ORDINANCE NO. C-24-33

AN ORDINANCE OF THE CITY OF FORT LAUDERDALE, FLORIDA, APPROVING, PURSUANT TO SECTION 47-18.26 OF THE CITY OF FORT LAUDERDALE UNIFIED LAND DEVELOPMENT REGULATIONS ("ULDR"), THE LOCATION OF A STORMWATER PUMP STATION AND ASSOCIATED FACILITIES AS PUBLIC PURPOSE USES AND STRUCTURES WITHIN A RESIDENTIAL SINGLE FAMILY/LOW MEDIUM DENSITY (RS-8) ZONING DISTRICT ON A PROPERTY LEGALLY DESCRIBED AS ALL OF LOT 12, BLOCK 1, "DORSEY PARK FIRST ADDITION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 21, PAGE 30, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA, CONTAINING 5,650 SQUARE FEET, MORE OR LESS AND IDENTIFIED BY THE UNITED STATES POSTAL SERVICE ADDRESS 515 NORTHWEST 15TH AVENUE, FORT LAUDERDALE, FLORIDA; GRANTING RELIEF FROM SECTION 47-5.11, SECTION 47-25.3.A.d.i, AND SECTION 47-5.31 OF THE ULDR; PROVIDING FOR CONFLICTS; PROVIDING FOR AN EFFECTIVE DATE AND PROVIDING FOR CONDITIONS FOR THE TERMINATION OF PUBLIC PURPOSE STATUS.

WHEREAS, the applicant, City of Fort Lauderdale, proposes to locate a stormwater pump station and associated facilities as public purposes and structures within a Residential Single Family/Low Medium Density (RS-8) Zoning District on property generally located at 515 Northwest 15th Avenue, Fort Lauderdale, Florida (the "Development"); and

WHEREAS, the Development Services Department has submitted City Commission Agenda Memo No. 24-0646, hereinafter referred to as the "Memorandum", and incorporated herein as if fully set out herein; and

WHEREAS, at its meeting of March 20, 2024, the Planning and Zoning Board (PZ Case No. UDP-S22084) recommended approval of the Development as a Public Purpose Use; and

WHEREAS, the City Clerk notified the public of public hearings to be held on Tuesday, June 18, 2024, at 6:00 o'clock P.M., and Tuesday, July 2, 2024, at 6:00 o'clock P.M. before the City Commission at the Horvitz Auditorium NSU Art Museum located at 1 East Las Olas Boulevard, Fort Lauderdale, Florida, for the purpose of hearing any public comment to the application; and

WHEREAS, the City Commission has reviewed the application and conducted a public hearing, and found that the Development meets the criteria set out in Section 47-18.26.F. of the City of Fort Lauderdale, Florida Unified Land Development Regulations ("ULDR");

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA:

SECTION 1. That the foregoing WHEREAS clauses set forth above are true and correct and herein incorporated by this reference.

SECTION 2. That upon review of the application for approval of the Development as a public purpose use, the City Commission hereby finds the Application meets the requirements provided in Section 47-18.26 of the ULDR as follows:

(a) There is a need for the stormwater pump station at the proposed location because the Dorsey Riverbend Neighborhood experiences flooding during heavy rain events. The proposed site is in a low point of the neighborhood which allows stormwater to flow by gravity to the pump station where it will be pumped via force main to the North Fork New River outfall.".

(b) The proposed use meets a valid municipal purpose as stormwater pump station will benefit the health, safety and welfare of the surrounding community by reducing flooding in the Dorsey Riverbend neighborhood.

(c) The Development at this location is not in conflict with the City of Fort Lauderdale Comprehensive Plan.

(d) The site plan incorporates off-site and on-site conditions that will address and reduce any impact of permitting the Development at the proposed location.

(e) The site plan incorporates on-site improvements that minimize any impact as a result of permitting the public use or amenities.

(f) Alternative locations for the Development were identified and reviewed.

(g) The proposed site has been determined to be the most feasible for the Development. Hydraulic modeling of rain events was evaluated to identify areas that require the most stormwater improvements to relieve flooding. The pump station site is in a low point of the neighborhood that requires a pump station to pump the stormwater to the North Fork New River outfall.

(h) The public purpose to be met by the location of the use of the public stormwater pump station outweighs the application of the zoning regulation. The stormwater improvements will benefit the Dorsey Riverbend Neighborhood, making the area more resilient and sustainable, while reducing the negative impacts of stormwater flood events. The pump station is part of the City's efforts to provide proactive stormwater infrastructure that is critically needed.

SECTION 3. That based on the findings provided in SECTION 2 of this Ordinance, the City Commission hereby approves the application for the Development as a Public Purpose Use located on the parcel of land legally described as follows:

> ALL OF LOT 12, BLOCK 1, "DORSEY PARK FIRST ADDITION", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 21, PAGE 30, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA, CONTAINING 5,650 SQUARE FEET, MORE OR LESS.

as more particularly described in Exhibit "A" attached hereto.

SECTION 4. That relief from the following zoning regulations is hereby granted as specified in City Commission Agenda Memorandum No. 24-0646:

- Section 47-5.11 – "List of permitted and conditional uses, RS-8 and RS-8A Residential Single Family/Low Medium Density District."
- Section 47-25.3.A.D.l, "Neighborhood compatibility requirements." and
- Section 47-5.31 – "Table of dimensional requirements for the RS-8 district. (Note A)"

SECTION 5. That the approval of the public purpose use and structure and the relief from the zoning regulations granted are based on conceptual site plan submitted with the application attached to City Commission Agenda Memorandum No. 24-0646 as part of Exhibit 2, which is hereby incorporated by reference and approved, subject to modifications and conditions imposed by the Development Review Committee, Planning and Zoning Board, and City Commission.

SECTION 6. That pursuant to the provisions of the ULDR, the proper City officials are hereby authorized to issue the necessary building and use permits subject to the conditions imposed by the Development Review Committee, Planning and Zoning Board and City Commission.

SECTION 7. The approval of a public use or facility shall terminate when the use or facility is no longer publicly owned or used, and the property upon which the use or facility is located shall be subject to the requirements of the zoning district within which it is located.

SECTION 8. Issuance of a development permit by a municipality does not in any way create any right on the part of an applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the municipality for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.

SECTION 9. This approval is conditioned upon the applicant obtaining all other applicable state or federal permits before commencement of the development.

SECTION 10. That if any clause, section or other part of this Ordinance shall be held invalid or unconstitutional by any court of competent jurisdiction, the remainder of this Ordinance shall not be affected thereby, but shall remain in full force and effect.

SECTION 11. That all ordinances or parts of ordinances in conflict herewith, be and the same are hereby repealed.

SECTION 12. That this ordinance shall be in full force and effect immediately upon and after its final passage.

PASSED FIRST READING this 18th day of June, 2024.
PASSED SECOND READING this 2nd day of July, 2024.

Mayor
DEAN J. TRANTALIS

ATTEST:

City Clerk
DAVID R. SOLOMAN

EXHIBIT "A"

DEVELOPMENT PLAN

DRAWING INDEX

CITY OF FORT LAUDERDALE

PROJECT #P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD

FORT LAUDERDALE, FLORIDA

DEVELOPMENT REVIEW COMMITTEE APPLICATION DRAWINGS
SITE PLAN LEVEL IV SUBMITTAL
SEPTEMBER 2023

NORTH LOCATION SKETCH

PROJECT #P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J TRANTALIS	MAYOR
JOHN C HERBST	COMMISSIONER - DISTRICT I
STEVEN GLASSMAN	COMMISSIONER - DISTRICT II
PAMELA BEASLEY-PITTMAN	COMMISSIONER - DISTRICT III
WARREN STURMAN	COMMISSIONER - DISTRICT IV

PROJECT MANAGER	JOB TITLE	PHONE NO.

DATE: 09/2023
CAD FILE: 11875-DRC-COVER-0-00
DRAWING FILE No.: 4-143-65

NOT FOR CONSTRUCTION

INDEX OF DRAWINGS

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2	GG-GN-02	ABBREVIATIONS
3	GG-GN-03	SYMBOLS
4	GG-GN-04	GENERAL NOTES
5	SU-18	SURVEY PLAN
6	GG-KY-01	AERIAL MAP AND BOUNDARY
7	GG-DRC-01	DRC PERMIT KEY MAP
8	GG-DRC-02	DRC PERMIT PROPOSED SITE PLAN
		CIVIL - DETAILS
9	CZ-DT-14	CIVIL DETAILS - SHEET 14
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11	LD-02	LANDSCAPE PLAN
12	LD-03	LANDSCAPE DETAILS
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13	MD-DR-01	PUMP STATION DETAILS
14	MD-DR-02	PUMP STATION UPPER PLAN
15	MD-DR-03	PUMP STATION SECTIONS
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17	ED-DR-02	ELECTRICAL BUILDING POWER AND LIGHTING PLANS
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19	AA-DR-01	PUMP STATION PLANS
20	AA-DR-02	ELEVATIONS
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23	AA-DR-05	PUMP STATION ILLUSTRATIVE SITE PLAN
24	AA-DR-06	PUMP STATION 3D RENDERINGS
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26	CD-ST-02	EROSION CONTROL SITE PLAN
		CIVIL-DETAILS
27	CZ-DT-04	CIVIL DETAILS - SHEET 4
28	CZ-DT-05	CIVIL DETAILS - SHEET 5

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HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

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DRAWN BY: HCD	DATE: 06/2023
REVIEWED BY: JN	SCALE: NONE
CHECKED BY: JS	
FIELD BOOK:	PAGE:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	DESCRIPTION

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
DRC PERMIT - LIST OF DRAWINGS

SHEET NO.
GG-GN-01
TOTAL
CAD FILE: 11845-GG-GN01
DRAWING FILE NO. 6-143-65

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
DISCHR	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
PRBB	POLLUTION RETARDANT BAFFLE
PS	PUMP STATION
PT	PRESSURE TREATED
⊥	RIM
RAD, R	RADIUS
RECIR	RECIRCULATION
RE	RIM ELEVATION
REHAB	REHABILITATION
REINF	REINFORCING
REQ'D	REQUIRED
R/W,	ROW RIGHT OF WAY
SECT	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

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DRC PERMIT - NOT FOR CONSTRUCTION

REVISIONS			
NO	DATE	BY	DESCRIPTION

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REVIEWED BY: DK
SCALE: NONE
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FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
ABBREVIATIONS

SHEET NO.
GG-GN-02
TOTAL 127
CAD FILE: 11845-GG-GN03
DRAWING FILE NO. 4-143-65

LINETYPES

COMMUNICATION, CABLE TV, TELEPHONE:

- COMCAST LINES
- COMMUNICATIONS
- CROWN CASTLE LINES
- FIBERNET DIRECT LINES
- LEVEL 3 LINES
- GPG LINES
- UGT — UNDERGROUND TELEPHONE LINES
- OHT — OVERHEAD TELEPHONE LINES

ELECTRIC LINES:

- ELEC — ELECTRIC DUCT (X-X = WIRES/GUAGE)
- UGE — UNDERGROUND ELECTRIC LINES
- OHE — OVERHEAD ELECTRIC LINES

OTHER LINES:

- GAS — GAS MAIN (SIZE UNKNOWN)
- X" GAS — GAS MAIN (SIZE)
- AIR — UNDERGROUND AIR LINE
- FM — SANITARY FORCE MAIN (SIZE UNKNOWN)
- X" FM — SANITARY FORCE MAIN (SIZE)
- X" PVC FM — SANITARY FORCEMAIN (SIZE/MATERIAL)
- SAN — SANITARY GRAVITY (SIZE UNKNOWN)
- X" SAN — SANITARY GRAVITY MAIN (SIZE)
- X" PVC SAN — SANITARY GRAVITY (SIZE/MATERIAL)
- SD — STORM DRAINAGE (SIZE UNKNOWN)
- X" SD — STORM DRAINAGE (SIZE)
- X" PVC SD — STORM DRAINAGE (SIZE/MATERIAL)
- WM — WATER MAIN (SIZE UNKNOWN)
- X" WM — WATER MAIN (SIZE)
- X" DIP WM — WATER MAIN (SIZE/MATERIAL)
- OHW — OVER HEAD WIRES (TYPE UNKNOWN)
- UNK UG — UNDERGROUND LINE (TYPE UNKNOWN)
- ABANDONED
- EXISTING
- PROPOSED
- PROPOSED PIPELINE (DOUBLE LINE IF SCALE OF DRAWING PERMITS)
- PLASTIC FENCE
- WOODEN FENCE
- WROUGHT IRON FENCE
- CHAIN LINK FENCE
- BOARD FENCE
- PROPERTY LINE
- EASEMENT LINE
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING PIPE TO BE PLUGGED AND GROUT FILLED
- EXISTING PIPE TO BE REMOVED
- XX.XX EXISTING SPOT ELEVATION

SYMBOLS, LEGEND AND HATCH PATTERNS

LANDSCAPING SYMBOLS:

- PALM TREE
- SHADE TREE
- PINE TREE
- CACTUS
- HEDGE
- VEGETATION
- BUSH
- UNKNOWN TREE

LEGEND:

- A/C — AIR CONDITIONING UNIT
- AIR RELEASE VALVE
- AVR — AIR VALVE MANHOLE
- ANCHOR
- BFP — BACK FLOW PREVENTER
- BASKET BALL HOOP
- BBQ — BBQ GRILL
- BOAT ANCHOR CLEAT
- BOLLARD
- BUILDING COLUMN/PILE
- CATV PEDESTAL
- CB — CATCH BASIN
- CBI — CATCH BASIN INLET
- CLEAN OUT
- COMMUNICATION MANHOLE
- COMMUNICATION VAULT
- CONCRETE LIGHT POLE
- CONCRETE POST
- CONCRETE POWER POLE
- CONTOUR LINE ELEVATION
- CROSS FITTING
- CRB — CURB INLET
- DECORATIVE/YARD LIGHT POLE
- DETECTOR CHECK VALVE
- DOUBLE DETECTOR CHECK VALVE
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRICAL METER
- EM — ELECTRIC METER/SERVICE
- ELECTRICAL OUTLET
- ELECTRICAL PEDESTAL
- ELECTRICAL PULL BOX
- ELECTRICAL VAULT
- XX.XX EXISTING SPOT ELEVATION

LEGEND CONT:

- FIRE HYDRANT
- FIBER OPTIC PEDESTAL
- FLAG — FLAG POLE
- FM — FORCE MAIN VALVE
- GAS FUEL CAP
- GAS MARKER
- GM — GAS METER
- GAS — GAS VALVE
- GAS WELL
- GATE CONTROL BOX
- GTM — GREASE TRAP MH
- GUY ANCHOR AND WIRE
- HOSE BIBB
- IVC — IRRIGATION CONTROL VALVE
- LS — LIFT STATION
- LSC — LIFT STATION CAN
- LIGHT POLE
- LP — LP GAS TANK
- MAILBOX
- MD — MAIL DROP BOX
- MANHOLE
- MARKER POST
- METAL LIGHT POLE
- MONITORING WELL
- OUTFALL
- PARK BENCH
- PEDESTRIAN SIGNAL
- PILE
- PN — PIN FLAG
- PIPE MATERIAL CHANGE
- PARKING LIGHT 1 BULB
- PARKING LIGHT 1 BULB
- PARKING LIGHT 2 BULBS
- PARKING LIGHT 2 BULBS
- PARKING LIGHT 3 BULBS
- PARKING LIGHT 3 BULBS
- PARKING LIGHT 4 BULBS
- PARKING LIGHT 4 BULBS
- PARKING METER
- PARKING METER (DOUBLE)
- PLUG
- PIV — POST INDICATOR VALVE
- REDUCER
- RD — ROOF DRAIN

LEGEND CONT:

- RR — RAILROAD CROSSING GATE
- REDUCER FITTING
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- SANITARY WYE LATERAL
- SIAMESE VALVE
- SIGN
- SIGN DOUBLE POST
- SPOT-FLOOD LIGHT
- SPRINKLER HEAD
- SB — SOIL BORING
- SQUARE COLUMN
- STEEL I-BEAM
- STORM CLEAN OUT
- STORM MANHOLE
- STORM DRAINAGE VAULT
- TEE FITTING
- TELEPHONE BOOTH
- TELEPHONE JUNCTION BOX
- TELEPHONE MANHOLE
- TELEPHONE ON PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE PULL BOX
- TELEPHONE VAULT
- TEST EXCAVATION LOCATION
- TEST HOLES
- TOWER
- TRAFFIC CAMERA
- TRAFFIC CONTROL
- TRAFFIC POLE
- TRAFFIC PULL BOX
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL POLE
- TRANSFORMER PAD
- TRASH CAN
- TRASH CAN
- UNKNOWN MANHOLE
- VALLEY CURB INLET
- VALVE BOX
- VALVE PIPE
- WATER MANHOLE
- WATER METER
- WATER METER
- WATER METER (DOUBLE)
- WATER PUMP

LEGEND CONT:

- WV — WATER VALVE
- WATER VAULT
- WATER WELL
- WOOD POST
- WOOD LIGHT POLE
- WOOD TELEPHONE POLE
- WOOD POWER POLE
- YD — YARD DRAIN

CONTROL LEGEND:

- AERIAL TARGET
- BENCH MARK
- DRILL HOLE
- HUB & TACK
- IRON PIPE
- IRON ROD
- NAIL&TAB
- PERMANENT REFERENCE MONUMENT
- PERMANENT REFERENCE MONUMENT NAIL&TAG
- PKNAIL SPIKE
- QUARTER SECTION CORNER
- SECTION CORNER

HATCH LEGEND:

- PERMEABLE PAVEMENT
- GRASSY SWALE
- GRADING / CRACKING DIRECTION
- EXFILTRATION TRENCH
- ASPHALT
- CONCRETE
- PAVER BRICKS
- GRAVEL
- MILL & RESURFACE
- DEMOLITION AREA
- DEMOLITION ITEM

SECTION AND DETAIL IDENTIFICATION

SECTION IDENTIFICATION

A. SECTION CUT ON DRAWING G-1:

SECTION LETTER — A — CU-PP-02 — DRAWING ON WHICH SECTION APPEARS. (1)

B. ON DRAWING G-2 THIS SECTION IS IDENTIFIED AS:

SECTION — SECTION LETTER — A — SCALE: — CU-PP-01 — DRAWING FROM WHICH SECTION WAS TAKEN. (1)(2)

DETAIL IDENTIFICATION

A. DETAIL CALL-OUT ON DRAWING:

XXXX DETAIL — DETAIL NUMBER — 1 — CZ-DF-01 — DRAWING ON WHICH DETAIL APPEARS. (1)

B. ON DRAWING CZ-DF-01 THIS DETAIL IDENTIFIED AS:

DETAIL TITLE — DETAIL TITLE — DETAIL — DETAIL NUMBER — 1 — NO SCALE — DRAWING ON WHICH DETAIL IS CALLED OUT. (1)(3)

STANDARD DETAIL IDENTIFICATION

A. STANDARD DETAIL CALL-OUT ON DRAWING:

XXXX DETAIL — DETAIL NUMBER — 1 — CZ-DF-02 — DRAWING ON WHICH DETAIL APPEARS. (1)

B. STANDARD DETAIL ON DRAWING CZ-DF-02 THIS DETAIL IDENTIFIED AS:

DETAIL TITLE — DETAIL TITLE — DETAIL — DETAIL NUMBER — 1 — STD — NO SCALE — STANDARD DETAIL (4)

NOTES:

(1) IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACE BY A DASH (-).

(2) IF SECTION IS SHOWN IN TWO OR MORE LOCATIONS, THE FIRST DRAWING NUMBER WHERE THE SECTION IS SHOWN IS DISPLAYED IN THE SECTION TITLE.

(3) IF A DETAIL IS SHOWN IN TWO OR MORE LOCATIONS, THE DRAWING NUMBER IN THE DETAIL TITLE IS REPLACED WITH A DASH (-).

(4) IF THE DETAIL TITLE REFERS TO A STANDARD DETAIL, THE DRAWING NUMBER IN THE DETAIL TITLE IS REPLACED WITH THE ABBREVIATION STD.

GENERAL NOTES:

(1) ELECTRICAL SYMBOLS SHOWN ON ELECTRICAL SHEETS.

(2) FOR WELDING SYMBOLS USE AMERICAN WELDING SOCIETY STANDARD SYMBOLS.

* DENOTES DIMENSIONS OR ELEVATIONS DEPENDENT ON EQUIPMENT SUPPLIED

Hazen

HAZEN AND SAWYER
6000 HOLLYWOOD BLVD, SUITE 730N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

HDR

3250 West Commercial Boulevard
Suite 100
Ft. Lauderdale, Florida 33308-3468
Certificate of Authorization No: 4213

DRC PERMIT - NOT FOR CONSTRUCTION

REVISIONS			
NO	DATE	BY	DESCRIPTION

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
SYMBOLS

SHEET NO.
GG-GN-03
TOTAL: 127

CAD FILE: 11845-GG-GN04
DRAWING FILE NO. A-143-65

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: HSD
DATE: 11/30/2022
DESIGNED BY: DK
SCALE: NONE
CHECKED BY: JS
FIELD BOOK: XXXX

DESIGNER: DANIEL R. SCHAEZ
REG. No: 82068
REG. No: 82068
REGISTRATION
TEL: 954-987-4848
FAX: 954-987-4849

P11845

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 AND ASSOCIATES INC. (CTA).
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: CTA SURVEY. 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 DRAWINGS.
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. THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
35. 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.
36. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
37. 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.
38. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
39. 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.
40. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
41. 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.
42. 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.
43. 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.
44. 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.
45. PIPE LENGTHS SHOWN ON THE PLANS FOR NEW STORM GRAVITY PIPING ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED. COORDINATES FOR STRUCTURES SHOWN ON THE PLANS ARE LOCATED AT THE CENTER POINT OF STRUCTURE.

Hazen

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Certificate of Authorization No: 4213

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
GENERAL NOTES

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
(33) North Andrews Avenue, Fort Lauderdale, Florida 33311

DRAWN BY: HCO	DATE: 11/30/2022
DESIGNED BY:	SCALE: NONE
CHECKED BY: IS	FIELD BOOK: XXXX

ENGINEER: SAMUEL B. SOLLAZZO
REG. No. 67000
DATE: 08/08/2018
TEL: 954-522-4616
FAX: 954-522-4465

SHEET NO.
GG-GN-04
TOTAL: 127
CAD FILE: 11845-00-GN05
DRAWING FILE NO. 4-143-65

PLOT DATE: 12/21/2022 9:50 AM BY: JECLARK@Hazen

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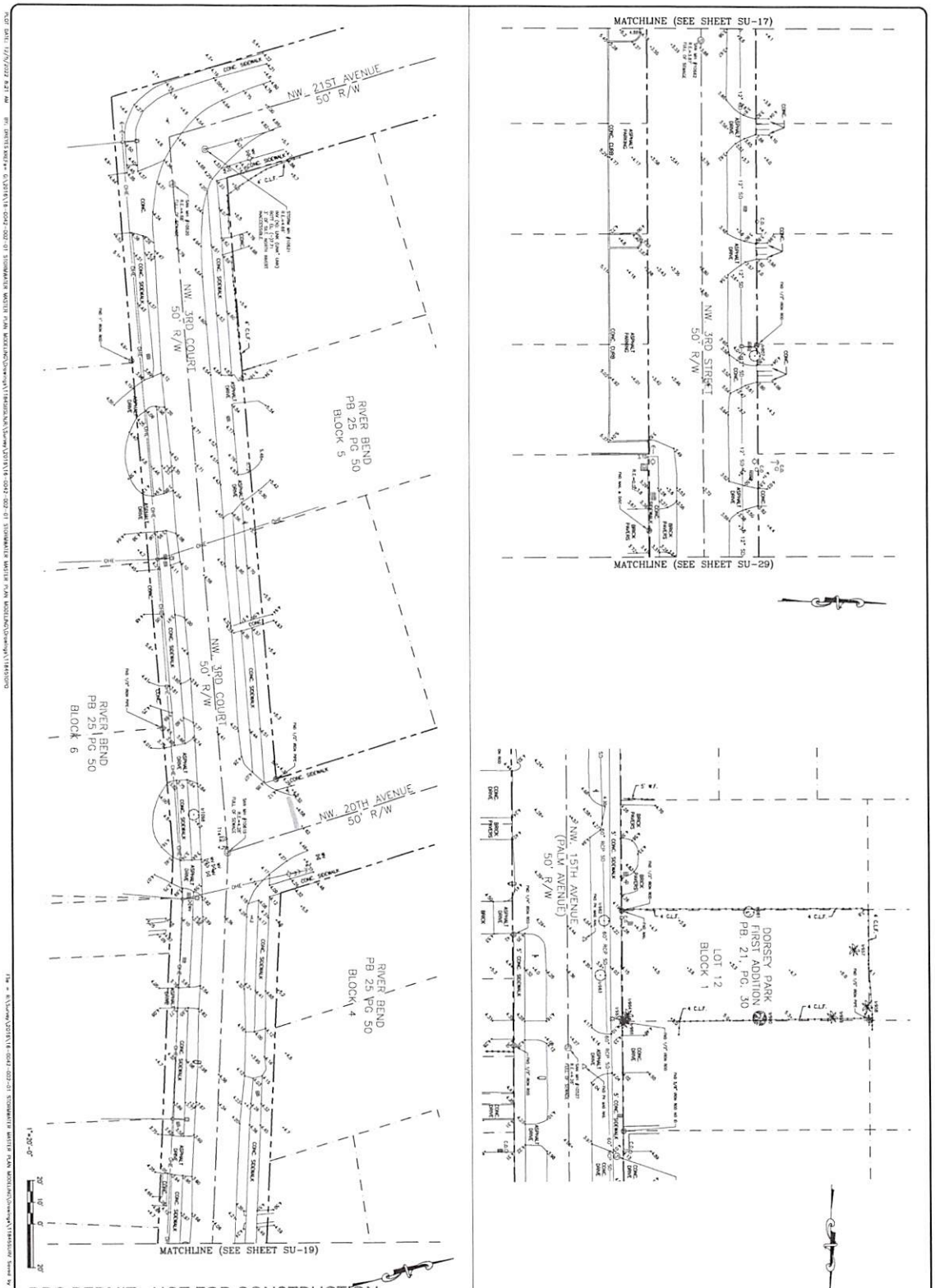


DRC PERMIT - NOT FOR CONSTRUCTION

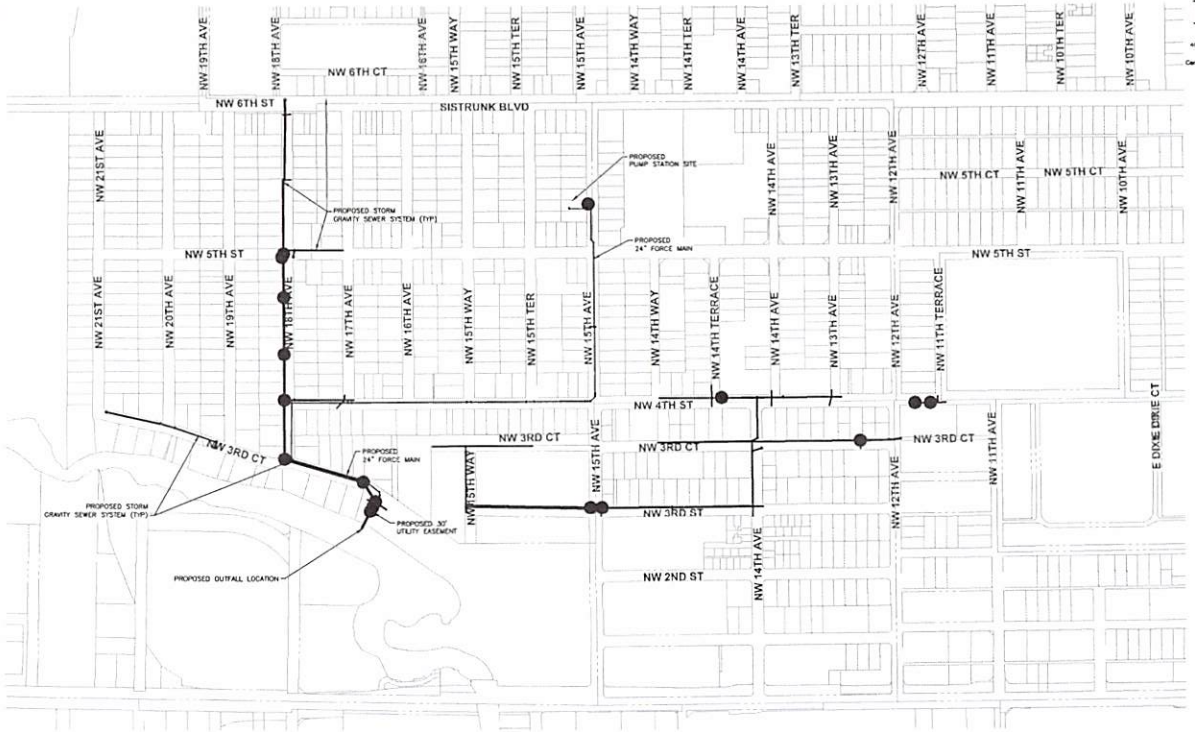
SHEET NO. SU-18 OF 999	PROJECT # 11845 STORMWATER IMPROVEMENTS DORSEY NEIGHBORHOOD SURVEY SURVEY PLAN	REVISIONS NO. DATE BY CHK'D DESCRIPTION	CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: XX	DATE: 02/01/17
DESIGNED BY: XX	SCALE: 1"=20'
CHECKED BY: XX	
FIELD BOOK: XXXX	

SURVEYOR
Name
FL PSM No: No.
DATE:XX.XX.XX

TEL: 954-XXX-XXXX
FAX: 954-XXX-XXXX

TOTAL 999
CAD FILE 11845SURV
DRAWING FILE NO. 4-XXX-XX



Hazen

HAZEN AND SAWYER
6000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

HDR

3200 West Commercial Boulevard
Suite 120
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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 # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
AERIAL MAP AND BOUNDARY

SHEET #0.
GG-KY-01
TOTAL 127
CAD FILE: 11845-GG-KY01
DRAWING FILE NO. 4-143-65

PROJECT SITE LOCATION MAP
1"=100'-0"

Hazen
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4000 HOLLYWOOD BLVD, SUITE 750N
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HDR
3250 West Commercial Boulevard
Suite 160
Ft. Lauderdale, Florida 33309-3459
Certificate of Authorization No: 4213

PROPERTY ADDRESS:

515 NW 15TH AVE.
FORT LAUDERDALE, FL 33311

PROPERTY OWNER INFORMATION:

OWNER: CITY OF FORT LAUDERDALE

MAILING ADDRESS: 914 SISTRUNK BLVD.
FORT LAUDERDALE, FL 33311

PROPERTY LOCATION:

COUNTY: BROWARD
TOWNSHIP: 50
RANGE: 42
SECTION: 04
LATTITUDE: 26.12800
LONGITUDE: -80.16192

PROPERTY DESCRIPTION

DORSEY PARK FIRST ADD 21-30 B LOT 12
BLK 1

SITE PLAN REQUIREMENTS:

PROJECT SITE No. 1:
DRC SITE PLAN LEVEL IV
CITY COMMISION REVIEW

DRC PERMIT - NOT FOR CONSTRUCTION

ENGINEER: Hazen and Sawyer, HDR, Inc.
TEL: FAX:
DRAWN BY: DATE:
APPROVED BY: SCALE:
DESIGNED BY:
FIELD BOOK:

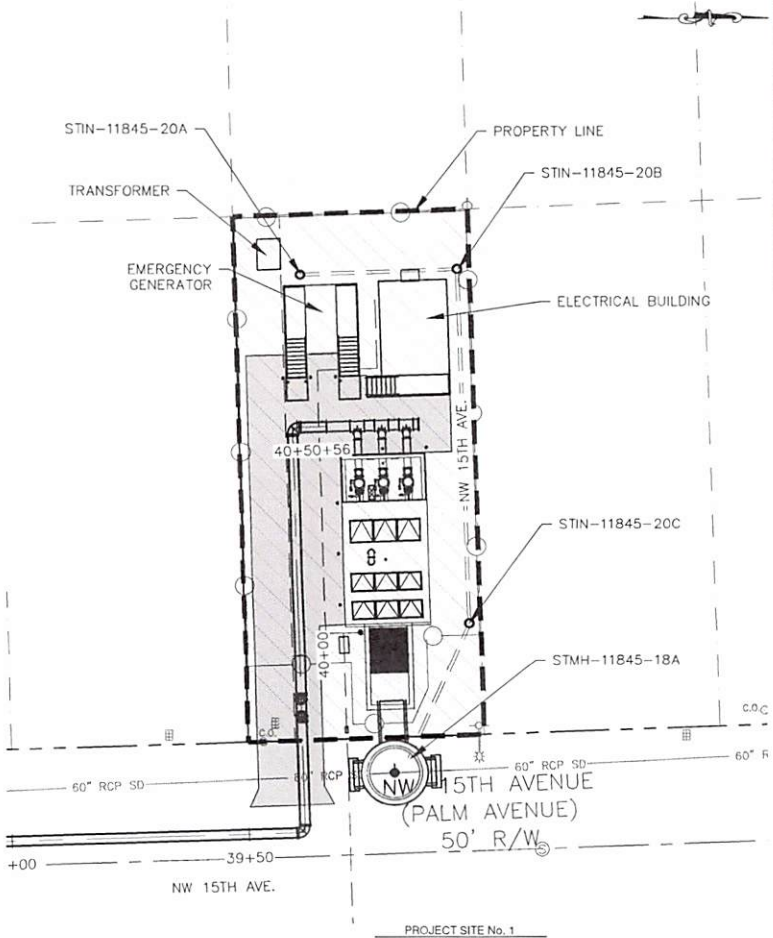
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
700 North Andrews Avenue, Fort Lauderdale, Florida 33311

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
KEY MAP

SHEET NO.
GG-DRC-01
TOTAL: 0
CAD FILE: 1875-DRC-KEY MAP-GG
DRAWING FILE NO. 4-143-65



PROJECT SITE No. 1
1"=20'-0"

PROJECT SITE AERIAL MAP
1"=1000'-0"

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 730N
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Suite 100
Ft. Lauderdale, Florida 33309-3459
Certificate of Authorization No: 4213

DRC SITE PLAN LEVEL IV
CITY COMMISSION
REVIEW

PROPERTY ADDRESS:

515 NW 15TH AVE.
FORT LAUDERDALE, FL 33311

PROPERTY INFORMATION:

FOLIO: 504204240110

ZONING: RS-8

PROPERTY OWNER INFORMATION:

OWNER: CITY OF FORT LAUDERDALE

MAILING ADDRESS: 914 SISTRUNK BLVD.
FORT LAUDERDALE, FL. 33311

PROPERTY LOCATION:

COUNTY: BROWARD
TOWNSHIP: 50
RANGE: 42
SECTION: 04
LATITUDE: 26.12800
LONGITUDE: -80.16192

FLOOD INFORMATION:

FLOOD ZONE: AH
BASE FLOOD ELEVATION = 6
FLOOD DESIGN CLASS 3
MINIMUM FFE = 7

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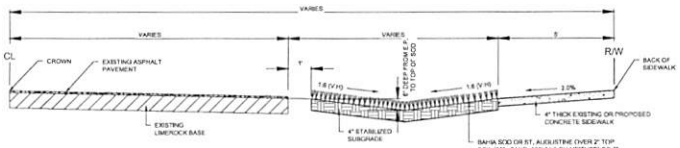
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
700 North Andrews Avenue, Fort Lauderdale, Florida 33311

REVISIONS			
NO.	DATE	BY	DESCRIPTION

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
PROPOSED SITE PLAN

SHEET NO.
GG-DRC-02
TOTAL: 0
CAD FILE: 11875-2C-01-PERMIT
DRAWING FILE NO. 4-143-65



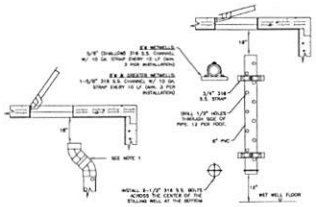
NOTES:

1. CONTRACTOR SHALL CENTER BOTTOM OF SWALE BETWEEN EDGE OF PAVEMENT AND EDGE OF SIDEWALK, OR EDGE OF PAVEMENT NO R/W LINE IF NO SIDEWALK EXISTS.
2. THE SWALE BOTTOM ELEVATION SHALL MATCH THE GRATE ELEVATION OF THE NEAREST CATCH BASIN INLET, IF ONE EXISTS WITHIN THE SWALE.
3. COMPACTION WITHIN THE LIMITS OF THE SWALE SHALL BE AVOIDED. IF COMPACTION OCCURS, CONTRACTOR SHALL TILL THE AREA TO IMPROVE INFILTRATION RATES.

6" SWALE PROFILE

DETAIL 1

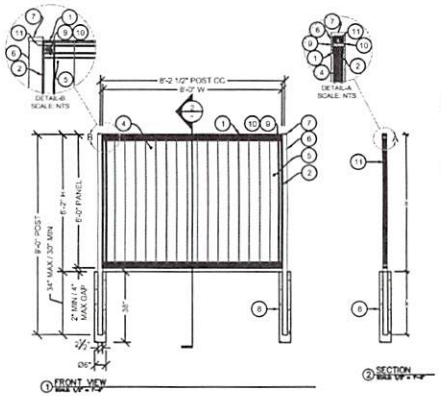
NO SCALE



STILLING WELL DETAILS

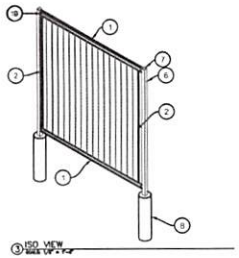
NOTES:

1. FOR LARGER LIFT STATIONS, PROVISIONS SHALL BE MADE TO MAKE THE TOP OF THE STILLING WELL VISIBLE AND ACCESSIBLE FROM THE HATCH OPENING, I.E. KIT FITTINGS, ETC.



① FRONT VIEW
SCALE: 1/4" = 1'-0"

② SECTION
SCALE: 1/4" = 1'-0"



③ ISO. VIEW
SCALE: 1/4" = 1'-0"

ABBREVIATIONS	
HARDWARE MATERIAL REFERENCE	
MATERIAL	
CENTER TO CENTER	
ENGINEER OF RECORD	
GAUGE	
HEIGHT	
INDUSTRIAL PLASTICS INSTITUTE	
LENGTH	
MAXIMUM	
MINIMUM	
NOT TO SCALE / DO NOT SCALE	
SQUARE	
THICK / THICKNESS	
TYPICAL	
UNLESS OTHERWISE SPECIFIED	
WITH	

ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	3" X 4"-0" CHANNEL	HORIZONTAL (TOP,MID) GALVANIZED STEEL CHANNEL RAIL
2	3	3" X 6"-0" CHANNEL	VERTICAL GALVANIZED STEEL CHANNEL RAIL
3	A/R	CHANNELS ALLOW FOR UP TO 7" SHK METAL EXPANSION	WELL QUANTITY MAY VARY DEPENDING ON TYPE SELECTED
4	16	2 X 2 X 6'-0" BOARDS	WELL EXAMPLE ILLUSTRATED. VERTICAL BOARDS
5	8	2 X 2 X 6'-0" NOTCHED WELL/BOARDS	TWO BOARDS TO BE NOTCHED FOR BOLT CLEARANCE AT TOP AND STIF CHANNEL
6	3	3-1/2" X 3-1/2" X 180lb, 8'-0" POST	STANDARD FENCE POST
7	3	3-1/2" X 3-1/2" CAP	3-1/2" SQ POST CAP STANDARD
8	3	3" DIAMETER CONCRETE PIER	POST PER SIZE AND DEPTH TO BE SPECIFIED BY THE PROJECT'S EOR
9	4	HWD BOLS - 1/4-20 X 1-1/2" UNC (OPTIONAL BOLT)	ROUND HEAD SQUARE NECK CARRIAGE BOLT
10	4	PT 100/007 1/4-20 HEX-HEAD FLANGE NUT	PREMALINE TORQUE TYPE HEX-HEAD FLANGE NUT
11	12	HWD BOLS1 - 10/12 X 6/8" SELF-TAPPING SCREW	VERTICAL CHANNEL, RECESSED HEAD SELF-TAPPING SCREW, TYPE-17, TYPE-1

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Certificate of Authorization No: 4213

DRC PERMIT - NOT FOR CONSTRUCTION

REVISIONS			
NO	DATE	BY	CHK'D	DESCRIPTION

ENGINEER: ALEJANDRO MELLADO
ADDRESS: 4000 HOLLYWOOD BLVD, SUITE 750N
TEL: 954-987-5544
FAX: N/A

DRAWN BY: HDD	DATE: 11/30/2022
REVIEWED BY:	SCALE: AS NOTED
DESIGNED BY:	FILE NO.
FIELD BOOK:	PAGE:

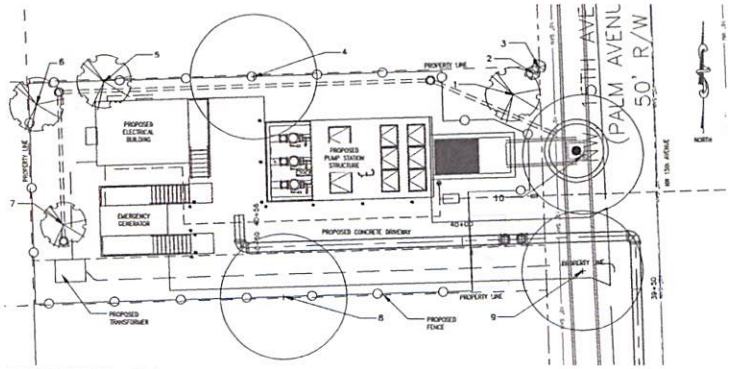
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
CIVIL DETAILS - SHEET 14

SHEET NO.
CZ-DT-14
TOTAL: 127
CAD FILE: 11845-CZ-DT14
DRAWING FILE NO. 4-143-65

PLOT DATE: 12/21/2022 8:55 AM BY: JECLARK

File = C:\pwworking\east01\d3012214\11845-CZ-DT14 Saved by JECLARK Save date = 12/21/2022 8:15 AM



TREE DISPOSITION PLAN

SCALE: 1"=10'

0 5' 10' 20'

ROOT ZONE PROTECTION NOTES

1. During the entire construction period all reasonable efforts shall be made to protect the root zone from damage. Tree protection barricading shall be erected around the trees. All plant material designated to be saved, relocated, or outside the limits of construction shall be protected during construction work. Work under these trees will include construction and maintenance of temporary barricade fencing to protect the root zones of existing trees and other plantings.
2. A protection barrier or temporary fence of at least 4 feet in height shall be installed around each tree to be protected and preserved. The tree protection shall be installed prior to the actual construction start and maintained for the duration for the project.
3. Tree barricade fencing shall be as per the applicable details.
4. Tree root pruning and trimming shall be performed under the supervision of a certified arborist.
5. 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.
6. Provide temporary irrigation for each tree throughout the duration of construction.
7. Backfill trench with planting soil.
8. Fertilize within the root zone.
9. 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".
10. 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.
11. Bracing and Guying shall be provided to ensure the trees' stability during the root regeneration period per applicable details.

Hazen

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

Certificate of Authorization No: 2771

HDR

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Suite 100
Ft Lauderdale, Florida 33309-3674
Certificate of Authorization No: 4211

TREE DISPOSITION CHART

Tree Number	Common Name	Botanical Name	Class	CT/HT	DBH(in.)	Specimen	Canopy (ft. dia)	Condition	Condition Rating	Status	Comments	Replacement Calculation
1	Sabal Palm	Sabal Palmetto		-	-	-	-	-	-	Missing	-	-
2	Sabal Palm	Sabal Palmetto		25	18	No	30	Poor	50%	Remove	Heavy Strangler Fig	$180.00
3	Sabal Palm	Sabal Palmetto		17	12	No	5	Poor	50%	Remove	Trunk Intertwined with Tree #2	180.00
4	Mango	Mangifera indica	C	40	14	No	15	Fair	70%	Remove	-	1,062.00
5	Sabal Palm	Sabal Palmetto		12	12	No	6	Fair	70%	Remove	Strangler Fig Vine Involvement	180.00
6	Sabal Palm	Sabal Palmetto		20	12	No	14	Poor	50%	Remove	Browning of Leaflet Base, Suspected Shaded Out by Nearby Trees	180.00
7	Sabal Palm	Sabal Palmetto		20	18	No	14	Fair	65%	Relocate	Herbaceous Vines, See sheet LD-02 for new location on site.	-
8	Tabebuia	Tabebuia tabacu	A	40	18	No	10	Poor	50%	Remove	Heavy Branch Tip Dieback	585.00
9	Live Oak	Quercus virginiana	A	36	13	No	12	Fair	70%	Remove	-	591.00
10	Live Oak	Quercus virginiana	A	36	8	No	14	Fair	70%	Remove	-	364.00
											(Total)	$1,352.00*

(Chart prepared in conjunction with ISA Certified Arborist Zachary Lehmann.)

*Refer to sheet LD-02 for Replacement Trees.

DRC PERMIT - NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECT:
KEITH & SCHNARS
REG. No: LA0000768
REG. No: 2771
TEL: 954-728-7120

DRAWN BY: KM
DATE: 06/06/2023
DESIGNED BY: KM
SCALE: AS NOTED
CHECKED BY: KM
FIELD BOOK:

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
700 North Andrews Avenue, Fort Lauderdale, Florida 33311

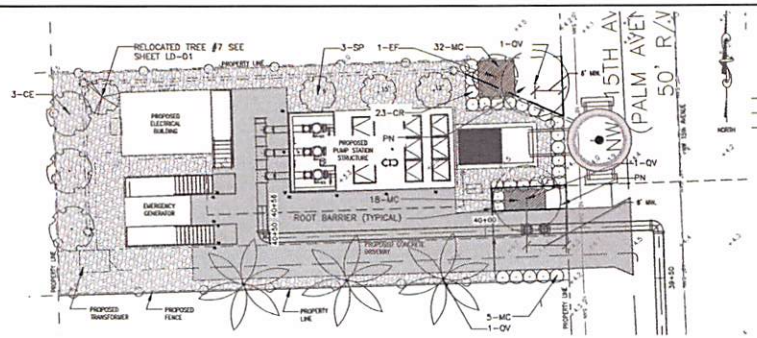
REVISIONS			
NO.	DATE	BY	DESCRIPTION

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
TREE DISPOSITION PLAN

SHEET NO.
LD-01

TOTAL: 134

CAD FILE: 11845-LD-01 7-20-23
DRAWING FILE NO. 4-143-65



LANDSCAPE PLAN

SCALE: 1"=10'

0 5' 10' 20'

CITY OF FORT LAUDERDALE LANDSCAPE REQUIREMENTS

PROJECT: DORSEY RIVERBEND PUMP STATION

SITE DATA AND LANDSCAPE TABULATIONS

Landscape Tabulations, City of Fort Lauderdale Code, Section 47-21

Zoning District — RS-8, Residential Single Family, one Medium Density

General Site Data

	Dimensions, Width, Number, Area (s.f.)	REQUIRED ALLOWED	PROVIDED	REMARKS
Gross Acreage	5,624 s.f.	-	-	
Bending Footprint Coverage	1,570 s.f.	-	-	
Vehicular Use Area (VUA)	1,762 s.f.	-	-	
Other Required Impervious Area	-	-	-	
Vehicular Use Area Landscape (VULA)	(See Below.)	-	-	
Other Required Impervious Area	-	-	-	
Total Net Landscape Area	2,292 s.f.	-	-	
Total Lot Trees Required:				
(1) tree for as 1,000 s.f. of lot area	5,624 sf / 1,000 = 5.6	6	13	
Minimum Ulterior Requirements				
Foundation on Homes, Low Bldg., Plaza				
a) 50% Minimum Native	78 shrubs x .5 = 39 13 trees x .5 = 6.5	39 7	78 13	
b) 50% Min. Low Maintenance/Drought Tolerant	78 shrubs x .5 = 39 13 trees x .5 = 6.5	39 7	78 13	
Street Trees				
Min. Width Area (2.0 ft.)				
(1) - Tree per 40 ft	35 (1 / 40 = .87	1	1	
Vehicular Use Area Landscaping (VULA)				
(1) - tree for each 1,000 s.f. of VUA	1,762 s.f. / 1,000 = 1.8	2	2	Live Oak at east property line + Stopper at north property line
(5) - shrubs for each 1,000 s.f. of VUA	1.8 x 5 = 10.5	11	23	Muhly Grass north of driveway
Rock Notch Inside Fence				
10% of Landscape Area	2,292 sf x .1 = 229	229 sf	1,878 sf	Pervious grass inside fence per City request to facilitate ease of maintenance
Existing Tree Equivalent Replacement				
Trees Removed	(See Sheet LD-01.)	$3,352	-	
Trees Planted	(2) x $1000 = $2,000 (3) x $600 = 1,800 (11 x $400 = 4,00	-	-	Live Oak Silver Buttonwood Simpson's Stopper
	Total = $4,200		$4,200	

Hazen

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Certificate of Authorization No. 2771

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Suite 100
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Certificate of Authorization No. 4213

PLANT SCHEDULE

QUANTITY	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
		TREES			
QV	2	LIVE OAK	Quercus virginiana	4" cal., 13'-14' min. height, 100 Gal.	FL #1
EF	1	SPANISH STOPPER	Eugenia foetida	3" cal., 10'-13' min. height, 65 Gal.	FL #1
CE	3	SILVER BUTTONWOOD	Conocarpus erectus 'Sericeus'	3" cal., 10'-13' min. height, 65 Gal.	FL #1
SP	3	SABAL PALM	Sabal palmetto	15' OA, Smooth Trunk,	FL #1, PLANTING HEIGHT AS SHOWN.
PE	3	SOLITAIRE PALM	Ptychosperma elegans	12' OA, height, Field Grown.	FL #1, THREE TRUNK EACH
		SHRUBS			
CR	28	RED TIP COCOPLUM	Chrysobalanus icaco 'Red Tip'	18" Ht., 9" Spd, 7 Gal.	FL #1
		SHRUB AREAS			
MC	50	MUHLY GRASS	Muhlenbergia capillaris	24" SPRD., FULL, 3 Gal.	FL #1, 36" O.C.
		GROUNDCOVERS			
PN	-	BAHIA SOD	Paspalum notatum 'Argentine'	SOD	

NOTES

1. ALL PLANT MATERIAL TO BE GRADED FL. NO. 1.
2. MULCH SHALL BE MELALEUCA GRADE B. DO NOT USE CYPRESS MULCH.
3. ALL TREES TO HAVE A SINGLE STRAIGHT TRUNK AND PREDOMINATE CENTRAL LEADER UNLESS OTHERWISE SPECIFIED AS MULTI-TRUNKED.
4. BALLED AND BURLAPED TREES SHALL HAVE A SOLID ROOT BALL WITH FIBROUS ROOTS THAT HAS BEEN 'HARDENED OFF' FOR A MINIMUM OF 4 WEEKS.
5. ALL CONTAINERIZED TREES SHALL HAVE A SOLID ROOT BALL THE SIZE OF THE SPECIFIED CONTAINER BUT SHALL NOT BE ROOT BOUND.
6. SOIL SHALL BE PROVIDED FOR ALL PLANTING AREAS IN ACCORDANCE WITH SPECIFICATION 02900 AND PLANTING DETAILS.
7. PLANT SIZE SHALL TAKE PRECEDENCE OVER CONTAINER SIZE.
8. COORDINATE TREE LOCATIONS WITH DRAINAGE SWALES/ DITCHES AND UTILITIES.
9. ALL PLANT MATERIAL SPACES AS NOTED UNLESS OTHERWISE SHOWN ON PLANS.
11. CONTRACTOR SHALL VERIFY ALL QUANTITIES WITH DRAWINGS. QUANTITIES ON PLANS SHALL PREVAIL OVER THE PLANTING SCHEDULE. CONTRACTOR SHALL DETERMINE SOD QUANTITIES BASED ON PLANS.
12. SEE SHEET CD-ST-01 FOR ALL FINISH ELEVATIONS OF SITE.
13. ALL PERVIOUS AREAS NOT OTHERWISE DESIGNATED SHALL RECEIVE SOD.

DRC PERMIT - NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECT: EDWIN E. KIZER, JR. FL LA0000168 DATE: TEL: 305-381-7400

DATE: 06/09/2023
DRAWN BY: KW
DESIGNED BY: KW
SCALE: AS NOTED
CHECKED BY: KW
FIELD BOOK:

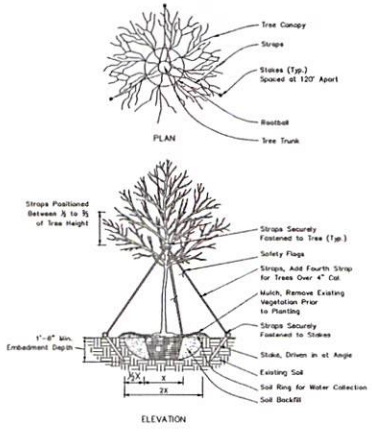
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33311

NO.	DATE	BY	REVISIONS (DATE)	DESCRIPTION

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
LANDSCAPE PLAN

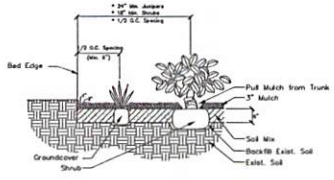
SHEET NO.
LD-02
TOTAL 134

CAD FILE: 11845-LD-02 7-20-23
DRAWING FILE NO: 4-143-60



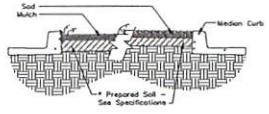
TREE PLANTING

NOT TO SCALE



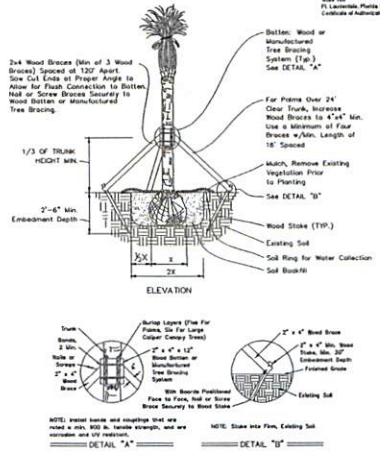
SHRUB AND GROUNDCOVER PLANTING

N.T.S.



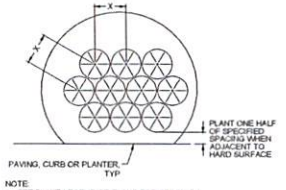
SOD AND MULCH

NOT TO SCALE



PALM PLANTING

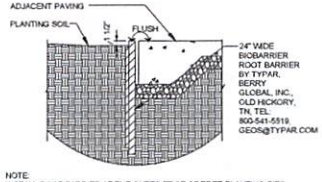
NOT TO SCALE



NOTE:
1. SEE PLANT LEGEND OR PLANS FOR SPACING
2. X DIMENSION ABOVE REPRESENTS INDICATED SPACING, EQUAL IN ALL DIRECTIONS

GROUNDCOVER SPACING

NOT TO SCALE



NOTE:
INSTALL ROOT BARRIER AT THE OUTER EDGE OF TREE PLANTING PITS WHERE CENTERLINE OF NEW TREES FALL WITHIN 8'-0" OF SIDEWALK/BUILDING, PAVING EDGES, AND UTILITY LINES.

LINEAR ROOT BARRIER

NOT TO SCALE

DRC PERMIT - NOT FOR CONSTRUCTION

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HDR

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Suite 100
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Certificate of Authorization No: 4210

LANDSCAPE ARCHITECT:
KEITH D. ALGEER
FL REGISTRATION
DATE TBD

TEL: 305-159-1439

DRAWN BY	DATE
KM	06/09/2023
DESIGNED BY	SCALE: AS NOTED
KM	
CHECKED BY	
MH	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33311

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

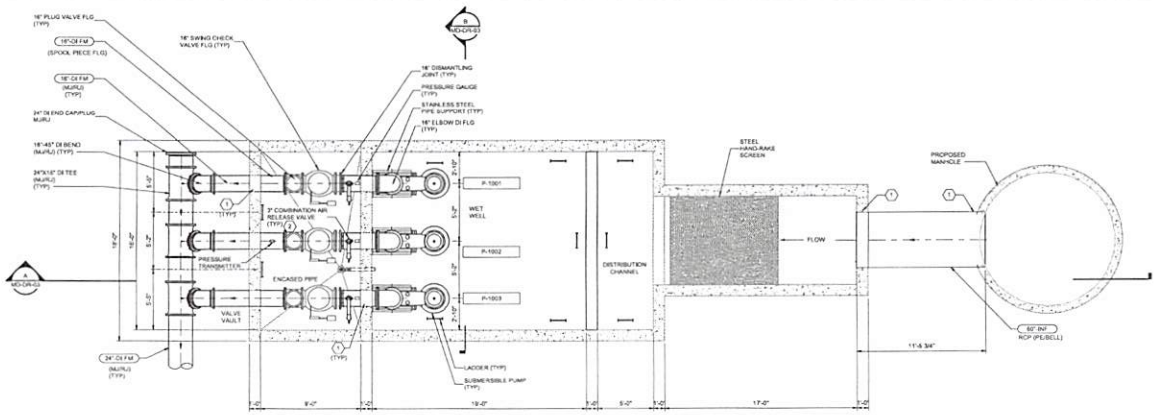
PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
LANDSCAPE DETAILS

SHEET NO.
LD-03

TOTAL: 134

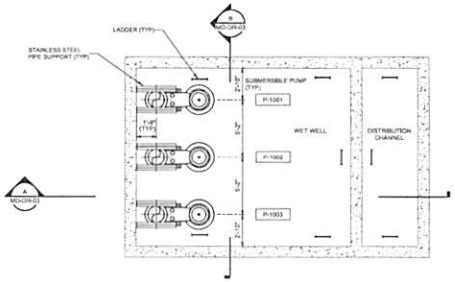
CAD FILE: 11845-LD-03

DRAWING FILE NO: 4-143-65



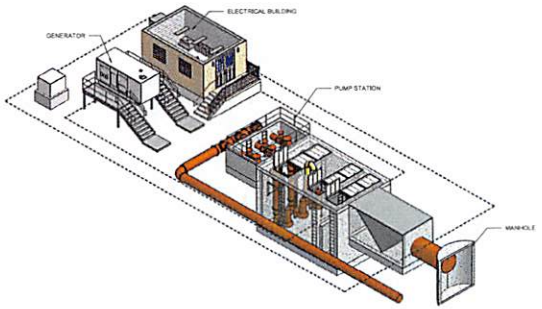
INTERMEDIATE PLAN

1/4" = 1'-0"



LOWER PLAN

1/4" = 1'-0"



3D PERSPECTIVE

KEYNOTES:

1. SEE DETAIL 2 AND 5 ON SHEET MD-DR04.
2. SEE DETAIL 1 ON SHEET MD-DR04.

DRC PERMIT - NOT FOR CONSTRUCTION

HDR Engineering, Inc. of the Carolinas
440 S. Church Street, Suite 1200
Charlotte, NC 28202
704.338.6700
N.C.B.E.L.S. License Number F-0116

Hazen

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CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	DESCRIPTION
	4/12/23		ISSUED FOR PERMITTING

PROJECT# 10345814
H&S Dorsey Riverbend
PUMP STATION
PUMP STATION DETAILS

SHEET NO.
MD-DR-01

TOTAL 133

DRAWING FILE NO
4-145-89

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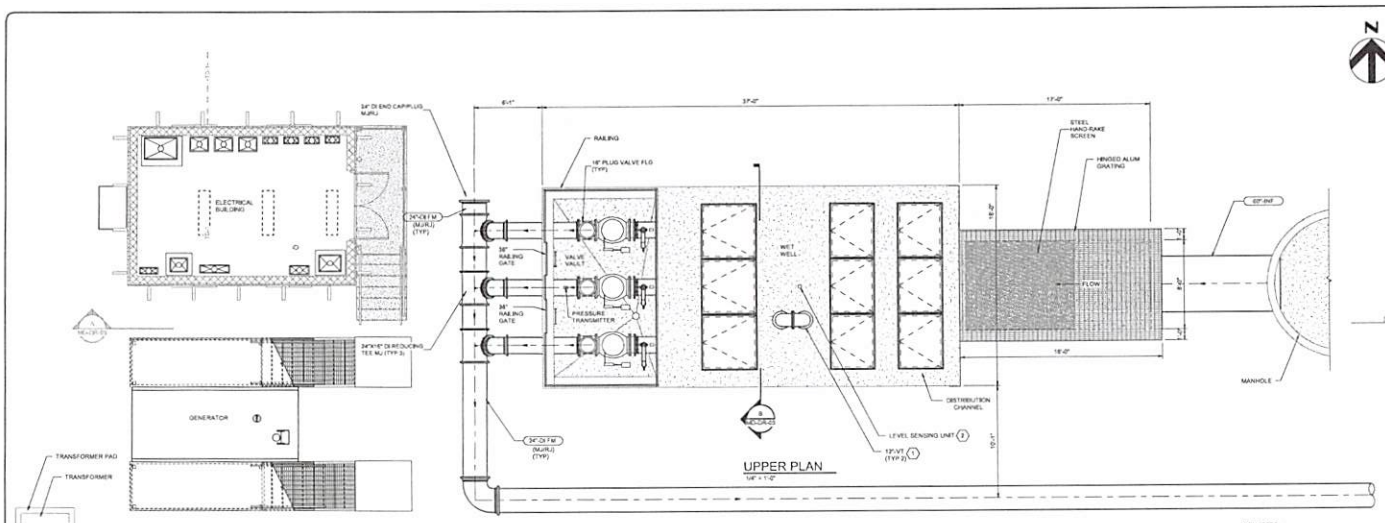
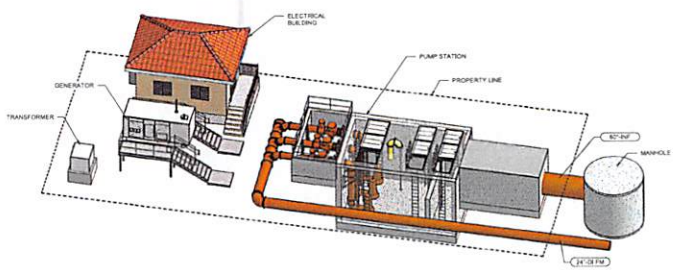


KEYNOTES:

1. SEE DETAIL 4 ON SHEET MD-DR04.
2. SEE DETAIL 8 ON SHEET MD-DR04.



3D PERSPECTIVE

DRC PERMIT - NOT FOR CONSTRUCTION

HDR Engineering, Inc. of the Carolinas
440 S. Church Street, Suite 1200
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CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	DESCRIPTION
	4/12/23		ISSUED FOR CONSTRUCTION

PROJECT# 10345814
H&S Dorsey Riverbend
PUMP STATION
PUMP STATION UPPER PLAN

SHEET NO.
MD-DR-02

TOTAL 133

DRAWING FILE NO.
4-145-55

FILEPATH: Autodesk Docs:#10345814_H&S_Dorsey Riverbend
Bids&CMSrv_2022/10345814-02-D.rvt

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PUMP INFORMATION CHART			
PUMP NO.	P-1001	P-1002	P-1003
PRIMARY DESIGN POINT	8.0 CFS@ 60.7 FT	8.0 CFS@ 60.7 FT	8.0 CFS@ 60.7 FT
SECONDARY POINT ON CURVE	4.0 CFS@ 76.0 FT	4.0 CFS@ 76.0 FT	4.0 CFS@ 76.0 FT
MOTOR SIZE (HP)	65	65	65
SPEED (RPM)	1185	1185	1185
IMPELLER DIAMETER (MM)	376	376	376
DISCHARGE DIAMETER (IN)	12	12	12
PUMP MANUFACTURER (OR EQUAL)	FLYGT	FLYGT	FLYGT
PUMP MODEL	NP 3301 LT3 ~624	NP 3301 LT3 ~624	NP 3301 LT3 ~624
MOTOR MODEL	N3301.095 35-29-6AA-W	N3301.095 35-29-6AA-W	N3301.095 35-29-6AA-W

FLOAT INFORMATION CHART		
	DESCRIPTION	LEVEL EL.
(A)	HIGH LEVEL ALARM EL. (FT)	2.5
(B)	LAG LAG PUMP ON EL. (FT)	2.0
(C)	LAG PUMP ON EL. (FT)	1.5
(D)	LEAD PUMP ON EL. (FT)	1.0
(E)	LAG LAG PUMP OFF EL. (FT)	-5.2
(F)	LAG PUMP OFF EL. (FT)	-6.2
(G)	LEAD PUMP OFF EL. (FT)	-7.2
(H)	LOW LEVEL ALARM EL. (FT)	-8.2

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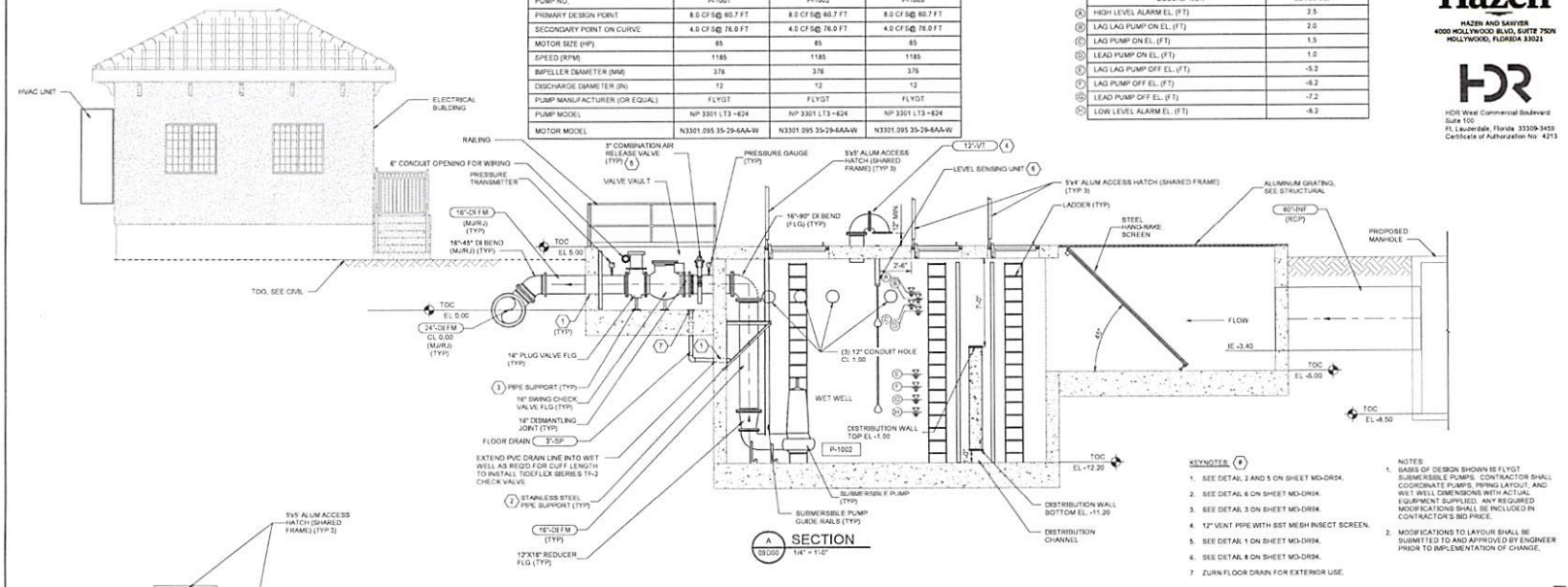
Certificate of Authorization No. 4213



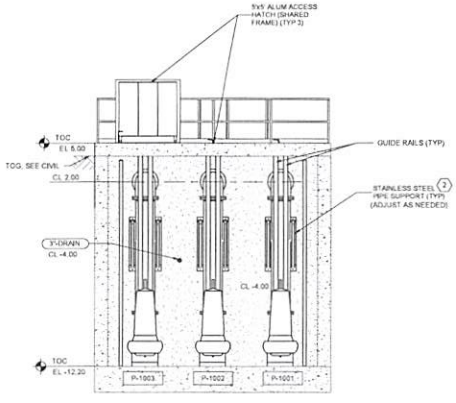
A SECTION
09000 1/4" = 1'-0"

KEYNOTES: (#)

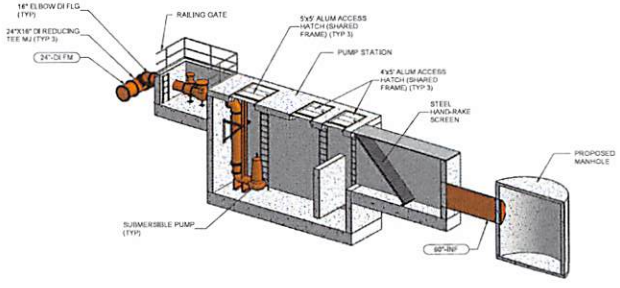
1. SEE DETAIL 2 AND 5 ON SHEET MD-DR04.
2. SEE DETAIL 6 ON SHEET MD-DR04.
3. SEE DETAIL 3 ON SHEET MD-DR04.
4. 12" VENT PIPE WITH SST MESH INSECT SCREEN.
5. SEE DETAIL 1 ON SHEET MD-DR04.
6. SEE DETAIL 8 ON SHEET MD-DR04.
7. ZURN FLOOR DRAIN FOR EXTERIOR USE.

NOTES:

1. BASIS OF DESIGN SHOWN IS FLYGT SUBMERSIBLE PUMPS. CONTRACTOR SHALL COORDINATE PUMPS, PIPING LAYOUT, AND WET WELL DIMENSIONS WITH ACTUAL EQUIPMENT SUPPLIED. ANY REQUIRED MODIFICATIONS SHALL BE INCLUDED IN CONTRACTOR'S BID PRICE.
2. MODIFICATIONS TO LAYOUR SHALL BE SUBMITTED TO AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION OF CHANGE.



B SECTION
09000 1/4" = 1'-0"



3D SECTION A PERSPECTIVE

DRC PERMIT - NOT FOR CONSTRUCTION

FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Bid&CMSrv_2022/10345814-02-D.rvt 6/22/2023 12:54:07 PM

ENGINEER: BEATRIZ MANGANIELLO
EIS No: 65888
DATE:
TEL: 941.342.2768
FAX:

ALAN PI: Author	DATE: 06/2023	
DESIGNED BY: Designer	SCALE: As Indicated	
DRAWN BY: Drafter	CHECKED BY: Checker	
FILE NO: 8888	N/A	

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# 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
PUMP STATION SECTIONS

SHEET NO.
MD-DR-03

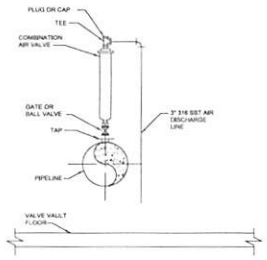
TOTAL 134

REVIT FILE: 10345814-02-D.rvt

DRAWING FILE NO. 4-145-65

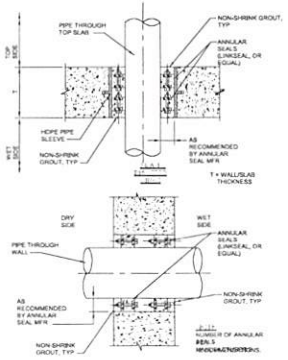
NOTES

1. FINAL SIZE OF TAP, VALVES, AND PIPING SHALL
2. USE FLANGED OR NPT CONNECTIONS FOR TAP



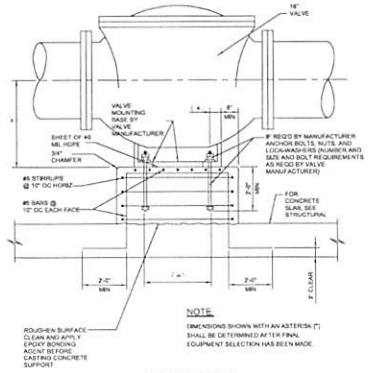
COMBINATION AIR VALVE

DETAIL 1 | NO SCALE | MD-DR-07



PIPE PENETRATION

DETAIL 2 | NO SCALE | -

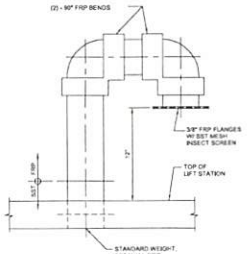


NOTE

DIMENSIONS SHOWN WITH AN ASTERISK (*) SHALL BE DETERMINED AFTER FINAL EQUIPMENT SELECTION HAS BEEN MADE.

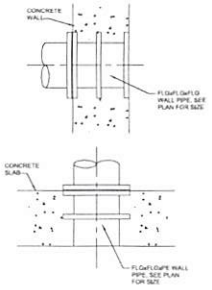
CONCRETE VALVE SUPPORT

DETAIL 3 | NO SCALE | -



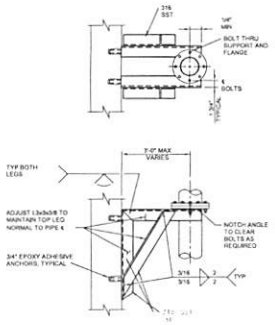
FRP VENT PIPE

DETAIL 4 | NO SCALE | -



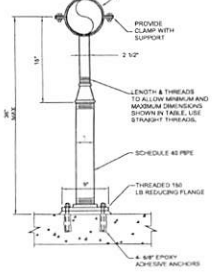
PIPE PENETRATION - WALL PIPE

DETAIL 5 | NO SCALE | -



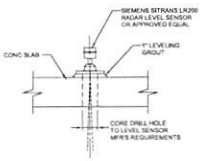
RISER PIPE SUPPORT

DETAIL 6 | NO SCALE | -



FLOOR STAND PIPE SUPPORT

DETAIL 7 | NO SCALE | -



LEVEL SENSING UNIT

DETAIL 8 | NO SCALE | -

DRC PERMIT - NOT FOR CONSTRUCTION

HDR Engineering, Inc. of the Carolinas
440 S. Church Street, Suite 1200
Charlotte, NC 28202
704.338.8700
N.C.B.E.L.S. License Number F-0116

Hazen

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

FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Bob&Ctr/Sy_002/10345814-02-01.rvt

4/12/2023 1:57:37 PM

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	DESCRIPTION
	4/12/23		ISSUED FOR PERMITTING

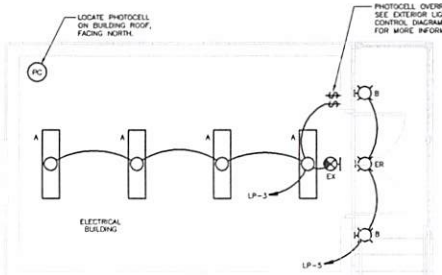
PROJECT# 10345814
H&S Dorsey Riverbend
PUMP STATION
PUMP STATION DETAILS

DRAWING NO.
MD-DR-04

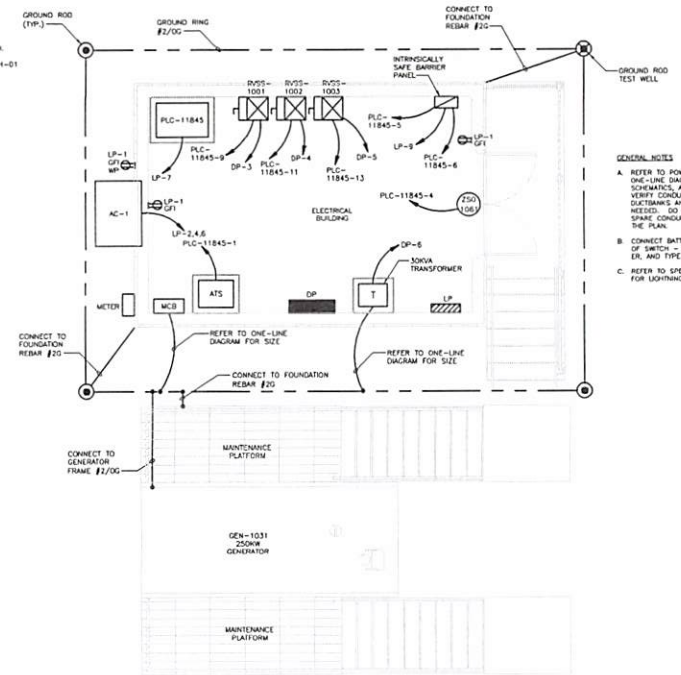
TOTAL 139

REVIT FILE:

DRAWING FILE NO
4-143-80



LIGHTING PLAN
3/8"=1'-0"



POWER PLAN
3/8"=1'-0"

GENERAL NOTES

A. REFER TO POWER ONE-LINE DIAGRAMS, M&C ONE-LINE DIAGRAMS, ELECTRICAL CONTROL SCHEMATICS, AND APPLICABLE PLAN SHEETS. VERIFY CONDUIT COUNTS FOR ALL DUCTBANKS AND ADJUST QUANTITIES AS NEEDED. DO NOT REDUCE THE NUMBER OF SPARE CONDUITS FROM THAT INDICATED ON THE PLAN.

B. CONNECT BATTERY PACK IN FIXTURE AHEAD OF SWITCH – TYPICAL FOR TYPE A, TYPE ER, AND TYPE EX FIXTURES.

C. REFER TO SPECIFICATION SECTION 13101 FOR LIGHTNING PROTECTION REQUIREMENTS.

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Hazen
HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

HDR
3250 West Commercial Boulevard
Suite 100
Ft. Lauderdale, Florida 33309-3459
Certificate of Authorization No: 4213

DESIGNED BY: File No. 11845
Ref. No. 0.1374
BDL No. 0.1374
BDL No. 0.1374
FBL (954) 828-8400
FAX (954) 828-8410

DATE: 03/07/2023
DRAWN BY: JDH
SCALE: 3/8"=1'-0"
CHECKED BY: JTS
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
166 North Andrews Avenue Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
	03/7/2023			DRAFT BID SET

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
ELECTRICAL BUILDING POWER
AND LIGHTING PLANS

SHEET NO.
ED-DR-02
TOTAL 131
CAD FILE: 11845-ED-DR-02
DRAWING FILE NO. 4-143-65

PANELBOARD NO:	LP		
VOLTAGE (L-L):	208	BUS RATING (A):	100
VOLTAGE (L-N):	120	MAIN OC DEVICE (A/PHASE):	100
PHASE / WIRE:	3 / 4+G	INTERRUPTING RATING (KA):	14
200% NEUTRAL:	NO	SERVICE ENTRANCE LABEL:	YES
ENCLOSURE:	NEMA 1		
MOUNTING:	SURFACE		
LOCATION:	ELECTRICAL ROOM		

WIRING				CKT NO.	DESCRIPTION	CONNECTED LOAD (VA) LTS	REC	MECH	MISC	OCP AMPS	P	CKT NO.	OCP AMPS	P	CONNECTED LOAD (VA) LTS	REC	MECH	MISC	DESCRIPTION	CKT NO.	WIRING PHASE	NEUT.	GRND.	CONDUIT
12	12	12	3/4"	1	GENERAL RECEPTS		540			20	1	A					2,760			3				
12	12	12	3/4"	3	INTERIOR LIGHTS	249				20	1	B	25	3			2,760		AC-1	4	10		10	3/4"
12	12	12	3/4"	5	EXTERIOR LIGHTS	90				20	1	C					2,760			6				
12	12	12	3/4"	7	PLC-118e5				1,200	20	1	A	20	3			1,500		GENERATOR HEATER	8	12	12	12	1"
12	12	12	3/4"	9	SSS PANEL				1,800	20	1	B					1,500			10				
10	10	10	1"	11	WETWELL RECEPTS.		540			20	1	C	20	1				1,200	GEN. BATTERY CHGR.	12	12	12	12	1"
12	12	12	3/4"	13	SPARE					20	1	A	20	1				1,500	GENSET BLOCK HTR	14	12	12	12	1"
				15	SPARE					20	1	B	20	2				1,500	GEN. ENCLOSURE	16	12	12	12	1"
				17	SPARE					20	1	C								18				
				19	SPARE					20	1	A	20	1					SPARE	20				
				21	SPARE					20	1	B	20	1					SPARE	22				
				23	SPARE					20	1	C	20	1					SPARE	24				
				25	SPARE					20	1	A	20	1					SPARE	26				
				27	SPARE					20	1	B	20	1					SPARE	28				
				29	SPARE					20	1	C	20	1					SPARE	30				
				31	SPARE					20	1	A	20	1					SPARE	32				
				33	SPARE					20	1	B	20	1					SPARE	34				
				35	SPARE					20	1	C	20	1					SPARE	36				
				37	SPARE					20	1	A								38				
				39	SPARE					20	1	B	30	3					SPD	40	10	10	10	3/4"
				41	SPARE					20	1	C								42				

NOTES:

LOAD SUMMARY	LTS	REC	MECH	MISC*	SPARE	TOTAL			PHASE BALANCE	
CONNECTED LOAD (KVA)	0.3	1.1	11.5	7.8	--	20.8	208	LINE-TO-LINE VOLTS	PHASE A (KVA)	6
DEMAND FACTOR	1.25	REC	1.00	1.00	20%	--	57	CONNECTED AMPS	PHASE B (KVA)	7
DESIGN LOAD (KVA)	0.4	1.1	11.5	7.8	4.1	24.8	69	DESIGN AMPS	PHASE C (KVA)	8

NOTES:
* REFER TO ONE-LINE DIAGRAM
** MISC DEMAND INCLUDES 25% OF LARGEST MOTOR KVA

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIG.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	QTY	TYPE	FIXTURE WATTS	FIXTURE VOLTS
A	LITHONIA	CSS LAR 40SLU NVOLT 40K 80CRI ETW CP	SUSPENDED OR SURFACE MOUNT + LED LENSED INDUSTRIAL STRIP FIXTURE. HEAVY DIE-FORMED STEEL CHANNEL, HIGH GLOSS BAKED ENAMEL FINISH, AND EMERGENCY BATTERY BACKUP.	4	LED 4000K	35.3	120-277 MULTI-VOLT
B	LITHONIA	CLOUD LED P1 40K MVOLT DDB	DECORATIVE LED WALL CYLINDER LIGHT. CAST ALUMINUM HOUSING WITH CORROSION-RESISTANT PAINT AND POLYCARBONATE LENS, DARK BRONZE FINISH. WET LOCATION LISTED. SEE DRAWING F FOR MOUNTING HEIGHT. PROVIDE EXTERNAL PHOTOCELL CONTROL WITH MANUAL OVERRIDE SWITCH.	5	LED 4000K	9.1	120-277 MULTI-VOLT
EP	LITHONIA	AFO DB MVOLT N SD CIT	ATTRACTIVE LOW PROFILE REMOTE EMERGENCY UNIT WITH DIE CAST ALUMINUM HOUSING. DARK BRONZE FINISH, AND NICKEL CADMIUM BATTERY.	2	LED	2.9	120-277 MULTI-VOLT
EX	LITHONIA	LHDN LED R HO	THERMOPLASTIC EDGE EMERGENCY COMBO UNIT, IMPACT RESISTANT, CORROSION PROOF, WHITE FINISH, RED LETTERS, SELF DIAGNOSTIC ELECTRONICS, NICKEL CADMIUM BATTERY	1	LED	0.92	120-277 MULTI-VOLT

NOTES:
1. THE MANUFACTURER AND CATALOG SERIES NUMBERS PROVIDED IN THE ABOVE SCHEDULE ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCTS DESIRED TO MEET THE SCHEDULED REQUIREMENTS AND DO NOT RESTRICT THE CONTRACTOR TO A SPECIFIC BRAND, MAKE, OR MANUFACTURER; THEY ARE USED ONLY TO SET FORTH AND CONVEY THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF PRODUCTS DESIRED TO MEET THE SCHEDULED REQUIREMENTS. EQUIVALENT PRODUCTS MAY BE ACCEPTABLE.

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Certificate of Authorization No. 4213

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REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION
	03/2023			DRAFT BID SET

PROJECT # P11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
PANELBOARD AND LIGHT FIXTURE
SCHEDULES

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
101 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: JDV
DESIGNED BY: JDV
CHECKED BY: JTS
DATE: 03/20/2023
SCALE: NONE
FIELD BOOK: 5033

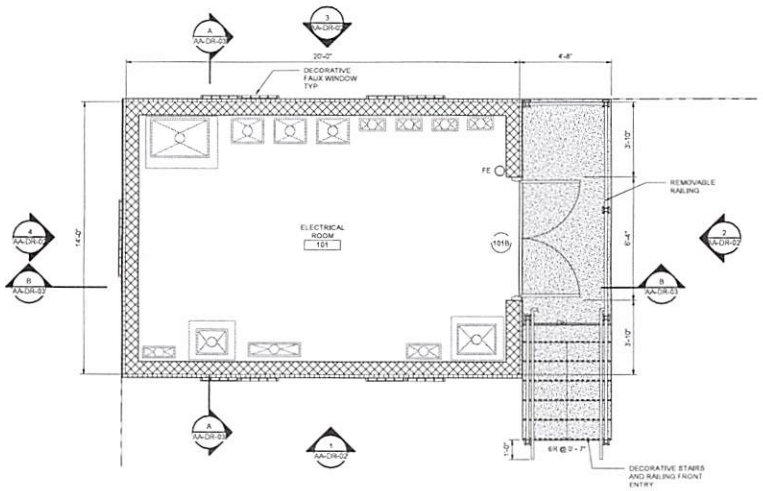
ENGINEER: JOHN T. SAN FASSIL
REG. No. 61374
DATE: 03/20/2023
TEL: (754) 208-8642
FAX: (754) 208-8698

SHEET NO.
EY-SH-02
TOTAL: 131
CAD FILE: 11845-EY-SH-02
DRAWING FILE NO. 4-143-65

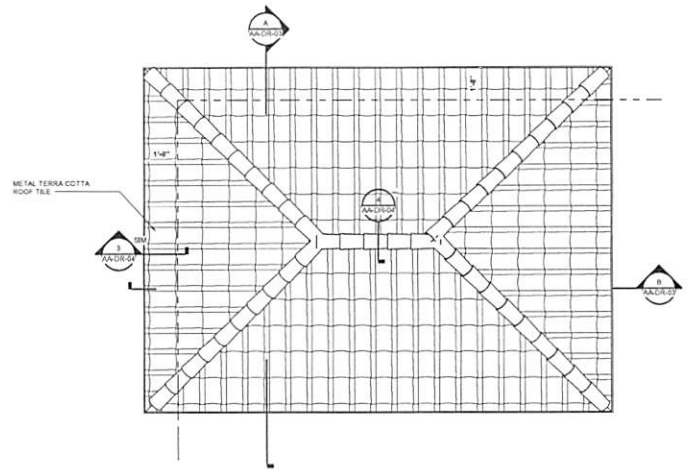
2019 ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS				
ENERGY CODE THERMAL ZONE 1A				
THERMAL ELEMENTS	CONDITIONED REQ	SEMI-HEATED	PROVIDED	REFERE
INSULATION ABOVE ROOF DECK	R-20 CI	R-4	R-20 CI	
MASS WALL	N/A	N/A	R-10	T 5.5-3
WALLS BELOW GRADE	N/A	N/A	NA	
FLOORS	NA	NA	NA	
SLAB ON GRADE FLOORS (MASS)	N/A	N/A	N/A	
OPAQUE SWINGING DOORS	U-0.37	U-0.73	U-0.29	
OPAQUE NONSWINGING DOORS	U-0.31	U-1.45	U-1.45	
WINDOWS	U-0.50	U-1.2	U-0.50	
TRANSLUCENT ROOF PANELS (3% MIN OF ROOF)	NA	NA	NA	5.5.4.2.3
TRANSLUCENT ROOF PANEL SHGC	NA	N/A	NA	
DOORS WITH WINDOWS	U-0.83	U-1.10	U-0.83	

2020 FLORIDA ENERGY CODE ALLOWS USE OF 2019 ASHRAE 90.1 AS APPLICABLE COMPLIANCE IN SECTION C401.1.
ASHRAE 90.1 INCLUDES LESS STRINGENT THERMAL ENVELOPE REQUIREMENTS FOR INDUSTRIAL BUILDINGS
2020 FLORIDA ENERGY CODE DOES NOT REQUIRE NATURAL LIGHTING MINIMUMS PER SECTION C402.4.2 EXCEPTION #2

EXTERIOR PRODUCT APPROVAL INFORMATION BASIS OF DESIGN OR EQUAL			
PRODUCT DESCRIPTION	MANUFACTURER APPLICANT	MIAMI-DADE NOTICE OF APPROVAL NO.	EXPIRATION DATE
N SERIES OUTSWING OPAQUE STEEL DOORS	MESKER DOOR	20-0708.09	7/16/2025
EIFS OVER CMU	MASTER BUILDERS	21-0517.09	10/8/2025
FLORIDA METAL BARREL TILE ROOF	FLORIDA METAL ROOFING PRODUCTS	21-0202.05	4/13/2026



FLOOR PLAN
3/8" = 1'-0"



ROOF PLAN
3/8" = 1'-0"

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Certificate of Authorization No
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

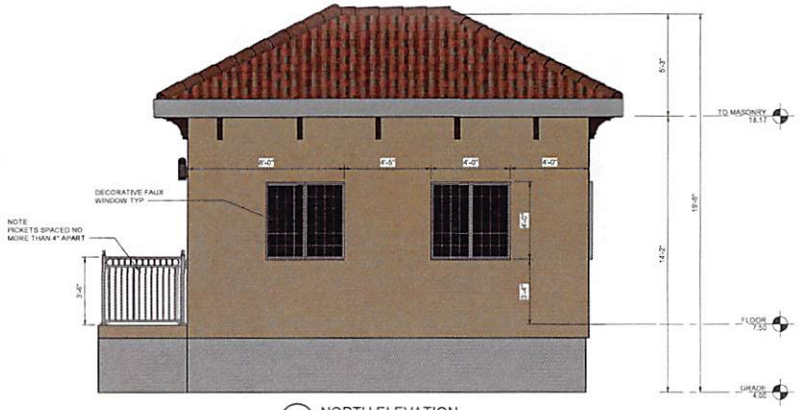
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION
	09/2023			PERMIT COMMENTS

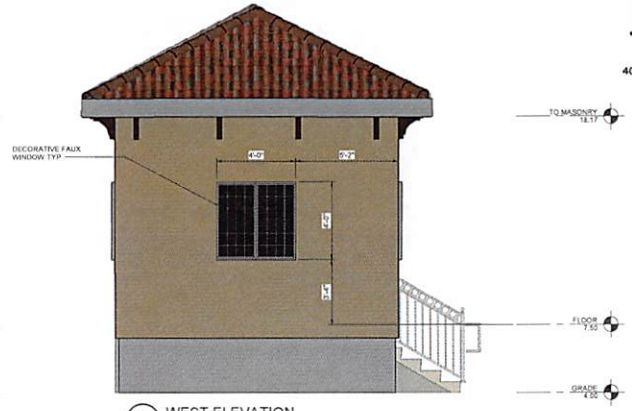
PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
PLANS

SHEET NO.
AA-DR-01
TOTAL 134
REVIT FILE:
DRAWING FILE NO.
4-145-65

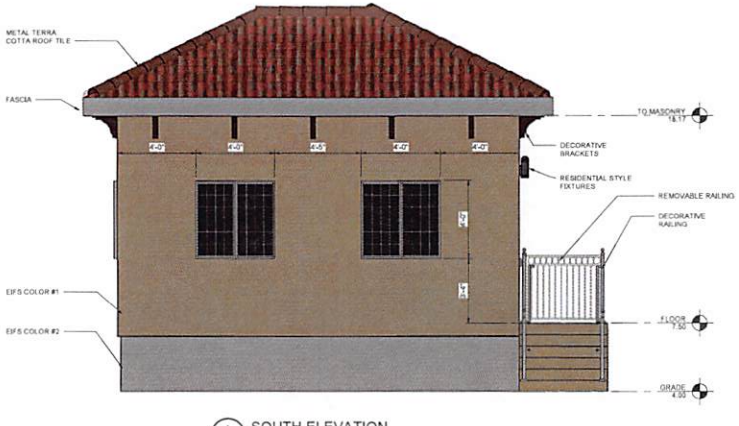
FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Sid&CMSrv_2022/10345814-03-A.rvt 9/22/2023 10:21:13 AM



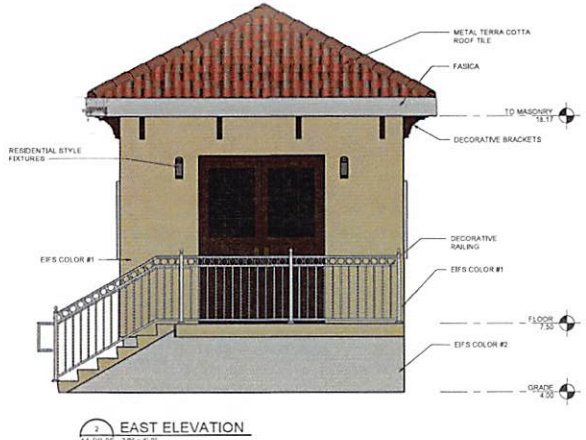
3 NORTH ELEVATION
AA-DR-01 3/8" = 1'-0"



4 WEST ELEVATION
AA-DR-01 3/8" = 1'-0"



1 SOUTH ELEVATION
AA-DR-01 3/8" = 1'-0"



2 EAST ELEVATION
AA-DR-01 3/8" = 1'-0"

Hazen

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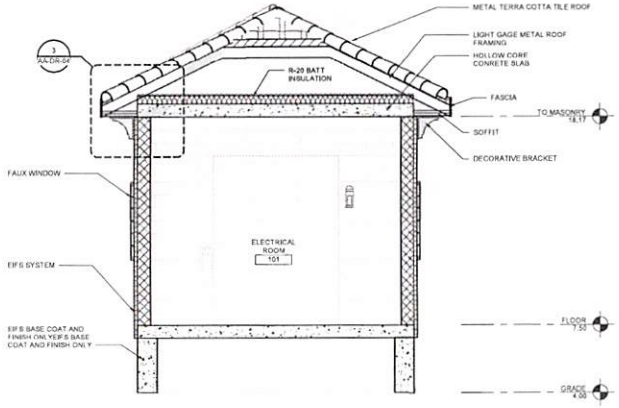
REVISIONS			
NO.	DATE	BY	CHK'D DESCRIPTION
	09/2023		DRC COMMENTS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

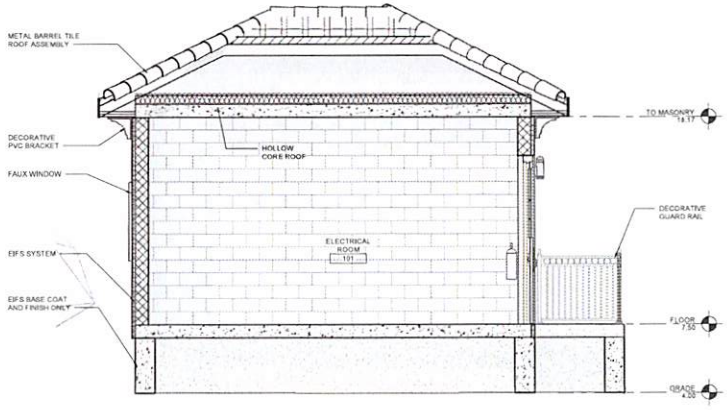
PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
ELEVATIONS

SHEET NO.
AA-DR-02
TOTAL 134
REVIT FILE:
DRAWING FILE NO.
4-143-65

FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Bid&CMSN_2022/10345814-02-A.rvt 9/22/2023 10:21:31 AM



A BUILDING SECTION
AA-DR-01 3/8" = 1'-0"



B BUILDING SECTION
AA-DR-01 3/8" = 1'-0"

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NO.	DATE	BY	CHK'D	DESCRIPTION
	09/2023			DRC COMMENTS

REVISIONS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
BUILDING SECTIONS

SHEET NO.
AA-DR-03
TOTAL 134
REVIT FILE
DRAWING FILE NO.
4-143-65

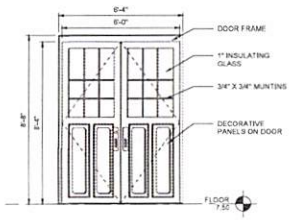
FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Bid&CMSrv_2022/10345814-02-A.rvt
9/22/2023 10:21:34 AM

DOOR SCHEDULE

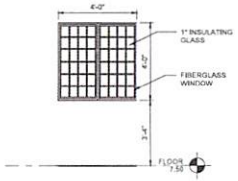
DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB	*REMARKS
101B	6' - 0"	8' - 4"	SEE ELEVATIONS	HM	PT	SEE ELEVATIONS	HM	PT					

MATERIAL AND FINISH LEGEND

MATERIAL		FINISH	
HM	HOLLOW METAL	PT	PT



DOOR ELEVATION
3/8" = 1'-0"



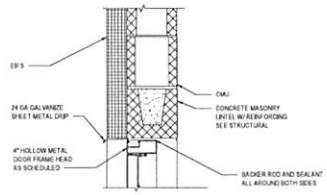
WINDOW ELEVATION
3/8" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	*REMARKS
101	ELECTRICAL ROOM	SC-2		PT	PT	PT	PT	PT	

MATERIAL AND FINISH LEGEND

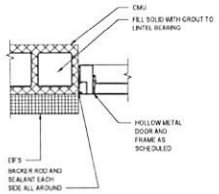
FLOOR		BASE	
SC-2	SEALED CONCRETE	N	NONE
WALLS		**CEILING**	
PT	PAINT	PT	PAINT



NOTE

1. SEE STRUCTURAL FOR LINTEL REINFORCEMENT AND SIZES OF STEEL COMPONENTS.

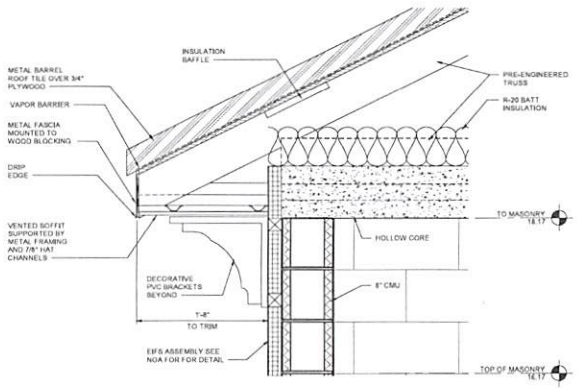
5 DOOR HEAD DETAIL
1 1/2" = 1'-0"



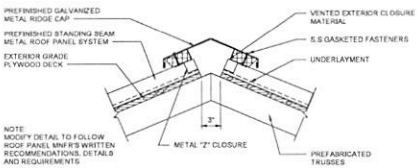
NOTE

1. SEE STRUCTURAL FOR REINFORCEMENT.

6 DOOR JAMB DETAIL
1 1/2" = 1'-0"



3 ROOF EAVE
AA-DR-01 1 1/2" = 1'-0"



NOTE:
MODIFY DETAIL TO FOLLOW ROOF PANEL MNF'R'S WRITTEN RECOMMENDATIONS, DETAILS AND REQUIREMENTS

4 VENTED RIDGE CAP DETAIL
AA-DR-01 1 1/2" = 1'-0"

Hazen

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D DESCRIPTION
	09/2022		DRC COMMENTS

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
SCHEDULES AND DETAILS

SHEET NO.
AA-DR-04
TOTAL 134
REVIT FILE:
DRAWING FILE NO.
4-143-65

FILEPATH: Autodesk Docs://10345814_H&S_Dorsey Riverbend Bid&CMSrv_2022/10345814-02-A.rvt

9/22/2023 10:21:36 AM

ILLUSTRATIVE SITE PLAN

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

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
ILLUSTRATIVE SITE PLAN

SHEET NO. AA-DR-05

REVISIONS			
NO.	DATE	BY	CHK'D	DESCRIPTION
	09/2023			DRC COMMENTS

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: DATE: 2022
DESIGNED BY: SCALE: 1 : 60
CHECKED BY:
FIELD BOOK: N/A

ARCHITECT
ENGIN'R REGISTRATION
REG. No.
DATE
TEL 704.336.6738
FAX

3D RENDERED SITE VIEW
NOT TO SCALE

3D RENDERED PERSPECTIVE
NOT TO SCALE

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Certificate of Authorization No:
AA26003566

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NO.	DATE	BY	CHK'D	DESCRIPTION
	(09/2023)			DRC COMMENTS

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
3D RENDERINGS

SHEET NO.
AA-DR-06

TOTAL 134
REVIT FILE:
DRAWING FILE NO.
4-143-85

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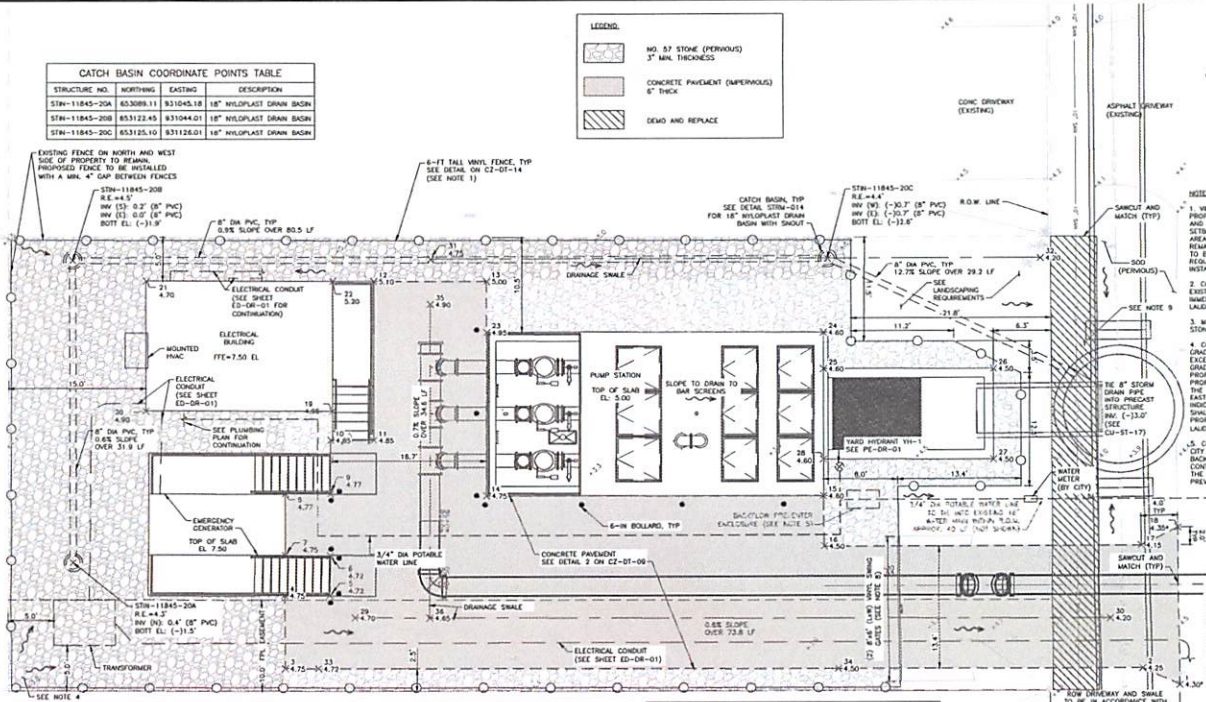

CATCH BASIN COORDINATE POINTS TABLE

STRUCTURE NO.	NORTHING	EASTING	DESCRIPTION
STN-11845-20A	653089.11	931045.18	18" NYLOPLAST DRAIN BASIN
STN-11845-20B	653122.45	931044.01	18" NYLOPLAST DRAIN BASIN
STN-11845-20C	653125.10	931126.01	18" NYLOPLAST DRAIN BASIN

POINT TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	653076.21	931165.56	4.30*	DRIVEWAY EDGE AT ROAD
2	653080.99	931161.48	4.25	DRIVEWAY EDGE AT CORNER
3	653078.20	931068.52	4.75	DRIVEWAY EDGE AT CORNER
4	653086.21	931068.26	4.75	DRIVEWAY EDGE AT STAIRS
5	653086.35	931073.30	4.72	DRIVEWAY EDGE AT STAIRS
6	653090.73	931073.07	4.72	DRIVEWAY EDGE AT STAIRS
7	653090.59	931068.13	4.75	DRIVEWAY EDGE AT GENERATOR
8	653097.45	931067.93	4.77	DRIVEWAY EDGE AT GENERATOR
9	653097.59	931072.87	4.77	DRIVEWAY EDGE AT STAIRS
10	653103.46	931072.70	4.85	DRIVEWAY EDGE AT STAIRS
11	653103.60	931077.41	4.85	DRIVEWAY EDGE AT STAIRS
12	653121.10	931076.89	5.10	DRIVEWAY EDGE AT CORNER
13	653121.46	931089.12	5.00	DRIVEWAY EDGE AT CORNER

POINT TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	653097.87	931089.82	4.75	DRIVEWAY EDGE AT CORNER
15	653098.94	931126.31	4.60	DRIVEWAY EDGE AT CORNER
16	653093.37	931126.54	4.50	DRIVEWAY EDGE AT CORNER
17	653094.44	931160.93	4.15	DRIVEWAY EDGE AT CORNER
18	653096.57	931164.84	4.35*	DRIVEWAY EDGE AT ROAD
19	653106.65	931072.81	4.95	STONE AT BUILDING CORNER
20	653104.05	931052.49	4.90	STONE AT BUILDING CORNER
21	653120.57	931052.07	4.70	STONE AT BUILDING CORNER
22	653120.98	931072.40	5.20	STONE AT BUILDING CORNER
23	653115.86	931089.29	4.95	STONE AT PUMP STATION SLAB
24	653116.94	931125.78	4.60	STONE AT PUMP STATION SLAB
25	653112.94	931125.90	4.60	STONE AT PUMP STATION SLAB
26	653113.48	931144.38	4.50	STONE AT PUMP STATION SLAB

POINT TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
27	653103.49	931144.88	4.50	STONE AT PUMP STATION SLAB
28	653102.94	931126.19	4.60	STONE AT PUMP STATION SLAB
29	653084.00	931076.02	4.70	DRIVEWAY DRAINAGE SWALE
30	653066.36	931157.86	4.20	DRIVEWAY DRAINAGE SWALE
31	653123.76	931082.98	4.75	SITE DRAINAGE SWALE
32	653125.84	931149.18	4.20	SITE DRAINAGE SWALE
33	653078.31	931072.17	4.72	DRIVEWAY EDGE
34	653060.00	931128.45	4.50	DRIVEWAY EDGE
35	653118.77	931083.11	4.90	DRIVEWAY EDGE
36	653084.23	931084.13	4.65	DRIVEWAY EDGE

* = MATCH EXIST GRADE

PLAN
1"=5'-0"

NOTES:

1. VINYL FENCE TO RUN WITHIN PROPERTY LIMITS ON THE NORTH, WEST, AND SOUTH SIDE OF PROPERTY LINE SETBACK BY 4 INCHES, EXCEPT IN AREAS EXISTING FEATURES ARE TO REMAIN. IN AREAS WHERE FENCELINE IS TO BE ADJUSTED, USACE APPROVAL IS REQUIRED TO BE DOCUMENTED PRIOR TO INSTALLATION.
2. CONTRACTOR TO FIELD VERIFY EXISTING GRADE. CONTRACTOR TO IMMEDIATELY NOTIFY THE CITY OF FORT LAUDERDALE OF ANY DISCREPANCIES.
3. MINIMUM OF 3 INCHES OF NO. 57 STONE REQUIRED IN AREA DESIGNATED.
4. CONTRACTOR TO MATCH EXISTING GRADE AROUND PROPERTY BOUNDARY EXCEPT IN AREAS WHERE EXISTING GRADE DRAINS TO NEIGHBORING PROPERTIES. CONTRACTOR TO GRADE PROPERTY LIMITS TO A CATCH BASIN OR THE RIGHT OF WAY LOCATED ON THE EAST SIDE OF THE PROPERTY AS INDICATED ON THIS SHEET. NO RUNOFF SHALL DRAIN TO NEIGHBORING PROPERTIES WITHOUT THE CITY OF FORT LAUDERDALE'S APPROVAL.
5. CONTRACTOR TO COORDINATE WITH CITY OF FORT LAUDERDALE FOR BACKFLOW PREVENTER VALVE LOCATION. CONTRACTOR TO PROVIDE SUBMITTAL FOR THE ENCLOSURE FOR BACKFLOW PREVENTER PRIOR TO INSTALLATION.
6. WATER METER BOX SHALL BE THE ONE DONE #890-40-260282 MEDIUM BOX AND 890-40-260257 MEDIUM LID OR EQUAL.
7. WATER SERVICE LINE INSTALLATION TO BE IN ACCORDANCE WITH CITY OF FORT LAUDERDALE STANDARD WATER DETAIL 300 AND 301.
8. SWING GATES TO MATCH VINYL FENCE STYLE. SWING OUTWARDS TO NW 15TH AVENUE, AND SECURED WITH A COMMERCIAL HEAVY DUTY DROP ROD.
9. DEMO AND REPLACE EXISTING SIDEWALK PER DETAIL ROAD-035. CONSTRUCT SIDEWALK PER CITY OF FORT LAUDERDALE SIDEWALK CONSTRUCTION DETAIL C2.1.

DMC PERMIT - NOT FOR CONSTRUCTION

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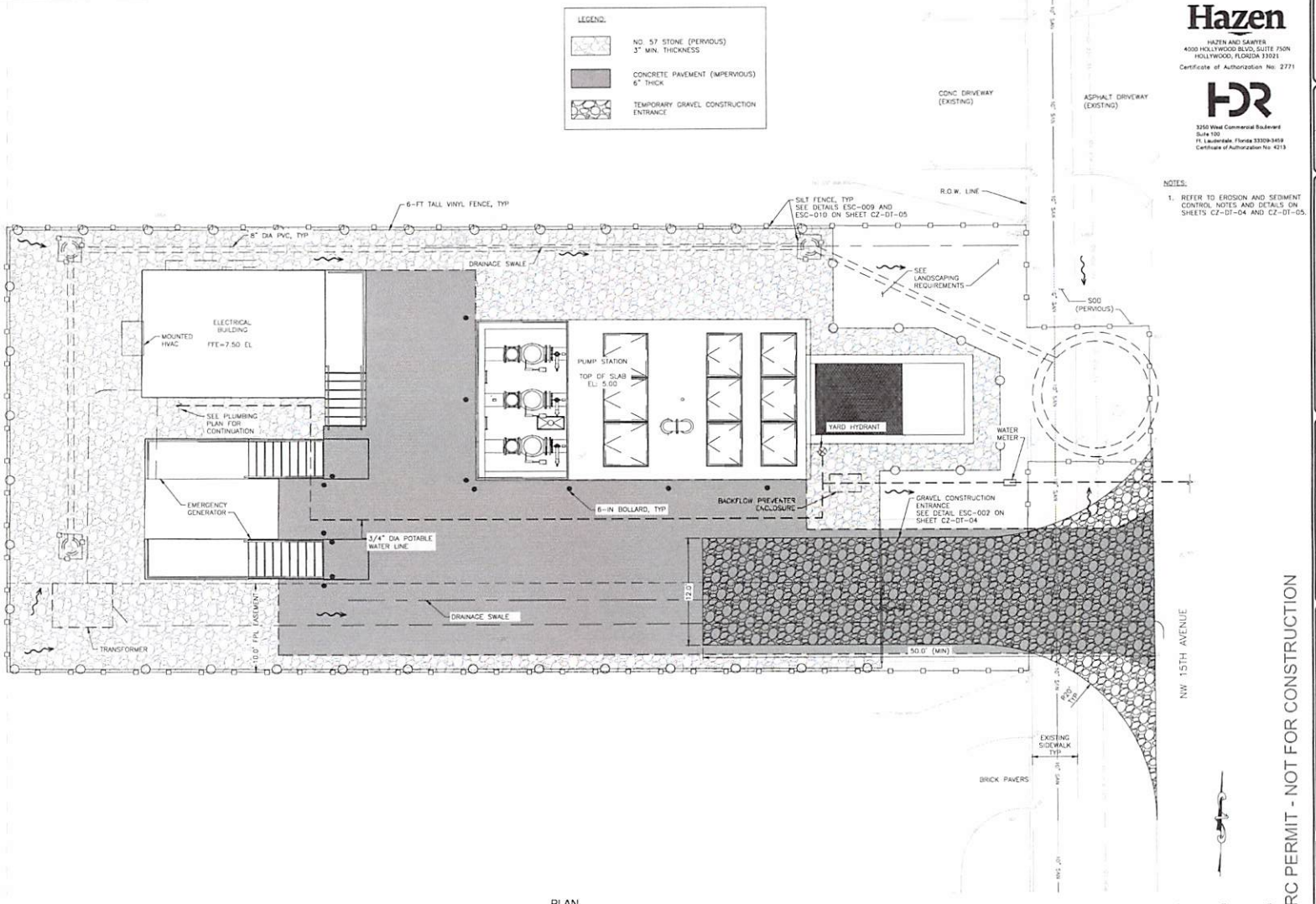
Certificate of Authorization No: 4211

REVISIONS			
NO.	DATE	BY	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33311

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
PUMP STATION SITE PLAN

SHEET NO.
CD-ST-01
TOTAL: 134
CAD FILE: 11845-CD-ST01
DRAWING FILE NO. 4-143-65



PLAN
1"=5'-0"

DRC PERMIT - NOT FOR CONSTRUCTION

Hazen

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HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No. 2771

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Ft. Lauderdale, Florida 33309-3459
Certificate of Authorization No. 4213

NOTES:

1. REFER TO EROSION AND SEDIMENT CONTROL NOTES AND DETAILS ON SHEETS CZ-DT-04 AND CZ-DT-05.

ENGINEER: BEN ELIAS
BE No. 72469
DATE TBD
TEL: 954-987-0068
FAX: 954-987-5944

DRAWN BY: TB
DATE: 05/09/2023
DESIGNED BY: DAB
SCALE: 1"=20'
CHECKED BY: LCTR
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
EROSION CONTROL SITE PLAN

SHEET NO.
CD-ST-02
TOTAL: 134
CAD FILE: 11845-CD-ST02
DRAWING FILE NO. 4-143-65

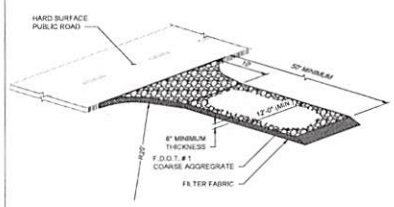
EROSION AND SEDIMENT CONTROL:

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.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | EROSION AND SEDIMENT CONTROL NOTES SHEET 1 | DWG. NO. ESC 001 | REVISED 01/17/08

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 ONE 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. OBTAIN A GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOCUMENT 62-621.300(4)(A).
    - 17.2. COMPLY WITH ALL REQUIREMENTS OF THE GENERIC PERMIT.
    - 17.3. DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
    - 17.4. COMPLETE A NOTICE OF INTENT (NOI) FLORIDA DEPARTMENT OF ENVIRONMENTAL 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.

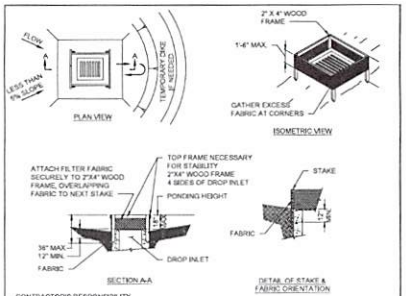
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | EROSION AND SEDIMENT CONTROL NOTES SHEET 2 | DWG. NO. ESC 002 | REVISED 01/17/08



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 PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | GRAVEL CONSTRUCTION ENTRANCE | DWG. NO. ESC 002 | REVISED 01/17/08



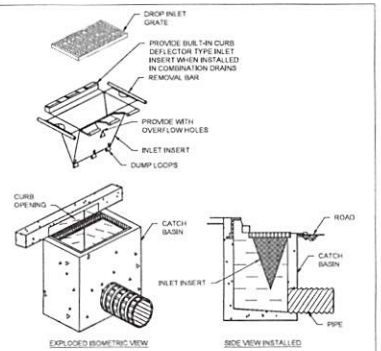
CONTRACTOR'S RESPONSIBILITY

EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CRITERIA, IF THE BMPS PROVIDED DO NOT PREVENT SOILS 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, NEARLY LEVEL DRAINAGE 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 (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
5. MIRAFI OR APPROVED EROSION CONTROL FABRIC SHALL BE WRAPPED AROUND GRATE.
6. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

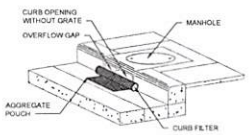
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | DROP INLET PROTECTION - SEDIMENT BARRIER | DWG. NO. ESC 004 | REVISED 01/17/08



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.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | DROP INLET PROTECTION - INLET INSERT | DWG. NO. ESC 005 | REVISED 01/17/08



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 PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | CURB INLET PROTECTION - CURB FILTER | DWG. NO. ESC 006 | REVISED 01/17/08

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ENGINEER: ALEXANDER MILLER
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DRAWN BY: HCO | DATE: 06/09/2023
DESIGNED BY: BK | SCALE: AS NOTED
CHECKED BY: IS | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
(EC North Andrews Avenue Fort Lauderdale Florida 33301)

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11845
STORMWATER IMPROVEMENTS
DORSEY RIVERBEND NEIGHBORHOOD
CIVIL DETAILS - SHEET 4

SHEET NO.
CZ-DT-04
TOTAL: 134
CAD FILE: 11845-CZ-DT04
DRAWING FILE NO. 4-143-65

PLOT DATE: 6/22/2023 2:11 PM BY: JCLARK

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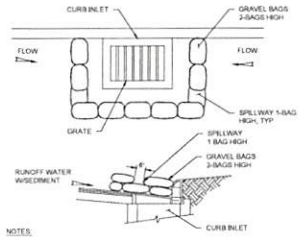
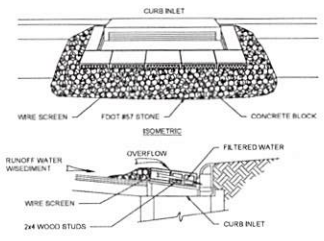


NOTES:

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.

CITY of FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | CURB INLET PROTECTION - GRAVEL BAG | ESC 007



NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2 - 3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR INLETS IN ROADWAYS WITH HEAVY TRAFFIC CONDITIONS PREFABRICATED FILTER INSERTS MAY BE USED.

CITY of FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | CURB INLET PROTECTION - BLOCK AND STONE | ESC 008

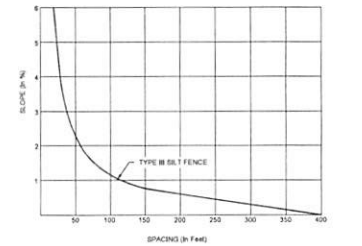
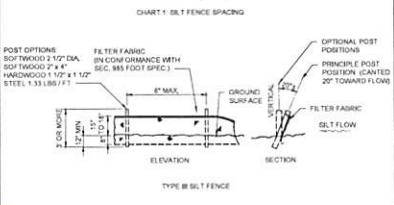
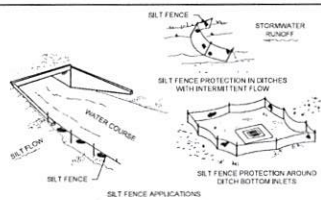


CHART 1: SILT FENCE SPACING

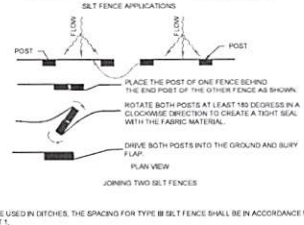


TYPE III SILT FENCE

CITY of FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS | SILT FENCE - SHEET 1 | ESC 009



SILT FENCE APPLICATIONS

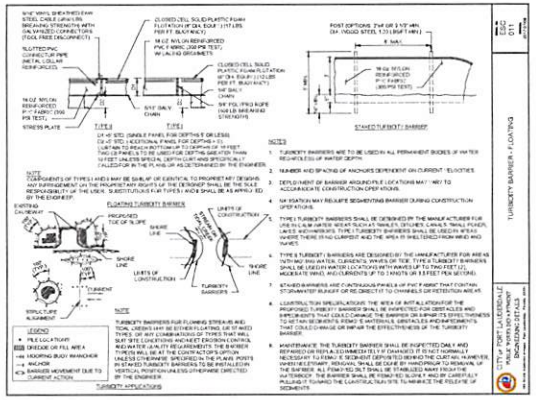


JOINING TWO SILT FENCES

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 | SILT FENCE - SHEET 2 | ESC 010



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PROJECT # 11845
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