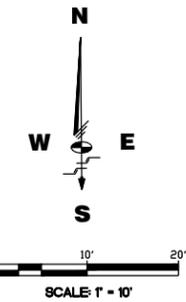


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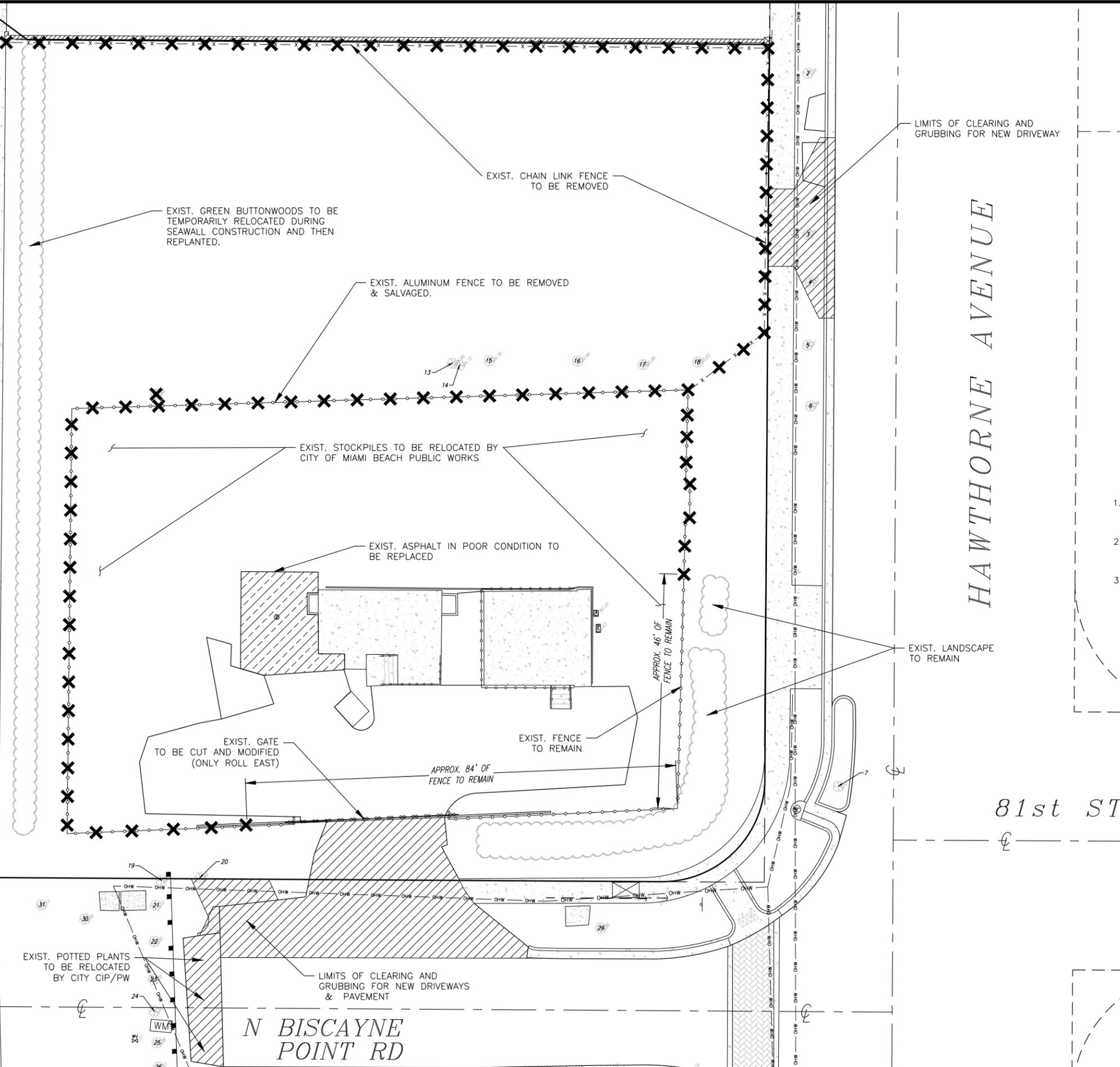


LEGEND

- TO BE REMOVED
- LIMITS OF BAD ASPHALT TO BE REPLACED
- LIMITS OF RIGHT OF WAY TO BE CLEARED FOR PROPOSED DRIVEWAYS

GENERAL NOTES

- EXISTING ALUMINUM FENCE TO BE REMOVED AND SALVAGED, WHERE POSSIBLE, TO USE AS PART OF NEW PROPOSED ALUMINUM FENCE.
- EXISTING ROLLING GATE FOR SANITARY LIFT STATION TO BE MODIFIED TO ONLY ROLL TOWARDS THE EAST TO OPEN.
- SEE TREE DISPOSITION PLAN BY LANDSCAPE ARCHITECT FOR TREES TO BE REMOVED/RELOCATED.



HAWTHORNE AVENUE

81st ST

N BISCAIYNE
POINT RD

NEIGHBORHOOD: **BISCAIYNE BEACH**

TITLE: **DEMOLITION PLAN**

DRB FINAL

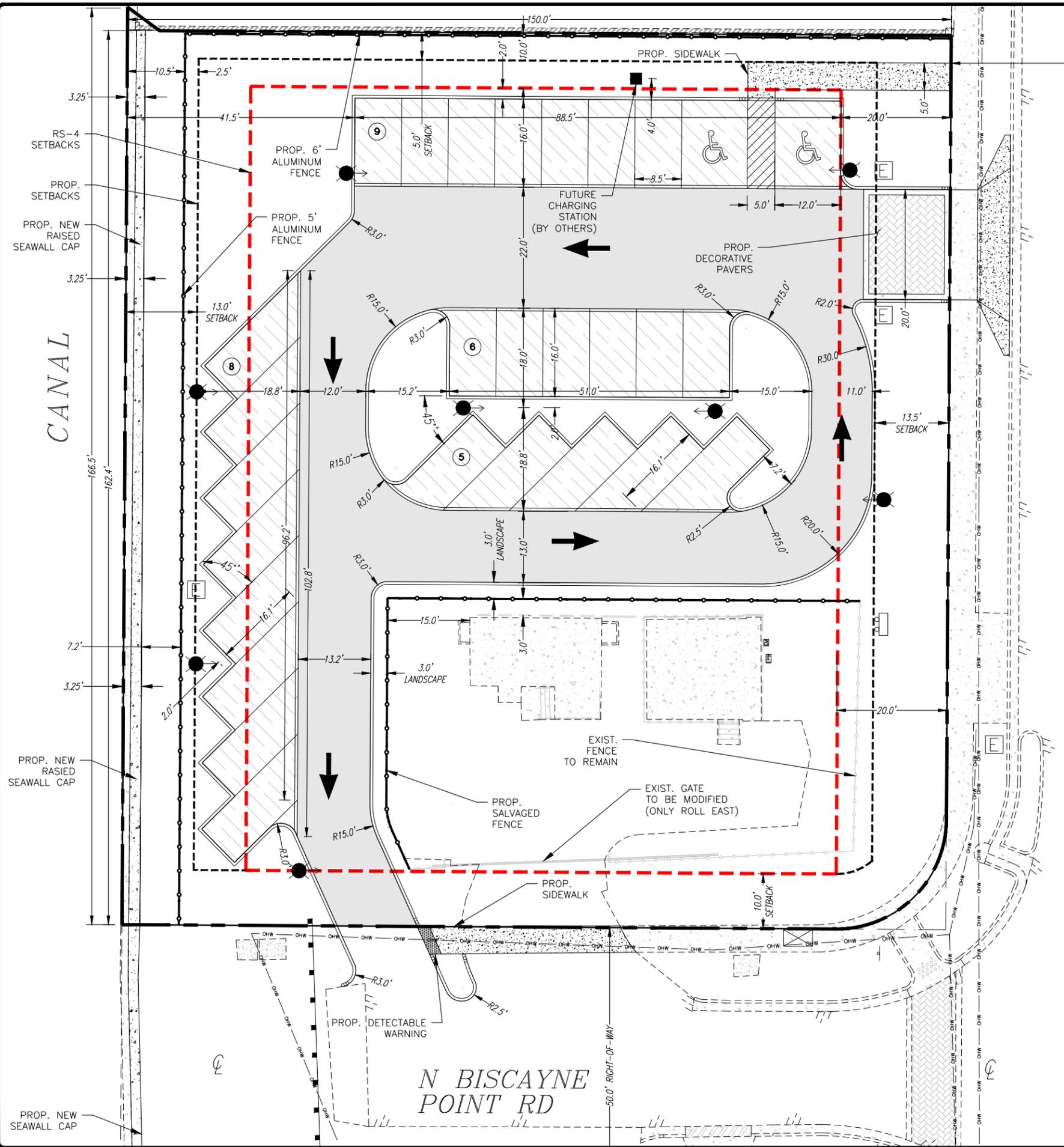
ENG. OF RECORD: **Luis F. Leon, PE**
 TITLE: **Assistant Vice President**
 ENGINEER NO.: **58670**
 DRAWN BY: **DCT**
 CHECKED BY: **LEI**
 SCALE: **As Noted**

FIELD BOOK: **---**
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 PURCHASE ORDER: **20181531-00**
 FILE NAME: **Demo.dwg**

ISSUE DATE: **08/03/18**

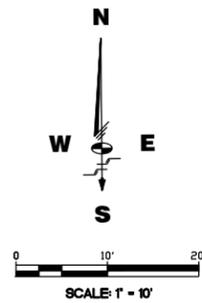
Dwg. No: **C-6**

OF: 31



LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED PERVIOUS CONC.
- PROPOSED FUTURE ELECTRIC VEHICLE CHARGING STATION
- PROPOSED LIGHT POLES
- PROPOSED ALUMINUM PICKET FENCE
- PARKING ROW COUNT
- DIRECTION OF TRAFFIC FLOW
- REQUIRED SETBACK
- PROPOSED SETBACK
- PROPOSED ELECTRIC BOXES/PANELS



MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

Schwabke Shiskin & Associates, Inc.
LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

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SINGLE FAMILY RESIDENTIAL - ZONING DATA SHEET

1	Address:	8100 Hawthorne Avenue		
2	Folio number(s):	02-3203-001-3450		
3	Board and file numbers:	DRB18-0283		
4	Year built:	N/A	Zoning District:	GU (RS-4 Underlying)
5	Based Flood Elevation:	Zone AE 8	Grade value in NGVD:	4.56' (3.00' NAVD)
6	Adjusted grade (Flood+Grade/2):	6.28' (4.72' NAVD)	Free board:	N/A
7	Lot Area:	24,285 SF (0.56 Ac.)	Lot coverage deducted (garage-storage) SF:	N/A
8	Lot width:	162.4'	Lot Depth:	150.0'
9	Max Lot Coverage SF and %:	N/A	Proposed Lot Coverage SF and %:	N/A
10	Existing Lot Coverage SF and %:	N/A	Lot coverage deducted (garage-storage) SF:	N/A
11	Front Yard Open Space SF and %:	2,165 SF (68.4%)	Rear Yard Open Space SF and %:	2,568 SF (70.3%)
12	Max Unit Size SF and %:	N/A	Proposed Unit Size SF and %:	N/A
13	Existing First Floor Unit Size:	N/A	Proposed First Floor Unit Size:	N/A
14	Existing Second Floor Unit Size:	N/A	Proposed Second Floor volumetric Unit Size SF and % (Note: to exceed 70% of the first floor of the Proposed Second Floor Unit Size SF and %:	N/A
15			Proposed Second Floor Unit Size SF and %:	N/A
16			Proposed Roof Deck Area SF and % (Note: Maximum is 25% of the enclosed floor area immediately below):	N/A
17	Height:	N/A		N/A
18	Setbacks:			
19	Front First level:	20.0'	13.5'	6.5'
20	Front Second level:	N/A	N/A	N/A
21	Side 1:	10.0'	5.0'	5.0'
22	Side 2 or (facing street):	10.0'	10.0'	--
23	Rear:	22.5'	13.0'	9.5'
24	Accessory Structure Side 1:	N/A	N/A	N/A
25	Accessory Structure Side 2 or (facing street):	N/A	N/A	N/A
26	Accessory Structure Rear:	N/A	N/A	N/A
27	Sum of Side yard:	N/A	N/A	N/A
27	Located within a Local Historic District?	No		
28	Designated as an individual Historic Single Family Residence	No		
29	Determined to be Architecturally Significant?	No		

Notes:
If not applicable write N/A
All other data information should be presented like the above format

NEIGHBORHOOD: **BISCAYNE BEACH**

TITLE: **SITE PLAN**

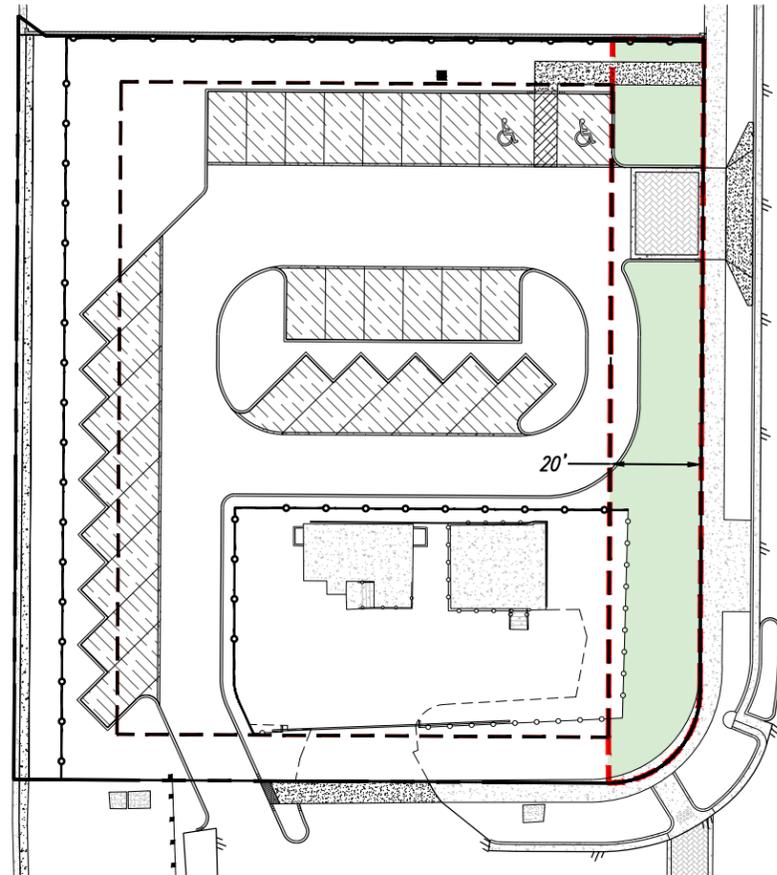
DRB FINAL

ENG. OF RECORD: Luis F. Leon PE
TITLE: Assistant Vice President
ENGINEER NO.: 58670
DRAWN BY: DCT
CHECKED BY: LEL
SCALE: As Noted

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PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME: SP.dwg

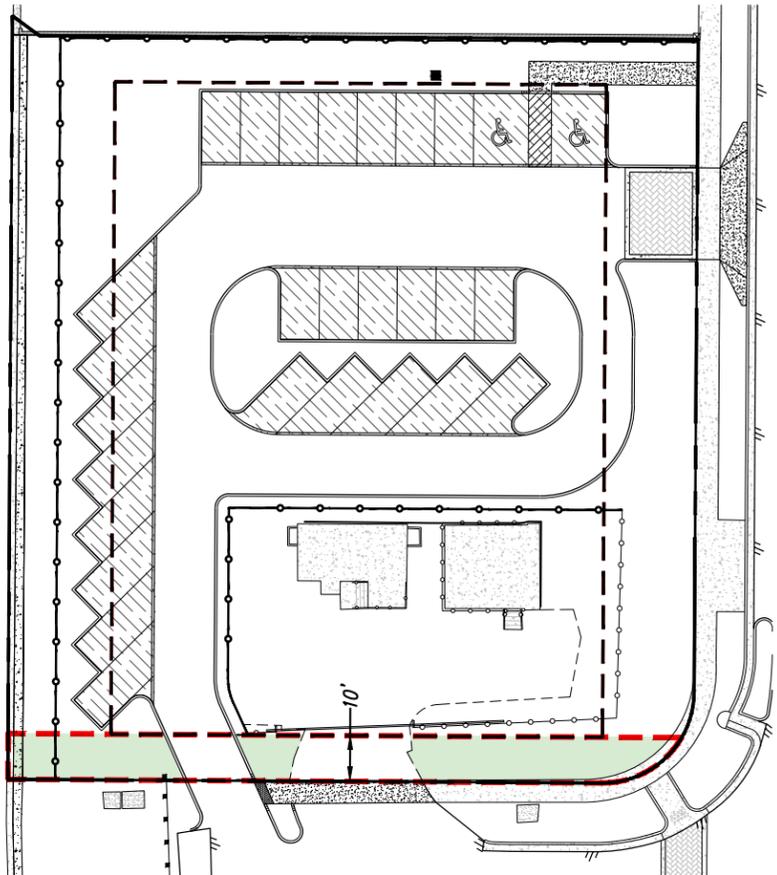
ISSUE DATE: 08/03/18
Dwg. No: C-7
OF: 31

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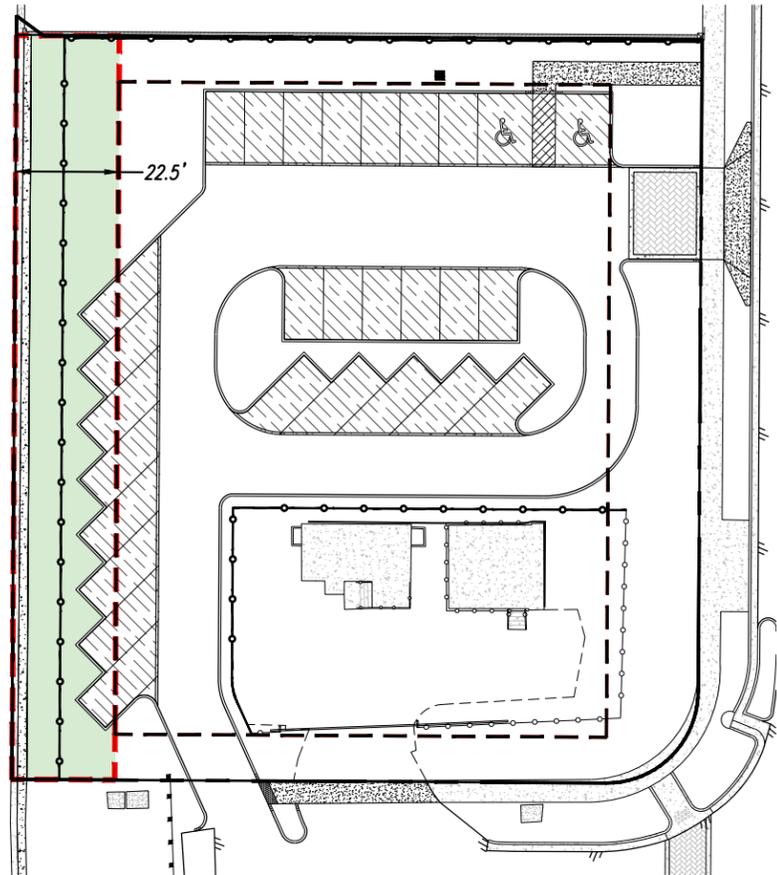
FRONT OPEN SPACE

TOTAL YARD AREA: 3,164 SF
SETBACK REQUIRED: 20'
REQUIREMENT: 1,582 SF (50% MINIMUM)
AREA PROVIDED: 2,165 SF (68.4%)



SIDE (STREET) OPEN SPACE

TOTAL YARD AREA: 1,424 SF
SETBACK REQUIRED: 10'
REQUIREMENT: 712 SF (50% MINIMUM)
AREA PROVIDED: 935 SF (65.7%)



REAR OPEN SPACE

TOTAL YARD AREA: 3,654 SF
SETBACK REQUIRED: 22.5'
REQUIREMENT: 2,558 SF (70% MINIMUM)
AREA PROVIDED: 2,568 SF (70.3%)

LEGEND

OPEN SPACE PERVIOUS AREA

REQUIRED SETBACK LINE

N
W E
S

0 20' 40'

SCALE: 1" = 20'

NEIGHBORHOOD: **BISCAYNE BEACH**

TITLE: **YARD OPEN SPACE DIAGRAM AND CALCULATIONS**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER No.: 58870
DRAWN BY: DCI
CHECKED BY: JFL
SCALE: As Noted

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME: Open Area Diagram.dwg
ISSUE DATE: 08/03/18

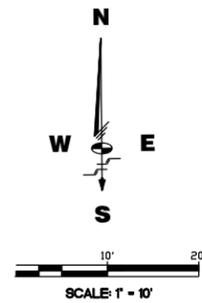
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OF: 31

CANAL

N BISCAYNE
POINT RD

HAWTHORNE
AVENUE

81st ST.



MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

*Schwabke
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LAND SURVEYORS
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LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

GENERAL NOTES

1. FIRE TRUCK ACCESS SHALL ONLY BE VIA NORTHEAST ENTRANCE.
2. NO TURN AROUND MOVEMENTS NOR CIRCULATION ROUTES HAVE BEEN PROVIDED.
3. A 150' HOSE LENGTH HAS BEEN SHOWN TO DEMONSTRATE REACH TO THE FURTHEST PARKING SPOT.

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NEIGHBORHOOD: **BISCAYNE BEACH**

TITLE: **FIRE SITE PLAN**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
 TITLE: Assistant Vice President
 ENGINEER No.: 58670
 DRAWN BY: DCI
 CHECKED BY: LEI
 SCALE: As Noted

FIELD BOOK: ---
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 PURCHASE ORDER: 20181531-00
 FILE NAME: SP.dwg

ISSUE DATE: 08/03/18

Dwg. No:

C-9

OF: 31

ALL ELEVATIONS IN NAVD

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

*Schwabke
Shiskin &
Associates, Inc.*

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

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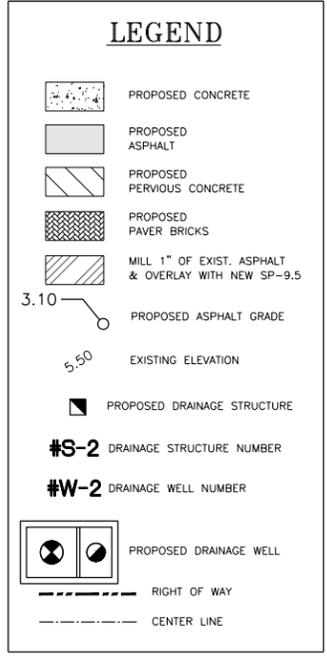
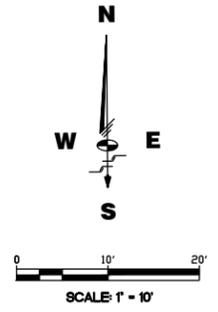
NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **CIVIL UTILITIES PLAN**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER NO.: 58670
DRAWN BY: DCI
CHECKED BY: LEI
SCALE: As Noted

FIELD BOOK: ---
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PURCHASE ORDER: 20181531-00
FILE NAME: PD.dwg
ISSUE DATE: 08/03/18

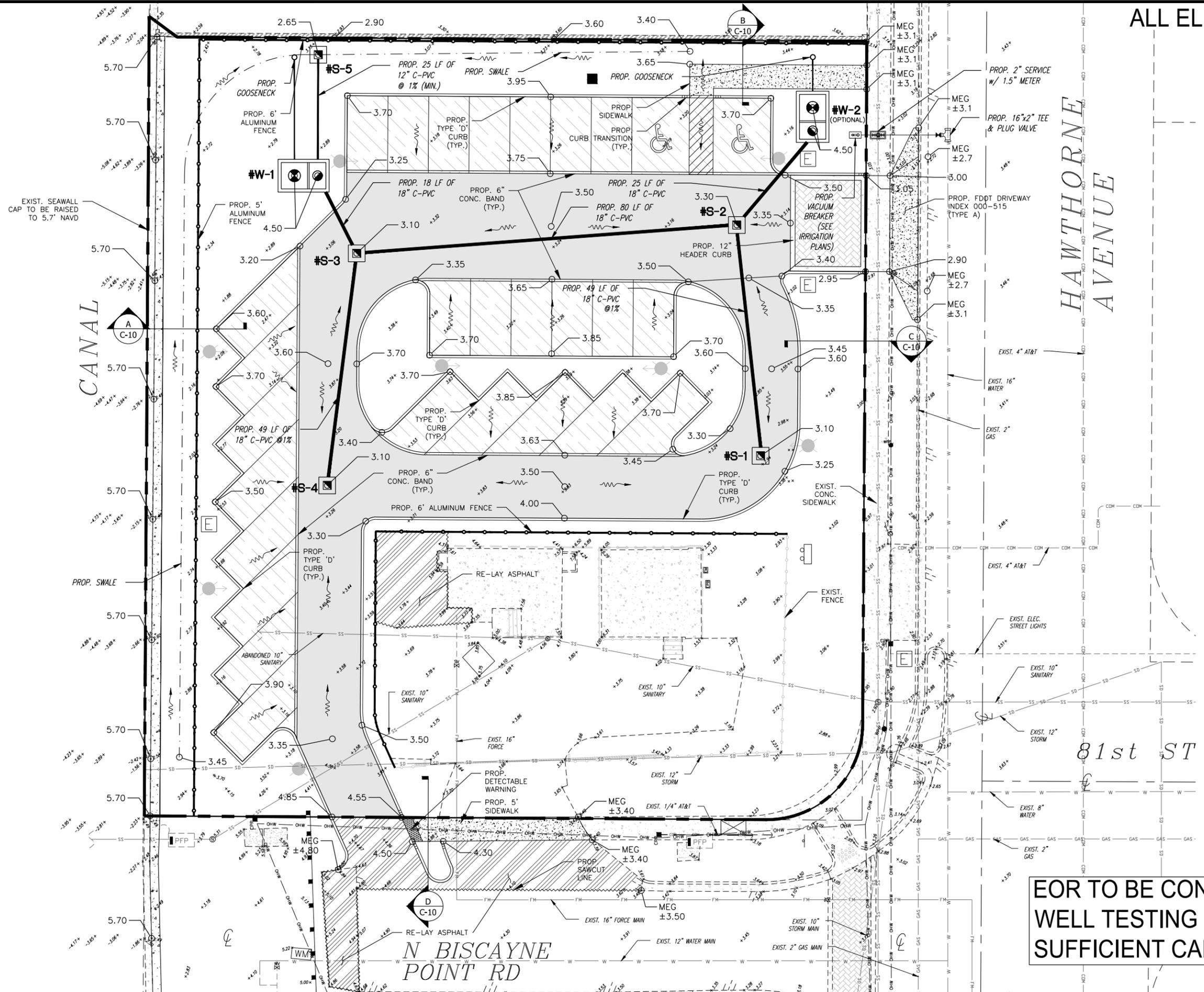
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OF: 31



GENERAL NOTES

- WELL #1 TO BE DRILLED AND TESTED FIRST (MIN. 565 GPM). WELL #2 WILL BE CONSTRUCTED ONLY IF NEEDED.

EOR TO BE CONTACTED DURING WELL TESTING TO ADVISE ON SUFFICIENT CAPACITY



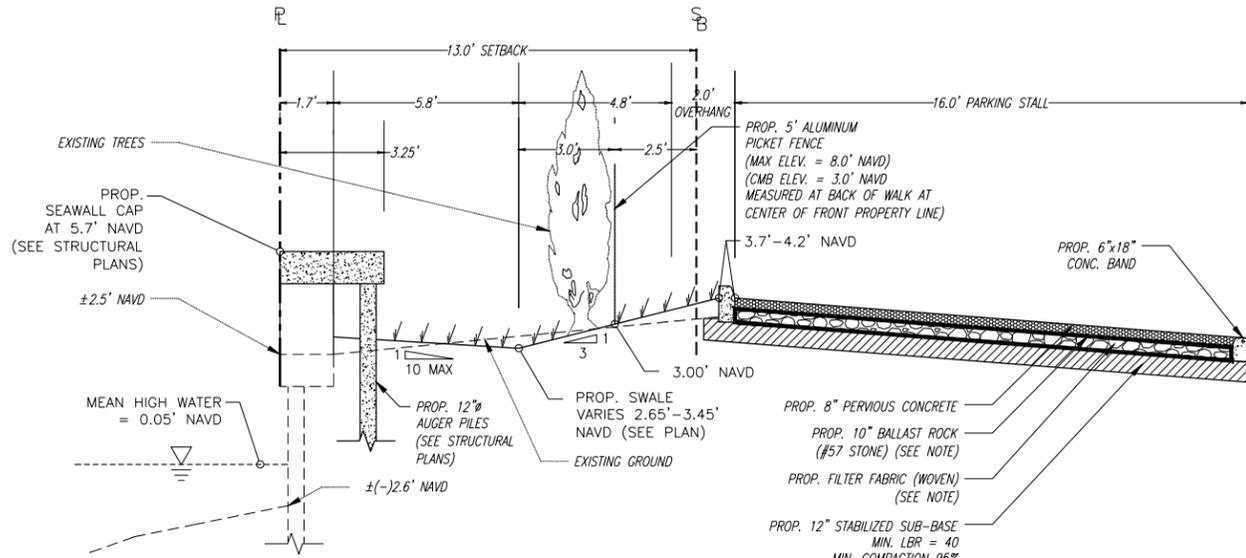
HAWTHORNE AVENUE

81st ST

N BISCAYNE POINT RD

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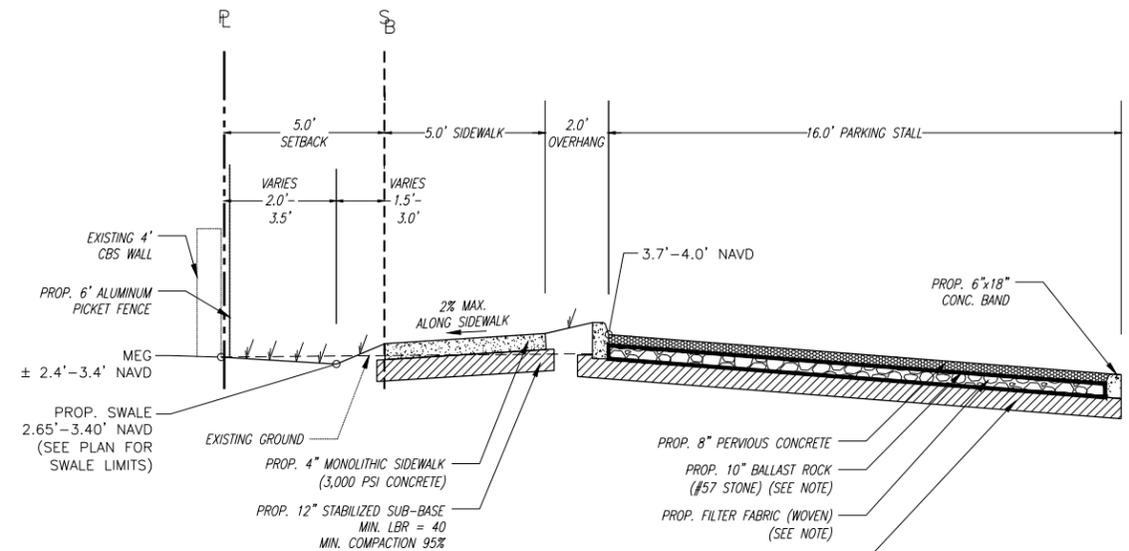
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SECTION 'A'
N.T.S.

SECTION NOTES:

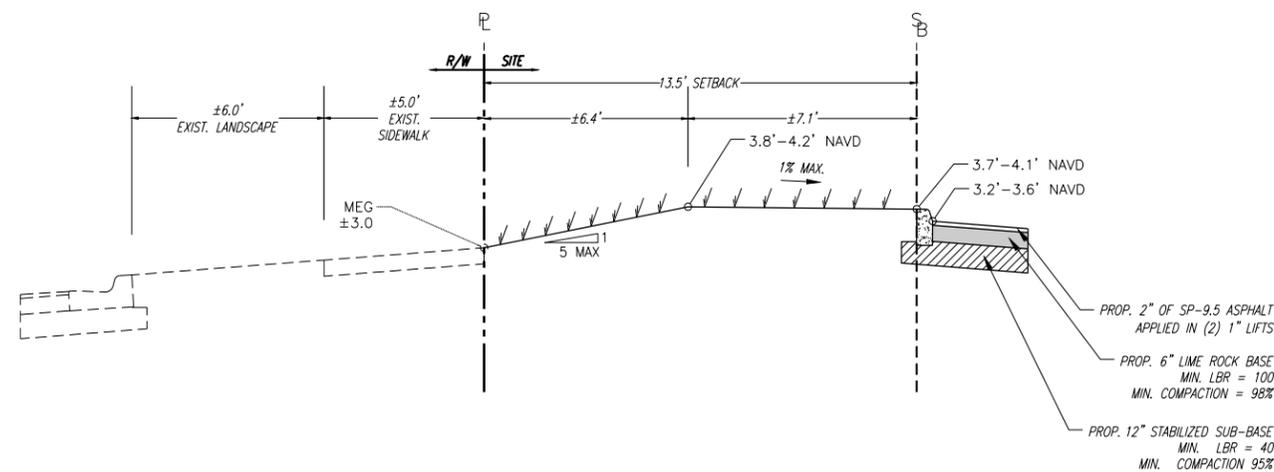
- AFTER BALLAST ROCK HAS BEEN PLACED, IT SHALL BE CAREFULLY COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT. ADDITIONAL BALLAST ROCK SHALL BE ADDED, AS NEEDED, TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION. REPEAT UNTIL SETTLEMENT NO LONGER OCCURS.
- FILTER FABRIC SHALL BE PLACED ALONG THE FULL LENGTH OF THE BOTTOM, SIDES, AND ENDS OF THE INFILTRATION TRENCH.



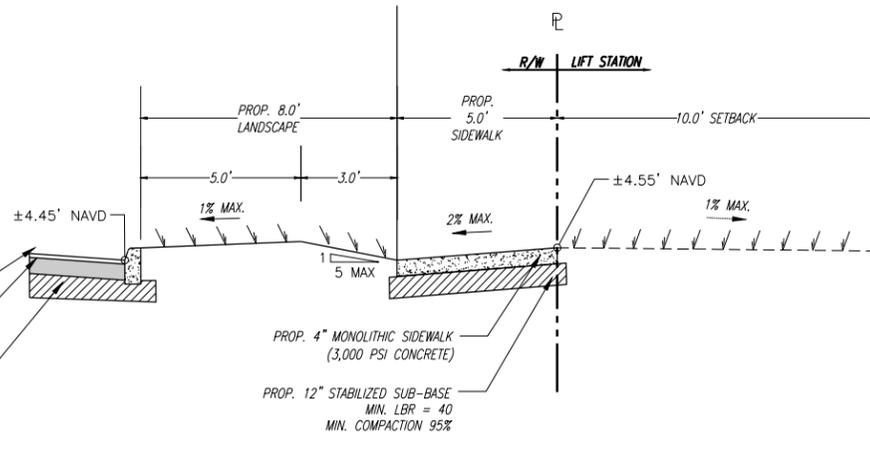
SECTION 'B'
N.T.S.

SECTION NOTES:

- AFTER BALLAST ROCK HAS BEEN PLACED, IT SHALL BE CAREFULLY COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT. ADDITIONAL BALLAST ROCK SHALL BE ADDED, AS NEEDED, TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION. REPEAT UNTIL SETTLEMENT NO LONGER OCCURS.
- FILTER FABRIC SHALL BE PLACED ALONG THE FULL LENGTH OF THE BOTTOM, SIDES, AND ENDS OF THE INFILTRATION TRENCH.



SECTION 'C'
N.T.S.



SECTION 'D'
N.T.S.

NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **PAVING, GRADING, AND DRAINAGE SECTIONS**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER No.: 58670
DRAWN BY: DCI
CHECKED BY: LEI
SCALE: As Noted

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME: Sections.dwg

ISSUE DATE: 08/03/18

Dwg. No:

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OF: 31

GENERAL NOTES:

- ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT.
- THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ANY DISCREPANCY OR VARIATION FROM THE APPROVED DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE, OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING NECESSARY MEASURES TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE ENGINEERING INSPECTOR OF THE CITY OF MIAMI BEACH OR HIS DESIGNEE UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE ACCESS AND ASSISTANCE TO THE CITY ENGINEER OR HIS DESIGNEE TO MAKE INSPECTIONS, AS NECESSARY, DURING CONSTRUCTION.
- NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER OR HIS DESIGNEE.
- CONTRACTOR MUST CALL CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT TO OBTAIN A RIGHT OF WAY PERMIT AND ARRANGE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ENGINEERING PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THEIR OFFICE. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCIES SHALL BE IN ACCORDANCE WITH THEIR STANDARDS.
- TRENCH EXCAVATIONS IN EXCESS OF 5 FEET DEEP SHALL COMPLY WITH THE TRENCH SAFETY ACT AS PER O.S.H.A. STANDARD 29 CFR 5.926.650 SUBPART P IN STATUTES. THE TRENCHES AND DITCHES SHALL BE PROTECTED IN ACCORDANCE WITH RULE 38c-43.02 FAC AND 6A-1.095(2).
- ERECTION OR INSTALLATION OF APPROPRIATE SAFETY AND WARNING DEVICES SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION. SAID DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "MANUAL ON TRAFFIC CONTROL AND SAFETY PRACTICES" AND THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONGSIDE OF AND OVER ALL UTILITIES. THE CITY ENGINEER REQUIRES THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CITY. THE RETESTING COST, DUE TO FAILURE OF THE COMPACTION TEST, WILL BE PAID BY THE CONTRACTOR.
- WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED BY THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT.
 - CONTRACTOR'S, SUBCONTRACTOR'S AND SUPPLIER'S WAIVER AND RELEASE OF LIEN.
 - CONTRACTOR'S LETTER OF WARRANTY (I.E. LETTER OF AGREEMENT).
 - "AS BUILT" - FOUR (4) ORIGINALS 22"x34" & 11"x17" SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR SHOWING SPECIFIC LOCATION, DEPTH, ETC. OF ALL CITY FACILITIES TOGETHER WITH A DIGITAL COPY IN AUTOCAD LAST VERSION 2011 OF THE "AS-BUILT" DRAWINGS USING STATE PLANE FLORIDA EAST PLY 0901 FEET MAP 1983 (FEET).
- THESE PLANS ARE PREPARED FROM UTILITY INFORMATION OF PREVIOUS AND RECENT AVAILABLE RECORDS. THE DESIGNER IS NOT LIABLE FOR ANY UTILITY CONFLICTS AND UNKNOWN THAT ARE DISCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES. IN CASE THAT A CONFLICT ARISES, THE ENGINEER OF RECORDS OR HIS DESIGNEE SHALL BE INFORMED TO MAKE THE APPROPRIATE DESIGN CHANGES.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **GENERAL NOTES** GN1a

GENERAL NOTES:

- FOR SPECIFICATIONS, PLEASE REFER TO THE CITY OF MIAMI BEACH PUBLIC WORKS MANUAL.
- DUE TO SOIL CONDITIONS, HIGH WATER TABLE AND PROTECTION OF ROADWAY, UTILITIES AND EXISTING LANDSCAPING, SHORING WILL BE REQUIRED FOR TRENCH AND STRUCTURE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL AT THE PRECONSTRUCTION MEETING. THE COST OF SHORING WILL BE INCLUDED IN THE COSTS OF STRUCTURE AND PIPES. DEWATERING MAY BE REQUIRED AND SHALL BE INCLUDED IN THE COSTS OF STRUCTURES AND PIPES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TURBIDITY BARRIER AT ALL OUTFALLS SUBJECT TO POTENTIAL DISCHARGE DURING CONSTRUCTION. SEE FDOT INDEX NO 104. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL KNOWLEDGE OF ALL APPLICABLE REGULATORY REQUIREMENTS AND CORRECT ANY SILTATION OR OTHER DAMAGE TO THE DRAINAGE SYSTEM.
- CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL REQUIREMENTS.
- WHEN POWER POLES ARE ADJACENT TO ANY PROPOSED UTILITY, THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER SUITABLE SUPPORT DURING CONSTRUCTION. THE SHORING AND SUPPORT METHODS SHALL BE APPROVED BY THE UTILITY COMPANY ENGINEERING DEPARTMENT.
- ALL DEFECTIVE WORK NOT ACCEPTED BY THE CITY ENGINEER OR HIS DESIGNEE, OR BY ANY GOVERNMENT PERMITTING AGENCY SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL CONTACT PWD TO INSPECT METERS AND BOXES AHEAD OF CONSTRUCTION TO DETERMINE WHETHER REPLACEMENT IS NECESSARY.
- ELEVATIONS ARE REFERRED TO NAVD 88, BASED ON A _____ BENCH MARK NO. _____ ELEVATION: _____ (NGV DATUM) = _____ (NAVD 88) LOCATOR: _____ NAME: _____ ELEVATION: _____ (NAVD 88) LOCATOR: _____ LOCATED AT _____
- PROVIDE RESTRAINING BY THE USE OF FIELD LOCK GASKET ON TYTON JOINT PIPE AND AS MANUFACTURED BY U.S. PIPE OR EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED WATER SERVICE DURING THE CONSTRUCTION OF THE TIE-IN CONNECTION OF ALL PROPOSED WATER SYSTEMS TO ANY EXISTING WATER SERVICE LINES. ABANDONMENT SHALL NOT OCCUR UNTIL THE PROPOSED WORK HAS BEEN APPROVED AND ACCEPTED FOR OPERATION BY THE ENGINEER OF RECORD AND THE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT, WATER DIVISION. CONTRACTOR SHALL REQUEST FROM CMB 48 HOURS PRIOR FOR WATER MAIN SHUTDOWN.
- ALL WATER METER BOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH CITY ISSUED WATER METER BOXES AND PAID FOR BY CONTRACTOR.
- ALL PROPOSED WATER METERS SHOULD BE A MINIMUM OF A 2-INCH SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACTUAL NUMBER OF EXISTING WATER SERVICES TO BE CONNECTED TO THE PROPOSED WATER MAIN.
- ALL DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA C 600 LATEST REVISIONS WITH A DETECTOR TAPE. DETECTOR TAPE SHALL BE 3" WIDE BLUE TAPE FOR WATER MAIN WITH A METALLIC FOIL CORE LAMINATED BETWEEN TWO LAYERS OF PLASTIC FILM. THE WORKS CAUTION WATER LINE BURIED BELOW THE UPPER SIDE OF THE PIPE SHALL BE PRINTED AT 30" INTERVALS ALONG THE TAPE. TAPE SHALL BE PLACED 18" BELOW GRADE ABOVE ALL WATER MAINS AND SERVICES OR AS RECOMMENDED BY MANUFACTURER NON-METALLIC TAPE SHALL BE USED ABOVE DUCTILE IRON PIPE.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **GENERAL NOTES** GN1b

GENERAL NOTES:

- CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH HRS (DEPT. OF HEALTH) THE WATER SAMPLING AND BACTERIOLOGICAL TESTS AND FINAL CERTIFICATION FROM HRS.
- TAPPING SLEEVE VALVE TO BE PRESSURE TESTED AT 125 PSI FOR TWO (2) HOURS BEFORE TAPPING.
- THRUST BLOCK NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE MEDALLUS OR CLASS 316 STAINLESS STEEL RESTRAINING RODS.
- CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING CLAY PIPING.
- EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE UNTIL THE NEW MAIN IS PLACED IN SERVICE. ONCE THE NEW MAIN IS IN SERVICE, THE OLD HYDRANT SHALL BE COVERED AND TAGGED WITH A SIGN INDICATING "OUT OF SERVICE" UNTIL IT IS REMOVED BY THE CONTRACTOR.
- NPDES BMP FOR SEDIMENTATION AND EROSION WORK MUST BE STRICTLY FOLLOWED DURING AND AFTER CONSTRUCTION.
- PIPES SHALL BE INSTALLED IN THE DRY.
- ALL D.I. PIPE SHALL BE THICKNESS CLASS 52 AND SHALL BE POLYWRAPPED AS PER W57.
- ALL RELATED HARDWARE FOR RESTRAINING RODS TO BE STAINLESS STEEL CLASS 316.
- A CONCRETE SLAB SHALL BE INSTALLED OVER ANY PIPE INSTALLED WITH LESS THAN 30" OF COVER AS PER STANDARD DETAIL SES1.
- ELEVATIONS ON PLANS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR SHALL BE GOVERNED BY THE LATEST APPLICABLE PORTIONS OF THE F.D.O.T. DESIGN STANDARDS, AND THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTS THERE TO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE PROJECT AREA BEFORE THE START OF CONSTRUCTION. SEE THE UTILITY CONTACT INFORMATION TABLE FOR CONTACT NUMBERS.
- ANY DAMAGED PUBLIC OR PRIVATE PROPERTY BY THE CONTRACTOR SHALL BE RESTORED TO PREEXISTING CONDITIONS OR BETTER AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 353.891 FOR THE PROTECTION OF UNDERGROUND GAS LINES.
- ERECTION OR INSTALLATION OF APPROPRIATE SAFETY AND WARNING DEVICES SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION. SAID DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "MANUAL OF TRAFFIC CONTROL AND SAFETY PRACTICES" AND THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- ALL EXISTING UTILITIES, MAN HOLE COVERS, ELECTRICAL BOXES, VALVE BOXES, METER BOXES, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REPLACE ALL UTILITY BOXES/COVERS DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOTE THE LOCATION OF WATER METER BOXES BEFORE STARTING WORK. IF EXISTING WATER METER BOXES ARE DAMAGED, CONTACT THE CITY OF MIAMI BEACH FOR REPLACEMENT.
- CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **GENERAL NOTES** GN1c

GENERAL NOTES:

- THE COLOR OF THE DETECTABLE WARNINGS ON CONCRETE OF COLORS OTHER THAN MIAMI BEACH RED, COORDINATE WITH THE PUBLIC WORKS DEPARTMENT FOR APPROPRIATE COLOR AND CONTRAST.
- ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARD HIGHWAY SIGNS.
- MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT WITHOUT JOGS OR OFFSETS.
- INCORRECTLY PLACED (THERMOPLASTIC OR) PAINT MARKINGS OVER ASPHALT PAVEMENT WILL BE REMOVED BY MILLING AND REPLACING THE ASPHALT PAVEMENT A MINIMUM WIDTH 18 IN. AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **GENERAL NOTES** GN1d

DERM NOTES ON WATER-SEWER INSTALLATION:

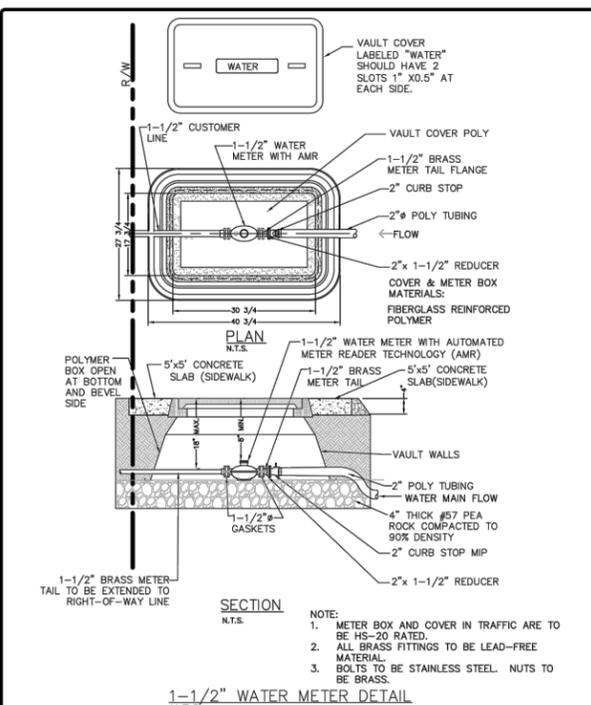
- A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
 - THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THE DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING AND THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO SUBMITTAL OF DOCUMENTATION SHOWING THAT THE PROPOSED ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER AND SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE WATER OF THE UTILITY PIPE.
- WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS ANY DEVIATION FROM NOTES 6, 7 AND 8 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND SEWER UTILITY.
- A NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL NUMBER OF OPERATING HOURS OF THE STATION.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **DERM NOTES** GN1e

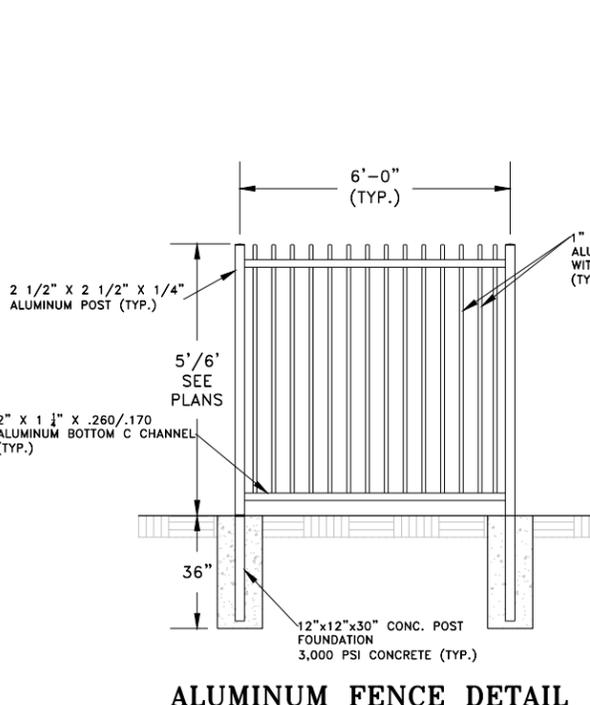
ENGINEER'S NOTES:

- EXISTING UNDERGROUND UTILITIES: INFORMATION SHOWN ON THE DRAWINGS AS TO THEIR LOCATION AND CHARACTER HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE, ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR TO ELIMINATE ANY POSSIBILITY OF DAMAGE TO UTILITIES DURING CONSTRUCTION. THE LOCATION AND CHARACTER OF ALL UTILITIES SHALL BE VERIFIED AND THE OWNER'S REPRESENTATIVE NOTIFIED OF ANY CONFLICT THAT MIGHT OCCUR.
- ALL EXISTING GRASSED AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE SODED COMPLETELY AS DIRECTED BY THE CONSTRUCTION MANAGER AT NO ADDITIONAL COST TO THE OWNER.
- PROTECT MATERIALS AND EQUIPMENT ON SITE FROM WEATHER, DUST, AND DEBRIS AT ALL TIMES, AND AVOID THE CREATION OF NUISANCE OR HAZARD IN THE SURROUNDING AREA.
- UNSCHEDULED ITEMS SHALL BE RESTORED TO THEIR ORIGINAL DESIGN AND FUNCTION AT CONTRACTOR'S EXPENSE.
- WHERE PAVEMENT DEMOLITION IS REQUIRED, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT AND PREVENT DAMAGE TO ADJACENT STRUCTURES AND PAVEMENTS TO REMAIN. LIMITS OF PAVEMENT DEMOLITION SHALL BE PERFORMED IN A NEAT, STRAIGHT LINE BY SAW CUTTING.
- EXISTING BENCHMARKS LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED. IN THE EVENT THAT THE BENCHMARKS ARE DISTURBED OR DESTROYED, THEY SHALL BE REPLACED UPON COMPLETION OF THE PROJECT.
- ADJUSTMENT AND CLEANING: CLEAN DEBRIS FROM AREAS OF DEMOLITION LEAVING AREA SUITABLE FOR WORK.
- FALL MATERIALS RESULTING FROM DEMOLITION WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE FROM SITE AND DISPOSE OF THESE MATERIALS IN A MANNER AND LOCATION APPROVED BY MIAMI-DADE COUNTY REGULATIONS.

MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **ENGINEER'S NOTES** GN1f



MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **WATER DETAILS NO. 2** 1-1/2" WATER METER DETAIL WS13



MIAMI BEACH PUBLIC WORKS DEPARTMENT APPROVED: [Signature] REVISION: [None] TITLE: **WATER DETAILS NO. 2** 1-1/2" WATER METER DETAIL WS13

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

Schwabke Shiskin & Associates, Inc.
LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87
3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

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NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **CIVIL UTILITY NOTES + DETAILS**

DRB FINAL

ENG. OF RECORD: **Luis F. Leon PE**
TITLE: **Assistant Vice President**
ENGINEER NO.: **58670**
DRAWN BY: **DCI**
CHECKED BY: **LFL**
SCALE: **As Noted**

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: **20181531-00**
FILE NAME: **DETAILS.dwg**

ISSUE DATE: **08/03/18**
Dwg. No:

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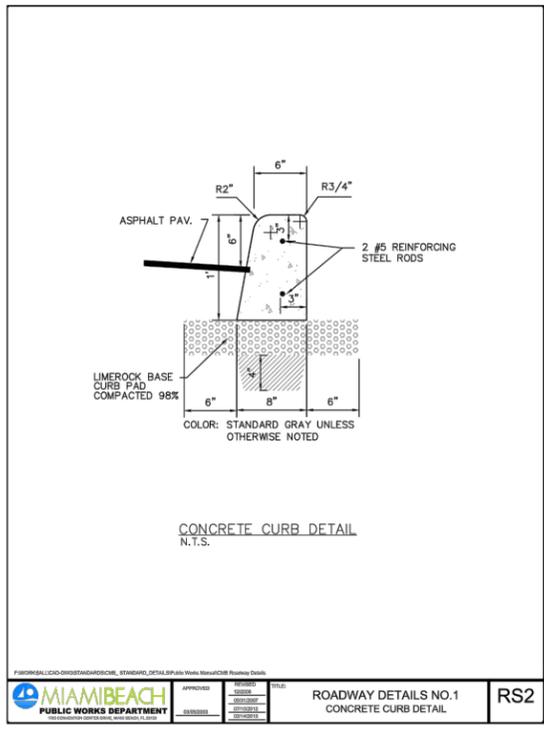
NEIGHBORHOOD: **BISCAYNE BEACH**
 TITLE: **CIVIL UTILITY DETAILS**

DRB FINAL

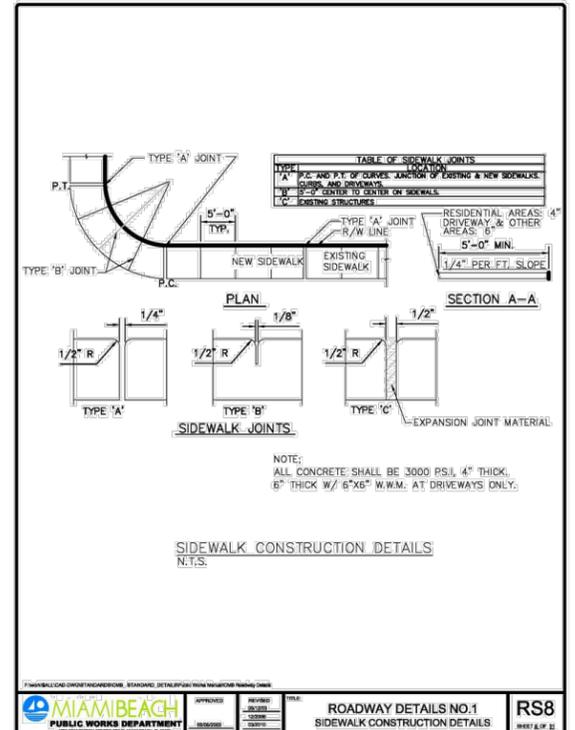
ENG. OF RECORD: Luis F. Leon, PE
 TITLE: Assistant Vice President
 ENGINEER No.: 58670
 DRAWN BY: DCI
 CHECKED BY: LEI
 SCALE: As Noted

FIELD BOOK: ---
 PAGE: ---
 PURCHASE ORDER: 20181531-00
 FILE NAME: DETAILS.dwg
 ISSUE DATE: 08/03/18

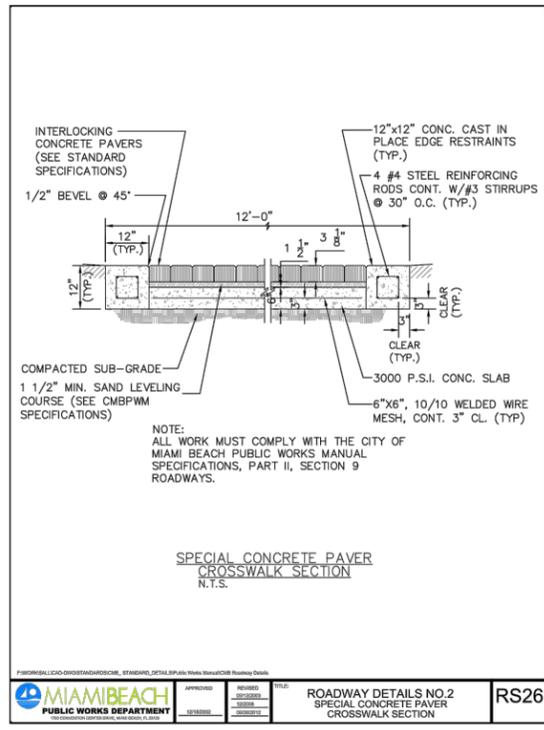
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 OF: 31



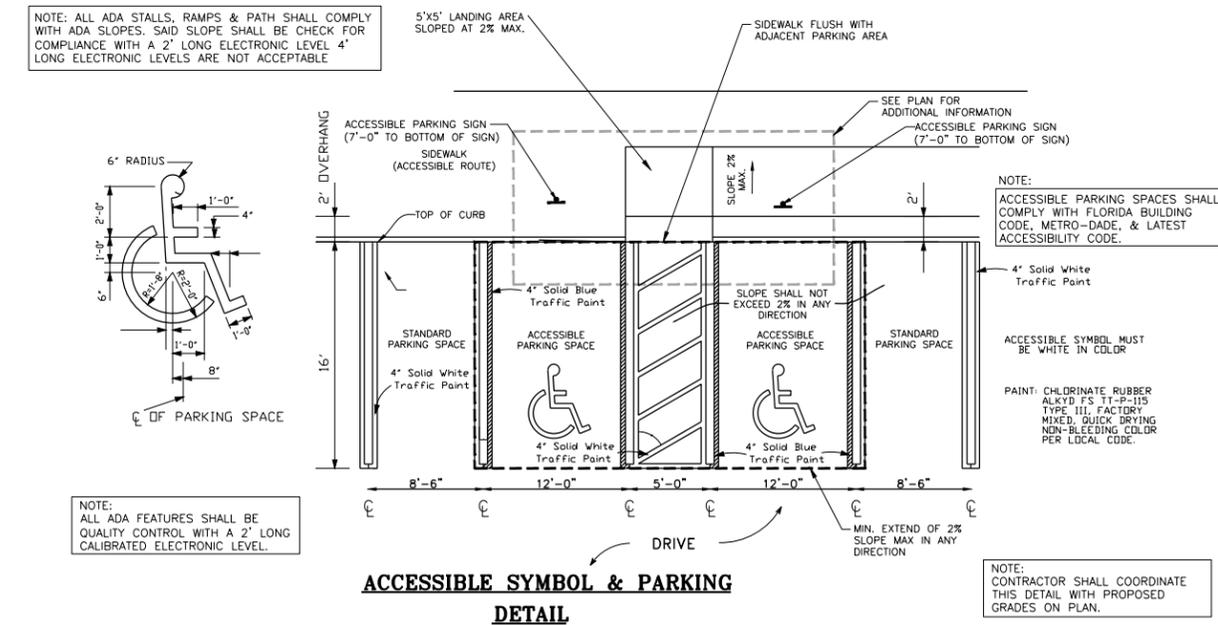
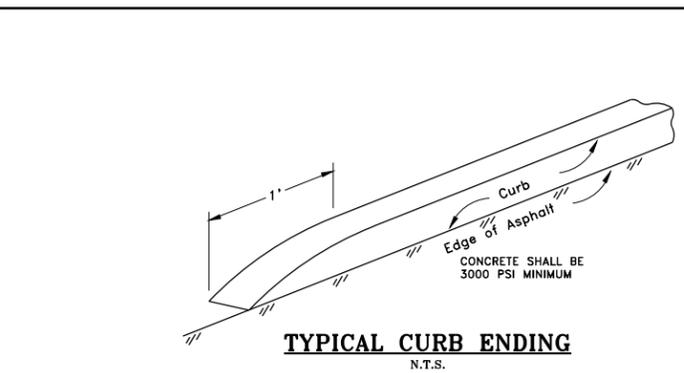
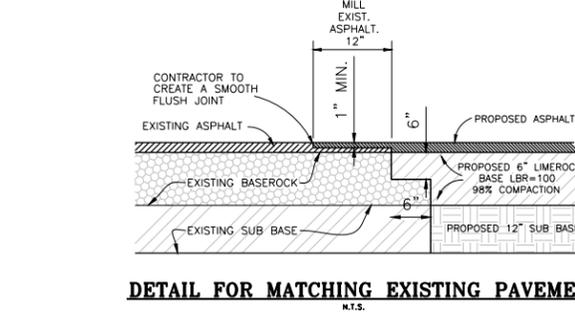
MIAMI BEACH PUBLIC WORKS DEPARTMENT
 ROADWAY DETAILS NO.1
 CONCRETE CURB DETAIL
 RS2



MIAMI BEACH PUBLIC WORKS DEPARTMENT
 ROADWAY DETAILS NO.1
 SIDEWALK CONSTRUCTION DETAILS
 RS8



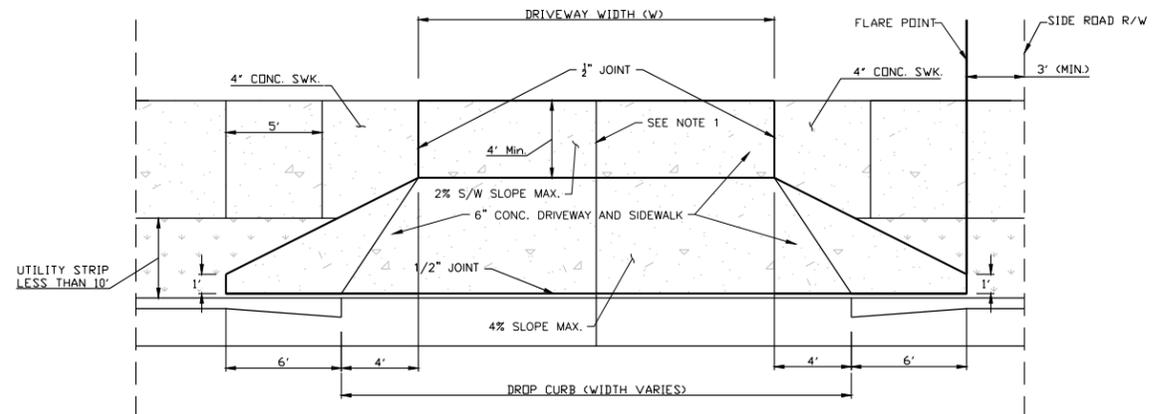
MIAMI BEACH PUBLIC WORKS DEPARTMENT
 ROADWAY DETAILS NO.2
 SPECIAL CONCRETE PAVER CROSSWALK SECTION
 RS26



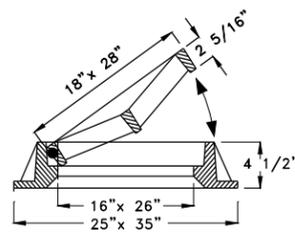
NOTE: ALL ADA STALLS, RAMPS & PATH SHALL COMPLY WITH ADA SLOPES. SAID SLOPE SHALL BE CHECK FOR COMPLIANCE WITH A 2' LONG ELECTRONIC LEVEL. 4' LONG ELECTRONIC LEVELS ARE NOT ACCEPTABLE.

NOTE: ALL ADA FEATURES SHALL BE QUALITY CONTROL WITH A 2' LONG CALIBRATED ELECTRONIC LEVEL.

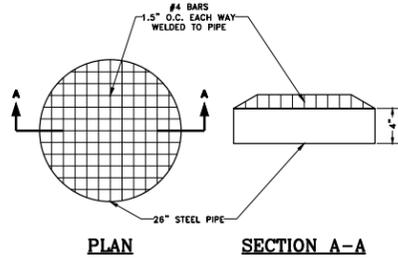
NOTE: CONTRACTOR SHALL COORDINATE THIS DETAIL WITH PROPOSED GRADES ON PLAN.



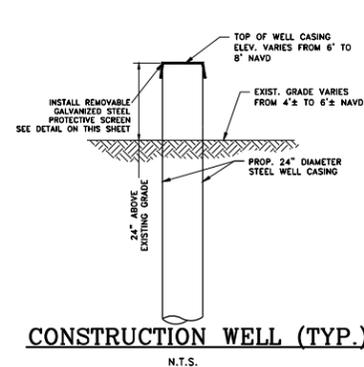
NOTES:
 1. 1/8" OPEN JOINTS PLACE AT EQUAL (20' MAX.) INTERVALS FOR DRIVEWAYS OVER 20' WIDE. JOINTS IN CURB AND GUTTER TO MATCH JOINTS IN DRIVEWAYS.



**USF #4700 & 6223 GRATE
HINGED FRAME**
N.T.S.



**REMOVABLE GALVANIZED STEEL
PROTECTIVE SCREEN DETAIL**
N.T.S.



CONSTRUCTION WELL (TYP.)
N.T.S.

- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL USE NON-SHRINK GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO ENSURE WATER PROOF SEAL.
 - CONTRACTOR SHALL MORTAR THE TRANSITION FROM THE STRUCTURE'S TOP SLAB THROUGH THE BRICKING TO THE FRAME AND GRATE INSIDE AND OUT TO ENSURE WATER TIGHT (WATER PROOF) SEAL. NON-SHRINK GROUT MUST BE USED AT ALL EDGES & JOINTS TO PREVENT LEAKAGE.

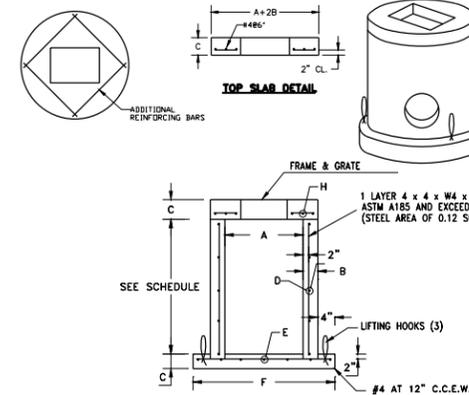


TABLE OF DIMENSIONS							
AØ	B	C	D	E* C.C.E.W.	FØ	GØ	H* C.C.E.W.
3'-6"	4"	8"	ASTM C-478	#4 AT 12"	4'-8"	4'-2"	#4 AT 6"
3'-6"	6"	8"	ASTM C-478	#4 AT 12"	5'-0"	4'-6"	#4 AT 6"
4'-0"	6"	8"	ASTM C-478	#4 AT 12"	6'-0"	5'-0"	#4 AT 6"
4'-0"	8"	8"	ASTM C-478	#4 AT 12"	6'-4"	5'-4"	#4 AT 6"
5'-0"	8"	8"	ASTM C-478	#5 AT 12"	7'-4"	6'-4"	#5 AT 6"
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-0"	7'-0"	#5 AT 6"
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-4"	7'-4"	#5 AT 6"
7'-0"	8"	8"	ASTM C-478	#5 AT 6"	9'-4"	8'-4"	#5 AT 6"
8'-0"	10"	10"	ASTM C-478	#5 AT 6"	10'-8"	9'-8"	#6 AT 6"
10'-0"	12"	12"	ASTM C-478	#5 AT 6"	12'-0"	12'-0"	#6 AT 6"

*GRADE 40, OR FOR EQUIVALENT STEEL DESIGNS.

**TYPE "C" CATCH BASIN
42"-120" ROUND STRUCTURE**

DRAINAGE WELL #1 & INLET
N.T.S.

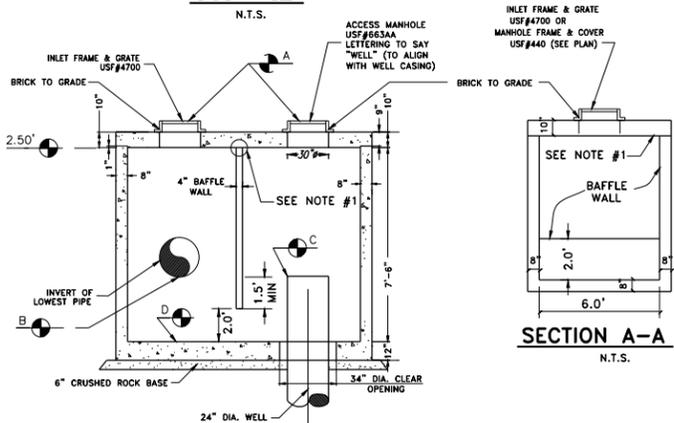
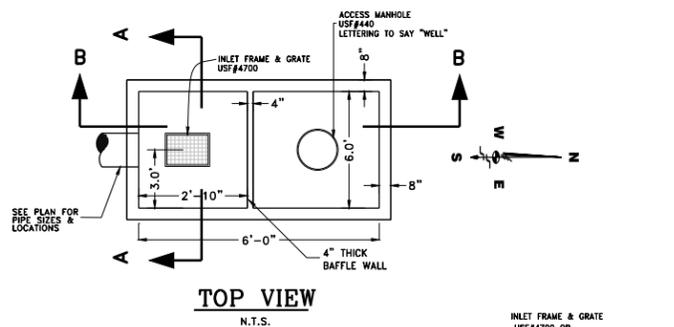
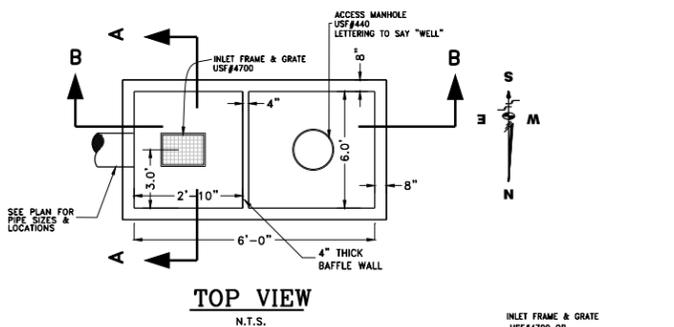
WELL #	A	B	C	D
1	4.50'	(-)1.50'	(-)1.50'	(-)5.00'

WELL#	LAT.	LON.
#1	25° 52' 01.24" N	80° 07' 44.52" W

DRAINAGE WELL #2 & INLET
N.T.S.

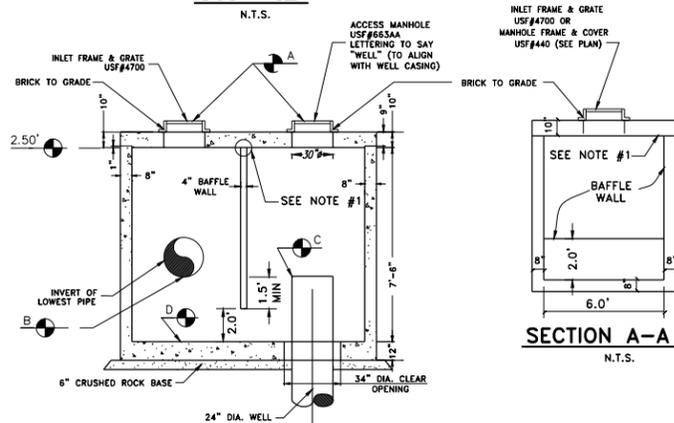
WELL #	A	B	C	D
2	4.50'	(-)1.50'	(-)1.50'	(-)5.00'

WELL#	LAT.	LON.
#2	25° 52' 01.40" N	80° 07' 43.33" W



SECTION B-B
N.T.S.

NOTE #1:
CONTRACTOR SHALL GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO INSURE WATER PROOF SEAL

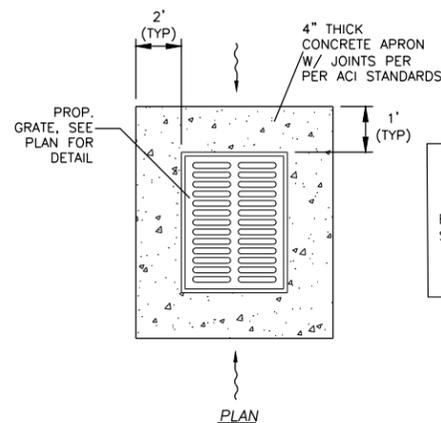


SECTION B-B
N.T.S.

NOTE #1:
CONTRACTOR SHALL GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO INSURE WATER PROOF SEAL

STRUCTURE TABLE

STRUCTURE NUMBER	RIM ELEVATION	INVERTS				FLOOR ELEVATION	STRUCTURE TYPE	FRAME & GRATE
		NORTH	SOUTH	EAST	WEST			
#S-1	3.10	-0.40	--	--	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-2	3.30	-0.40	-0.40	--	-0.40	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-3	3.10	-0.40	-0.40	-0.40	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-4	3.10	-0.40	--	--	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-5	2.65	--	-0.35	--	--	-2.35	12" NYLOPLAST	ADS GRATE

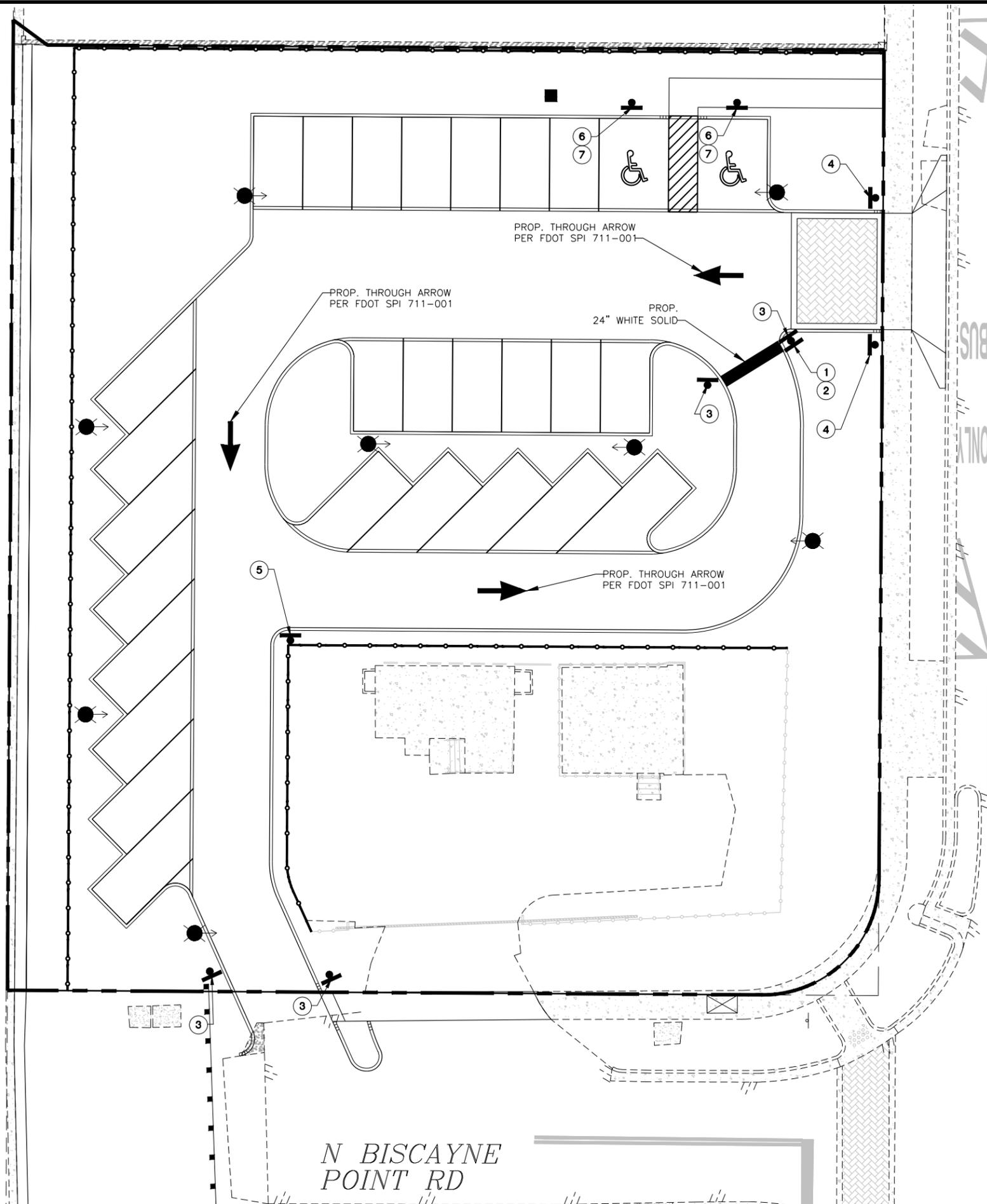


NOTE
PROVIDE CONCRETE APRON WHEN CATCH BASIN W/ INLET (SEE STRUCTURE TABLE) IS LOCATED IN LANDSCAPE AREAS.

CONCRETE APRON FOR INLETS
N.T.S.

No.	Date	Revision	App'd By
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CANAL



HAWTHORNE AVENUE

81st STREET

N BISCAYNE POINT RD



GENERAL NOTES

1. ALL PAVEMENT MARKING SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL TRAFFIC LINES OR ARROWS WITHIN THE DECORATIVE PAVER FIELD SHALL BE CREATED WITH YELLOW OR WHITE PAVER INSERTS. NO PAINT SHALL BE APPLIED ON THE PAVER FIELD.
3. ALL SIGNS AND POSTS SHALL FOLLOW CITY OF MIAMI BEACH PUBLIC WORKS MANUAL (LATEST EDITION), DETAILS RS29, RS30, AND RS31.

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

Schwabke Shiskin & Associates, Inc.
LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

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NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **PAVEMENT MARKING & SIGNAGE PLAN**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER No.: 58670
DRAWN BY: DCI
CHECKED BY: LEI
SCALE: As Noted

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME: PM.dwg

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SIGNAGE INDEX

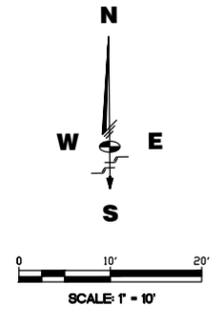
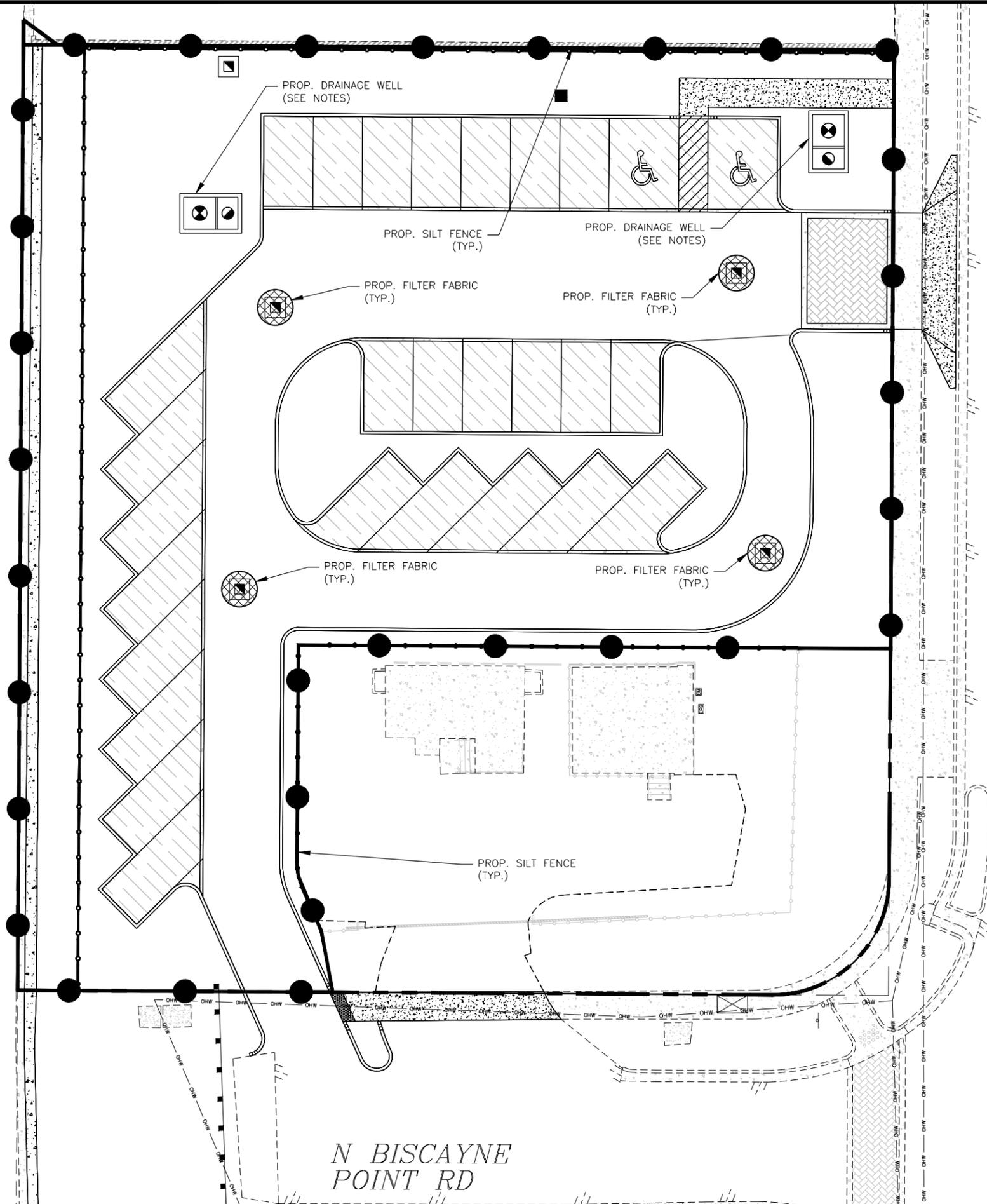
1	2	3	4	5	6	7
R1-1 30"x30"	R3-5L 24"x30"	R5-1 30"x30"	R5-1o 36"x24"	R6-2L 24"x36"	FTD-25 12"x18"	---

CANAL

HAWTHORNE AVENUE

81st ST

N BISCAYNE POINT RD



GENERAL NOTES

1. PROPOSED DRAINAGE WELLS NOT TO BE USED FOR DEWATERING.

MIAMI BEACH
 CAPITAL IMPROVEMENT PROJECTS
 CITY MANAGER: JIMMY L. MORALES
 PW DIRECTOR: ROY COLEY, P.E.
 CIP DIRECTOR: DAVID MARTINEZ, P.E.
 CITY ENGINEER: LUIS SOTO, P.E.

Schwabke Shiskin & Associates, Inc.
 LAND SURVEYORS
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NEIGHBORHOOD: **BISCAYNE BEACH**
 TITLE: **EROSION & SEDIMENT CONTROL PLAN**

DRB FINAL

ENG. OF RECORD: Luis F. Leon PE
 TITLE: Assistant Vice President
 ENGINEER NO.: 58670
 DRAWN BY: DCI
 CHECKED BY: LEI
 SCALE: As Noted

FIELD BOOK: ---
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 PURCHASE ORDER: 20181531-00
 FILE NAME: ESC.dwg

ISSUE DATE: 08/03/18
 Dwg. No: **C-16**
 OF: 31

ELECTRICAL GENERAL NOTES

1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF BUT NOT LIMITED TO THE FOLLOWING:
 - A. PROVIDE AND INSTALL NEW PARKING LOT LIGHTING SYSTEM AS SHOWN ON PLANS, FOR A COMPLETE WORKING SYSTEM IN PLACE.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, FLORIDA BUILDING CODE AND MIAMI BEACH CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF THEIR BID IF NOT OTHERWISE NOTED.
5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY WORK THAT REQUIRES A POWER SHUTDOWN. CONTRACTOR SHALL PROVIDE A WORKING SCHEDULE IN WRITING TO OWNER SHOWING THE PROPOSED SCHEDULE OF WORK WITH THE ANTICIPATED TIME DURATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL LOCAL UTILITIES, INCLUDING THE POWER AND TELEPHONE UTILITIES TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL FEES, LABOR, EQUIPMENT OR MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULL-BOXES AND EQUIPMENT AS REQUIRED BY THE UTILITIES TO MEET THEIR SPECIFICATIONS.
9. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED ALTERNATE" BASIS.
10. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
11. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE.
12. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
13. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL SPECIAL SYSTEMS EQUIPMENT AND MATERIAL AND SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING CIRCUIT BREAKERS, CONDUITS, CONDUCTORS, ENCLOSURES, POLES, BASES, PULLBOXES, MANHOLES, WINDLOAD CALCULATIONS, LIGHTING CONTACTORS, LIGHTING ASSEMBLIES, GROUND ROD, GROUNDING, JUNCTION BOX, CHANNEL AND ETC..
14. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BARE A UL 508A LABEL ON THE PANEL.
15. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
16. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
17. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S/OWNER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
18. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
19. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
20. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, MINI-POWER ZONES, SWITCHBOARDS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
21. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
22. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S/OWNER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS AND MODIFY ALL BREAKERS IN PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
24. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER AND OWNER.
25. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.

26. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
POWER: RED
ALL OTHER CONDUITS: GREEN
27. CONTRACTOR SHALL RESTORE SIDEWALKS, PARKING LOTS, ROADWAYS, SOD AND SPRINKLER SYSTEM TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
28. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 25 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
29. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
30. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
31. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
32. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
33. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
34. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
35. AS PART OF THE ELECTRICAL SUBMITTAL, CONTRACTOR SHALL PROVIDE A LAYOUT OF THE ELECTRICAL ROOM SHOWING SIZES OF ALL EQUIPMENT AND THEIR SPATIAL RELATIONSHIPS.
36. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
37. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. ALL ABOVE GROUND CONDUITS SHALL BE EMT IN AIR CONDITIONED AREAS AND RIGID GALVANIZED STEEL(RGS) IN NON-AIR CONDITIONED AREAS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
38. COMBINING OF NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED.
39. THE CONTRACTOR MAY COMBINE CONDUCTORS TO LIMIT THE NUMBER OF CONDUITS LEAVING THE PANELBOARD. CONTRACTOR SHALL DERATE THE WIRES AS PER NEC AND INCREASE THE SIZE OF THE WIRES ACCORDINGLY.
40. BRANCH AND FEEDER CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 5 PERCENT COMBINED AT DESIGN LOAD PER THE 2017 FLORIDA BUILDING CODE -ENERGY CONSERVATION-C405.6.3.
41. THE OWNER SHALL HAVE THE RIGHT TO SALVAGE MATERIALS THAT ARE TO BE REMOVED IN THE DEMOLITION PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO DEMOLITION AND DELIVER SALVAGE MATERIAL TO THE OWNER/MAINTENANCE GROUP.
42. THE CONTRACTOR SHALL INITIATE COORDINATION WITH FPL 30 DAYS PRIOR TO NTP FOR THE REQUISITION AND PICKUP OF ALL REQUIRED FPL PROVIDED MATERIALS IN ANTICIPATION OF INSTALLATION OF ALL CONDUITS, TRANSFORMER PADS, AND OTHER ASSOCIATED MATERIALS REQUIRED FOR SCHEDULING FPL CABLE INSTALLATION. PROVIDE AS-BUILT SURVEYS BY A LICENSED PROFESSIONAL SURVEYOR OF ALL FPL CONDUITS, FPL SPLICE BOXES, TRANSFORMER LOCATIONS, FOR A COMPLETE SYSTEM. THE AS-BUILTS SHALL INCLUDE LEGAL DESCRIPTIONS FOR THE DEVELOPMENT OF NEW EASEMENTS/LEASE AGREEMENTS AS REQUIRED BY FPL. SCHEDULE DIRECTLY WITH FPL FOR CABLE AND TRANSFORMER INSTALLATION UPON COMPLETION OF THE FPL PRIMARY SERVICE SYSTEM AND EASEMENT/LEASE AGREEMENTS SURVEY FOR THE PRIMARY SYSTEM. CONTRACTOR SHALL SCHEDULE MILESTONES DATES IN THE PROJECT SCHEDULE FOR START OF THE FPL SCOPE OF WORK AND COMPLETION.
43. FOR CABLE COLOR CODE PLEASE REFER TO SPECIFICATION 16120.
44. CONTRACTOR SHALL PROVIDE TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS DEPICTING THE COMPLETED INSTALLATION AS INSTALLED INCLUDING A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION AND FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED BY ALL INSTALLED DISTRIBUTIONS PER THE 2014 2017 FLORIDA BUILDING CODE-ENERGY CONSERVATION-C405.6.4.1.
45. CONTRACTOR SHALL PROVIDE TO THE OWNER OPERATING AND MAINTENANCE MANUALS (O&M MANUALS) FOR ALL EQUIPMENT PER THE 2017 FLORIDA BUILDING CODE, DIVISION C405.6.4.2. THE MANUALS SHALL INCLUDE:
 1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 2. O&M MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY
46. ALL REFERENCES TO SS OR STAINLESS STEEL SHALL MEAN 316 STAINLESS STEEL.
47. ALL ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AND SIGNED PER THE REQUIREMENTS OF THE NEC AND THE FLORIDA BUILDING CODE.
48. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION/COMMUNICATION CONDUITS SHALL BE:

VOLTAGE	DISTANCE
480V	2 FT
120V	1 FT
49. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER 2017 NFPA 70E - STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.5 (C)(1) AND ANNEX D, SEE SPECIFICATION 16015.

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MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES
 PW DIRECTOR: ROY COLEY, P.E.
 CIP DIRECTOR: DAVID MARTINEZ, P.E.
 CITY ENGINEER: LUIS SOTO, P.E.

Schwebke Shiskin & Associates, Inc.
LAND SURVEYORS
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NEIGHBORHOOD: **BISCAYNE BEACH**

TITLE: **ELECTRICAL GENERAL NOTES**

DRB FINAL

ENG. OF RECORD: Jim L. Morales

TITLE: ENGINEER

ENGINEER No.: 73735

DRAWN BY: LPD

CHECKED BY: DEU

SCALE: As Noted

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ISSUE DATE: 08/03/2018

Dwg. No: **E-1**

OF: 7

CITY MANAGER: JIMMY L. MORALES
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CITY ENGINEER: LUIS SOTO, P.E.

*Schwebke
Shiskin &*



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LEGEND	
	SCHEDULE 40 P.V.C. DIRECT BURIED CONDUIT HAND EXCAVATE AND INSTALLED IN ROCK/EARTH. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
	HDPE/SCHEDULE 40 P.V.C. CONDUIT DIRECTIONAL BORED UNDER EXISTING ROADWAY AND SIDEWALKS, COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SIDEWALK SECTIONS AS NECESSARY. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
	NEW SINGLE ROADWAY STREET LIGHT AND POLE WITH A 1-100 WATT LED FIXTURE TYPE III WITH A 10' MOUNTING HEIGHT, PULL BOX, AND A CONCRETE BASE. NOTE: ARROW DENOTES AIMING OF FIXTURE. FIXTURE IS HOLOPHANE GRANVILLE II FIXTURE, MODEL NO. GVD2-P50-40K.
	POLE IDENTIFICATION P-# = POLE NUMBER CKT. X = CIRCUIT IDENTIFICATION STA. Y = POLE LOCATION
	NEW SERVICE POINT
	NEW FPL PROVIDED SPLICE BOX

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NEIGHBORHOOD: **BISCA YNE BEACH**
TITLE: **ELECTRICAL LEGEND AND INSTALLATION NOTES**

DRB FINAL

ENG. OF RECORD: ART LOPEZ
TITLE: ENGINEER
ENGINEER No.: 73735
DRAWN BY: JPD
CHECKED BY: DRU
SCALE: As Noted

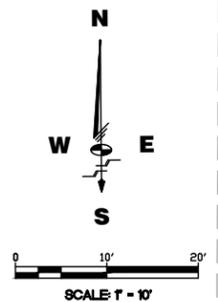
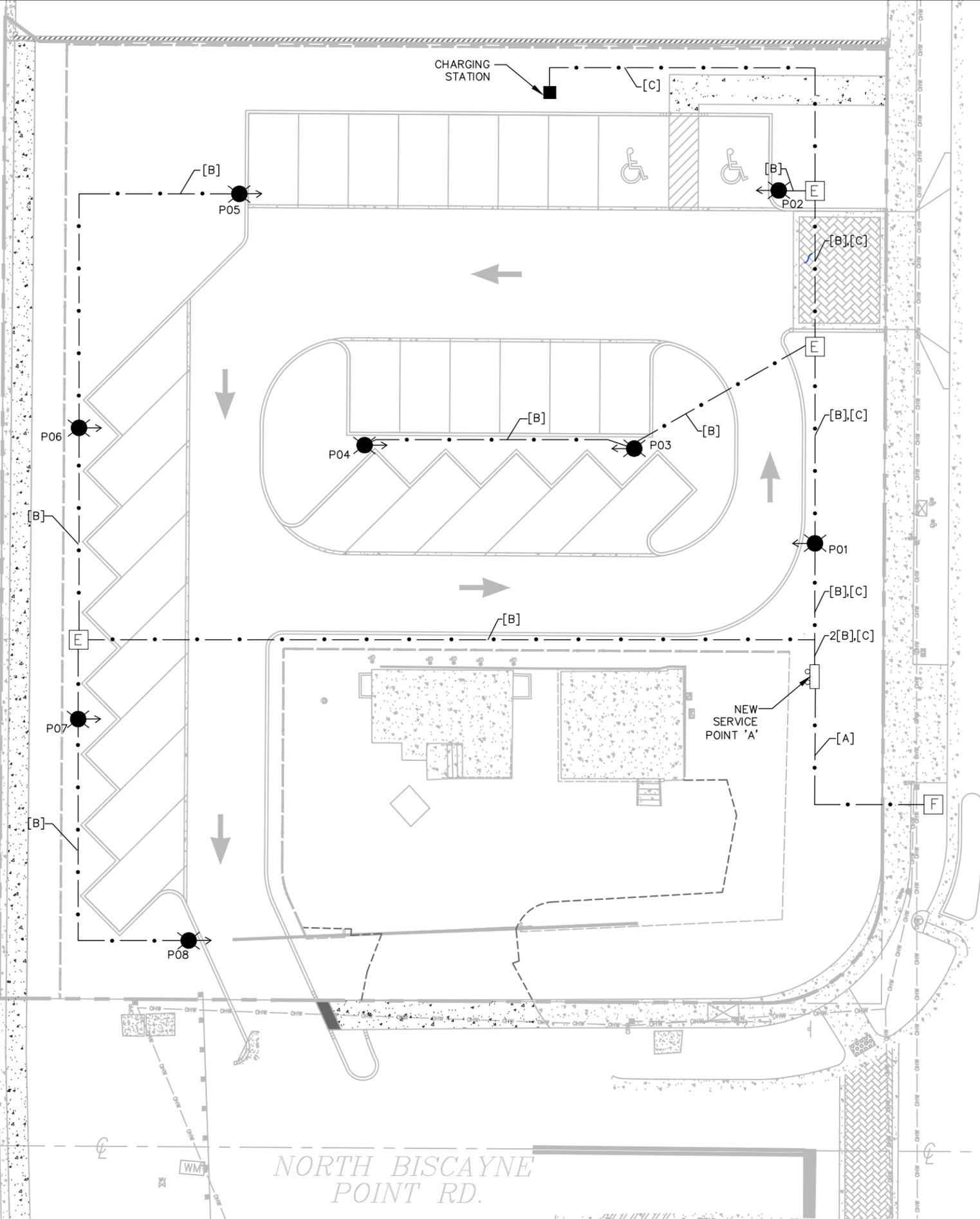
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ISSUE DATE: 08/03/2018

Dwg. No:
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OF: 7

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CANAL



HAWTHORNE AVENUE

81st

NORTH BISCAIYNE POINT RD.

CIRCUIT ID SCHEDULE:
 [A] = 2#3, 1#3 N/G, 2" C
 [B] = 2#10, 1#10G, 2" C
 [C] = 2" C (CHARGING STATION)

WINDLOADING NOTE:
 ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR 170 MPH WIND WITH APPROPRIATE GUST FACTOR PER APPLICABLE ZONE OF INSTALLATION AS DEFINED IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SIGNED & SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATIONS WILL MEET THE GIVEN WIND LOADING REQUIREMENT.

WARNING!!!
 THERE ARE A NUMBER OF PUBLIC UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE PROJECT SITE. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS BEFORE YOU DIG
 IT'S THE LAW! DIAL 811
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

MIAMI BEACH
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NEIGHBORHOOD: **BISCAIYNE BEACH**
 TITLE: **ELECTRICAL SITE PLAN**

DRB FINAL

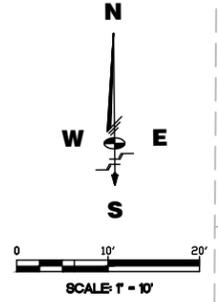
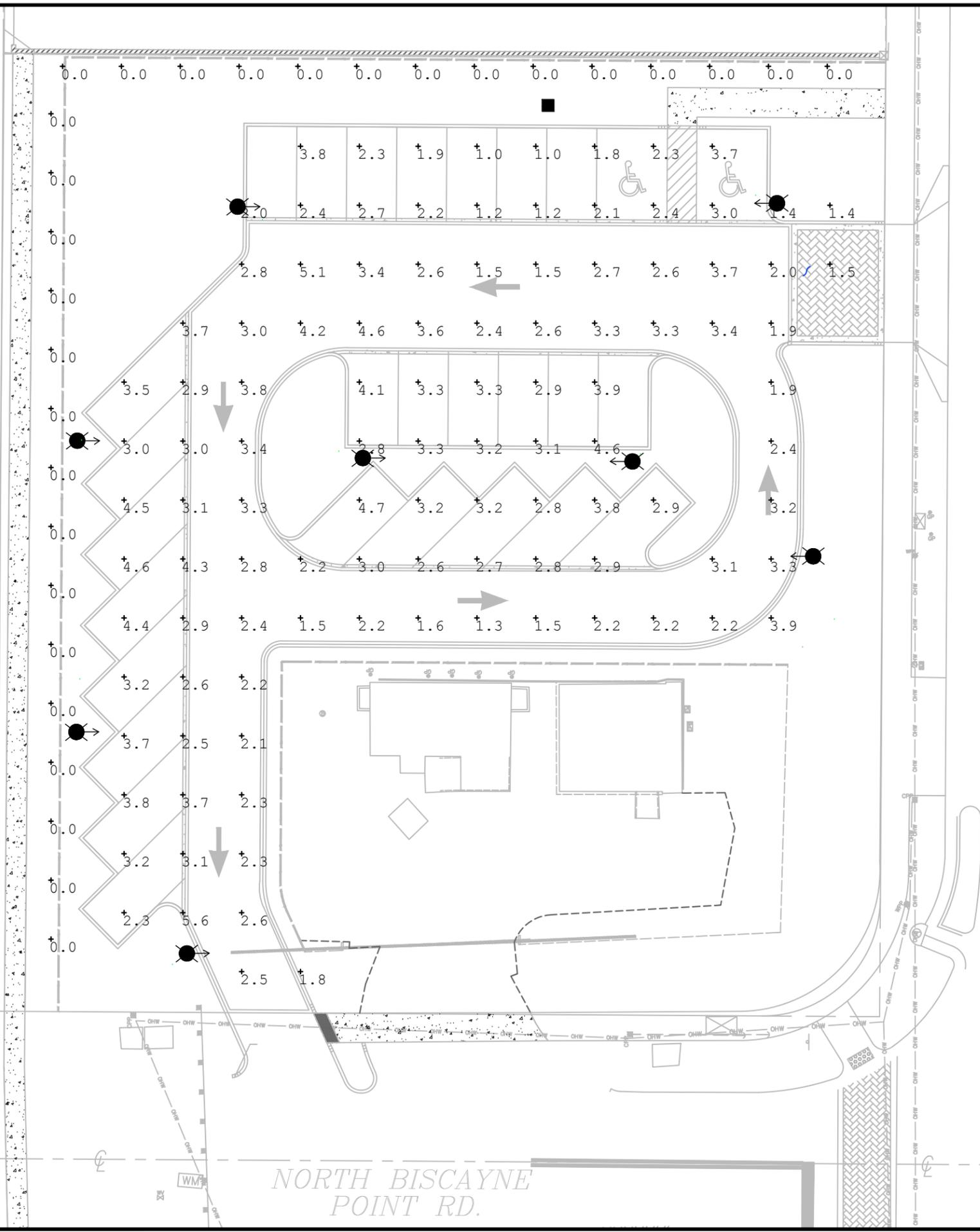
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 DRAWN BY: LPD
 CHECKED BY: DRU
 SCALE: As Noted

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HAWTHORNE AVENUE

PHOTOMETRIC CALCULATIONS

SPACING	SYMBOL	MINIMUM	MAXIMUM	AVERAGE	MAX/MIN	AVG/MIN
10'	+	1.00	5.60	2.85	5.60	2.85

ACCORDING TO THE SECTION 13-1.3-H-1, THE LIGHTING CRITERIA FOR THIS LOCATION IS AN MINIMUM OF 1 FOOT CANDLE, AVERAGE TO MINIMUM RATIO OF 3:1, AND MAXIMUM TO MINIMUM IS 10:1

ALL LUMINARIES SHOWN ON PHOTOMETRIC PLAN HAVE A MOUNTING HEIGHT OF 10'.

81st

NORTH BISCAIYNE POINT RD.

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NEIGHBORHOOD: **BISCAIYNE BEACH**
TITLE: **PHOTOMETRIC PLAN**

DRB FINAL

ENG. OF RECORD: HW
TITLE: ENGINEER
ENGINEER NO.: 73735
DRAWN BY: LPD
CHECKED BY: DRU
SCALE: As Noted

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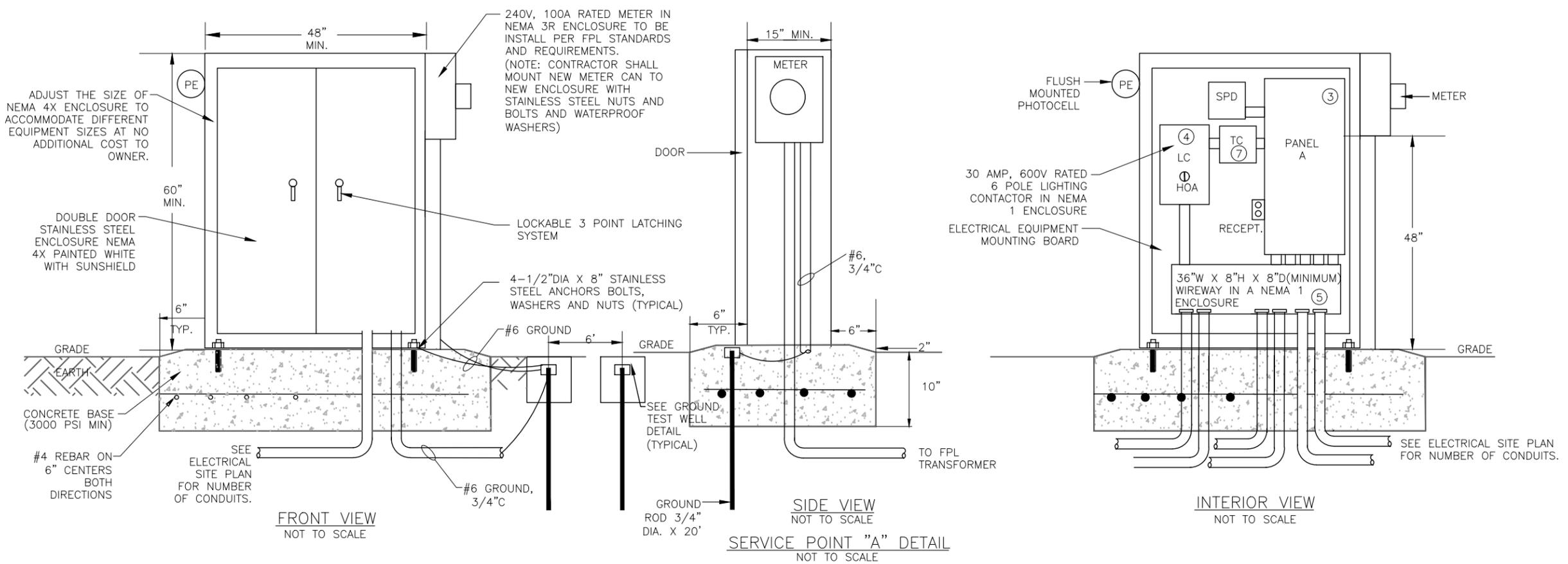
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NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **ELECTRICAL RISER DIAGRAMS AND PANEL SCHEDULES**

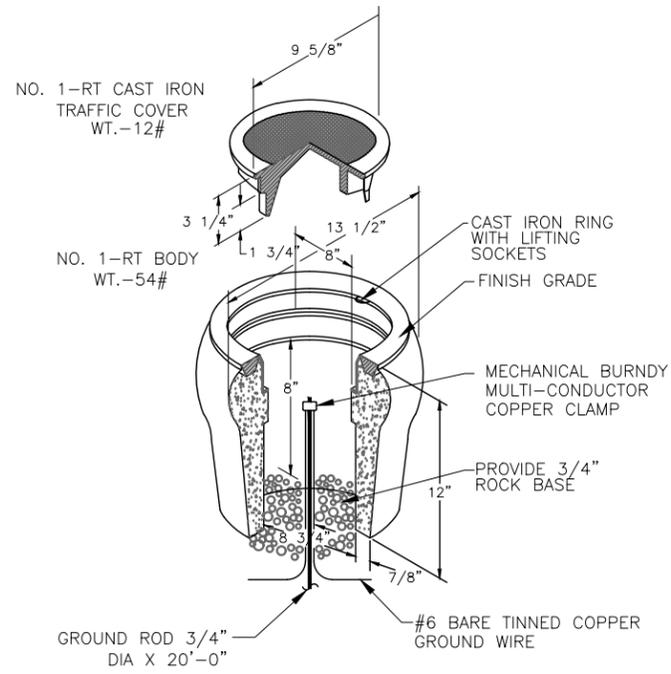
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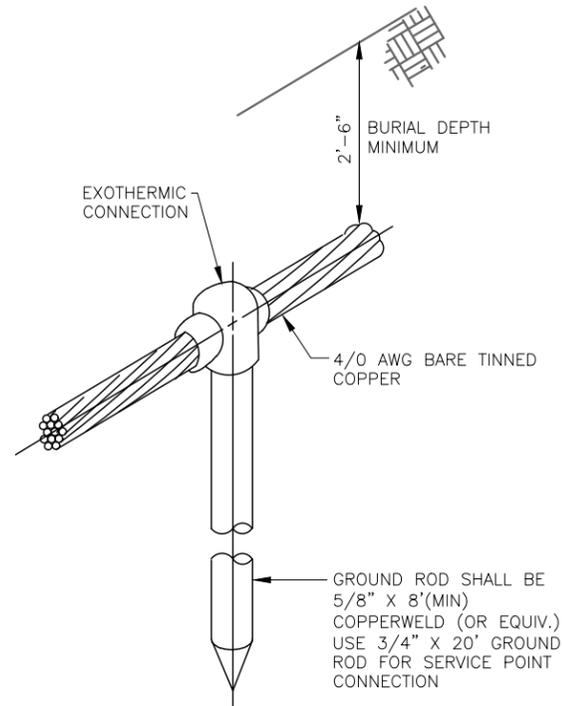
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GROUND TESTED WELL DETAIL
NOT TO SCALE



GROUND ROD DETAIL
NOT TO SCALE

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NEIGHBORHOOD: **BISCAYNE BEACH**

TITLE: **ELECTRICAL DETAILS**

DRB FINAL

ENG. OF RECORD: ART LOPEZ

TITLE: ENGINEER

ENGINEER No.: 73735

DRAWN BY: LPD

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Dwg. No: **E-6**

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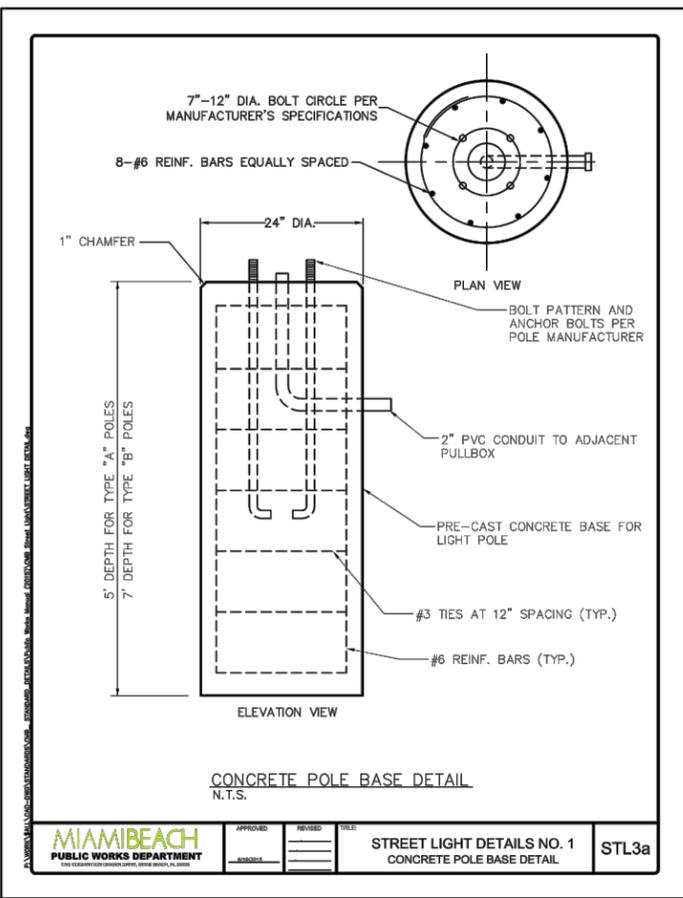
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TITLE: **ELECTRICAL DETAILS**

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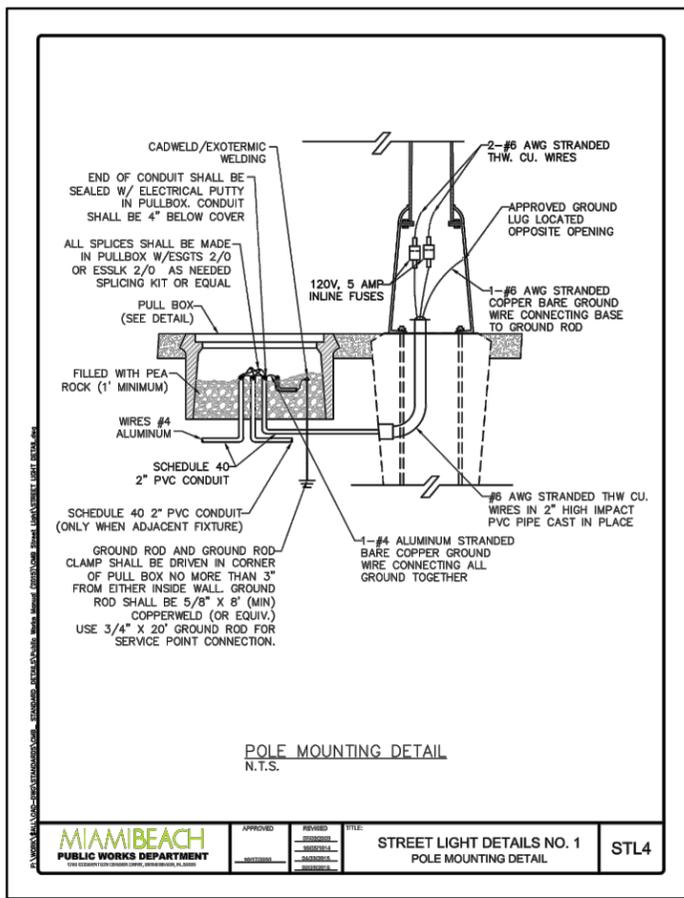
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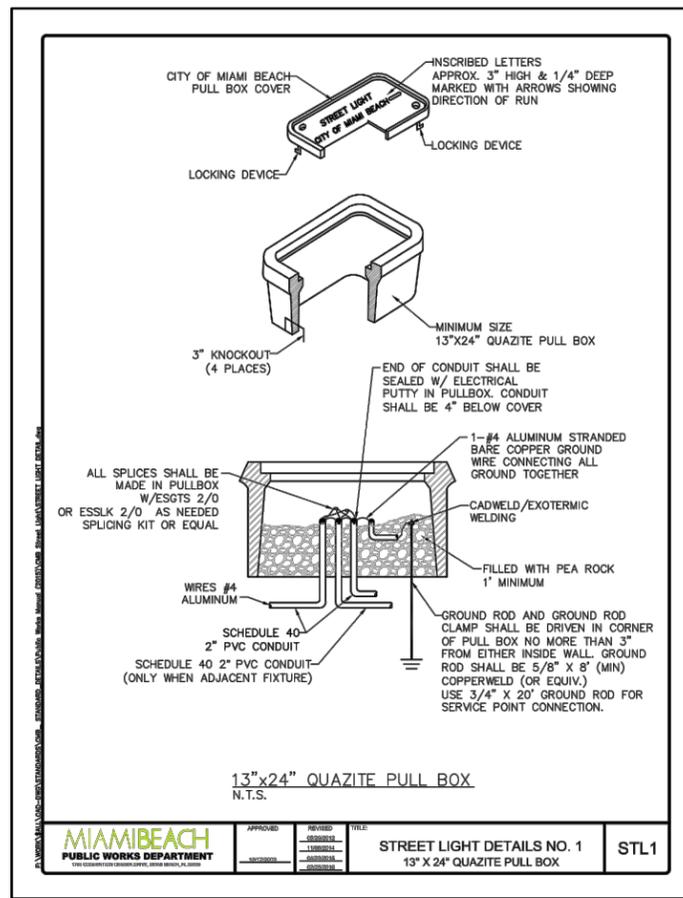
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ENGINEERING, INC.**
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FLORIDA 33428
(561) 451-9185
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LICENSE NO: EB 0006877



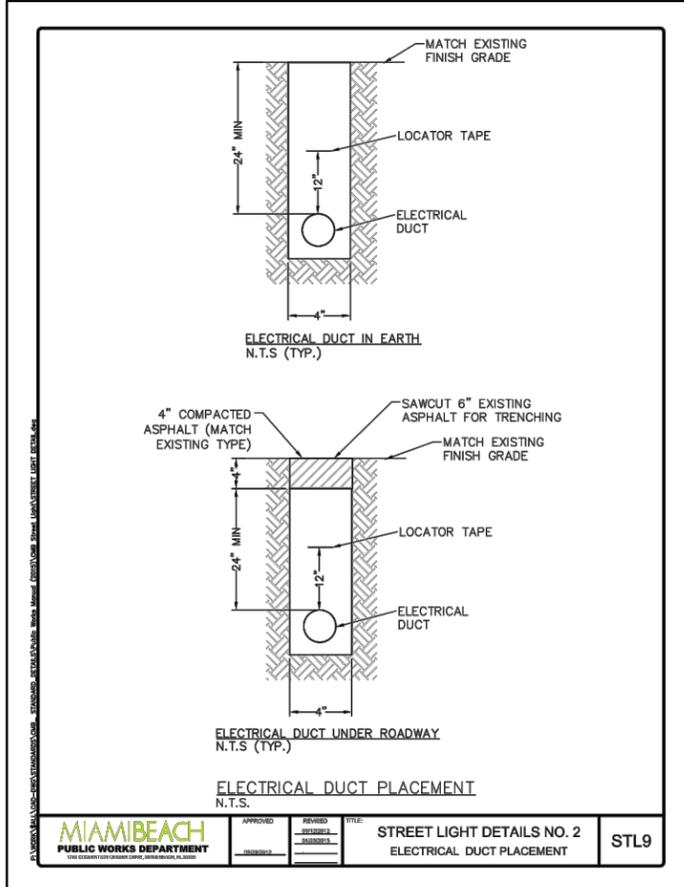
STREET LIGHT DETAILS NO. 1
CONCRETE POLE BASE DETAIL
STL3a



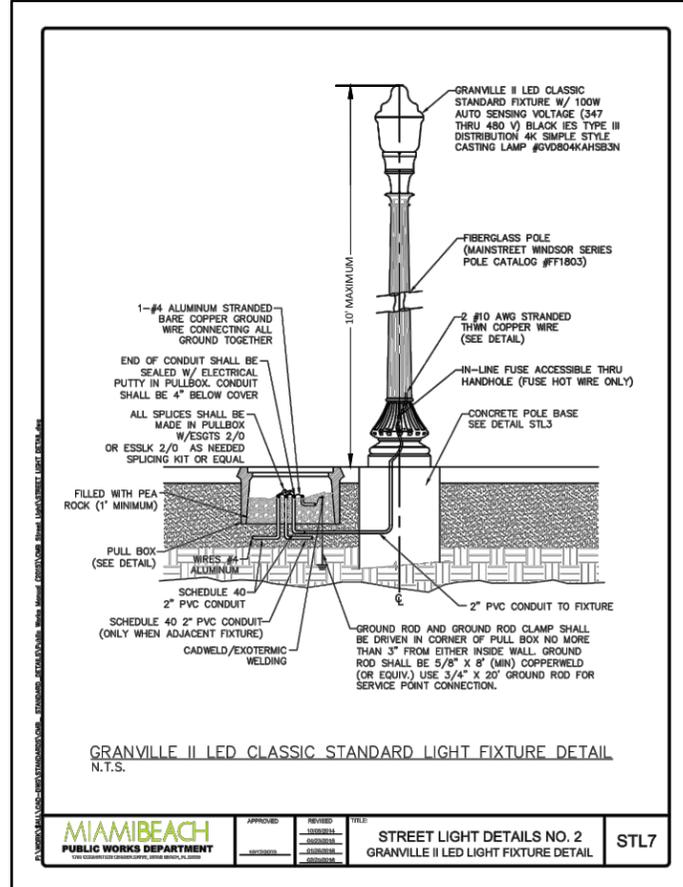
STREET LIGHT DETAILS NO. 1
POLE MOUNTING DETAIL
STL4



STREET LIGHT DETAILS NO. 1
13" X 24" QUAZITE PULL BOX
STL1



STREET LIGHT DETAILS NO. 2
ELECTRICAL DUCT PLACEMENT
STL9



STREET LIGHT DETAILS NO. 2
GRANVILLE II LED LIGHT FIXTURE DETAIL
STL7