OR SPARES TYP. CONTROL PANEL INPUT TYP. FIELD INPUT TVSS TYP. SPARE <u></u> ─ EDCO, OR EQ. TYPICAL DI DIAGRAM



TYPICAL AI LOOP DIAGRAM

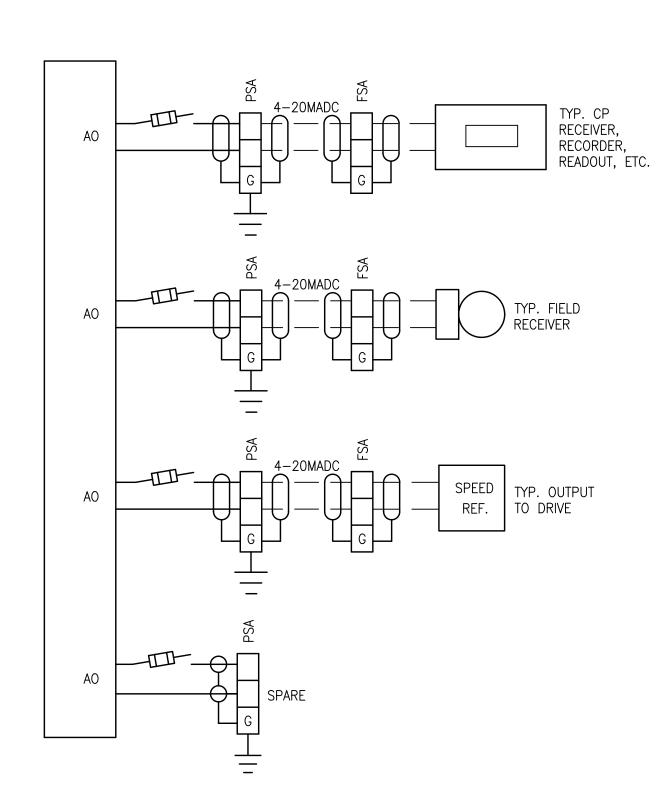
NTS

NTS

COMMON TYP. PILOT LIGHT

TYPICAL DO DIAGRAM

NTS



TYPICAL AO LOOP DIAGRAM

NTS

C&W engineering ELECTRICAL CONSULTANTS
2775 VISTA PARKWAY, SUITE G6
WEST PALM BEACH, FL. 33411
(561) 642-5333 REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

STATION FORT LATUDER DALE, FEORTIDA LAS OLAS SMI, LLC 17330 PRESTON ROAD SUITE 220A DALLAS, TX 75252 SUNTEX MARINAS KIMLEY HORN CIVIL ENGINEER

LAS OLAS

MARINA

PUMP

Consultants

1615 S. CONGRESS AVE. SUITE 201 DELRAY BEACH, FL 33445

C & W ENGINEERING ELECTRICAL 2775 VISTA PARKWAY WEST PALM BEACH, FL 33411

Rev Date Issued for 8/10/2020

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MICHAEL A. GUIDA

60755

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FINAL

Project Phase

STANDARD LOOP DIAGRAMS

I-6

Sheet Number

Las Olas Marina - Pump Station D-31 Replacement - Budget Estimate

| Activity | Description | | Budget |
|--|---|----|-------------------------|
| Cut & Cap Existing Conflicting Utilities | - AT&T and Water | | 7,643 |
| FPL | - Installation of new 3-phase transformer | | 15,000 |
| Excavation and Shoring of Existing 18" | | | |
| Force Main for New Lift Station Tie-in | - Includes night work and vac truck | | 54,007 |
| Tappling Sleeve | - Install new 10"x18" Tapping Sleeve and Valve in existing 18" Force Main (location SS-7)
- Install 15" Sanitary Sewer along Birch Road from SS-2 to SS-5 plus 20 LF tie-in to an existing | | 39,690 |
| Sanitary Sewer Main Line | Manhole; includes night work and vac truck | | 169,103 |
| Pump Station | - Wet well, pump station equipment, etc. | | 1,593,550 |
| Stucco Finish | - Light texture stucco finish to exposed CIP Concrete Foundation/Retaining Walls | | 7,854 |
| Dewatering | - Allowance | | 100,000 |
| Lift Station Fence and Gates | - 6.5 ft. tall with 1"x4" aluminum slats | | 42,435 |
| Demolition of Existing Lift Station | Includes bond Full time, senior level field supervisor for coordination oversight, quality control, schedule monitoring, | | 373,146 |
| General Conditions | and field documentation | | 264,146 |
| Subtotal | | | 2,666,574 |
| Contingency Allowance | | | 60,921 |
| GL Insurance | | | 45,868 |
| Fee | | | 97,735 |
| Subtotal
Bond | | ' | 2,871,098 28,902 |
| Total (Rounded) | | \$ | 2,900,000.00 |

Qualifications & Assumptions

- 1 Pricing assumes that no predrilling for lift station well excavation will be required.
- 2 Pricing excludes unforeseen concealed or subsurface conditions.
- 3 Pricing is subject to change due to increasing material prices until contract has been fully executed after all required permits are issued, and an NTP is in place for this scope of work.
- 4 Pricing assumes one mobilization per subcontractor.
- 5 Pricing assumes dewatering wells will be installed and fully approved by all authorities having jurisdiction for temporary construction dewatering operations prior to the start of this work.
- 6 Pump Station pricing is based on drawing package "City of Fort Lauderdale, Wastewater Pump Station D-31
- REPLACEMENT, Las Olas Marina, Fort Lauderdale, Florida by Kimley Horn, dated 8/7/2020, FINAL", and per approved
- 7 Pump Station is included as a turnkey subcontract scope of work for the structure and equipment fully installed and operational.
- 8 Removal or relocation of FPL's overhead lines, pole, or transformer at the new lift station location is not included.
- 9 Trade permit fees and inspection fees are not included.
- 10 Schedule impacts and related costs due to weather conditions or interruptions by third parties are not included.
- 11 Retaining wall reinforcement assumes a maximum of 28 lbs. of rebar per LF of wall.
- 12 The GMP assumes work will be allowed in the wet.
- 13 Engineering and Testing (soil, air, water) are excluded.
- 14 Vibration monitoring and Pre-construction survey are excluded.
- 15 Pricing assumes that underground utilities are accurately located by 811 Services, and at the depth indicated in the Civil plans.
- 16 Pump Station screening enclosure is priced per details #5 and #6 on L2-4.03 dated 12/08/2020 Slats shall be 1" x 4".
- 17 Soil, air, and water testing excluded.
- 18 Pricing excludes final landscaping of the Pump Station "island". This will be priced when final LS plan is issued and approved
- 19 Assumes full closure of Birch Road in the new lift station work zone for the duration of that work.