

**NODE ID: FL6440BA**

**PROJECT NO: 48862215**

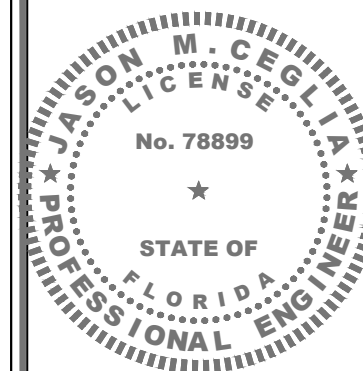
**NODE SCU: 467215**

**R.O.W. OF 2nd STREET**

**NEAR ADDRESS: 887 2nd STREET**

**MIAMI BEACH, FL 33139**

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**

JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:



Consultant:



Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:

**COVER SHEET**

Project No.: 220312100

Designer: SBC

Date: 07/10/23

Drawn By: SJ

Checked By: RL

PM Review: RL

Client Approval

Issue No.: 2

Drawing No. T-1

SCALE IS BASE ON 22" X 34" 1/8" SIZE

SITE INFORMATION	
NEAR ADDRESS:	R.O.W. OF 2nd STREET 887 2nd STREET MIAMI BEACH, FL 33139
POLE OWNER:	CROWN CASTLE FIBER LLC
LATITUDE:	25° 46' 16.2" N (25.771170°)
LONGITUDE:	80° 08' 12.8" W (-80.136900°)
R.O.W. JURISDICTION:	CITY OF MIAMI BEACH
ELECTRICAL PERMIT:	CITY OF MIAMI BEACH

APPLICANT INFORMATION	
NAME:	CROWN CASTLE FIBER, LLC.
PROJECT MANAGER:	MATT DOYLE matt.doyle@crowncastle.com
ADDRESS:	3470 NW 82nd AVENUE 10th FLOOR, DORAL, FL 33122
PHONE:	(469) 767-5137

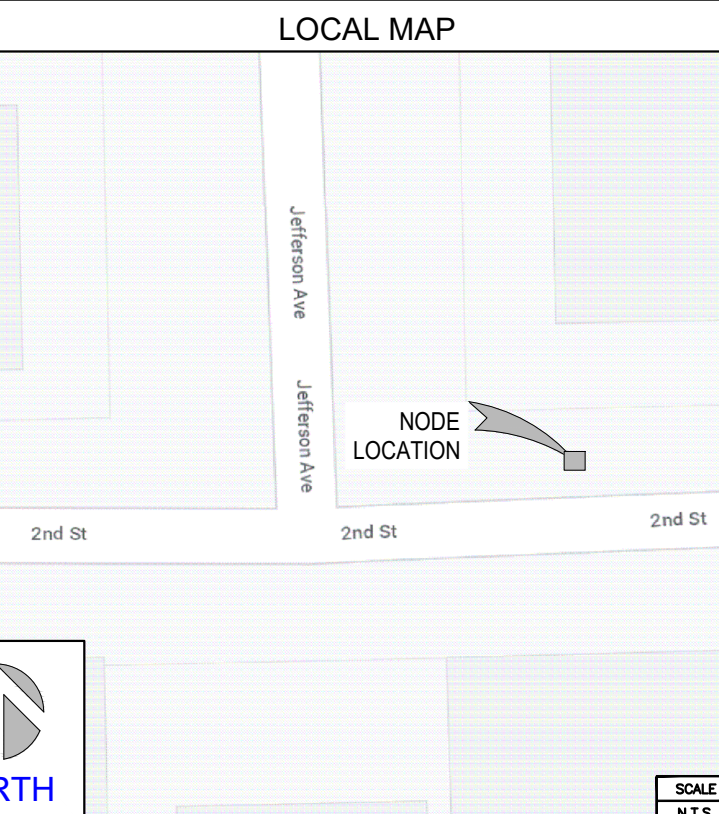
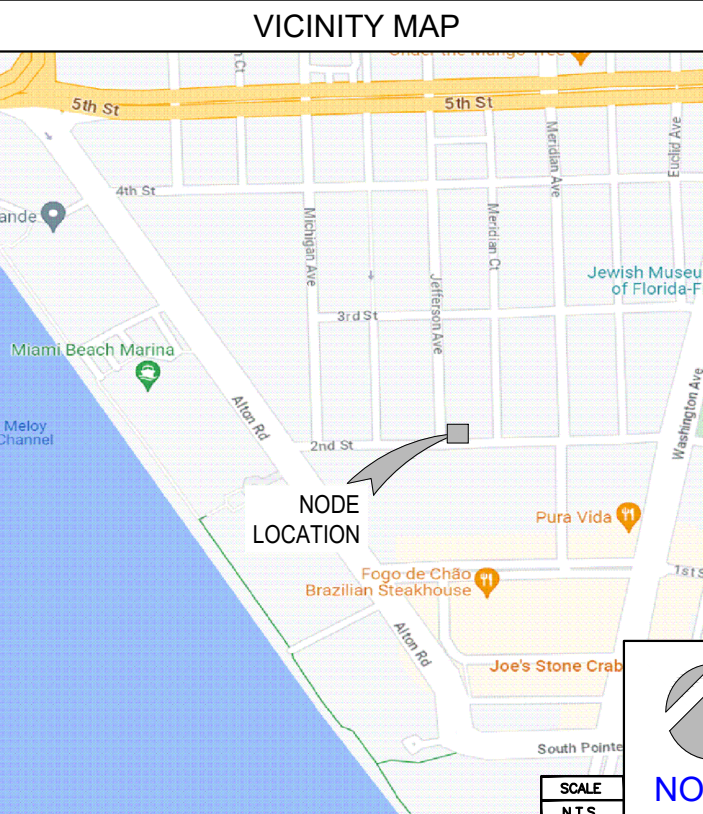
**PROJECT DESCRIPTION**

SCOPE OF WORK INCLUDES THE INSTALLATION OF THE FOLLOWING WITHIN AN EXISTING RIGHT-OF-WAY:

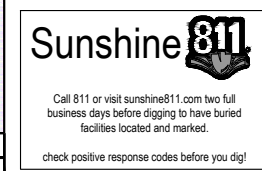
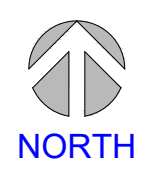
- PROPOSED INTEGRATED STEALTH POLE W/ ANTENNA ON TOP AND COMMUNICATION EQUIPMENT WITHIN POLE
- PROPOSED UNDERGROUND ELECTRICAL AND FIBER RUN

INDEX OF DRAWINGS		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	COVER SHEET	2
G-1	NOTES	0
C-1	SITE PLAN	2
C-1.1	ENLARGE SITE PLAN	2
C-1.2	ENLARGE SITE PLAN	2
C-2	PROFILE VIEW	2
C-2.1	PROFILE VIEWS	2
C-3	POLE ELEVATION, ENLARGED PLAN & DETAIL	0
C-4	DETAIL	0
C-5	DETAILS	0
E-1	ELECTRICAL DETAILS	0
E-2	PANEL SCHEDULE, SINGLE LINE DIAGRAM & DETAIL	0
SP-1	SPECIFICATIONS	0
SP-2	SPECIFICATIONS	0
SP-3	SPECIFICATIONS	0

APPLICABLE BUILDING CODES AND STANDARDS	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CONDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
1.	2023 FLORIDA BUILDING CODE
2.	NATIONAL ELECTRICAL CODE (2020)
3.	CITY AND/OR COUNTY ORDINANCES



CONTACTS	
PROFESSIONALS OF RECORD:	ROBERT JERRY LARA REGISTERED ARCHITECT FL LIC. # 92824 MORRISON HERSHFIELD CORPORATION PHONE: (954) 577-4655 rlara@morrisonhershfield.com
	JASON M. CEGLIA REGISTERED PROFESSIONAL ENGINEER FL LIC. # 78899 MORRISON HERSHFIELD CORPORATION PHONE: (954) 577-4655 jceglia@morrisonhershfield.com



CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE A/E FIRM IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

C:\Users\Sleevean\AppData\Local\Temp\AutoPublish\21482\220312100\_FL6440BA\_FCD\_Rev\_2\_061124.dwg 06/11/2024 2:15pm Sleevean

# CONSTRUCTION NOTES

- ENSURE EXISTING UTILITIES ARE NOT IMPACTED BY PROPOSED WORK. PERMITTEE IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL DRILLING AND ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE DONE TO UNDERGROUND FACILITIES AND ABOVE GROUND FACILITIES. DIRECTIONAL BORING SHALL BE CONDUCTED ACCORDING TO LATEST SECTION 555 FDOT'S STANDARD SPECIFICATIONS AND 3.26.9 OF THE U.A.M..
- ANY DAMAGE TO CONCRETE SIDEWALK, CURB AND GUTTER, PEDESTRIAN CURB RAMPS SHOULD BE RESTORED PER FDOT 2021-2022 STANDARDS PLANS INDEX NO. 522-001, 520-001, 522-002 AND FDOT STANDARD SPECIFICATION 522. DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. IMPACTED PEDESTRIAN RAMPS SHALL BE REPLACED COMPLETELY. INCLUDE 1 FOOT OF LEVEL EMBANKMENT FOR EROSION AND ENSURE TO NOT CREATE ANY DROP OFF HAZARDS AS SHOWN ON FDM FIGURE 222.4.1. MAKE SURE TO FURNISH APPROPRIATE EXPANSION JOINTS PER FDOT 2021-2022 STANDARDS PLANS INDEX 350-001. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527.
- THE PROJECT CORRIDOR IS WITHIN THE CONSULTATION AREA FOR THE FLORIDA BONNETED BAT WHICH IS LISTED AS AN ENDANGERED SPECIES. TREES ALONG THE PROJECT CORRIDOR HAVE BEEN IDENTIFIED AS POTENTIAL HABITAT FOR THE BAT. PLEASE BE AWARE THAT IF ANY TREE IMPACTS (REMOVALS, RELOCATIONS, TRIMMING, ROOT PRUNING) ARE PROPOSED AS PART OF THIS PROJECT, A SPECIES SURVEY IS WARRANTED TO DETERMINE IF ROOSTING OR FORAGING HABITAT EXISTS. COORDINATE WITH U.S. FISH AND WILDLIFE SERVICE MAY BE REQUIRED.
- ENSURE EXISTING UTILITIES ARE NOT IMPACTED BY PROPOSED WORK. PERMITTEE IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL DRILLING AND ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE DONE TO UNDERGROUND FACILITIES AND ABOVE GROUND FACILITIES. DIRECTIONAL BORING SHALL BE CONDUCTED ACCORDING TO LATEST SECTION 555 FDOT'S STANDARD SPECIFICATIONS AND 3.16.9.1 OF THE U.A.M. OPEN TRENCH SHALL BE CARRIED OUT PER 3.16.4 OF 2017 U.A.M.
- CONDUIT INSTALLATION SHALL ADHERE TO THE LATEST FDOT STANDARD PLANS INDEX NO. 630-001.
- PROPOSED HANDHOLES MUST ADHERE TO THE LATEST FDOT STANDARD PLANS INDEX NO. 635-001.
- MAINTAIN THE TEMPORARY PATCHES AROUND THE HANDHOLE BOX EDGES AND/OR ANYWHERE ELSE WHERE SIDEWALK HAS BEEN IMPACTED/DAMAGED BY THE DIRECTIONAL BORE WORK OR UTILITY INSTALLATION, SO IT PROVIDES A SMOOTH ALL WEATHER SURFACES ALWAYS. ONCE HANDHOLE IS INSTALLED THE LID MUST BE KEPT IN PLACE, BOLTED, AND SECURED.
- SOD, GRASS AND MULCH RESTORATION SHALL BE DONE ACCORDING TO LATEST FDOT STANDARD PLANS INDEX NO. 570-001 (FOR CURBED ROADWAYS) AND 570-010.
- ANY ABOVEGROUND FEATURES THAT MAY BE IMPACTED BY PROPOSED WORK MUST BE IDENTIFIED TO BE ADJUSTED/RELOCATED/REPLACED. IF SIGNS ARE DAMAGED, THESE MUST BE REPLACED ACCORDING THE LATEST FDOT STANDARD PLANS INDEX NO. 700-101.
- PROPOSED HANDHOLES AND PULL BOXES SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF EXISTING PEDESTRIAN ADA CURB NOR DRIVEWAY ENTRY AREA. IF HANDHOLES IS PROPOSED IN PEDESTRIAN CURB RAMP AREA, HANDHOLE SHOULD HAVE A NON-SLIP TOP SURFACE PER PPM, VOL 2, CH 8.3.2.
- ALL WORK UNDER THIS PROJECT WITHIN THE PUBLIC RIGHT-OF-WAYS OF MIAMI-DADE COUNTY SHALL COMPLY WITH THE REQUIREMENTS & SPECIFICATIONS LISTED IN THE UTILITY ACCOMMODATION & APPURTENANCES SPECIFICATIONS FOR PUBLIC RIGHTS OF WAYS - SECTION 370, 375, 380, 385 - A PORTION OF PART 2 OF THE MIAMI DADE COUNTY PUBLIC WORKS MANUAL (UAM MANUAL).
- ALL UTILITY HANDHOLES, MANHOLES AND PULL BOXES IN PUBLIC RIGHT-OF-WAYS SHALL BE ABLE TO RESIST HS-20 LOADING. NO HANDHOLES OR PULL BOXES SHALL BE LOCATED IN ROADWAY SURFACES. COVER SHALL BE MADE OF ANTI-CORROSIVE MATERIAL
- COORDINATE WITH TRANSIT FOR ANY BUS STOP RELOCATION DURING CONSTRUCTION.
- FLAG THE EXISTING ABOVEGROUND/UNDERGROUND FEATURES IMPACTED BY THE PROPOSED WORK TO BE ADJUSTED/RELOCATED/REMOVED.
- MAINTAIN BICYCLIST ACCESS DURING CONSTRUCTION. PROVIDE BICYCLIST DETOURS IF NEEDED. REFER THE FDOT STANDARD PLANS INDEX 102-661 IN THE PLANS.
- THE 25' ASPHALT RESTORATION ONLY APPLIES FOR OPEN CUT AND TRENCHES. FOR POTHOLES OR SMALL PATCHES, THE ASPHALT RESTORATION IS 1'X1', AND MUST HAVE CLEAN CUTS IN THE ASPHALT. MUST NOT FALL WITHIN WHEEL PATH OR BIKE LANE.

# EROSION AND SEDIMENT CONTROL GENERAL NOTES

## GENERAL SEDIMENT AND EROSION CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATION, APPLICABLE PERMIT(S), AND THE PREVENTION, CORRECTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF BMPS TO MAKE SURE THEY ARE FUNCTIONING AS DESIGNED AT ALL TIMES.
- THE BMP STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- CORRECTLY INSTALLED SILT FENCES WILL BE USED ALONG THE LIMITS OF CONSTRUCTION TO MINIMIZE OFFSITE SILTATION MIGRATION.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED AND WHERE NO ACTIVE CONSTRUCTION IS OCCURRING.
- THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER BECAUSE OF THE CONTRACTOR'S FAILURE TO ELIMINATE TURBID RUNOFF FROM LEAVING THE SITE AND RAISING BACKGROUND LEVELS OF TURBIDITY ABOVE EXISTING BACKGROUND LEVELS.
- EXISTING FDOT DRAINAGE SHALL BE PROTECTED ALWAYS BY THE PERMITTEE. ANY DAMAGE TO THE FDOT DRAINAGE SYSTEM SHALL BE REPAIRED / REPLACED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.

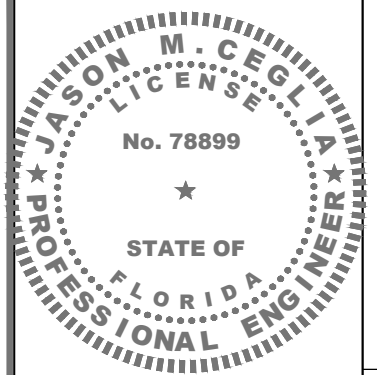
## INLET PROTECTION:

- WIRE MESH SHALL BE LAID OVER THE TOP DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 'A' INCH OPENING SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY THE STRIPS SHALL BE OVERLAPPED.
- FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON DETAIL. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- BALE SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN SINGLE ROW SURROUNDING THE INLET WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.

## TURBIDITY BARRIERS:

- FLOATING TURBIDITY BARRIERS WILL BE PLACED AT ALL OUTFALL LOCATIONS CONNECTED TO THE WORK AREA DURING ACTIVE CONSTRUCTION. IF SEAGRASSES ARE PRESENT BARRIERS WILL NOT BE PLACED OVER THEM. THE FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED IN A MANNER TO PREVENT MANATEE ENTANGLEMENT.
- TURBIDITY BARRIERS TO BE MARKED WITH SITE CONTRACTOR'S COMPANY NAME USING PERMANENT MARKINGS NO SMALLER THAN 3 INCHES IN HEIGHT ON THE TOP OF THE BARRIER.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW
No.	Date	Action



Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  
**NOTES**

Project No.: 220312100	
Designer: SBC	Date: 07/10/23
Drawn By: SJ	Checked By: RL
PM Review: RL	Client Approval
Issue No.: 0	Drawing No.: G-1

SYMBOL LEGEND	
	PROPOSED STEALTH METAL UTILITY POLE W/ ANTENNA ON TOP
	PROPOSED CONCRETE UTILITY POLE
	MANHOLE
	HYDRANT
	SIGN
	OHU OVERHEAD UTILITIES
	UGF UNDERGROUND FIBER
	UGP UNDERGROUND POWER
	GAS GAS
	PWR ABOVE GROUND POWER
	EOP EDGE OF PAVEMENT (E.O.P.)
	ROW RIGHT OF WAY (R.O.W.)
	PROPERTY LINE
	CENTERLINE OF ROAD
	T TELCO CONDUIT
	FOC FIBER OPTIC CABLE
	OHE OVERHEAD CONDUCTORS
	FMS FORCE MAIN SEWER
	X FENCE
	WATER WATER
	SW SEWER
	ST STORM
	1 REPRESENT DETAIL #
	C-1 REPRESENT SHEET #

- NOTES:**
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
  - CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND EQUIPMENT STAGING.
  - CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, SOD, PAVING, SIDEWALK REPAIR AND OR FENCE REPAIR.
  - LOCATE AND MARK ANY AND ALL UTILITIES PRIOR TO START OF CONSTRUCTION.
  - ALL PROPOSED WORK TO BE PERFORMED PER LATEST CROWN CASTLE STANDARDS & SPECIFICATIONS.

- ADA SIDEWALK RESTORATION NOTES:**
- SIDEWALK RESTORATION MUST COMPLY WITH ADA GUIDELINES AND R-13.1
  - EXISTING SIDEWALK IMMEDIATELY ADJACENT TO THE AFFECTED SIDEWALKS MUST BE ADA COMPLIANT, OTHERWISE NEEDS TO BE REPLACED.
  - MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 36" WIDE.
  - DAMAGED CURB AND GUTTER TO BE REPLACED FROM JOINT TO JOINT.
  - IF PULL BOXES, MANHOLES, ETC. ARE PLACED IN THE SIDEWALKS, ALL LID SURFACES ON THE SIDEWALK MUST BE FLUSH AND ADA COMPLAINT.

ANY DAMAGE DURING WORK SHALL BE FULLY RESTORED OR REPLACED PER THE 2022-23 FDOT INDEXES LISTED BELOW BY CONTRACTOR

INDEX	DESCRIPTION
102-660	SIDEWALK CLOSURE
102-661	BICYCLE FACILITY CLOSURES
110-100	TREE PROTECTION AND PRESERVATION
350-001	CONCRETE PAVEMENT JOINTS
520-001	CURB & GUTTER
522-001	CONC. SIDEWALK
522-020	TRAFFIC SEPARATORS
522-002	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
522-003	CONC. FLARED DRIVEWAYS
570-001	PERMANENT EROSION CONTROL
630-001	CONDUIT INSTALLATION DETAILS
635-001	HANDHOLE & PULL BOXES
700-101	TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS

**REMOVE AND REPLACE A TOTAL OF 46 LF (340 SQ. FT.) OF CONC. SIDEWALK TO MATCH EXISTING AND TO EQUAL OR BETTER CONDITION**

**REMOVE AND REPLACE A TOTAL OF 154 LF (154 SQ. FT.) OF ASPHALT TO MATCH EXISTING AND TO EQUAL OR BETTER CONDITION**

**PROPOSED UNDERGROUND POWER RUN PER JURISDICTION:**  
 PROPOSED UGP RUN (C.O.M.B.) = ±150'-0"  
 TOTAL POWER RUN = ±150'-0"

**PROPOSED UNDERGROUND FIBER RUN PER JURISDICTION:**  
 PROPOSED UGF RUN (C.O.M.B.) = ±870'-0"  
 TOTAL FIBER RUN = ±870'-0"

**TRENCH LINEAL FEET: 78'-0"**  
**BORE LINEAL FEET: 938'-0"**  
**HH QTY INSTALL: 7**

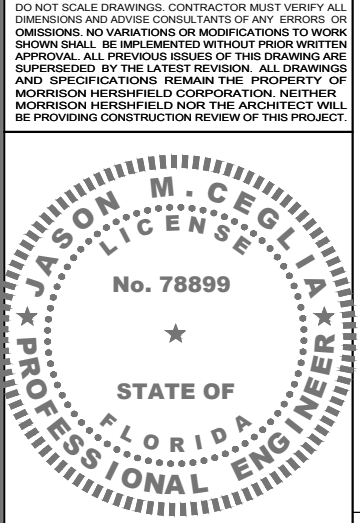
**APPROVED FPL POWER ROUTE**

**POSTED SPEED LIMIT:**  
 2nd STREET - 25 MPH  
 JEFFERSON AVENUE - 30 MPH  
 MERIDIAN AVENUE - 25 MPH  
 WASHINGTON AVENUE - 25 MPH  
 COLLINS COURT - 25 MPH

**REFER TO MOT PLAN FOR TRAFFIC CONTROL**

**RESTORATION AS PER R21.1, R13.1 AND G2.1**

**SEE SHEET G-1 FOR EROSION AND SEDIMENT CONTROL NOTES**



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:

Consultant:

Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
 FL ARCHITECT BUSINESS #AA26002368  
 www.morrisonhershfield.com

Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title: **SITE PLAN**

Project No.: 220312100	Date: 07/10/23
Designer: SBC	Checked By: RL
Drawn By: SJ	Client Approval
PM Review: RL	
Issue No.: 2	Drawing No.: C-1

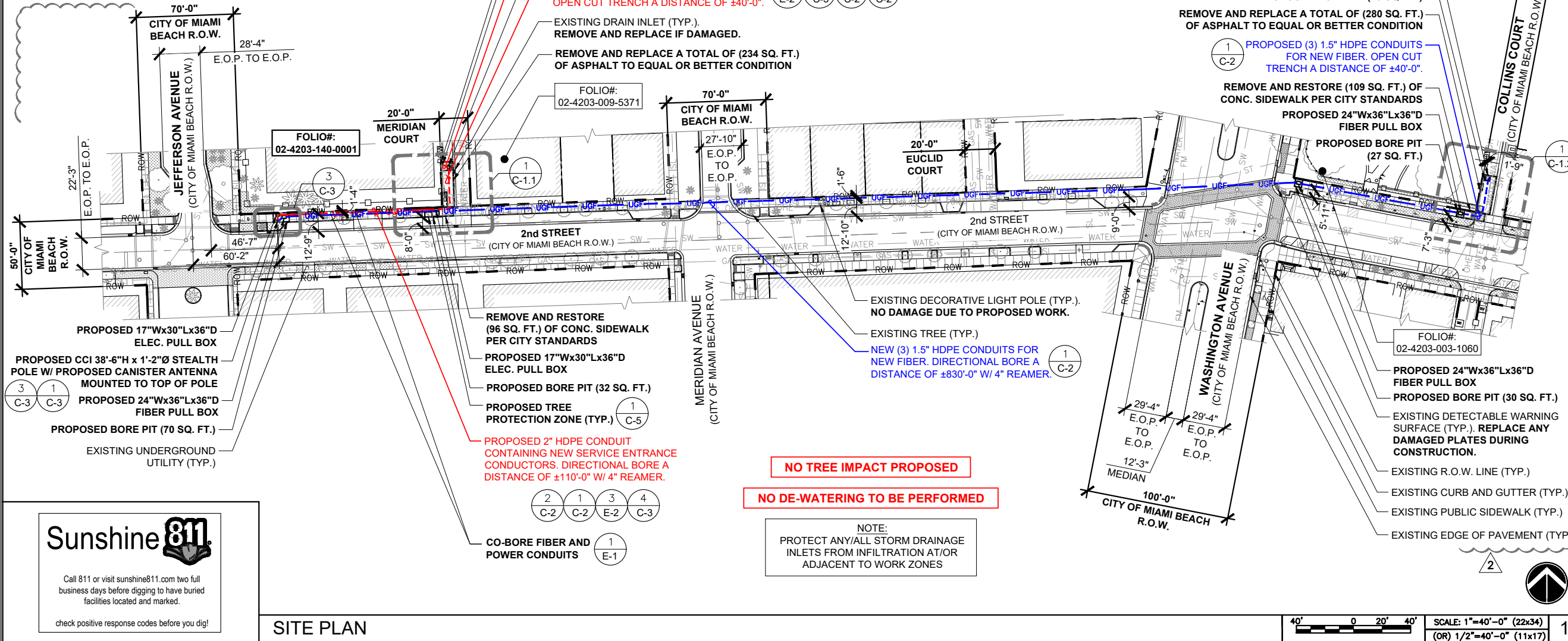
CONTRACTOR TO FULLY RESTORE EXISTING CATCH BASIN OR ITS APRON IF THERE ARE ANY DAMAGES AS THE RESULT OF WORK PERFORMED

CONTRACTOR TO FULLY RESTORE DETECTABLE WARNING SURFACE IF THERE ARE ANY DAMAGES AS THE RESULT OF WORK PERFORMED

**NO TREE IMPACT PROPOSED**

**NO DE-WATERING TO BE PERFORMED**

**NOTE:**  
 PROTECT ANY/ALL STORM DRAINAGE INLETS FROM INFILTRATION AT/OR ADJACENT TO WORK ZONES



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.  
 check positive response codes before you dig!

**SITE PLAN**

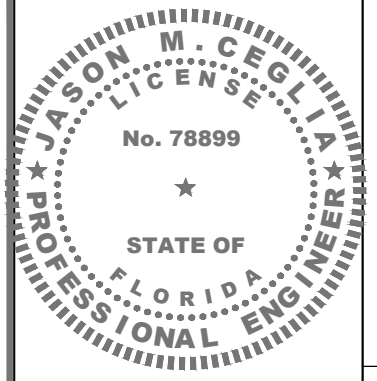
SCALE: 1"=40'-0" (22x34)  
 (OR) 1/2"=40'-0" (11x17)

C:\Users\Sleeveon\AppData\Local\Temp\AcPublish\21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleeveon

CONTRACTOR TO FULLY RESTORE EXISTING **CATCH BASIN** OR ITS APRON IF THERE ARE ANY DAMAGES AS THE RESULT OF WORK PERFORMED

HANDHOLE SHALL BE ABLE TO RESIST HS-20 LOADING (MDC UAM SECTION 375.05)

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:  
**CROWN CASTLE**

Consultant:  
**MORRISON HERSHFIELD**

**Stantec**  
 Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
 FL ARCHITECT BUSINESS #AA26002368  
 www.morrisonhershfield.com

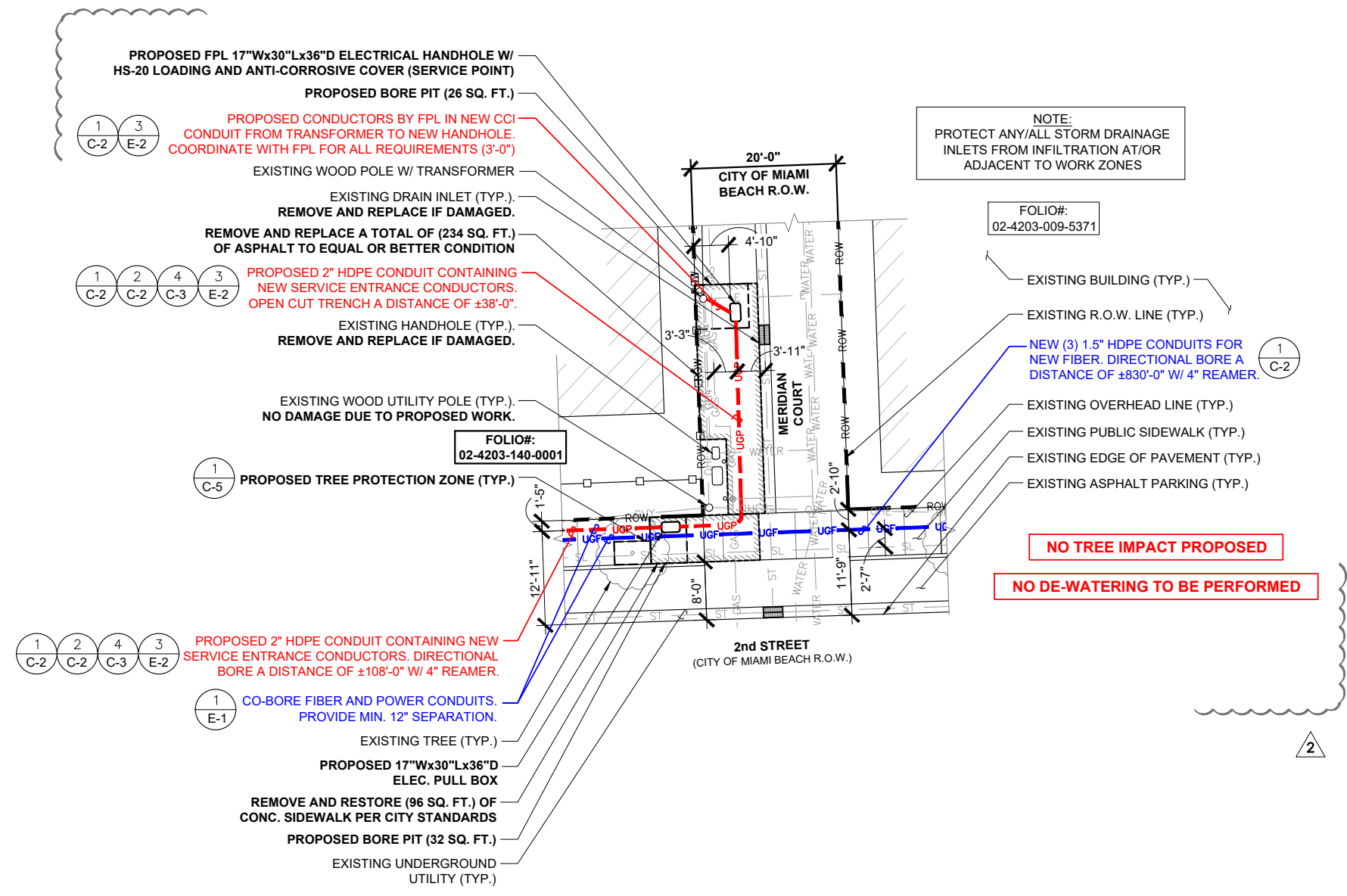
Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  
**ENLARGED SITE PLAN**

Project No.: 220312100

Designer: SBC	Date: 07/10/23
Drawn By: SJ	Checked By: RL
PM Review: RL	Client Approval

Issue No.: <b>2</b>	Drawing No.: <b>C-1.1</b>
------------------------	------------------------------



C:\Users\Sleevean\AppData\Local\Temp\Temp\_VisPublish\_21492\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevean

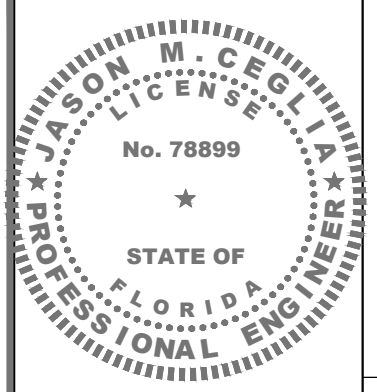
ENLARGED SITE PLAN

SCALE: 1"=10'-0" (22x34)  
 (OR) 1/2"=10'-0" (11x17)

CONTRACTOR TO FULLY RESTORE EXISTING **CATCH BASIN** OR ITS APRON IF THERE ARE ANY DAMAGES AS THE RESULT OF WORK PERFORMED

CONTRACTOR TO FULLY RESTORE **DETECTABLE WARNING SURFACE** IF THERE ARE ANY DAMAGES AS THE RESULT OF WORK PERFORMED

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

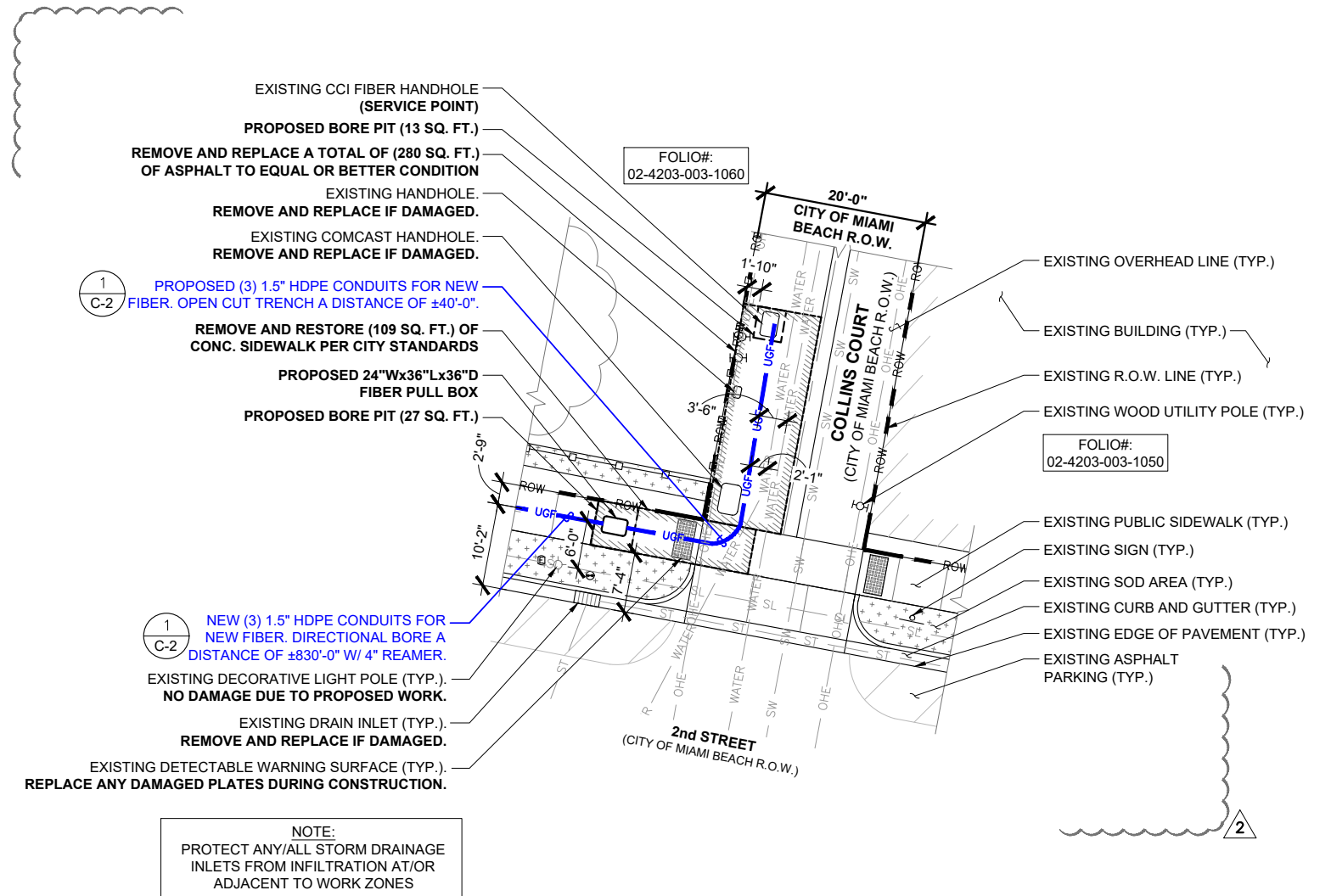
Tower Owner/Client:  
**CROWN CASTLE**

Consultant:  
**MORRISON HERSHFIELD**  
**Stantec**  
 Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
 FL ARCHITECT BUSINESS #AA26002368  
 www.morrisonhershfield.com

Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  
**ENLARGED SITE PLAN**

Project No.: 220312100	
Designer: SBC	Date: 07/10/23
Drawn By: SJ	Checked By: RL
PM Review: RL	Client Approval
Issue No.: 2	Drawing No.: C-1.2



**NOTE:**  
 PROTECT ANY/ALL STORM DRAINAGE INLETS FROM INFILTRATION AT/OR ADJACENT TO WORK ZONES

C:\Users\Sleevan\AppData\Local\Temp\AcPublish\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevan

**ENLARGED SITE PLAN**

SCALE: 1"=10'-0" (22x34)  
 (OR) 1/2"=10'-0" (11x17)



1 2 3 4 5 6

SCALE IS BASE ON 22" X 34" D" SIZE

**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.

**EXISTING UNDERGROUND UTILITY MAPS RECEIVED FROM CITY INCLUDES:**

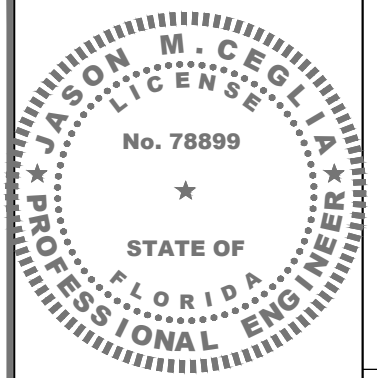
- SEWER SYSTEM DATED - 07.11.95
- STORM WATER SYSTEM - 07.11.95
- WATER SYSTEM DATED - 07.11.95
- STREET LIGHT SYSTEM
- GAS SYSTEM DATED - 07.11.95

**NOTE:**

ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

SOFT DIGGING AND VACUUM EXCAVATION TO BE USED IN THE 24" TOLERANCE ZONE TO CONFIRM ELEVATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL BORING & INSTALLATION OF PROPOSED UNDERGROUND UTILITIES.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**

JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:



Consultant:



Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:

**PROFILE VIEW**

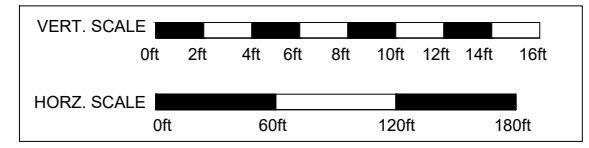
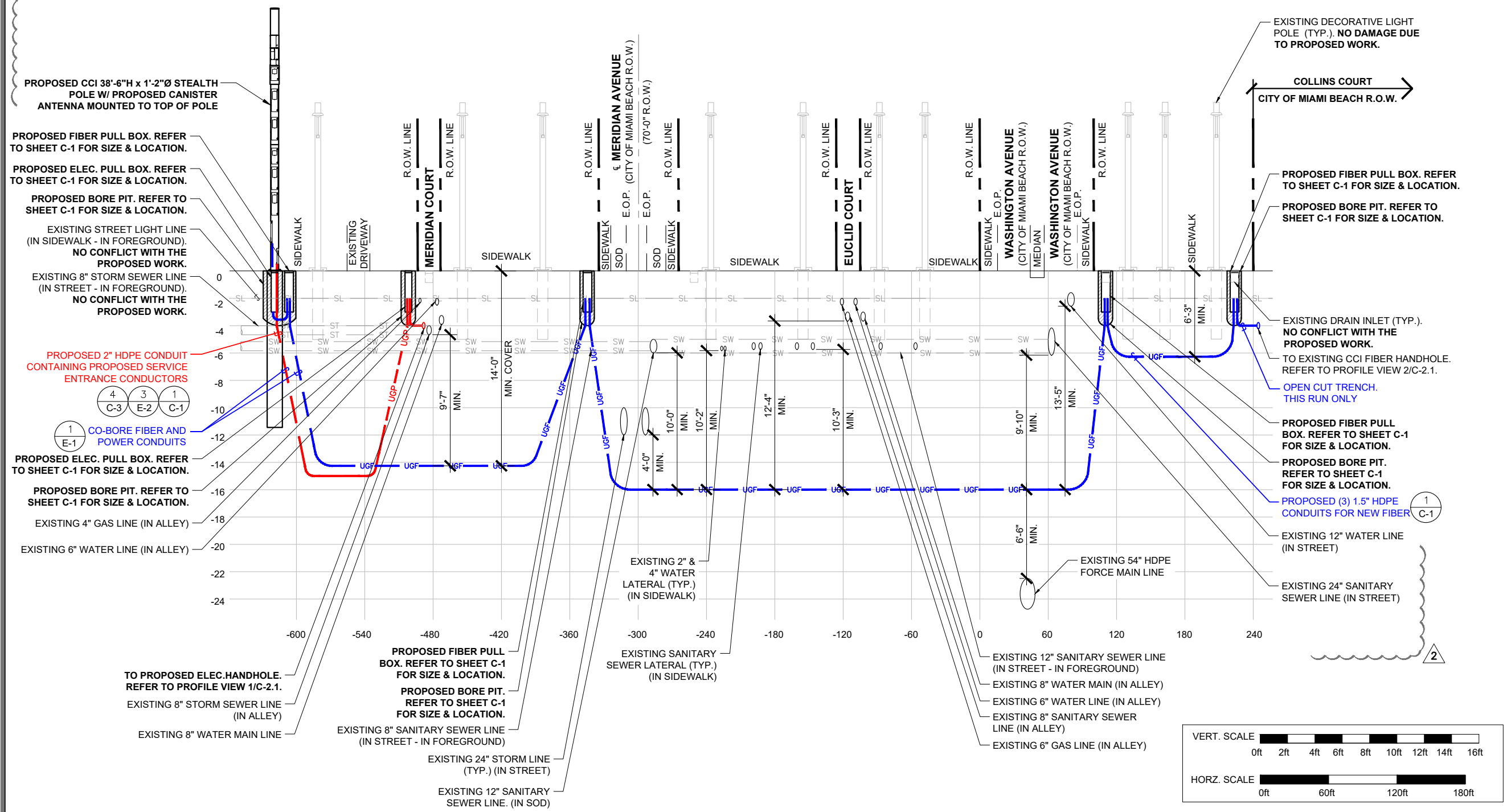
Project No.: 220312100

Designer: SBC Date: 07/10/23

Drawn By: SJ Checked By: RL

PM Review: RL Client Approval

Issue No.: 1 Drawing No.: C-2



**PROFILE VIEW-PARALLEL (2nd STREET)**

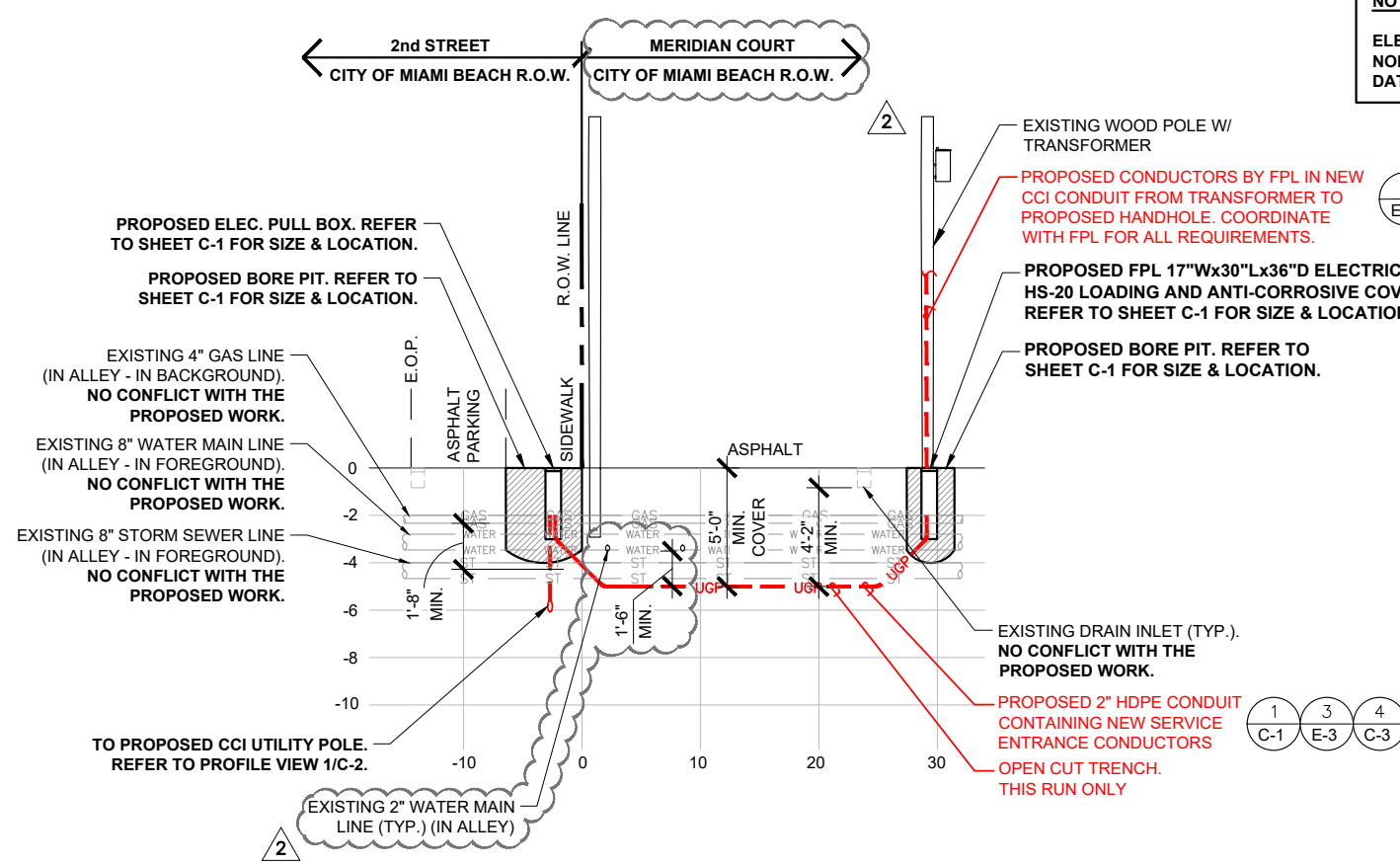
C:\Users\Sleevean\AppData\Local\Temp\AcPublish\21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevean

**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.

EXISTING UNDERGROUND UTILITY MAPS RECEIVED FROM CITY INCLUDES:

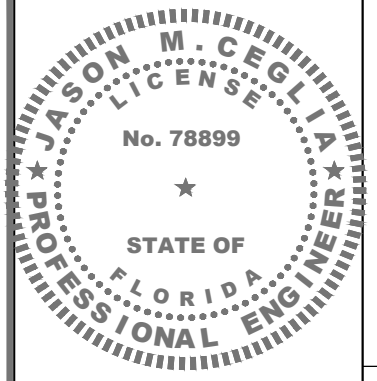
- SEWER SYSTEM DATED
- STORM WATER SYSTEM
- WATER SYSTEM DATED
- STREET LIGHT SYSTEM
- GAS SYSTEM DATED



**NOTE:**  
ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

SOFT DIGGING AND VACUUM EXCAVATION TO BE USED IN THE 24" TOLERANCE ZONE TO CONFIRM ELEVATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL BORING & INSTALLATION OF PROPOSED UNDERGROUND UTILITIES.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:  
**CROWN CASTLE**

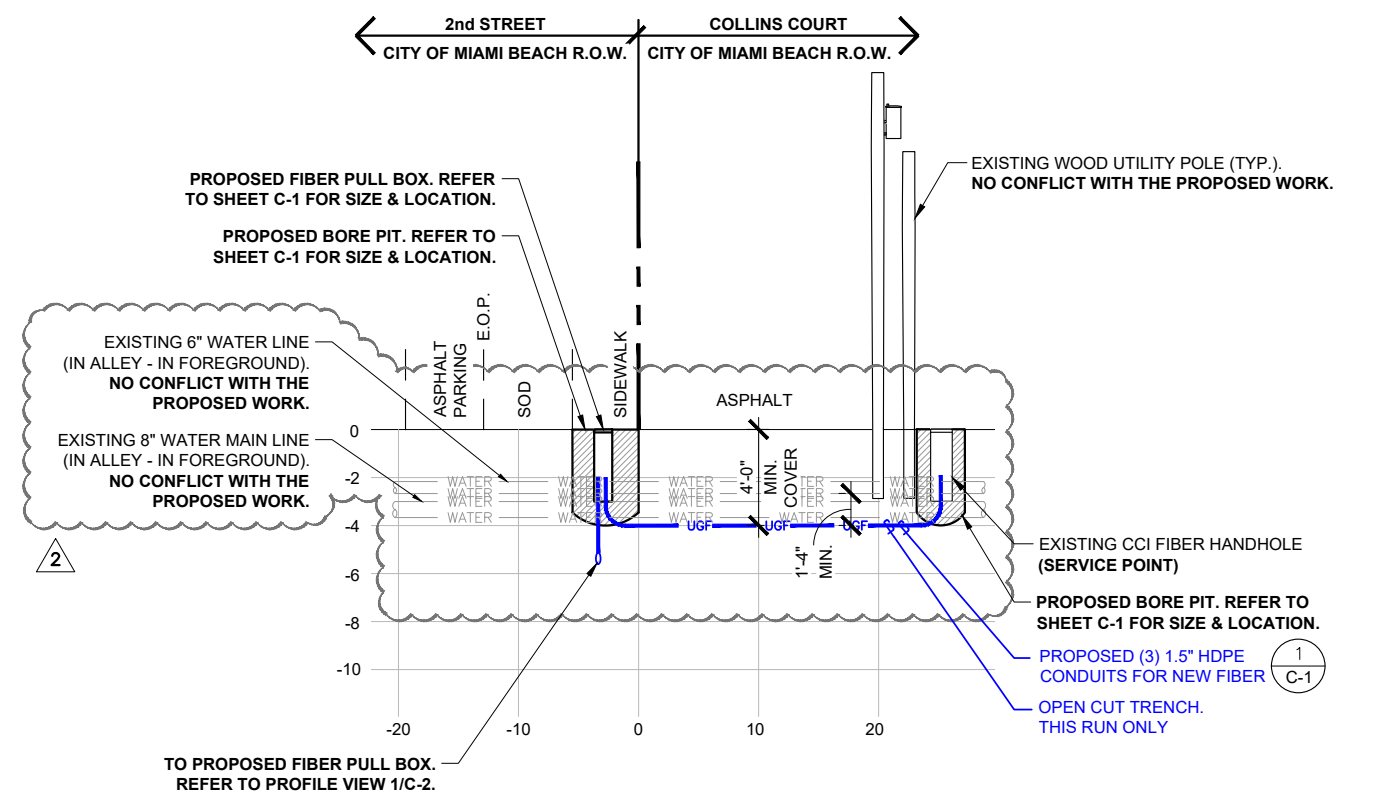
Consultant:  
**MORRISON HERSHFIELD**  
**Stantec**  
Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:  
**PROFILE VIEWS**

Project No.: 220312100	Date: 07/10/23
Designer: SBC	Checked By: RL
Drawn By: SJ	Client Approval
PM Review: RL	
Issue No.: 2	Drawing No.: C-2.1

**PROFILE VIEW-PARALLEL (ALLEY)**



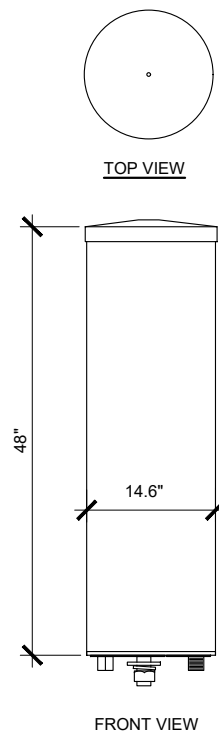
SOFT DIGGING AND VACUUM EXCAVATION TO BE USED IN THE 24" TOLERANCE ZONE TO CONFIRM ELEVATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL BORING & INSTALLATION OF PROPOSED UNDERGROUND UTILITIES.

**NOTE:**  
ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

**PROFILE VIEW-PARALLEL (COLLINS COURT)**

C:\Users\Sleevean\AppData\Local\Temp\AcPublish\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevean

WIRELESS CANISTER ANTENNA  
SMALL CELL ANTENNA

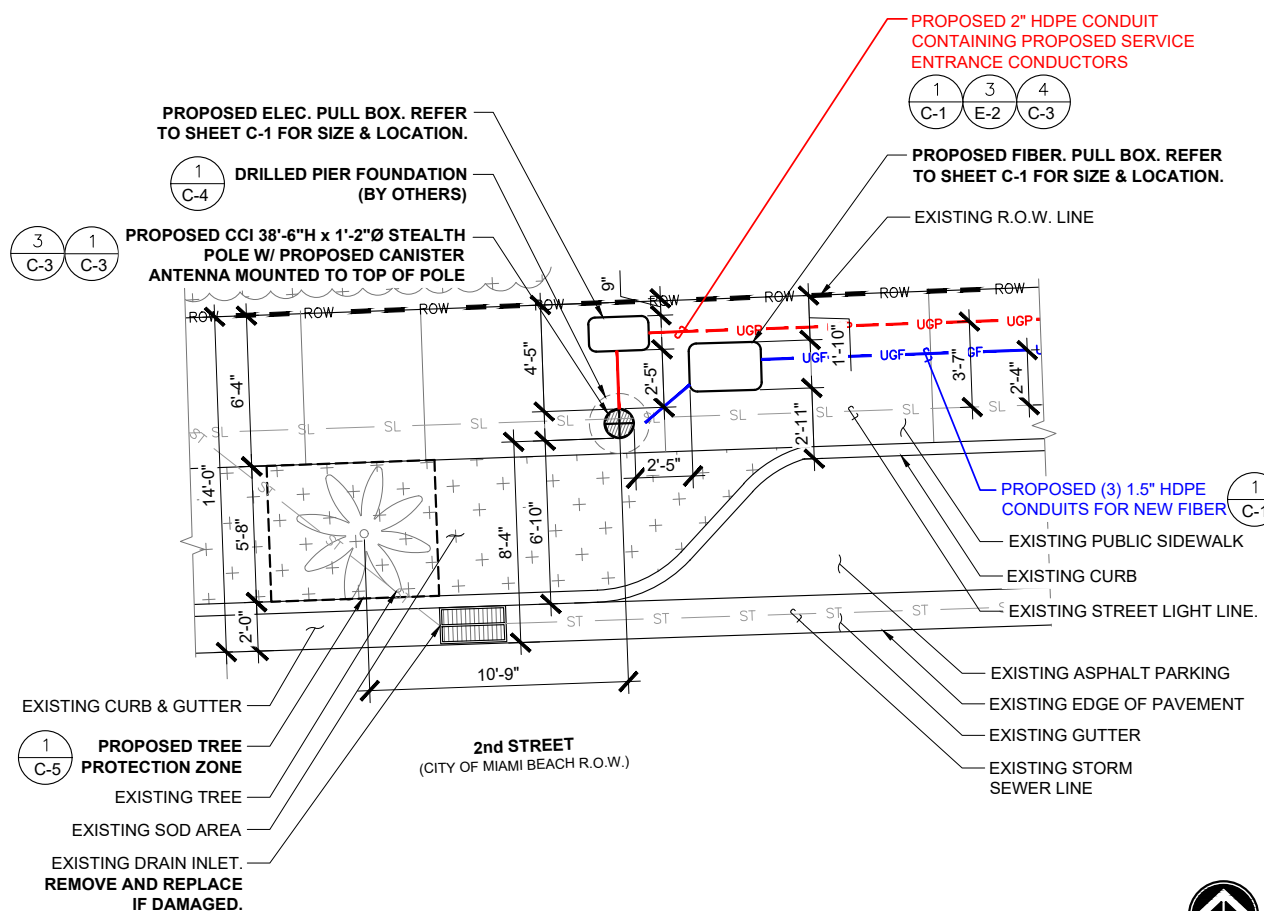


MECHANICAL SPECIFICATIONS

DIMENSIONS, HEIGHT/DIAMETER	48.0/14.6 IN
ANTENNA RF CONNECTOR TYPE	7/16 DIN FEMALE
ANTENNA RF CONNECTOR TORQUE	DIN 220-265 LBF-IN
GPS CONNECTOR TYPE	MINI DIN FEMALE (4.1-9.5 PER IEC 61169-4)
GPS CONNECTOR TORQUE	MINI-DIN 88.5 LBF-IN
CONNECTOR LOCATION	BOTTOM
RANDOM MATERIAL	PVC
WIND SURVIVAL	150 MPH
FRONT WIND LOAD	106 LBF @ 150MPH
EQUIVALENT FLAT PLATE	0.91 SQ FT @ 100MPH

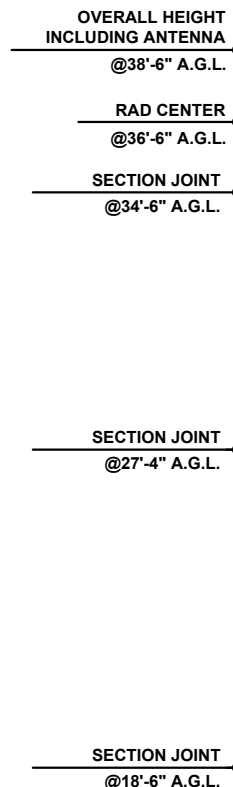
ANTENNA SPECIFICATIONS

SCALE	1
N.T.S.	



ENLARGED SITE PLAN

SCALE: 1/4"=1'-0" (22x34)	2
(OR) 1/8"=1'-0" (11x17)	



PROPOSED CCI 38'-6" H x 1'-2" Ø STEALTH POLE W/ STREET LIGHTS TO REPLACE EXISTING STREET LIGHT POLE

11 GA. STEEL DOOR, (TYP.)

INTEGRATED BASE/ POWER SECTION WITH INTERNAL SPACE TO MOUNT ELECTRIC METER AND SERVICE ENTRANCE LOAD CENTER

GROUNDING ELECTRODE CONDUCTORS

PROPOSED ELEC. PULL BOX (BACK OF POLE). REFER TO SHEET C-1 FOR SIZE & LOCATION.

TOP OF PIER SHALL BE FLUSH WITH SIDEWALK

PROPOSED GROUND ROD AND INSPECTION SLEEVE (TYP. OF 2)

DRILLED PIER FOUNDATION (BY OTHERS)

POLE ELEVATION

NOTE:  
POLE ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFER TO MANUFACTURER SHOP DRAWINGS FOR SPECIFICATIONS AND ASSEMBLY

EXISTING SIDEWALK  
GRADE LEVEL @0'-0" A.G.L.

SEE SHEET C-1 FOR CONTINUATION TO SERVICE ENTRANCE POINT

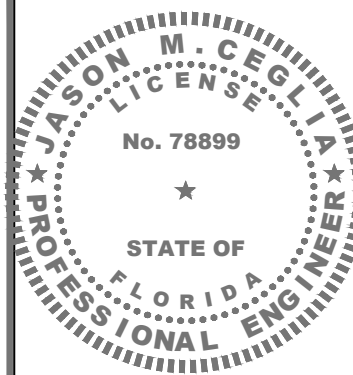
PROPOSED (3) 1.5" HDPE CONDUITS FOR NEW FIBER

PROPOSED FIBER PULL BOX. REFER TO SHEET C-1 FOR SIZE & LOCATION.

PROPOSED 2" HDPE CONDUIT CONTAINING NEW SERVICE ENTRANCE CONDUCTORS

SCALE: 3/8"=1'-0" (22x34)	3
(OR) 3/16"=1'-0" (11x17)	

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



ELECTRONIC SIGNATURE NOTE:  
JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:  
**CROWN CASTLE**

Consultant:  
**MORRISON HERSHFIELD**

**Stantec**  
Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:  
**POLE ELEVATION, ENLARGED PLAN & DETAIL**

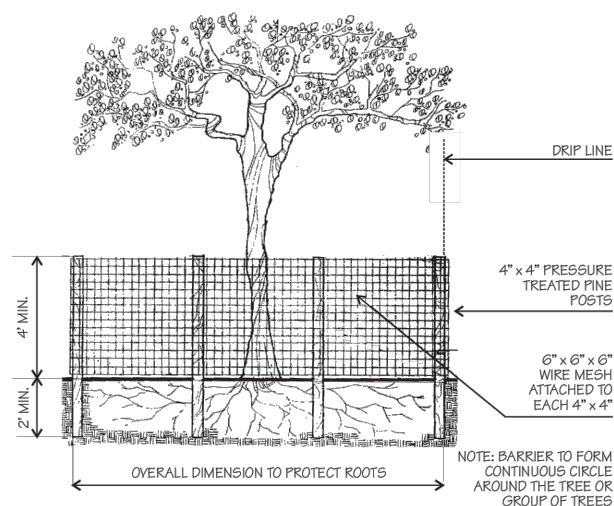
Project No.: 220312100	Date: 07/10/23
Designer: SBC	Checked By: RL
Drawn By: SJ	Client Approval
PM Review: RL	

Issue No.: 0	Drawing No.: C-3
--------------	------------------

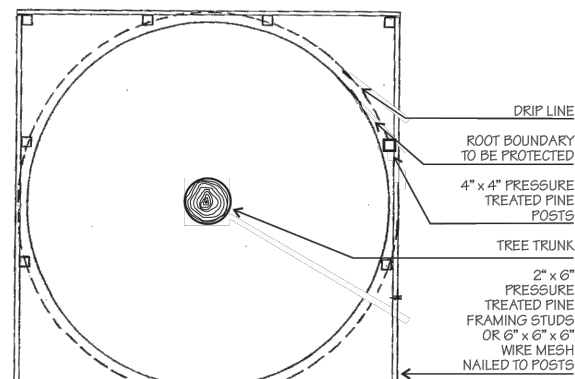
C:\Users\Sleevean\AppData\Local\Temp\AcPublish\21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevean



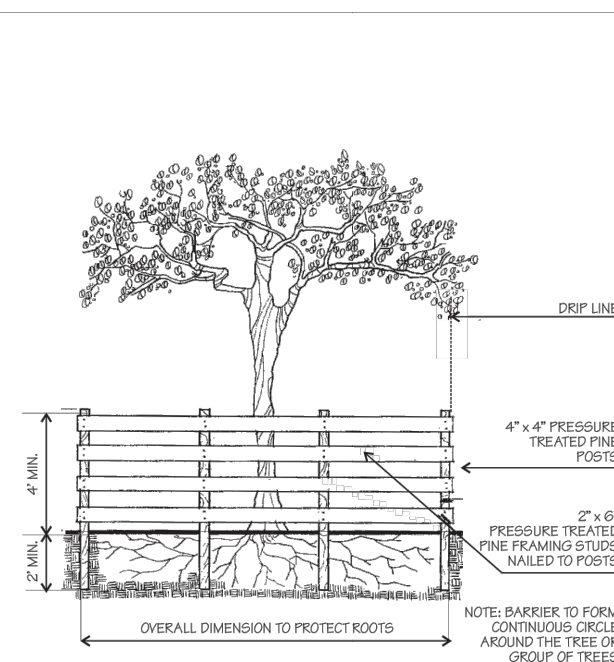
IT IS CRITICAL TO EXISTING TREE SURVIVAL TO PROVIDE PROTECTION DURING CONSTRUCTION. THIS DETAIL CAN BE USED AROUND ONE OR MORE TREES AND WILL PROVIDE PROTECTION FROM CONSTRUCTION EQUIPMENT.



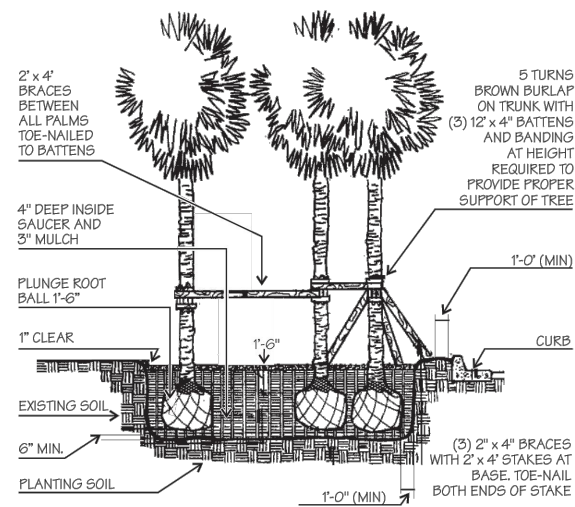
° WIRE MESH BARRIER DETAIL °



° WOOD BARRIER DETAIL PLAN °

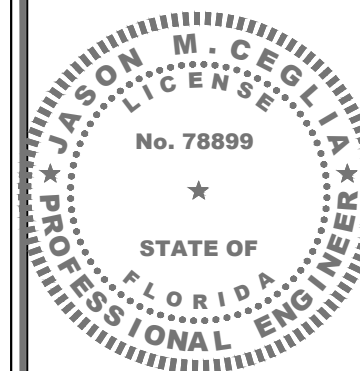


° WOOD BARRIER DETAIL °



° PALM BRACING DETAIL °

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



ELECTRONIC SIGNATURE NOTE:

JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

No.	Date	Action
-----	------	--------

Tower Owner/Client:



Consultant:



Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:  
**DETAILS**

Project No.: 220312100

Designer: SBC Date: 07/10/23

Drawn By: SJ Checked By: RL

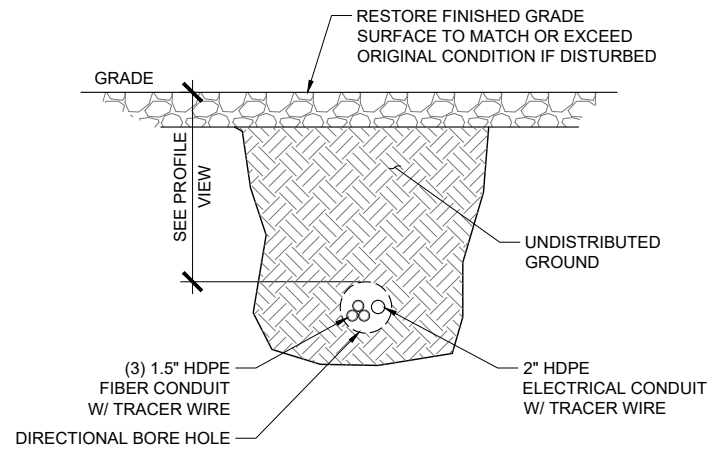
PM Review: RL Client Approval

Issue No.: 0 Drawing No.: C-5

SCALE N.T.S. 1

SCALE IS BASE ON 22" X 34" 12" SIZE

- NOTE:
- POWER & FIBER HDPE CONDUITS TO BE PULLED USING THE SAME BORE.
  - NO SEPARATION REQUIRED FOR POWER AND FIBER OPTIC CABLE IN HDPE CONDUITS.



CO-DIRECTIONAL BORE DETAIL

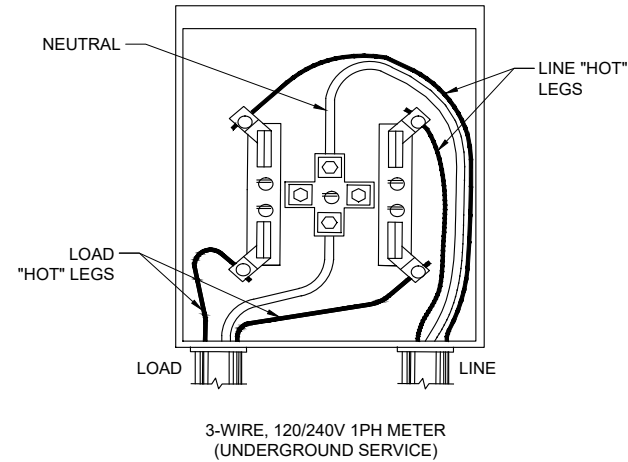
SCALE N.T.S.

1

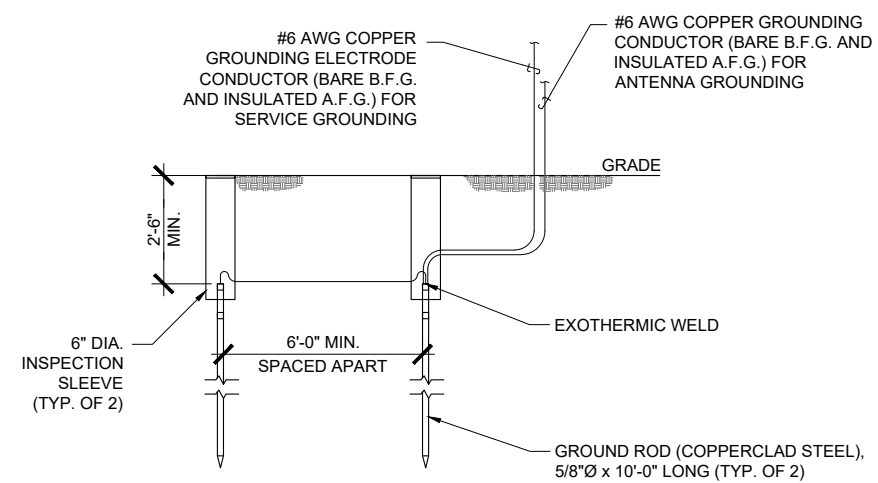
FPL 3-WIRE METER WIRING DETAIL

SCALE N.T.S.

2



- NOTE:
- GROUND ROD TO BE DRIVEN 10'-0" VERTICALLY

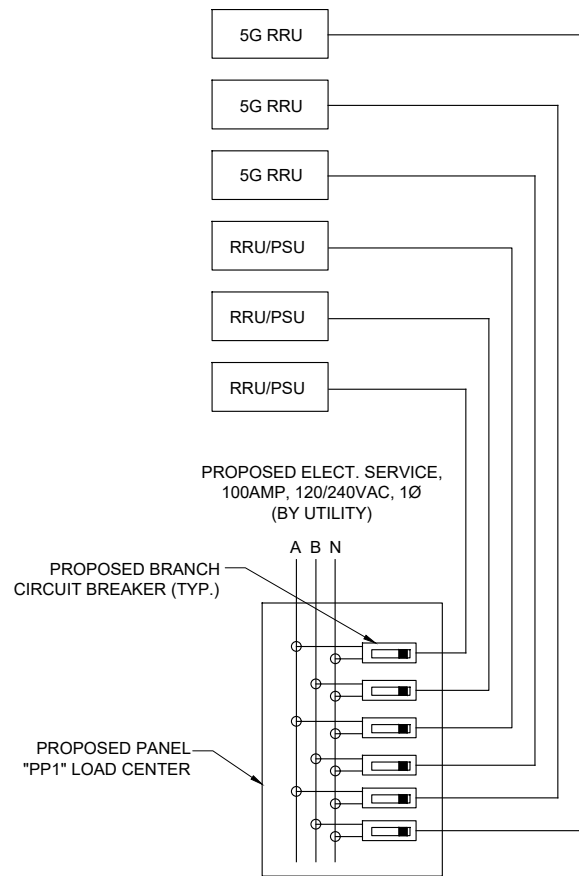


GROUND ROD DETAIL

SCALE N.T.S.

3

- NOTES:
- ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW OR EQUIVALENT OUTDOOR RATED INSULATED CABLE WITH EQUIVALENT COPPER CONDUCTORS.
  - ALL BELOW GRADE CONDUIT IS TO BE HDPE.

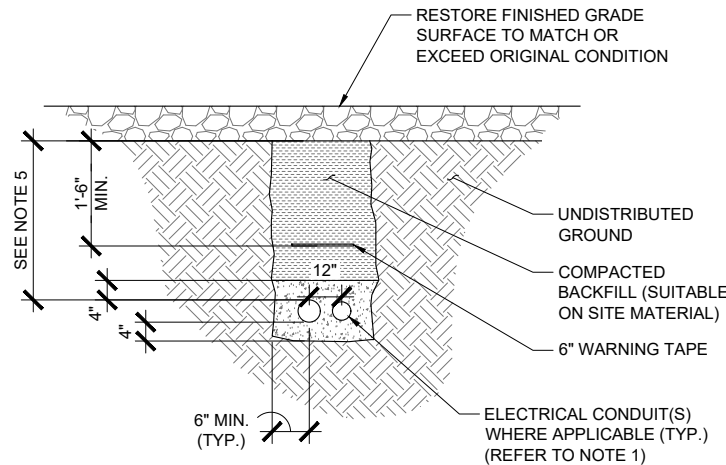


RRU POWER DETAIL

SCALE N.T.S.

4

- NOTES:
- REFER TO SHEET CONDUCTOR AND CONDUIT TABLE FOR CONDUIT SIZE & TYPE.
  - BACKFILL TO BE PLACED IN LIFTS NOT TO EXCEED 6".
  - INSTALL UTILITY PULL BOXES PER NEC.
  - SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.
  - REFER TO PROFILE VIEWS FOR MIN. DEPTH REQUIRED.



TRENCHING CONDUIT DETAIL

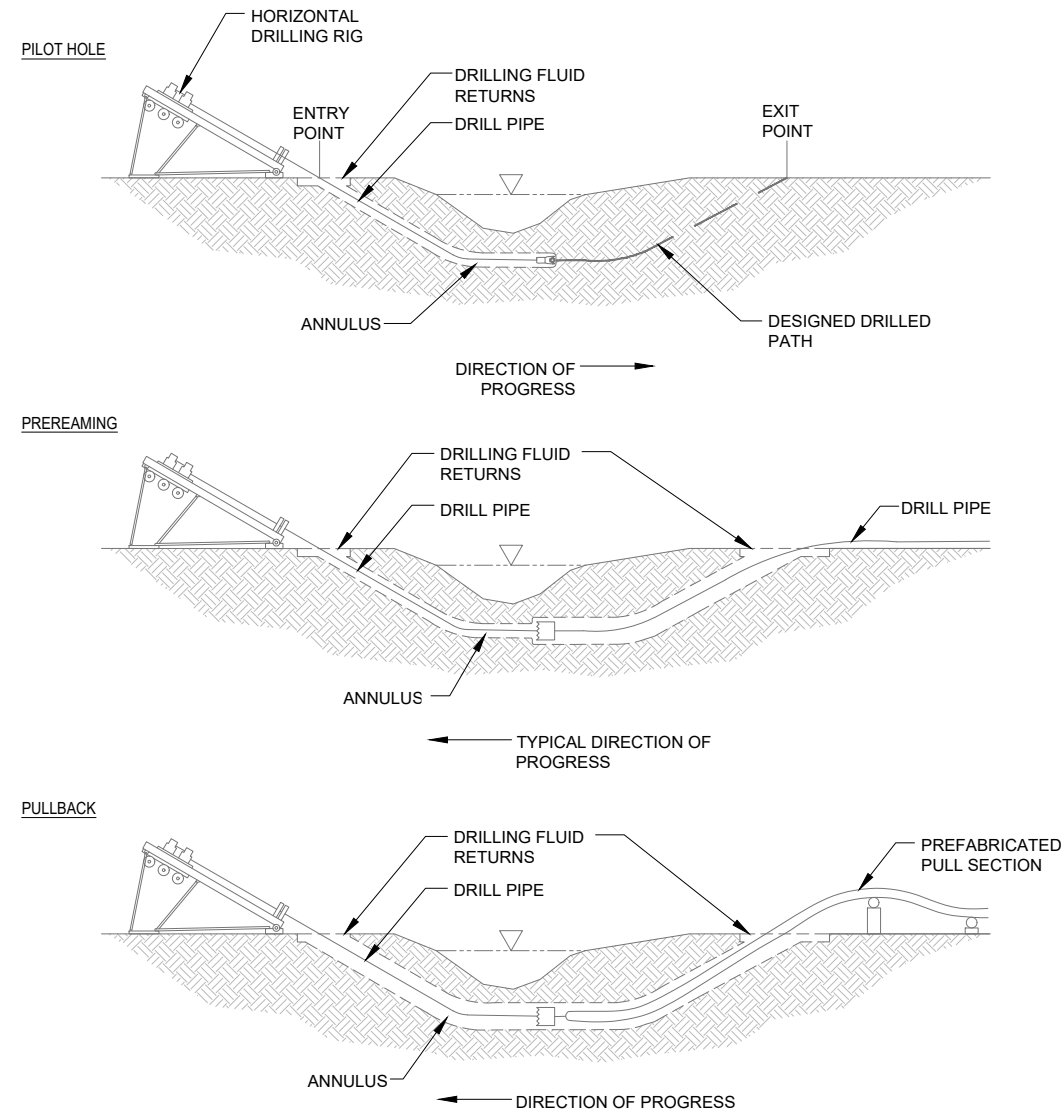
SCALE N.T.S.

5

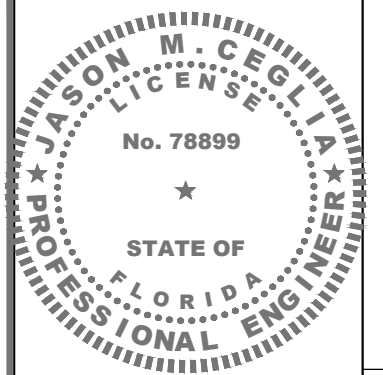
DIRECTIONAL BORE DETAIL

SCALE N.T.S.

6



DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



ELECTRONIC SIGNATURE NOTE:  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:  
 CROWN CASTLE

Consultant:  
 MORRISON HERSHFIELD  
 Stantec  
 Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
 FL ARCHITECT BUSINESS #AA26002368  
 www.morrisonhershfield.com

Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  
**ELECTRICAL DETAILS**

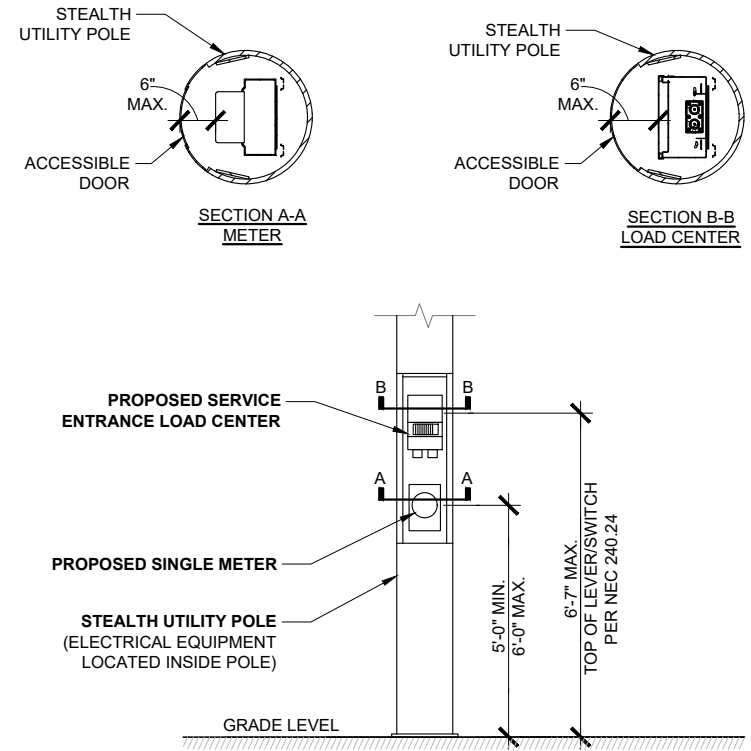
Project No.: 220312100	Date: 07/10/23
Designer: SBC	Checked By: RL
Drawn By: SJ	Client Approval
PM Review: RL	
Issue No.: 0	Drawing No.: E-1

**PROPOSED PANEL "PP1"**  
100A, 120/240V-1Ø-3W, 100A M.C.B.

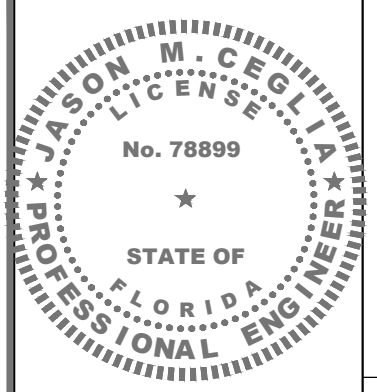
BUS	A	B	AMPS	COND	GND	WIRE	LOAD	BUS VA	
								A	B
1			15	*	#14	#14	PROPOSED RRU/PSU	320	
2			15	*	#14	#14	PROPOSED RRU/PSU		320
3			15	*	#14	#14	PROPOSED RRU/PSU	320	
4			15	*	#14	#14	PROPOSED 5G RRU		400
5			15	*	#14	#14	PROPOSED 5G RRU	400	
6			15	*	#14	#14	PROPOSED 5G RRU		400
7			15	-	-	-	SPARE (FUTURE)	154	
8			15	-	-	-	SPARE (FUTURE)		154
9			15	-	-	-	SPARE (FUTURE)	90	
10			15	-	-	-	SPARE		
11			15	-	-	-	SPARE		
12			15	-	-	-	SPARE		
13			15	-	-	-	SPARE		
14			15	-	-	-	SPARE		
15			15	-	-	-	SPARE		
16			15	-	-	-	SPARE		

TOTAL VA: BUS A 1284    BUS B 1274    CONNECTED VA: 2558  
 AMPERES: BUS A 11    BUS B 11    TOTAL 11  
 RATED VOLTAGE:  120/208     120/240     277/480    1 PHASE, 3 WIRE  
 RATED AMPS:  100A     200     400  
 BRANCH POLES:  8     16     20     24     30     36     42  
 CABINET:  SURFACE     FLUSH     KEYED DOOR LATCH    ENCLOSURE TYPE: NEMA-3R  
 FULL NEUTRAL BUS     GROUND BUS     HINGED DOOR   
 BRANCH DEVICES:  FUSED     CIRCUIT BREAKER  
 MAIN LUG ONLY    MAIN: 100A     BREAKER     FUSED SWITCH  
 SERVICE ENTRANCE RATED LOAD CENTER SHALL BE SERIES AIC RATED UNLESS OTHERWISE NOTED BY MANUF.

- NOTES:**
- LOADS ON PANEL ASSUMES A 1.0 POWER FACTOR
  - \*= REFER TO POLE MANUFACTURER ELEVATION DETAIL FOR THE RACEWAY/CONDUIT METHOD FOR BRANCH CIRCUITS TO RADIOS AND STREET LIGHT.
  - ALL OTHER CIRCUIT BREAKERS TO BE PROVIDED BY CONTRACTOR.
  - NEW STREET LIGHTS ON POLE SHALL BE POWERED FROM EXISTING CITY STREET LIGHTING CIRCUIT.
  - SERVICE MAIN SHALL BE AT 10,000 AIC MIN. AND BRANCH BREAKERS AT 10,000 AIC MIN.**



DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Action
2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW



Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  
**PANEL SCHEDULE,  
 SINGLE LINE  
 DIAGRAM & DETAIL**

Project No.: 220312100	Date: 07/10/23
Designer: SBC	Checked By: RL
Drawn By: SJ	Client Approval
PM Review: RL	
Issue No.: 0	Drawing No.: E-2

**PANEL SCHEDULE**

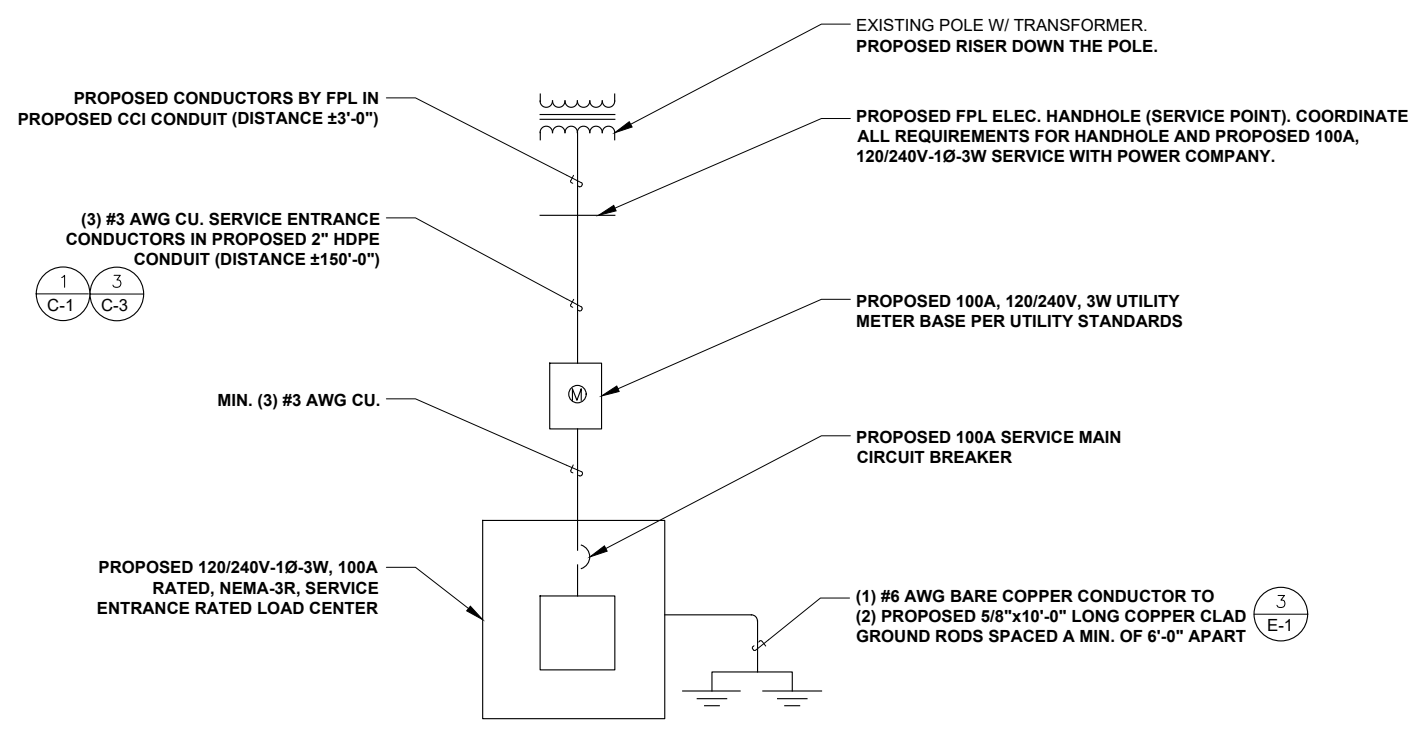
SCALE 1 ELECTRICAL EQUIPMENT MOUNTING HEIGHTS

SCALE 2

**SERVICE ENTRANCE CONDUCTOR AND CONDUIT TABLE FOR A 100A, 120/240V-1Ø-3W SERVICE BASED ON A MAX. OF 4% VOLTAGE DROP USING 1-PHASE VOLTAGE DROP FORMULA IN NEC 215.2**

DISTANCE (FEET)	MIN. CONDUCTORS	MIN. CONDUIT
0-195	(3) #3 AWG CU.	2" HDPE
196-245	(3) #2 AWG CU.	2" HDPE
246-310	(3) #1 AWG CU.	2" HDPE
311-390	(3) #1/0 AWG CU.	2" HDPE
391-480	(3) #2/0 AWG CU.	2" HDPE
481-620	(3) #3/0 AWG CU.	2" HDPE
621-785	(3) #4/0 AWG CU.	2" HDPE
786-925	(3) 250 MCM CU.	3" HDPE

**TERMINATION NOTE:**  
 ALL CONDUCTORS, LUGS AND TERMINATIONS SHALL BE TEMPERATURE RATED FOR MIN. 75° CELSIUS.



**SINGLE-LINE DIAGRAM**

SCALE 3

SCALE IS BASE ON 22" X 34" 1/8" SIZE

C:\Users\Sleevean\AppData\Local\Temp\AutoPublish\_21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleevean

# GENERAL PROVISIONS

## CONTRACT OVERVIEW

1. THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY, WHETHER OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT. THE INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE THE MEANS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
2. THE ENGINEERING DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAWINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT. INSPECT THOSE AREAS AND ASCERTAIN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
3. DO NOT SCALE DRAWINGS. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE.
4. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK HOWEVER, NO CHANGE THAT ALTER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT A CHANGE ORDER.
5. GENERAL CIVIL, STRUCTURAL, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6. THE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS, AND ARE TO BE COMPLIED WITH IN ALL RESPECTS. THE MOST RESTRICTIVE NOTES SPECIFIED ARE TO TAKE PRECEDENCE. CERTAIN SECTIONS OF THE GENERAL NOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL NOTES IN ALL RESPECTS. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE
7. REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF THE TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.
8. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
9. THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS SUCH AS OSHA COMPLIANCE DURING THE PROGRESS OF THE WORK. THE ENGINEER WILL NOT ADVISE NOR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
11. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
13. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK. THE OWNER SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.
14. EACH CONTRACTOR IS RESPONSIBLE FOR PULLING THE BUILDING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE CONTRACTOR IN THE JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS, ETC. PRIOR TO BEGIN THE WORK.
15. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND BE RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 48 HOURS OF NOTICE SHOULD BE GIVEN TO AUTHORITIES. AN EXTENSION IN THE CONTRACT SCHEDULE WILL NOT BE GRANTED DUE TO DELAY CAUSED BY INSPECTIONS.
16. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILTS CHANGES, REVISIONS, ADDENDA, OR CHANGES ORDERS.
17. THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF CONSTRUCTION.

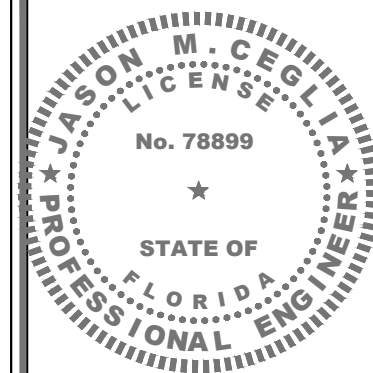
18. THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO ORDER SERVICE, OBTAIN AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF SERVICE, COORDINATE CONDUIT RUN/TERMINATION POINT AND OBTAIN ANY FIELD MATERIALS THAT MAY BE SUPPLIED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND ALTERATION OF ROOFING WARRANTIES.
20. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
21. THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.
22. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PRIOR TO INSTALLATIONS, AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.
23. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT OBSTRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT. ANY EQUIPMENT OR MATERIAL STORAGE MUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHLY ALL MATERIALS AND EQUIPMENT PRIOR TO ANY INSTALLATION. DAMAGED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED PERMANENTLY.
24. ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURERS' INSTRUCTIONS.

## EXISTING CONDITIONS AND STRUCTURES

1. BY SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS, VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTERED AT THE SITE.
2. THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT NOT HAVE FULLY INFORMED HIMSELF PRIOR TO BIDDING.
3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A REASON FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. IT IS UNDERSTOOD BY THE OWNER THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE PROJECT TO ACQUAINT HIMSELF WITH THE SURROUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL JOB SITE, THE FACILITIES FOR DELIVERING, STORING, PLACING, HANDLING AND THE REMOVAL OF MATERIALS AND EQUIPMENT AND ALL DIFFICULTIES THAT MAY BE ENCOUNTERED DURING THE EXECUTION OF ALL WORK IN ACCORD WITH THE CONTRACT DOCUMENTS.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE CONTRACTOR FAILURE TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
6. SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY OR WITH INSUFFICIENT DRAWINGS.
7. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY IN DIMENSIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ENGINEER AND THE OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR ITS REPRESENTATIVE
8. TRADE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRAWINGS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTIFY ENGINEERS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.
9. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING OR REPLACING ANY DAMAGES AREAS.
10. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE VICINITY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STABILITY SHALL BE MONITORED AT ALL TIMES DURING EVERY PHASE OF THE CONSTRUCTION.

11. ALL THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTAL DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
12. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
13. WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL PAINT ALL NEW ANTENNAS SHROUDS AND RELATED MOUNTING HARDWARE TO MATCH THE EXISTING ADJACENT SURFACES. THE CONTRACTOR SHALL NOT USE A METAL BASED PAINT FOR ANTENNAS. ALL SURFACE CONTAMINATION SHALL BE REMOVED PRIOR TO PAINTING NEW SURFACES.
14. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED, IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. BEFORE YOU DIG, DRILL OR BLAST, CALL THE UNDERGROUND SERVICES ALERT NUMBER ON SHEET T1 AT THE REQUIRED TIME
15. ALL EXISTING ACTIVE SEWER, WATER GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
16. IF AN INACTIVE ELECTRICAL, TELEPHONE, SEWER, WATER OR ANY OTHER UTILITY ARE ENCOUNTERED AND INTERFERE WITH THE EXECUTION OF THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY AND CAP, PLUG OR OTHERWISE TERMINATE THE UTILITY AT A POINT WHERE IT NO LONGER CONFLICT WITH THE WORK. THE UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE UTILITY COMPANIES RECOMMENDATIONS AND PER LOCAL AUTHORITY HAVING JURISDICTION.
17. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
18. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
19. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
20. MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE OWNER.
21. IN THE EVENT OF DAMAGE TO AN EXISTING STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ITS REPRESENTATIVE IMMEDIATELY, AND THEN PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS TO THE SATISFACTION OF THE OWNER. THE OWNER MAY ELECT TO USE A THIRD PARTY CONTRACTOR TO PERFORM THE REPAIRS. ALL EXPENSES ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAID BY THE GENERAL CONTRACTOR SELECTED FOR THIS CONTRACT.
22. ADDITIONAL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

No.	Date	Action
-----	------	--------

Tower Owner/Client:  
 CROWN CASTLE

Consultant:  
 MORRISON HERSHFIELD

Stantec  
 Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
**FL ARCHITECT BUSINESS #AA26002368**  
 www.morrisonhershfield.com

Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  

## SPECIFICATIONS

Project No.: 220312100	
Designer: SBC	Date: 07/10/23
Drawn By: SJ	Checked By: RL
PM Review: RL	Client Approval
Issue No.: 0	Drawing No.: SP-1

SCALE IS BASE ON 22" X 34" 1/4" SIZE

C:\Users\Sleeveon\AppData\Local\Temp\AcPublish\21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleeveon

### GENERAL PROVISIONS CONT'D

#### ACCESS

- USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY OWNER.
- COORDINATE WITH SITE OWNER CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT PARCEL IS NOTIFIED IN WRITING OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERIES AND STORAGE, STAGING AREA, CRANE LIFTS WITH THE OWNER PRIOR TO THE START OF THE WORK.
- CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PRIOR TO COMMENCING THE WORK.
- THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.
- CONTRACTOR TO NOTIFY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.

#### SITE MAINTENANCE

- REMOVE STAINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY. REMOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPTLY, AT LEAST DAILY. CONFINE DUST PRODUCING OPERATIONS DURING CUTTING, DRILLING, PAINTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARKING AREA VACUUM IMMEDIATELY AFTER COMPLETION.
- THERE SHALL NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE AGREED UPON WITH THE OWNER. NOISE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION.
- NOISE AND EXISTING BUILDING STRUCTURE VIBRATION GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH NOISE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 AM. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY OR AS AGREED TO BY BUILDING OWNER.
- THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-ABC WITHIN 75FT OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS, REMOVE AND DISPOSE LEGALLY OFF SITE ALL RUBBISH, WASTE MATERIALS, UTTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
- THE SITE SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE PREMISES. EXISTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME DURING CONSTRUCTION.
- THE TENANT'S INGRESS AND EGRESS OF THE SITE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL MEASURE NECESSARY TO MAINTAIN POLLUTION CONTROL COMPLY WITH ALL GOVERNING REGULATION PERTAINING TO ENVIRONMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBRIS AND ACCUMULATION OF MATERIALS RESULTING FROM THE WORK.

#### TEMPORARY FACILITIES

- THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS SITE WHEN PERMANENT POWER IS ESTABLISHED. ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTRICAL CODES AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERLY STORED DURING NON-WORKING HOURS.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.

### SITE WORK

#### CLEARING AND GRUBBING

- CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION LIMIT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES, VEGETATION, LANDSCAPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.

#### EXCAVATION AND BACKFILL

- ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL
- ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER'S REPRESENTATIVE ON THE DRAWINGS OR GEO-TECHNICAL REPORT RECOMMENDATIONS.
- THIS PROJECT INCLUDES:
  - EXCAVATION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS ROAD AND UTILITIES.
  - ALL MATERIALS FOR SUB-BASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND IMPROVEMENTS.
- FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THICKNESS OF 6 INCHES.
- THE COMPACTING UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTM D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH 100CU. PER YARDS OF MATERIAL VOLUME.
- THE COMPACTING UNDER SOD OR UNPAVED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTM D1557.
- AREAS THAT DO NOT MEET ASTM D-1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES.
- ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
- THE USE OF EXPLOSIVE IS PROHIBITED ON SITE.
- ALL EXCAVATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL, UNDISTURBED AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- BACK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLOUDS OR STONES OVER 2 1/2".
- AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIALS SUCH AS VEGETATION, DEBRIS, TRASH AND ANY FOREIGN MATERIAL.

#### DRAINAGE

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
- ANY DRAINFIELD TILE OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.

#### GRADING

- ALL GROUNDING, UTILITIES AND UNDERGROUND EQUIPMENT EXPOSED BY GRADING SHALL BE REPLACED AND PROPERLY CONNECTED TO THE EXISTING PORTION OF THE ORIGINAL SYSTEM PER APPROVED CODES AND JURISDICTION REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE INSTALLATION OF UTILITIES.
- PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAME THICKNESS.

### DEMOLITION & EXISTING STRUCTURAL ALTERATION

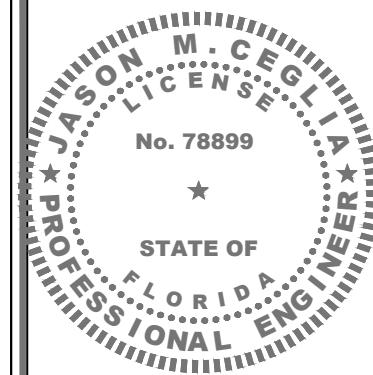
#### DEMOLITION

- GENERAL CONTRACTOR IS TO DEMOLISH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED FOR DEMOLITION IN THE ARCHITECTURAL, CIVIL, ELECTRICAL AND/OR STRUCTURAL DRAWINGS, INCLUDING BELOW GRADE FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF EQUIPMENT & MATERIALS.
- GENERAL CONTRACTOR IS TO EXERCISE UTMOST CARE DURING DEMOLITION AND PROMPTLY INFORM THE ENGINEER OF ANY DEVIATION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PRIOR TO PROCEEDING WITH THE WORK.
- GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SHORING, BRACING, PROVIDING LATERAL SUPPORT, AND FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE DEMOLITION AND CONSTRUCTION AND SHALL PROVIDE, IF REQUIRED, SIGNED & SEALED SHOP DRAWINGS, BY A REGISTERED PROFESSIONAL ENGINEER, FOR THE SHORING OF ALL WALLS, BEAMS, SLABS, ROOF JOISTS, OR OTHER ELEVATED STRUCTURAL ITEMS, THAT ARE HAVING THE SUPPORT BELOW NOTED FOR DEMOLITION.
- ANY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

#### CUTTING & PATCHING

- WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACENT EXISTING SURFACES.
- REPAIR, PATCH, FINISH AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES THOSE EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



#### ELECTRONIC SIGNATURE NOTE:

JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, P.E. USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

No.	Date	Action
-----	------	--------

Tower Owner/Client:



Consultant:



Two South University Drive, Suite 245  
Plantation, FL 33324  
Tel: 954.577.4655  
FL ARCHITECT BUSINESS #AA26002368  
www.morrisonhershfield.com

Project: **FL6440BA**  
PROJECT NO: 48862215  
NODE SCU: 467215  
R.O.W. OF 2nd STREET  
NEAR ADDRESS:  
887 2nd STREET  
MIAMI BEACH, FL 33139

Drawing Title:

**SPECIFICATIONS**

Project No.:  
220312100

Designer:  
SBC

Date:  
07/10/23

Drawn By:  
SJ

Checked By:  
RL

PM Review:  
RL

Client Approval

Issue No.:

Drawing No.

0

SP-2

# ELECTRICAL NOTES

## GENERAL

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERLY OPERATING SYSTEMS. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES OF ALL AUTHORITIES HAVING JURISDICTION AND WITH ALL ASSOCIATED UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO COMPLY WITH THE LATEST EDITIONS OF ALL CODES AND STANDARDS OF THE ENTITIES LISTED ON SHEET SP1, NOTE 2
2. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES.
4. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
5. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER TO THE CARRIER AT THE COMPLETION OF THE PROJECT.
6. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY. IF, AFTER THIRTY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER RESERVES THE OPTION OF ARRANGING FOR THE NECESSARY REPAIRS AND BACKCHARGING THE CONTRACTOR FOR THE WORK
7. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS NECESSARY.
8. DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN PERMISSION OF THIS INSTALLATION'S CARRIER.
9. CHANGES: NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR OWNER IN THE FORM OF A CHANGE ORDER.
10. DRAWINGS: ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.
11. DISCREPANCIES: DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
12. SURVEY AND CONDITIONS: VISIT THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOWANCES WILL BE GIVEN FOR THE SITE CONDITION.
13. CO-OPERATION: CO-OPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE ARRANGE AND EXECUTE WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRADES CONCERNED.
14. TEMPORARY POWER: ARRANGE AND PAY FOR THE CARRIER'S TEMPORARY POWER DURING CONSTRUCTION.
15. INSTALLATION SHALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANUAL ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORK
16. PROCUREMENT VERIFICATION: PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANAGER THAT EQUIPMENT AND RELATED HARDWARE HAVE BEEN ORDERED WITHIN 24 HOURS OF NOTICE TO PROCEED.
17. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

## INSPECTIONS

1. GENERAL: DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT AND IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.
2. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE
3. INSPECTION AGENCY: APPROVED BY THE LOCAL MUNICIPALITY/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE
4. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY.

## HANGERS AND SUPPORTS

1. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

2. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC., AS INDICATED OR REQUIRED.
3. INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIAL. RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE ON MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.
4. STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.
5. MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
6. ONE-HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCHES.

## ENCLOSURES / WIREWAYS

1. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
2. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
3. JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 2-1/8 INCHES DEEP.

## HOLES, SLEEVES AND OPENINGS

1. GENERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES.
2. CONDUIT PENETRATIONS: SIZE CORE-DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE-DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACE.
3. PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION. PROVIDE FIREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL REFER TO CUTTING AND PATCHING NOTES UNDER SECTION 1 - GENERAL
4. GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

5. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS USING SKILLED MECHANICS OF THE TRADES INVOLVED.

6. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.

## CONDUCTORS

1. USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AWG. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER. ALUMINUM CONDUCTORS SHALL NOT BE USED.
2. NO BX, MC OR ROMEX CABLE SHALL BE PERMITTED.
3. EACH END OF EVERY POWER, GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
4. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL REMOVE SHARP EDGES.
5. ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING INTO ACCOUNT THE USE OF COPPER CONDUCTORS.
6. CONTRACTOR SHALL VERIFY LENGTH OF ALL CONDUCTORS RUNS AND INCREASE WIRE SIZE AS REQUIRED SUCH THAT VOLTAGE DROP DOES NOT EXCEED 5% FOR BOTH BRANCH CIRCUITS AND FEEDERS COMBINED.

## ELECTRICAL SERVICE

1. GENERAL: COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
2. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.
3. CONTRACTOR TO VERIFY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AIC).
4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE NEW SERVICE AND PAYING ALL ASSOCIATED FEES.
5. IDENTIFICATION: IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE.
6. THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.
7. LOCATION AND ARRANGEMENTS: DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, AND ARE NOT TO BE SCALED PROPER JUDGMENT MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSIBLE INSTALLATION.
8. PANEL AND DISTRIBUTION BOARD IDENTIFICATION: SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE IDENTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGID PHENOLIC NAMEPLATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

## CHECKOUT, TESTING AND ADJUSTING

1. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.
2. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH AND LOAD CENTER.
3. WHEN SITE POWER IS DERIVED FROM A 3-PHASE SOURCE, LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE RECORDS SHALL BE RETURNED TO THE OWNER'S REPRESENTATIVE.

## RACEWAY SYSTEMS / CONDUIT

1. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT.
2. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
3. PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LB. TEST POLYETHYLENE CORD.
4. ALL CONDUIT BENDS FOR 2" AND LARGER TRADE SIZE SHALL BE MINIMUM OF 24 INCH RADIUS.
5. ALL METALLIC RACEWAYS SHALL BE GROUNDED PER NEC.
6. THE CONTRACTOR SHALL FIELD VERIFY THE BEST AND LEAST DISRUPTIVE ROUTING OF CONDUITS, CABLE TRAYS AND DUCTS. CONDUIT ROUTING IS SHOWN AS A GUIDE ONLY, ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A PROFESSIONAL MANNER.

## BELOW GRADE

1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE VICINITY OF OTHER UNDERGROUND SERVICES AND EQUIPMENT SUPPORTS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID SERVICE DISRUPTION TO THESE FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIATE AGENCIES PRIOR TO EXCAVATION AT THIS SITE.
2. PRIOR TO EXCAVATION, A UTILITY MARK OUT SHALL BE DONE TO LOCATE EXISTING UNDERGROUND UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PRIOR TO ANY EXCAVATION WORK BEING PERFORMED. PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND GIVEN TO THE CARRIER DURING THE SITE'S HANDOFF.
3. ALL TRENCHING AND EXCAVATION WITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHODS OF DIGGING MUST FIRST BE APPROVED BY THE CONSTRUCTION MANAGER.
4. UNDERGROUND CONDUIT SHALL BE ENCASED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCASEMENT SHALL BE 3" MINIMUM ALL AROUND AND BETWEEN CONDUITS.
5. ALL BURIED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE WHEN TRENCHING. TAPE SHALL BE PLACED 12" ABOVE CONDUIT FOR EASY IDENTIFICATION.

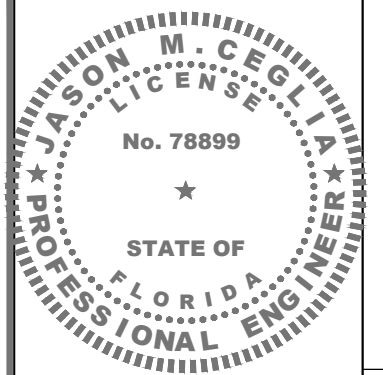
## EQUIPMENT

1. THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING EQUIPMENT A.I.C.
2. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY CO.
3. THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF THE NOTICE TO PROCEED.
4. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
5. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (WP OR BETTER) OUTDOORS.
6. NONMETALLIC RECEPTACLE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (WP OR BETTER) OUTDOORS.

## TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

1. TVSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE UNSUITABLE TVSS DEVICES.
2. THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE OF THE MANUAL TRANSFER SWITCH.
3. IN MARKETS WITH LIGHTNING ZONE > OR = TO 4, RF TVSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BTS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LIGHTNING AND TRANSIENT VOLTAGES.
4. A T1 TRANSPORT TVSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NIU AND THE BTS.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.



**ELECTRONIC SIGNATURE NOTE:**  
 JASON M. CEGLIA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 78899  
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JASON M. CEGLIA, PE, USING A SHA-1 AUTHENTICATION CODE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2	06/11/24	MIAMI-BEACH Jx COMMENTS
1	04/09/24	JX REVIEW COMMENTS
0	07/25/23	ISSUED FOR PERMIT
A	07/10/23	ISSUED FOR CLIENT REVIEW

Tower Owner/Client:  
 CROWN CASTLE

Consultant:  
 MORRISON HERSHFIELD  
 Stantec  
 Two South University Drive, Suite 245  
 Plantation, FL 33324  
 Tel: 954.577.4655  
**FL ARCHITECT BUSINESS #AA26002368**  
 www.morrisonhershfield.com

Project: **FL6440BA**  
 PROJECT NO: 48862215  
 NODE SCU: 467215  
 R.O.W. OF 2nd STREET  
 NEAR ADDRESS:  
 887 2nd STREET  
 MIAMI BEACH, FL 33139

Drawing Title:  

# SPECIFICATIONS

Project No.: 220312100	
Designer: SBC	Date: 07/10/23
Drawn By: SJ	Checked By: RL
PM Review: RL	Client Approval
Issue No.: 0	Drawing No.: SP-3

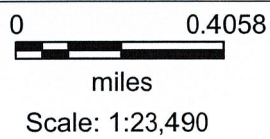
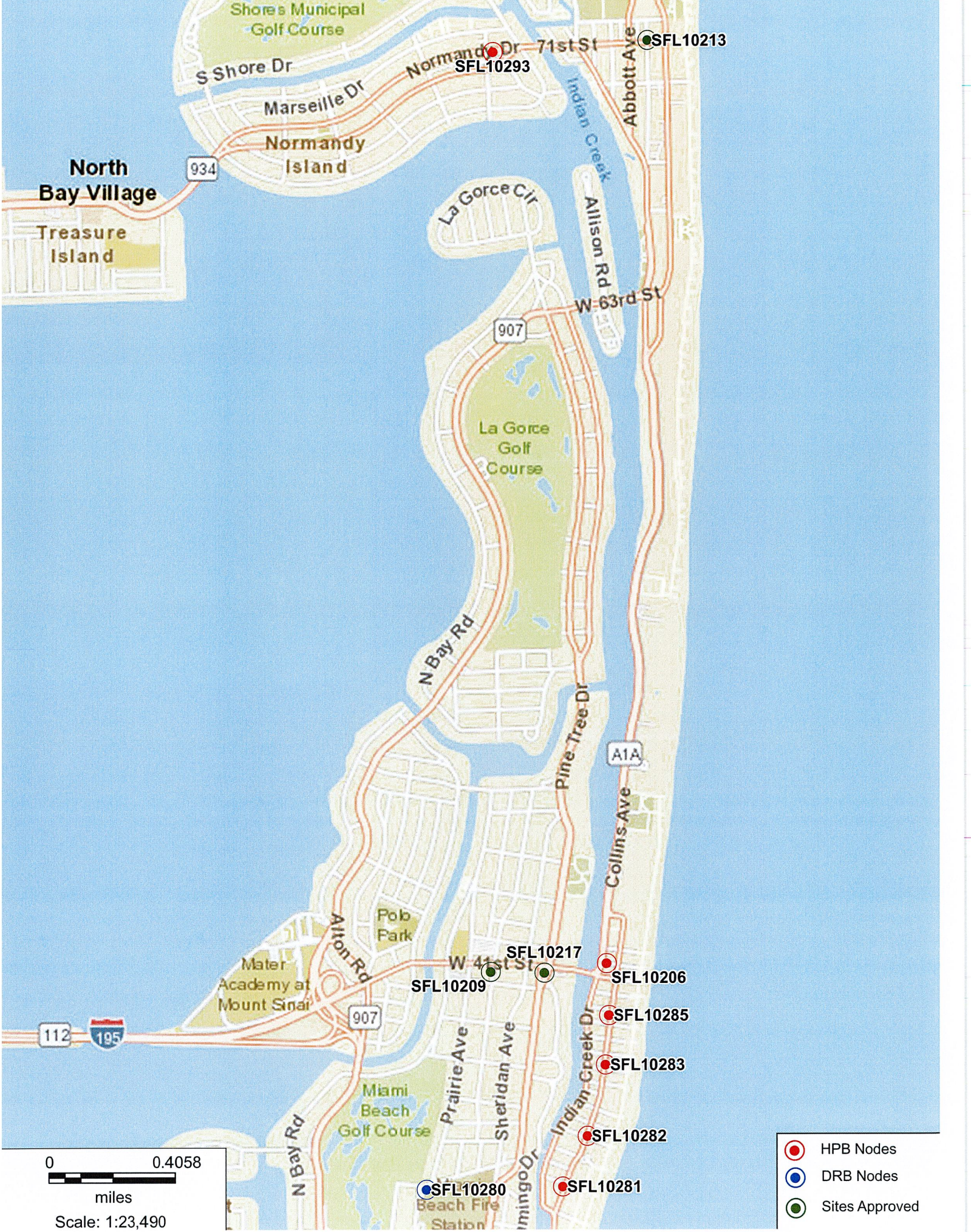
SCALE IS BASE ON 22" X 34" 1/4" SIZE

C:\Users\Sleeveon\AppData\Local\Temp\AcPublish\Temp\_AcPublish\_21482\220312100\_FL6440BA\_FCD\_Rev\_2\_06.11.24.dwg 06/11/2024 2:15pm Sleeveon



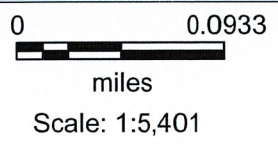
0 0.6556  
miles  
Scale: 1:37,950

- HPB Nodes
- DRB Nodes
- Sites Approved



- HPB Nodes
- DRB Nodes
- Sites Approved





- HPB Nodes
- DRB Nodes
- Sites Approved



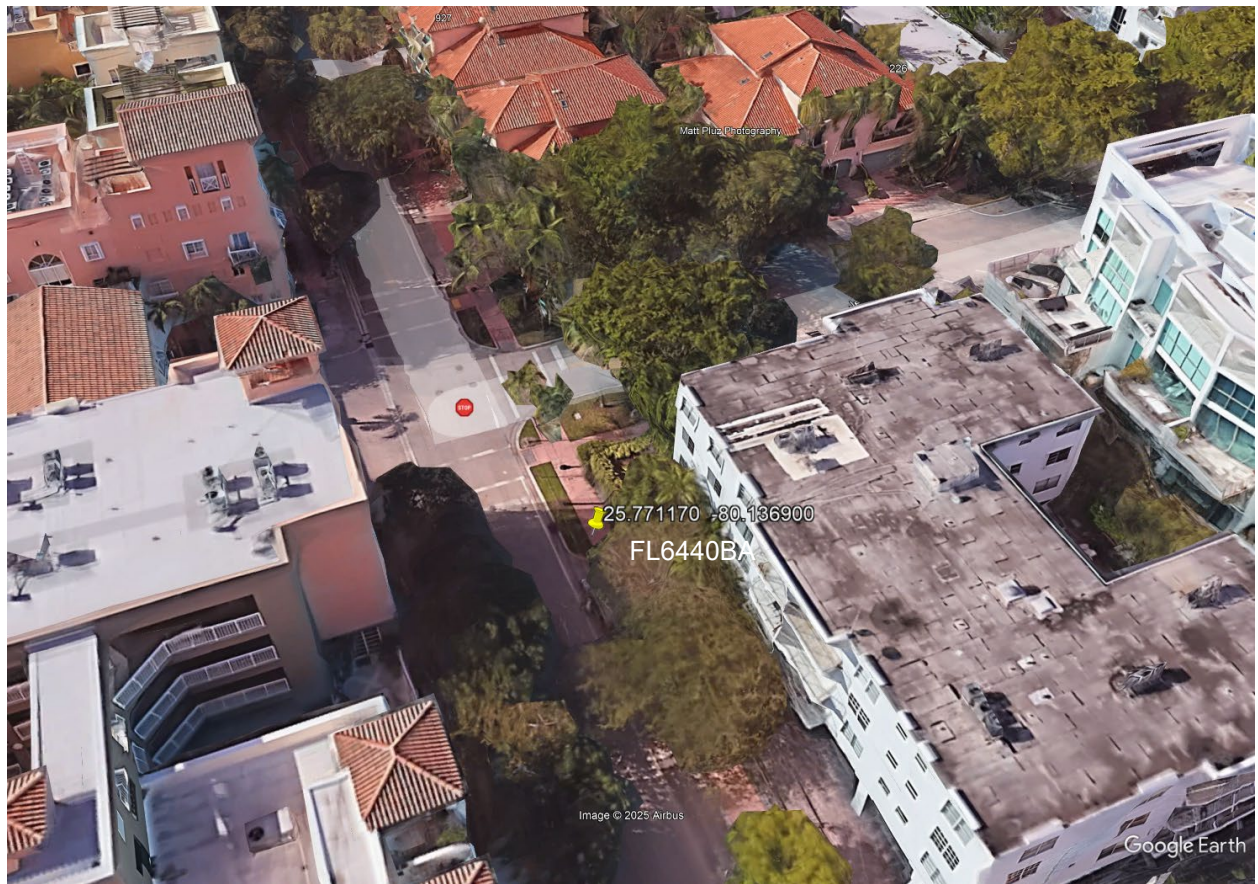
- HPB Nodes
- DRB Nodes
- Sites Approved

0 0.1316  
 miles  
 Scale: 1:7,620

FL6440BA

Aerial View

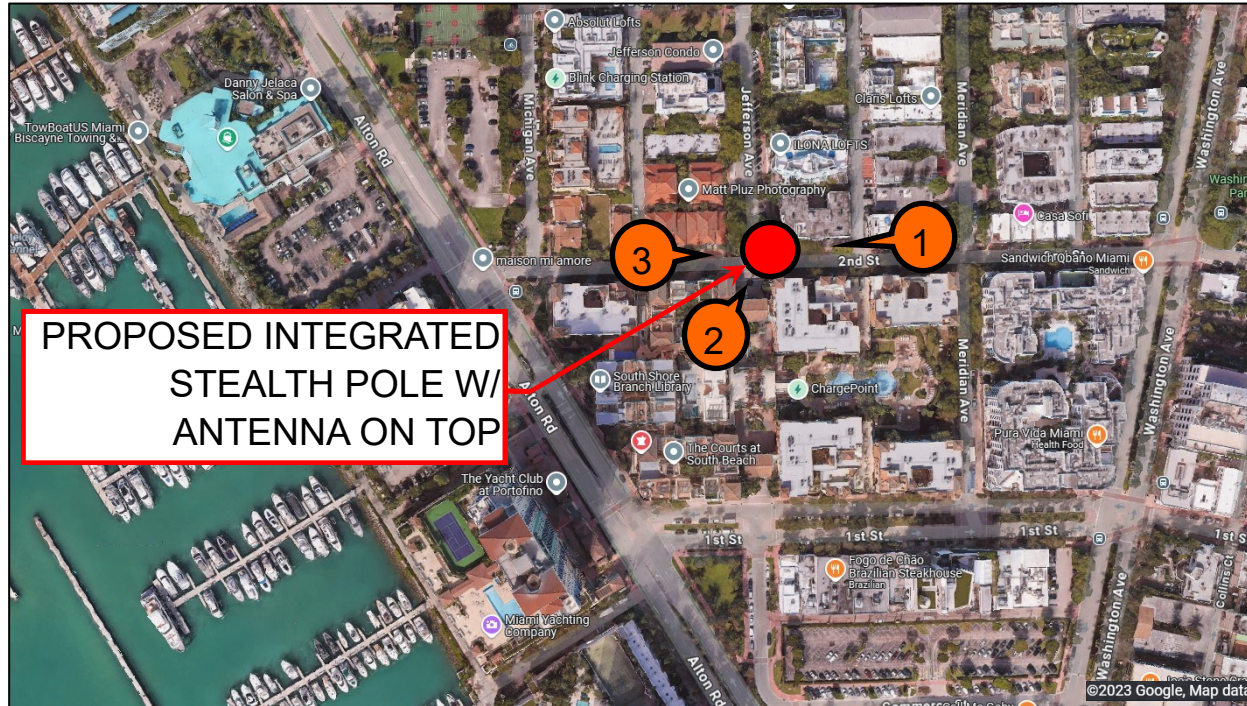
887 2nd Street, Miami Beach FL 33139





# NEW SITE BUILD

887 2ND STREET, MIAMI BEACH, FL 33139  
FL6440BA

25.771170, -80.136900



## LEGEND

-  SITE LOCATION
-  VIEW DIRECTION



**NEW SITE BUILD**

**887 2ND STREET, MIAMI BEACH, FL 33139  
FL6440BA**

**25.771170, -80.136900**

**VIEW 1**



**VIEW: BEFORE**



**VIEW: AFTER**

**NEW SITE BUILD**

**887 2ND STREET, MIAMI BEACH, FL 33139  
FL6440BA**

**25.771170, -80.136900**

**VIEW 2**



**VIEW: BEFORE**



**PROPOSED INTEGRATED  
STEALTH POLE W/  
ANTENNA ON TOP**

**VIEW: AFTER**

**NEW SITE BUILD**

**VIEW 3**

**887 2ND STREET, MIAMI BEACH, FL 33139  
FL6440BA**

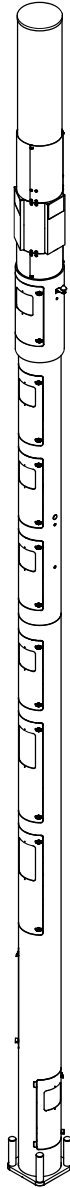
**25.771170, -80.136900**



**VIEW: BEFORE**



**VIEW: AFTER**



# Raycap

7555-A PALMETTO COMMERCE PARKWAY

NORTH CHARLESTON, SC 29420 USA

P: (800)-755-0689 / F: (843)-207-0207

WWW.RAYCAP.COM

PROJECT MANAGER: DANIEL ROBERTS; 843-574-9675

## FINAL ENGINEERING

### CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL

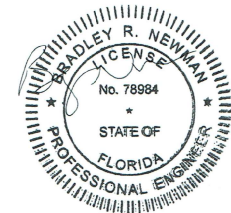
RAYCAP #: CC20-00029W-05R0

#### DRAWING INDEX

T1	TITLE SHEET
N1-N2	NOTES & SPECIFICATIONS
S1-S3	ASSEMBLY - ELEVATIONS
S4	FOUNDATION DETAILS

Bradley Newman

Digitally signed by Bradley Newman  
DN: CN=Bradley Newman,  
E=newman@nbcllc.com,  
G=Bradley, SN=Newman,  
C=US  
Date: 2025.06.11  
19:05:42-04'00'



This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

**NB+C**  
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.

6095 MARSHALEE DRIVE, SUITE 300  
ELK RIDGE, MD 21075  
410-712-7092

T1

REVISION

06/05/2025

B

**GENERAL**

- THIS PRODUCT IS SOLD PURSUANT TO RAYCAP, INC. TERMS AND CONDITIONS, WHICH ARE INCORPORATED HEREIN BY REFERENCE.
- THESE SHALL APPLY FOR ALL CASES UNLESS NOTED OTHERWISE (U.N.O.).
- ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
- IN THE CASE WHERE DIMENSIONS CONTAINED WITHIN ARE LABELED TO BE VERIFIED IN FIELD (V.I.F.), THEY MUST BE FIELD VERIFIED AND/OR CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
- IN THE CASE THAT THE PROPOSED IS TO BE PLACED ON AN EXISTING STRUCTURE, THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE TELECOM STRUCTURE OUTLINED WITHIN. THE EXISTING STRUCTURE, WHETHER IT BE A FOUNDATION, POLE, OR BUILDING (IF APPLICABLE) SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW RAYCAP STRUCTURE SHOWN ON THE DRAWINGS.
- TELECOM PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. RAYCAP IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
- NOTES FOR CONTRACTOR/INSTALLER: ALL BIDS FOR THE INSTALLATION/ERECTION OF THIS PRODUCT SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING MINIMUM REQUIRED TRADES: RIGGING, STEEL ERECTION, STEEL FABRICATION/MODIFICATION, WELDING, ELECTRICAL, CONCRETE, EXCAVATION AND WATERPROOFING. CONTRACTOR MAY, IN CONTRACTOR'S SOLE AND ABSOLUTE DISCRETION, DETERMINE ADDITIONAL TRADES ARE NECESSARY TO INSTALL/ERECT THE PRODUCT.
- THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED, THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
- PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.
- CONTRACTOR TO SHIM BASE PLATES AND MATING FLANGES AS REQUIRED TO ENSURE LEVEL SURFACE.

**STRUCTURAL STEEL AND ALUMINUM**

- STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL AND SPECIFICATIONS.
- STEEL I-SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL PLATE MEMBERS SHALL CONFORM TO MINIMUM ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- STEEL PIPE AND ROUND TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (42 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL RECTANGULAR AND SQUARE TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL WIDEFLANGE MEMBERS SHALL CONFORM TO ASTM A992 (50 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- STEEL TAPERED POLES SHALL CONFORM TO ASTM A572 GR50 FOR 11 GA AND ASTM A572 GR65 FOR .188" and .25" WALL THICKNESS.
- ALUMINUM PLATE MEMBERS SHALL BE GRADE 5052-H34, EXCEPTION FOR 3/4" OR THICKER UNBENT MEMBERS TO BE GRADE 6061-T6.
- ALUMINUM PIPE TO BE GRADE 6061-T6.
- ALUMINUM TAPERED POLES TO BE GRADE 6063-T6.
- ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 SPECIFICATIONS, U.N.O. A325N AND A325X ALLOWED. ALL BOLTS ARE RECOMMENDED TO BE ORIENTED WITH THREADS UP AND OUT UNLESS SITE SPECIFIC CONDITIONS WARRANT OTHERWISE.
- STRUCTURAL BOLTS SHALL BE TIGHTENED PER THE "TURN OF THE NUT" METHOD.
- STRUCTURAL BOLT HOLE EDGE DISTANCES SHALL BE PER AISC SECTION J3.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL, AWS D1.2 FOR ALUMINUM AND AWS D1.6 FOR STAINLESS STEEL. STEEL WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODE. ALUMINUM WELDS SHALL UTILIZE 4043 FILLER OR APPROVED ALTERNATIVES. VERIFY FILLER MATERIAL IS COMPATIBLE WITH BASE METAL FOR EACH WELDED JOINT.
- UNCOATED STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
- STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM F2329, U.N.O.
- AFTER ANY FIELD HOLE PUNCHING / DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, THE GALVANIZING MUST BE REPAIRED ACCORDING TO ASTM A780.
- ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED OR TAGGED ONTO THE PART OR ASSEMBLY. IF WELDED, THE PART NUMBERS SHOULD BE LOCATED CONSISTENTLY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.
- DISSIMILAR METALS IN CONTACT SHALL BE INSULATED WITH PAINT OR OTHER APPROVED COATING TO PREVENT GALVANIC CORROSION.

**DISCLAIMERS:**

- ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
- SOME TELECOMMUNICATION STRUCTURES ARE SUSCEPTIBLE TO WIND-INDUCED OSCILLATIONS. OSCILLATIONS MAY OCCUR AT LOW OR MODERATE WIND SPEEDS AND MAY CAUSE STRUCTURAL DAMAGE. TIA PROVIDES NO PRACTICAL ANALYTICAL METHOD TO PREDICT AND PREVENT WIND-INDUCED STRUCTURAL OSCILLATIONS. RAYCAP, INC. RECOMMENDS FREQUENT MONITORING TO IDENTIFY WIND-INDUCED OSCILLATION AND REGULAR CONDITION ASSESSMENTS TO IDENTIFY FATIGUE CRACKING, LOOSE OR MISSING BOLTS, AND ANY OTHER STRUCTURAL DEFECTS. ANY OSCILLATION OR DEFECTS OBSERVED SHALL BE IMMEDIATELY REPORTED TO RAYCAP, INC. FOR FURTHER EVALUATION AND POSSIBLE REPAIRS OR MODIFICATIONS WHICH MAY BE REQUIRED AT THE OWNERS EXPENSE.
- WHERE EFFECTIVE PROJECTED AREAS (EPA) ARE USED, IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY INSTALLED EQUIPMENT DOES NOT EXCEED LISTED EPA.

**SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:**

- STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. ALTERNATIVELY, SPECIAL INSPECTION OF MATERIALS, WELDING, AND FABRICATION PROCEDURES SHALL BE REQUIRED FOR FABRICATION BY AN UNAPPROVED FABRICATOR.
- NO FIELD WELDING SHALL BE PERMITTED.
- THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
  - A. SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING (WHEN APPLICABLE):
    - I. PERIODIC SPECIAL INSPECTION IF BOLTS ARE PRE-TENSIONED WITH MATCH-MARKING TECHNIQUES.
    - II. CONTINUOUS SPECIAL INSPECTION OF ALL OTHER HIGH-STRENGTH BOLTING.
  - B. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
- NO STRUCTURAL OBSERVATION IS REQUIRED.

**FRP**

- FRP STRUCTURAL SHAPES SHALL BE BEDFORD FRP SERIES 1525, MANUFACTURED USING THE PULTRUSION PROCESS
- IF PREFABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT RAYCAP, INC. BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
- FRP STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
- FRP BOLTS SHOULD BE TIGHTENED 1/2 TURN PAST SNUG AND LOCKED WITH EPOXY.
- FRP OR STEEL BOLTS THROUGH FRP MEMBERS SHALL MEET THE FOLLOWING SPACING AND EDGE DISTANCE REQUIREMENTS, MEASURED FROM BOLT CENTERS:
  - MIN. BOLT SPACING = 4 TIMES BOLT DIA
  - MIN. EDGE DIST = 3 TIMES BOLT DIA, IN DIRECTION OF PULTRUSION
  - MIN. EDGE DIST = 2 TIMES BOLT DIA, PERPENDICULAR TO DIRECTION OF PULTRUSION

**DESIGN NOTES:**

STRUCTURAL DESIGN IS BASED ON THE 2023 FBC WITH 2021 IBC CODE & ANSITIA-222-H

**SITE LOCATION:**

MIAMI, FL

**DESIGN LOADS:**

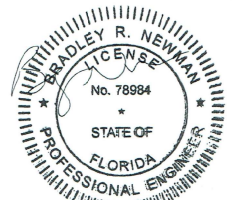
WIND:  
 ULTIMATE WIND SPEED: 175 MPH (3-SEC GUST)  
 RISK CATEGORY: II  
 EXPOSURE: D

**SEISMIC:**

IMPORTANCE FACTOR: 1.0  
 RISK CATEGORY: II  
 SITE CLASS: D  
 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.048g S1 = 0.02g  
 SEISMIC DESIGN CATEGORY: A  
 SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.043g Sd1 = 0.029g

**COLUMN REACTIONS:**

SHEAR REACTION: V= 3.3 kips  
 AXIAL REACTION: R= 8.66 kips  
 MOMENT: M= 74.4 kips-ft



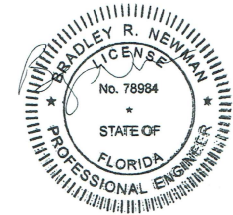
This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

DRAWN	DSP	<b>Raycap</b> 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA
DESIGNED	ARS	
REVISED	NB+C	
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  TOLERANCES: DECIMAL: X ± 0.1 XX ± 0.116 .XX ± 0.03 .XXX ± 0.01 ANGLES ± 5°  ALL BENDING TOLERANCES: ± 1.0°  THIRD ANGLE PROJECTION		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL
		SHEET #      REVISION <b>N1</b> <b>B</b>
		NOTES & SPECIFICATIONS RAYCAP #CC20-00029W-05R0      DATE: 06/05/2025
PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP, INC. ALL RIGHTS RESERVED		


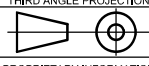


REVISION TABLE

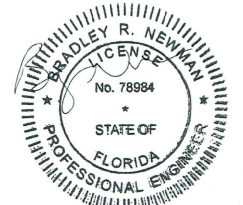
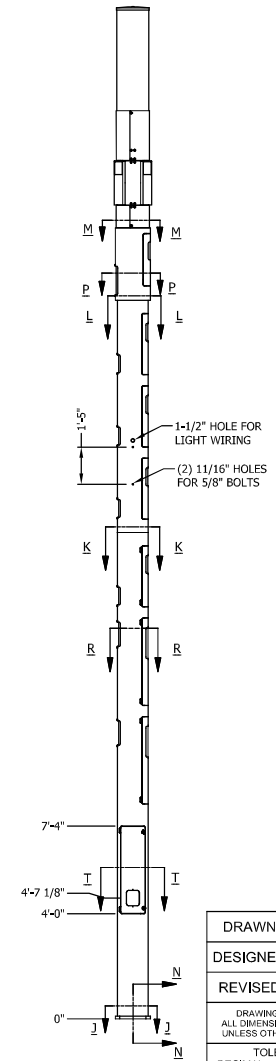
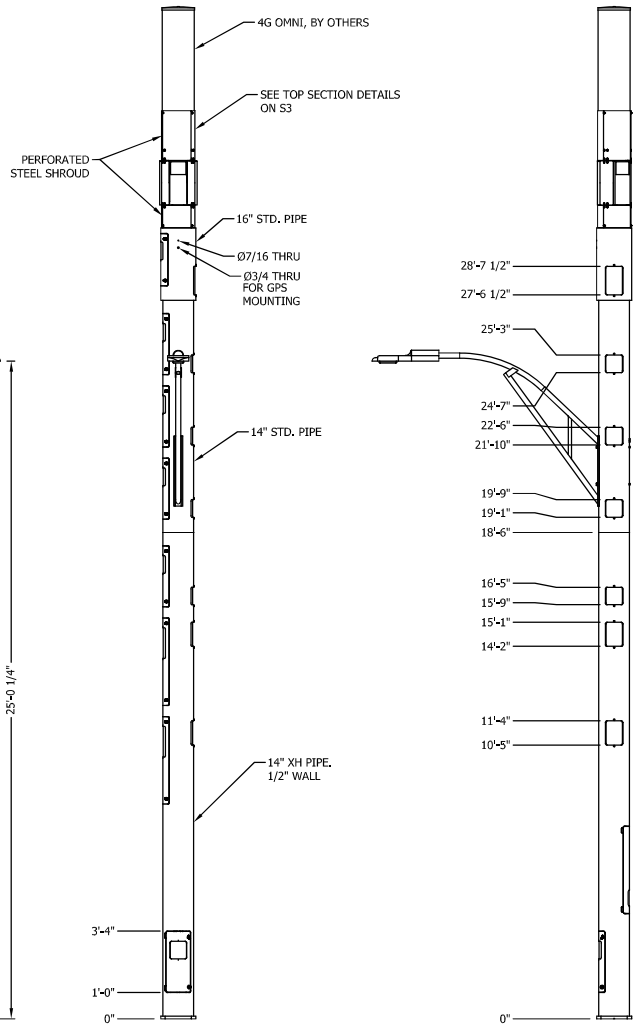
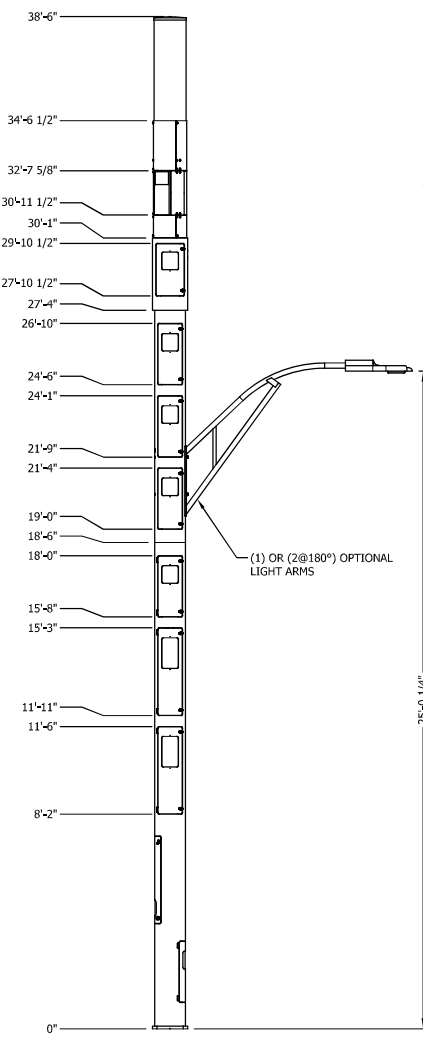
REVISION	DESIGNER	DATE	SCOPE OF REVISION
A	NB+C	02/12/2020	FINAL ENGINEERING
B	NB+C	06/05/2025	REVISED FINAL ENGINEERING



This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

DRAWN	DSP	 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA			
DESIGNED	ARS				
REVISED	NB+C				
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	SHEET #	REVISION	
TOLERANCES: DECIMAL: FRACTIONAL: .X ±0.1    .XX ± 1/16 .XX ±0.03 .XXX ±0.01 ANGLES ±5°			NOTES & SPECIFICATIONS	N2	B
ALL BENDING TOLERANCES: ± 1.0°				RAYCAP #CC20-00029W-05R0	DATE: 06/05/2025
THIRD ANGLE PROJECTION 		PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP, INC. ALL RIGHTS RESERVED			

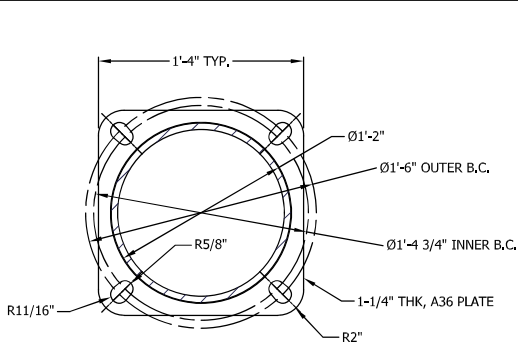




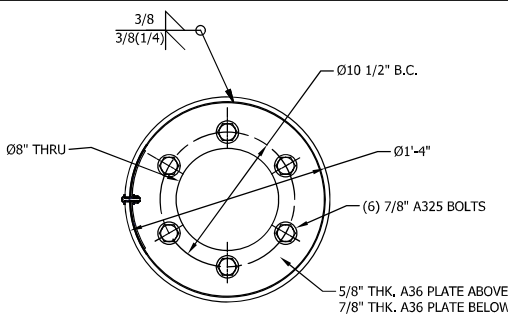
This item has been electronically signed and sealed by Bradley Newman, P.E. on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

DRAWN	DSP	<b>Raycap</b> 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	SHEET #	REVISION	
DESIGNED	ARS			ASSEMBLY - ELEVATIONS	S1	B
REVISED	NB+C					
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		RAYCAP #CC20-00029W-05R0				
TOLERANCES: DECIMAL: X ± 0.1 .XX ± 0.03 .XXX ± 0.01 ANGLES ± .5°		PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED.				
ALL BENDING TOLERANCES: ± 1.0°						
THIRD ANGLE PROJECTION						

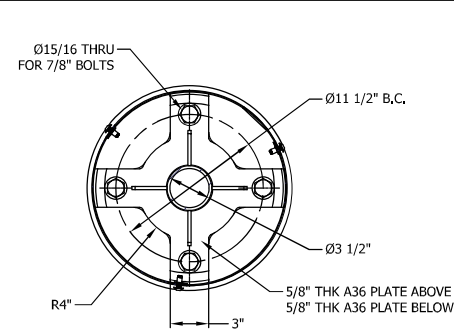
**NB+C**  
TOTALLY COMMITTED.  
NB+C ENGINEERING SERVICES, LLC.  
6000 MARSHALLS LANE, SUITE 300  
SILVER SPRING, MD 21157  
410-712-7592



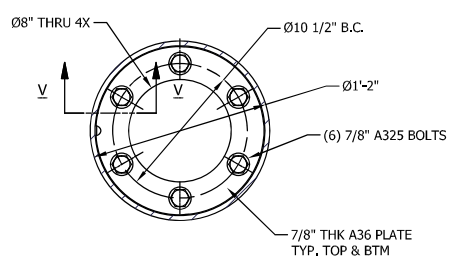
SECTION J-J  
BASE PLATE  
0'0" AGL



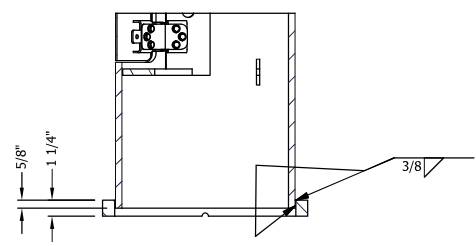
SECTION L-L  
INTERNAL FLANGE  
27'4" AGL



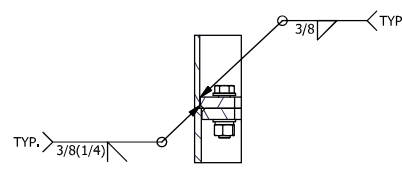
SECTION M-M  
INTERNAL FLANGE 30'1" AGL



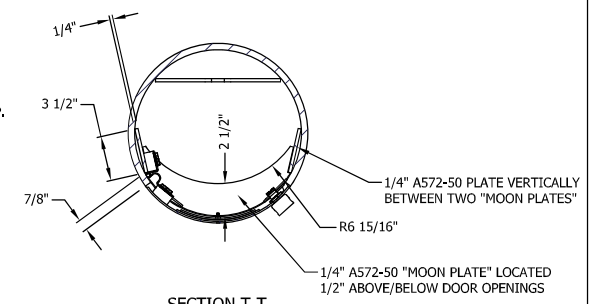
SECTION K-K  
INTERNAL FLANGE  
18'6" AGL



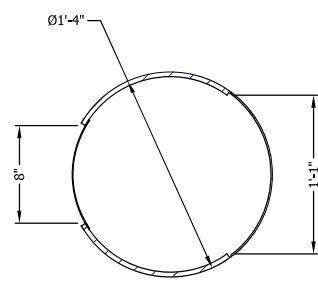
SECTION N-N  
BASE PLATE WELD DETAIL



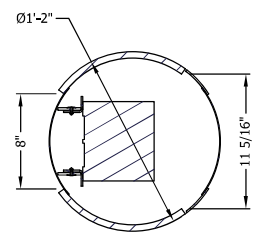
SECTION V-V  
INTERNAL FLANGE  
WELD DETAIL, TYP.



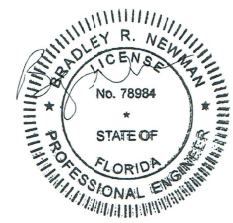
SECTION T-T  
PIPE OPENING REINFORCEMENT  
TYP. BOTTOM (3) DOORS



SECTION P-P  
PIPE OPENING DETAIL  
TYP. (1) LOCATION



SECTION R-R  
PIPE OPENING DETAIL

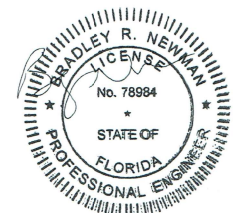
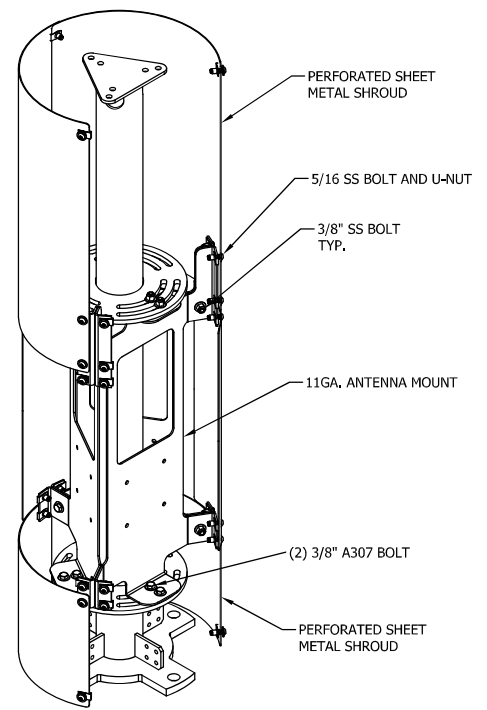
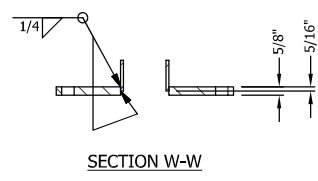
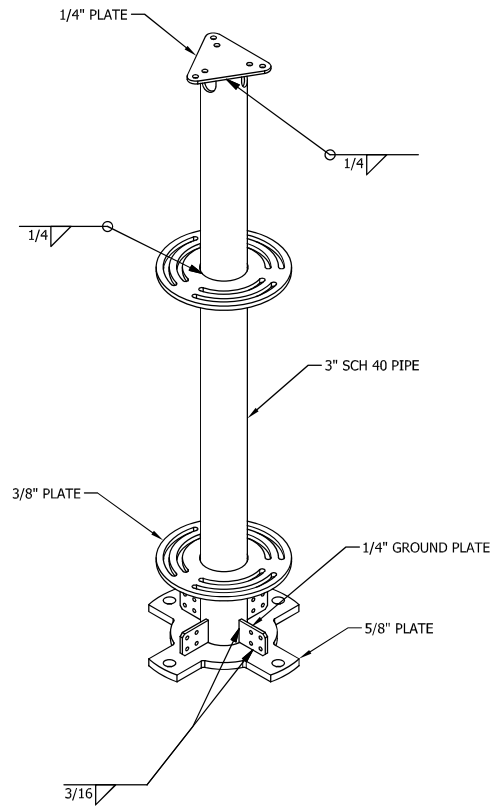
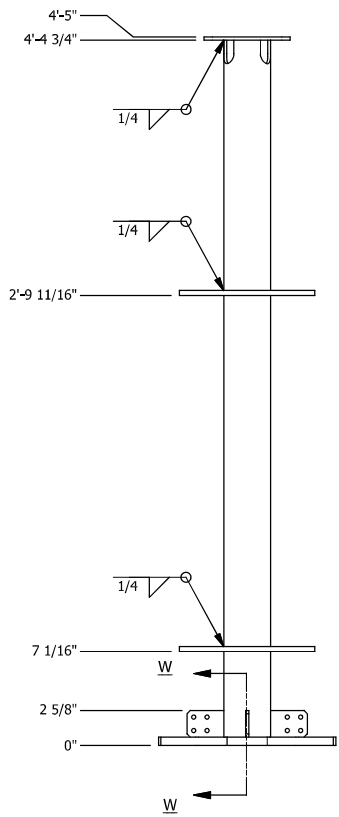
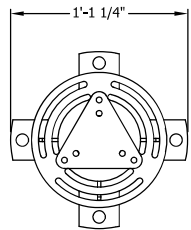


This item has been electronically signed and sealed by Bradley Newman, P.E. on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.



NB+C ENGINEERING SERVICES, LLC.  
6065 MARSHALEE DRIVE, SUITE 306  
ELKHART, IN 47715  
317-732-7002

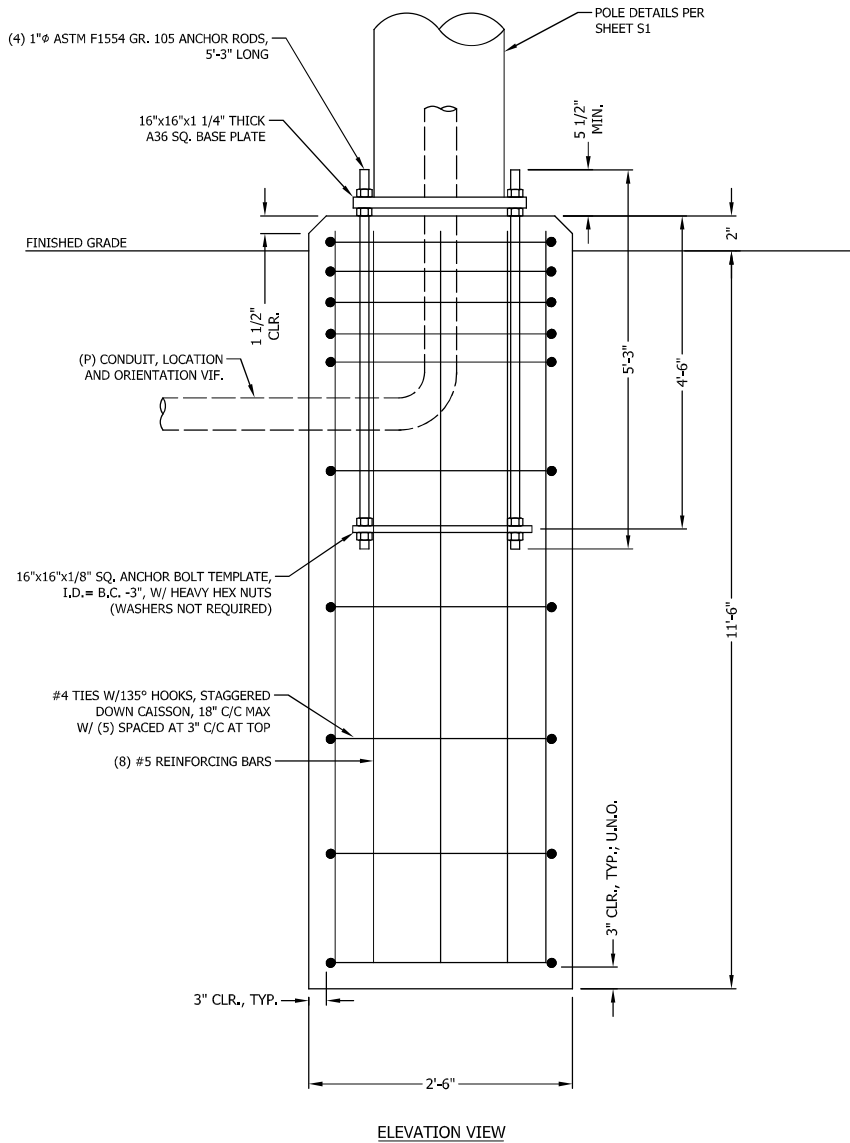
DRAWN	DSP	 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	
DESIGNED	ARS		
REVISED	NB+C		
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	
TOLERANCES: DECIMAL: .X ±0.1 .XX ±0.03 .XXX ±0.01 FRACTIONAL: XIX ± 1/16 ANGLES ±5°		SHEET # <b>S2</b>	
ALL BENDING TOLERANCES: ± 1.0° THIRD ANGLE PROJECTION		REVISION <b>B</b>	
		ASSEMBLY - ELEVATIONS	
RAYCAP #CC20-00029W-05R0		DATE: 06/05/2025	
PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED			



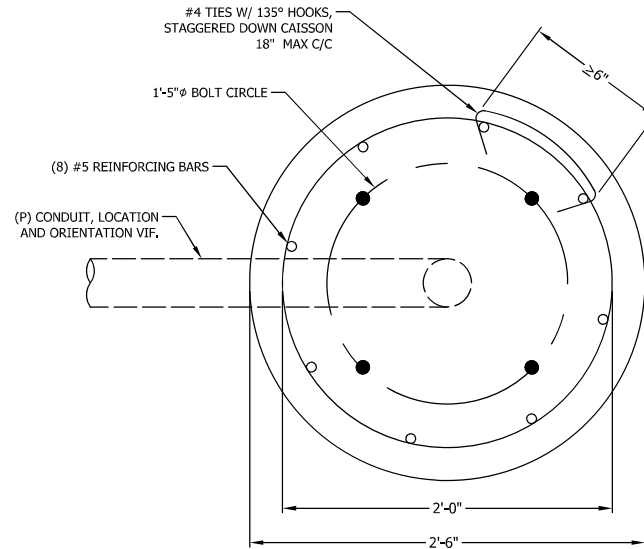
This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.



DRAWN	DSP	<b>Raycap</b> 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA		
DESIGNED	ARS			
REVISED	NB+C			
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL		
TOLERANCES: DECIMALS: .X ±0.1 .XX ±0.03 .XXX ±0.01 FRACTIONAL: XIX ± 1/16 ANGLES ±5°		<b>ASSEMBLY - ELEVATIONS</b>	SHEET #	REVISION
ALL BENDING TOLERANCES: ± 1.0°			<b>S3</b>	<b>B</b>
THIRD ANGLE PROJECTION		RAYCAP #CC20-00029W-05R0	DATE: 06/05/2025	
PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED				



ELEVATION VIEW



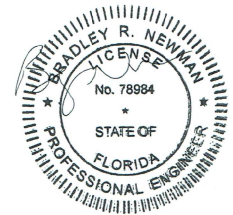
PLAN VIEW

**FOUNDATION NOTES:**

1. ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE SHALL BE AIR ENTRAINED (6± 1.5%) CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATION OF 0.50, CONCRETE SHALL HAVE A SLUMP OF 5" (±1). ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318-14. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS" LATEST EDITION.
2. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A-615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE IN THIS DRAWING.
3. INSTALLATION OF DRILLED PIERS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.
4. ANCHOR RODS SHALL CONFORM W/ ATSM F1554 GR. 105 GALVANIZED U.N.O.

135° HOOK TIES TO ENGAGE VERTICAL REBAR

135° HOOK TO BE 3" MINIMUM LENGTH



This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

DRAWN	DSP	<b>Raycap</b> 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	
DESIGNED	ARS		
REVISED	NB+C		
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	
TOLERANCES: DECIMAL: X ±0.1 FRACTIONAL: XX ±1/16 .XX ±0.03 .XXX ±0.01 ANGLES ±5°			
ALL BENDING TOLERANCES: ± 1.0"		FOUNDATION DETAILS	
THIRD ANGLE PROJECTION			
		SHEET #	
		REVISION	
		S4	B
RAYCAP #CC20-00029W-05R0		DATE: 06/05/2025	
<small>PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY &amp; CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED</small>			

