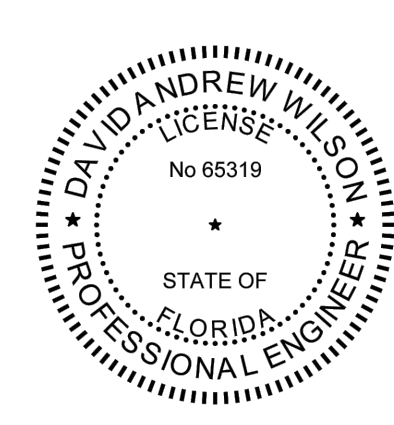


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SARASOTA COUNTY  
PUBLIC UTILITIES  
DEPARTMENT

HOME DEPOT MPS  
AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	BY

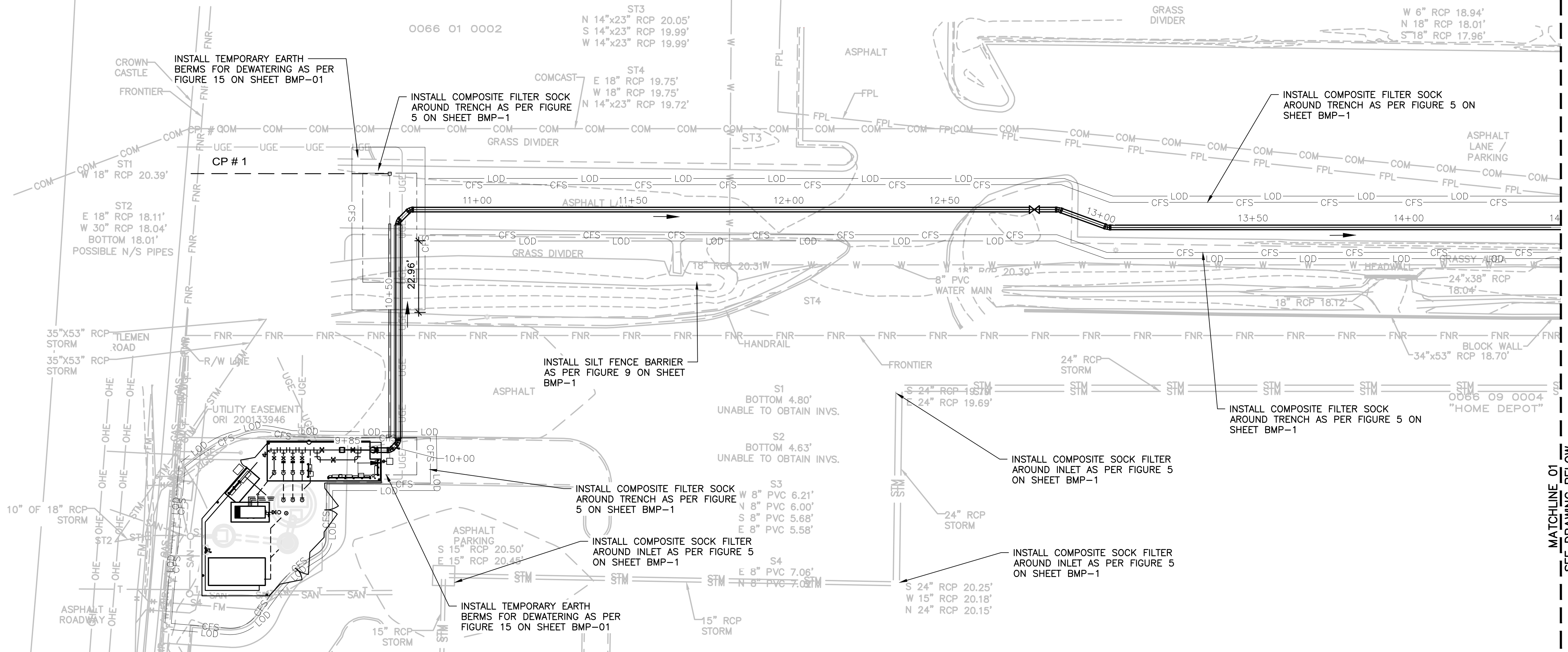
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2024

DATE:	OCTOBER 2025
PROJECT NO.:	30036073
FILE NAME:	BMP-03
DESIGNED BY:	ARPITA MEHER
DRAWN BY:	SHIVAKUMAR
CHECKED BY:	DAVID WILSON

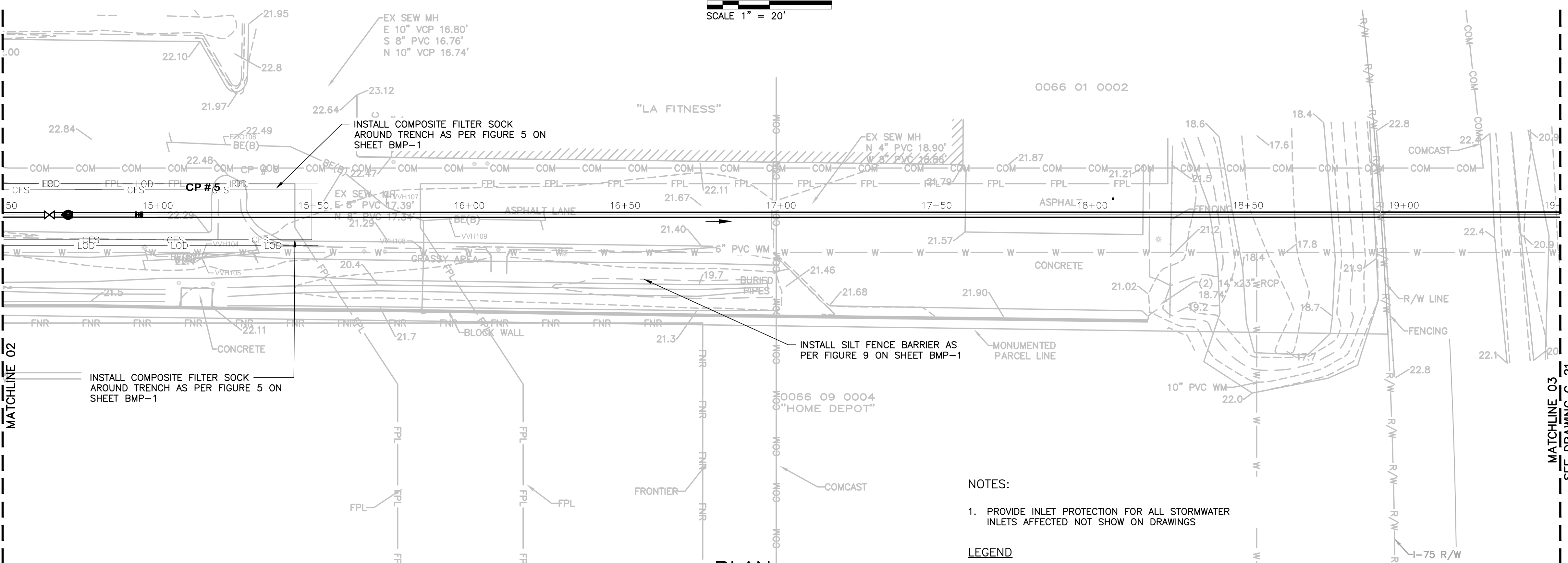
SHEET TITLE  
CIVIL

**BEST MANAGEMENT  
PRACTICES STATION  
10+00 TO 19+50**

SCALE: AS SHOWN



**PLAN**  
SCALE 1" = 20'



**PLAN**  
SCALE 1" = 20'

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

**LEGEND**

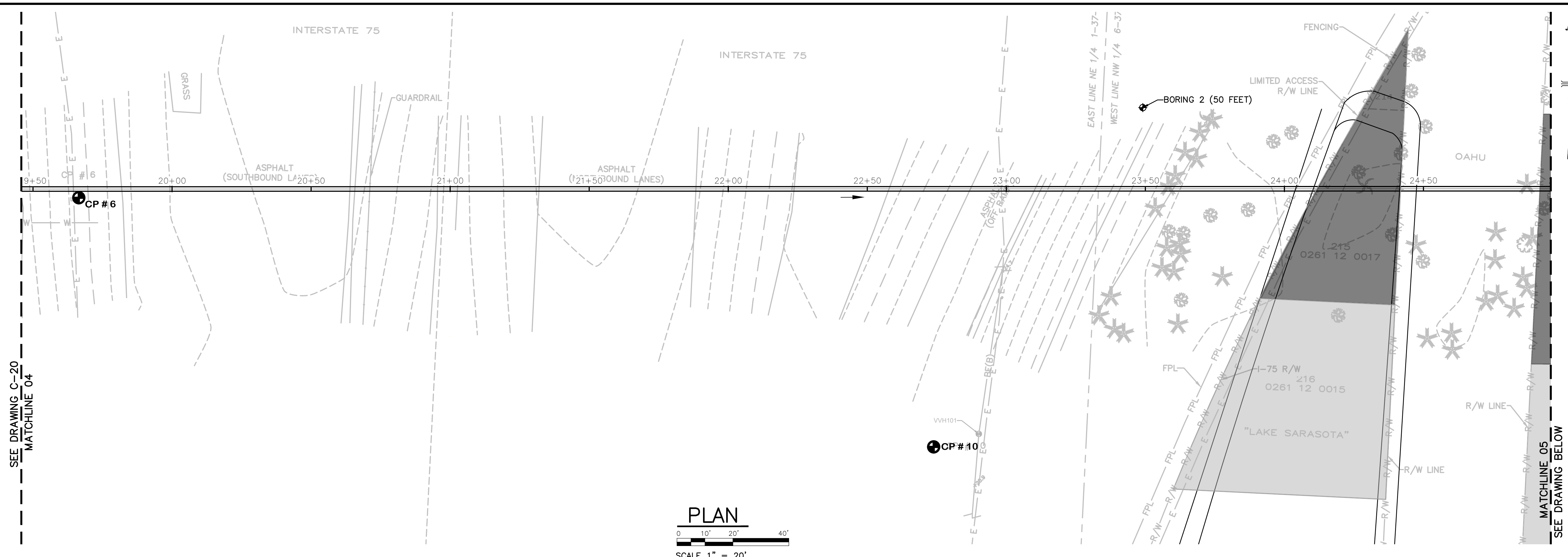
— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

SEE DRAWING ABOVE  
MATCHLINE 02

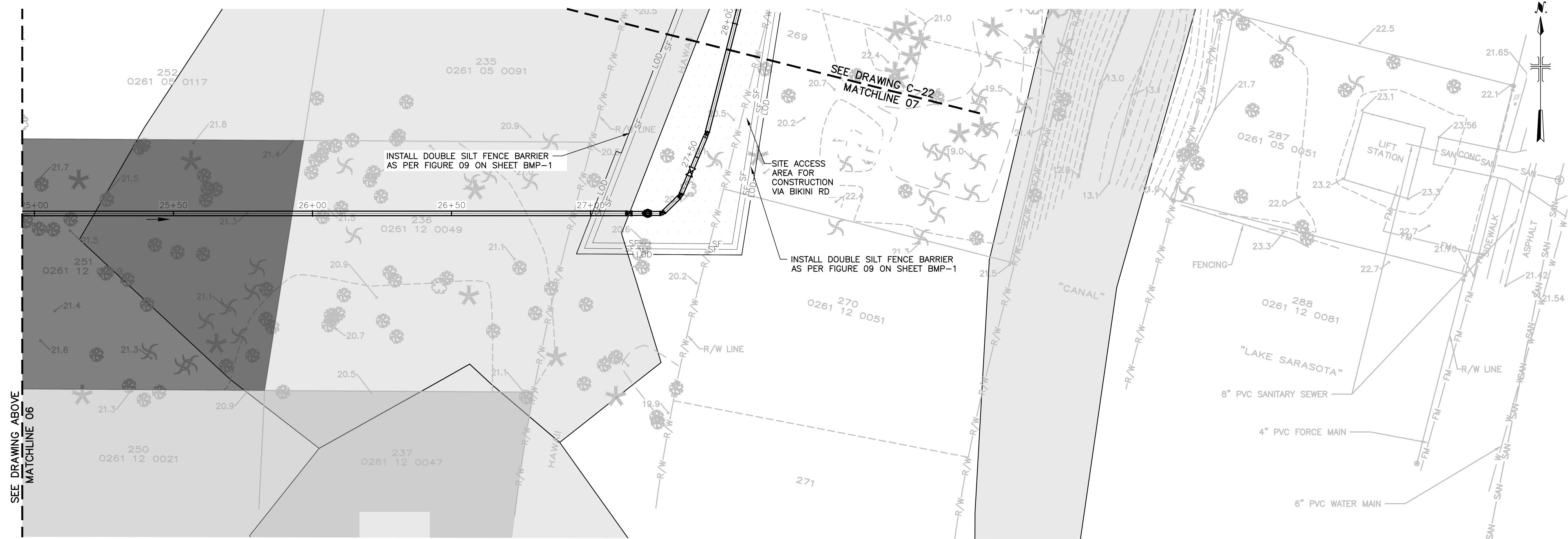
MATCHLINE 01  
SEE DRAWING BELOW

MATCHLINE 03  
SEE DRAWING C-21

User: J05HYC4656 Spec: AUS-NCSMOD File: C:\USERS\J05HYC4656\DC\ACCDCCS\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM PROJECT FILES\0\_MIP\CIVIL\BMP SHEETS\BMP-04.DWG Scale: 1:1 Saved: 10/29/2025 10:29:2025 Time: 17:26 Plot Date: Jobby, Chaitra: 10/29/2025 18:45 ; Layout: C-08



**PLAN**  
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SCALE 1" = 20'



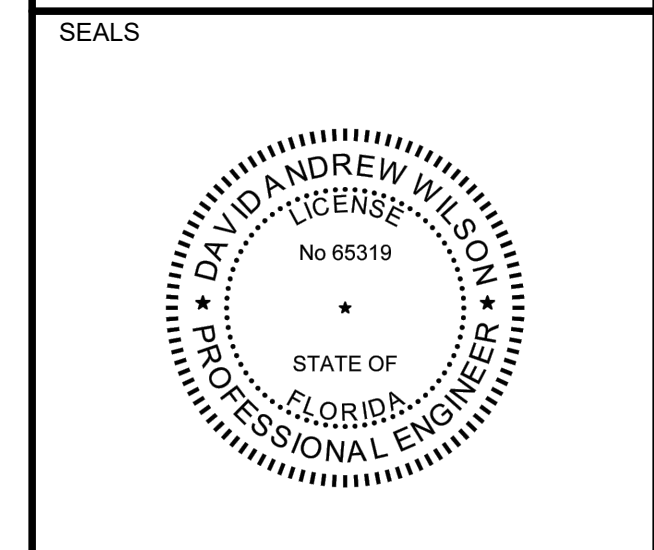
**PLAN**  
0 10' 20' 40'  
SCALE 1" = 20'

- LEGEND**
- LOD — LIMITS OF DISTURBANCE
  - CFS — COMPOSITE SOCK FILTER
  - SF — SILT FENCE

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS



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DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: BMP-04  
DESIGNED BY: ARPITA MEHER  
DRAWN BY: SHIVAKUMAR  
CHECKED BY: DAVID WILSON

SHEET TITLE  
CIVIL

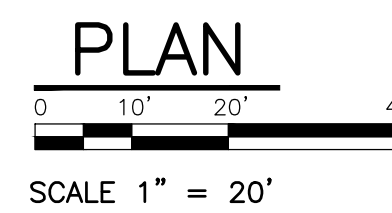
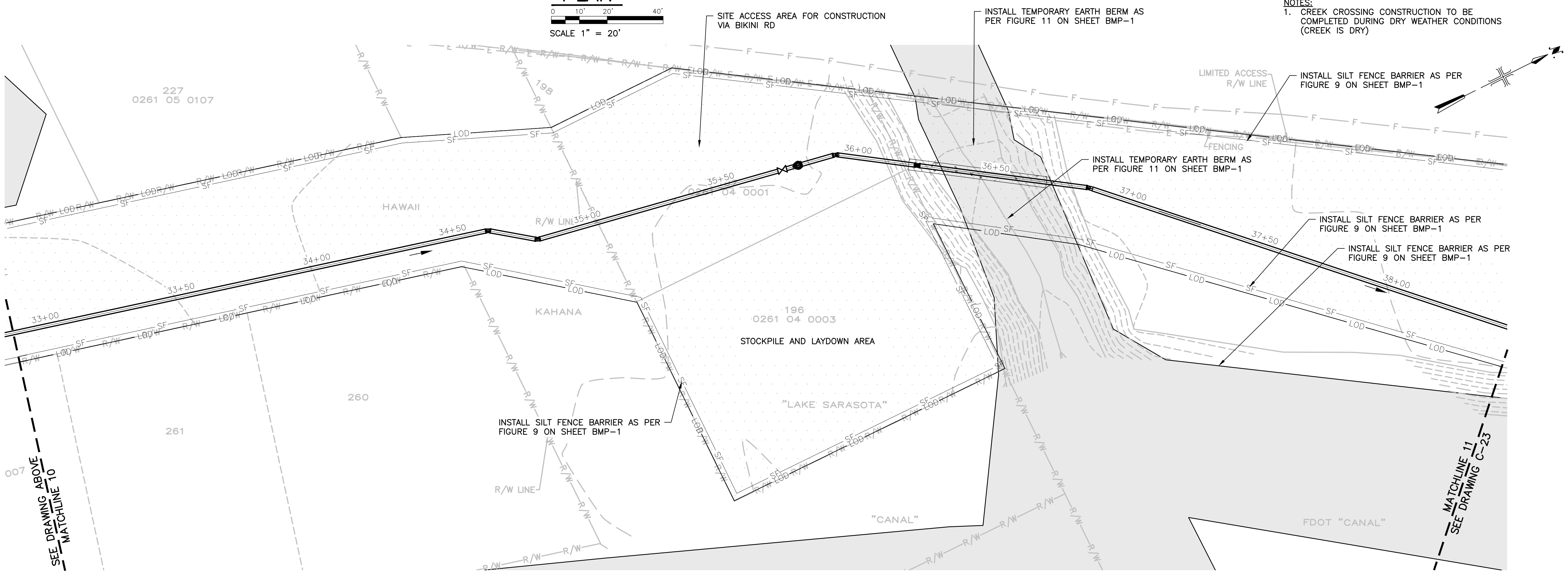
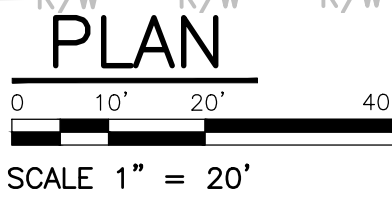
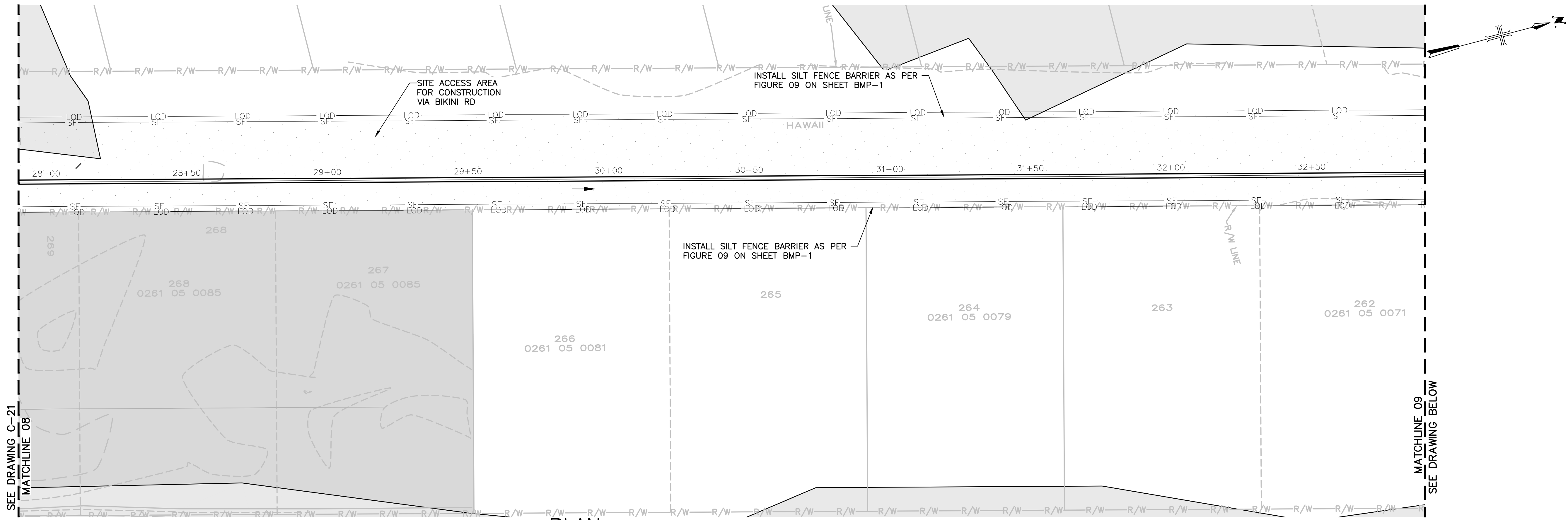
**BEST MANAGEMENT PRACTICES STATION  
19+50 TO 28+00**

SCALE: AS SHOWN

BMP-04  
SHEET 27 OF 28

Approved  
Mark A. Brown  
10/30/2025

User: J05HYC4656 Spec: AUS-NCSMOD File: C:\USERS\J05HYC4656\DC\ACCDCS\ARCADIS\AUS-30036073-HOME DEPOT\_LS\_AND\_FM\PROJECT FILES\0\_MIP\CIVIL\BMP\_SHEETS\BMP-05.DWG Scale: 1:1 Saved Date: 10/29/2025 Time: 17:32 Plot Date: Jobby, Chaitra: 10/29/2025 18:45 ; Layout: C-10



**LEGEND**

— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

**NOTES:**

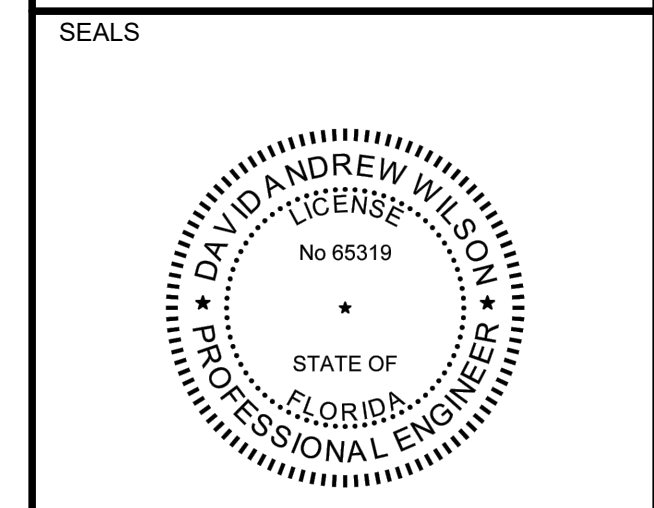
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS

**NOTES:**

1. CREEK CROSSING CONSTRUCTION TO BE COMPLETED DURING DRY WEATHER CONDITIONS (CREEK IS DRY)



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AND FM

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DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: BMP-05  
DESIGNED BY: ARPITA MEHER  
DRAWN BY: SHIVAKUMAR  
CHECKED BY: DAVID WILSON

SHEET TITLE

CIVIL

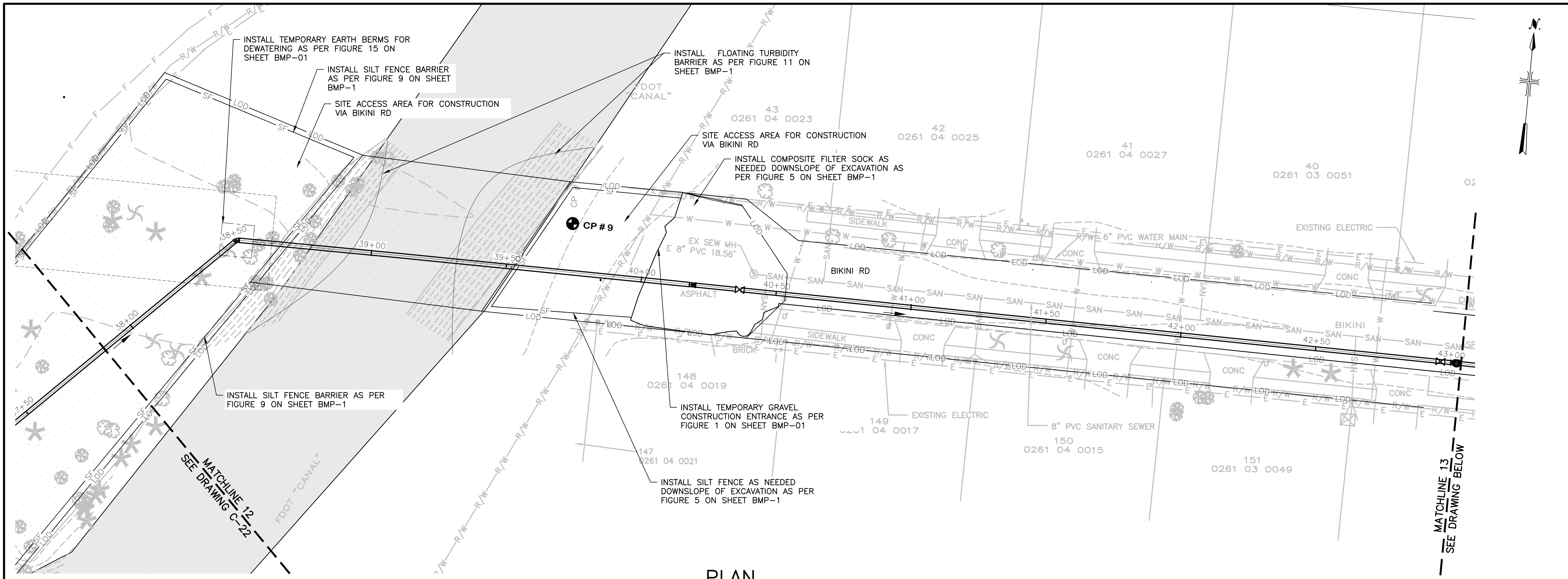
**BEST MANAGEMENT PRACTICES STATION 28+00 TO 37+50**

SCALE: AS SHOWN

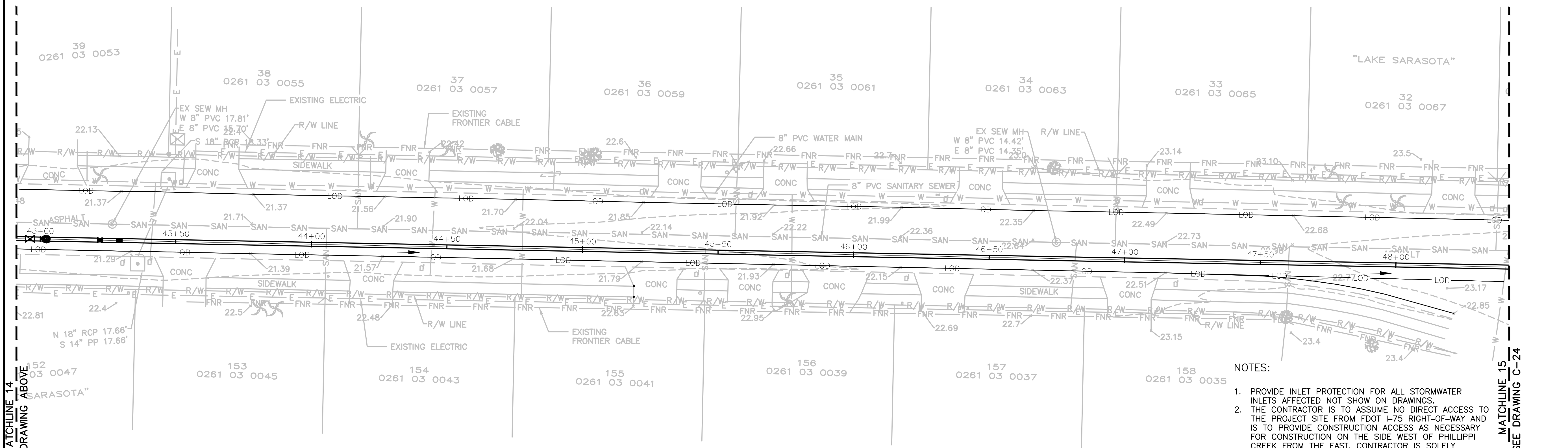
**BMP - 05**  
SHEET 28 OF 38

Approved  
Mark A. Brown  
10/30/2025

User: J05HYC4656 Spec: AUS-N53MOD File: C:\USERS\J05HYC4656\DCV\ACCDCCS\ARCADIS\AUS-30036073-HOME DEPOT\_LS AND FM\PROJECT FILES\DWG\BMP-SHEETS\BMP-06.DWG Scale: 1:1 Saved Date: 10/29/2025 Time: 18:07 Plot Date: Jeohy Chathra: 10/29/2025 19:09 : Layout: C-12



**PLAN**  
 0 10' 20' 40'  
 SCALE 1" = 20'



**PLAN**  
 0 10' 20' 40'  
 SCALE 1" = 20'

**LEGEND**

— LOD —	LIMITS OF DISTURBANCE
— CFS —	COMPOSITE SOCK FILTER
— SF —	SILT FENCE

- NOTES:**
1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS.
  2. THE CONTRACTOR IS TO ASSUME NO DIRECT ACCESS TO THE PROJECT SITE FROM FDOT I-75 RIGHT-OF-WAY AND IS TO PROVIDE CONSTRUCTION ACCESS AS NECESSARY FOR CONSTRUCTION ON THE SIDE WEST OF PHILLIPPI CREEK FROM THE EAST. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ALL MATERIALS AND NECESSARY APPURTENANCES, LABOR, AND PERMITTING EFFORTS (INCLUDE FEES) ASSOCIATED WITH THE MOVEMENT OF HEAVY EQUIPMENT AND MATERIALS FROM ONE SITE OF PHILLIPPI CREEK TO THE OTHER.

**Sarasota County**

---

CONSULTANTS

**ARCADIS**

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**VEITH ENGINEERING & BUSINESS SOLUTIONS**

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SEALS

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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: BMP-06

DESIGNED BY: ARPITA MEHER

DRAWN BY: SHIVAKUMAR

CHECKED BY: DAVID WILSON

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SHEET TITLE

CIVIL

**BEST MANAGEMENT PRACTICES STATION  
 37+50 TO 48+50**

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SCALE: AS SHOWN

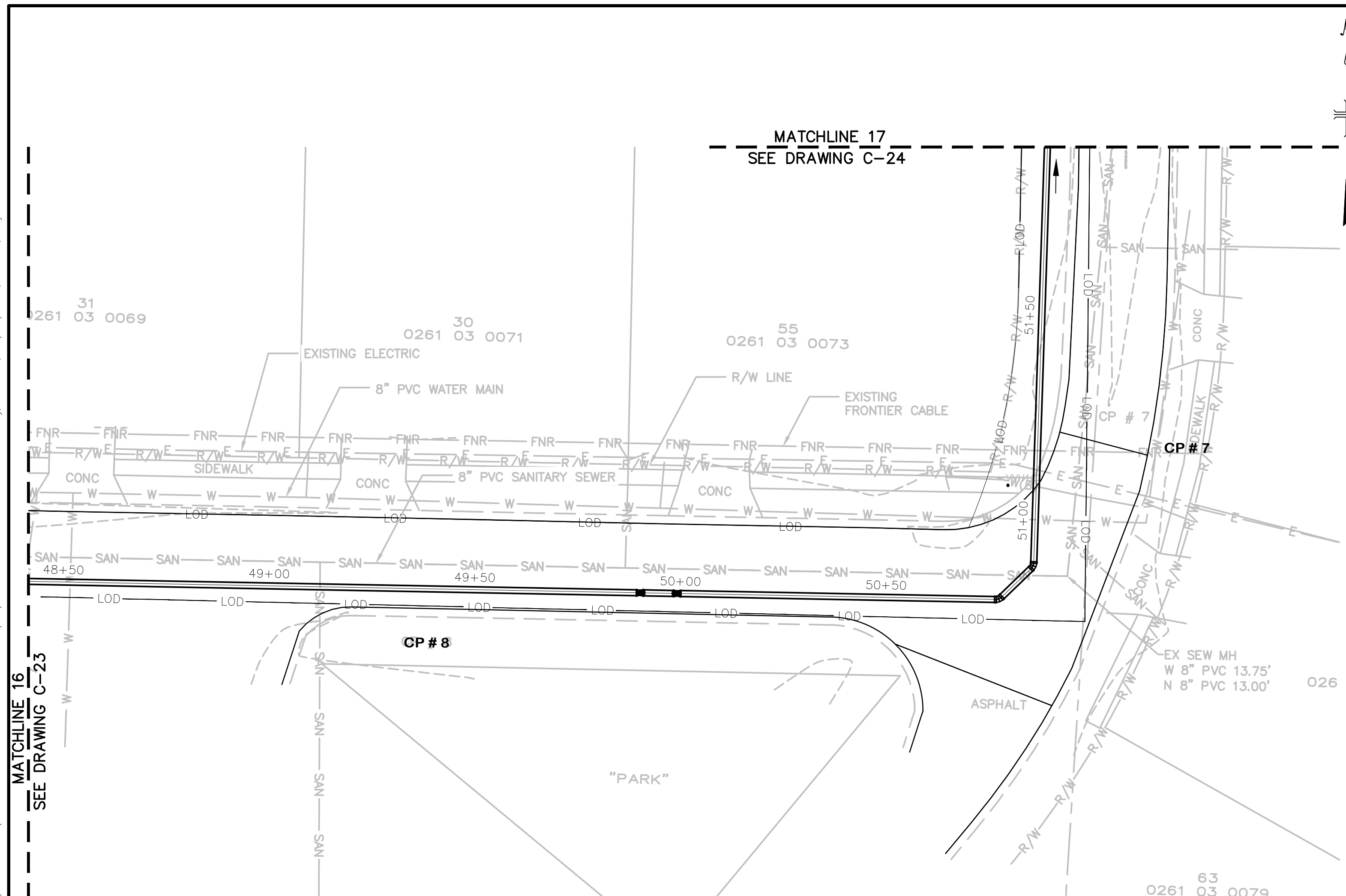
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BMP- 06

SHEET 29 OF 38

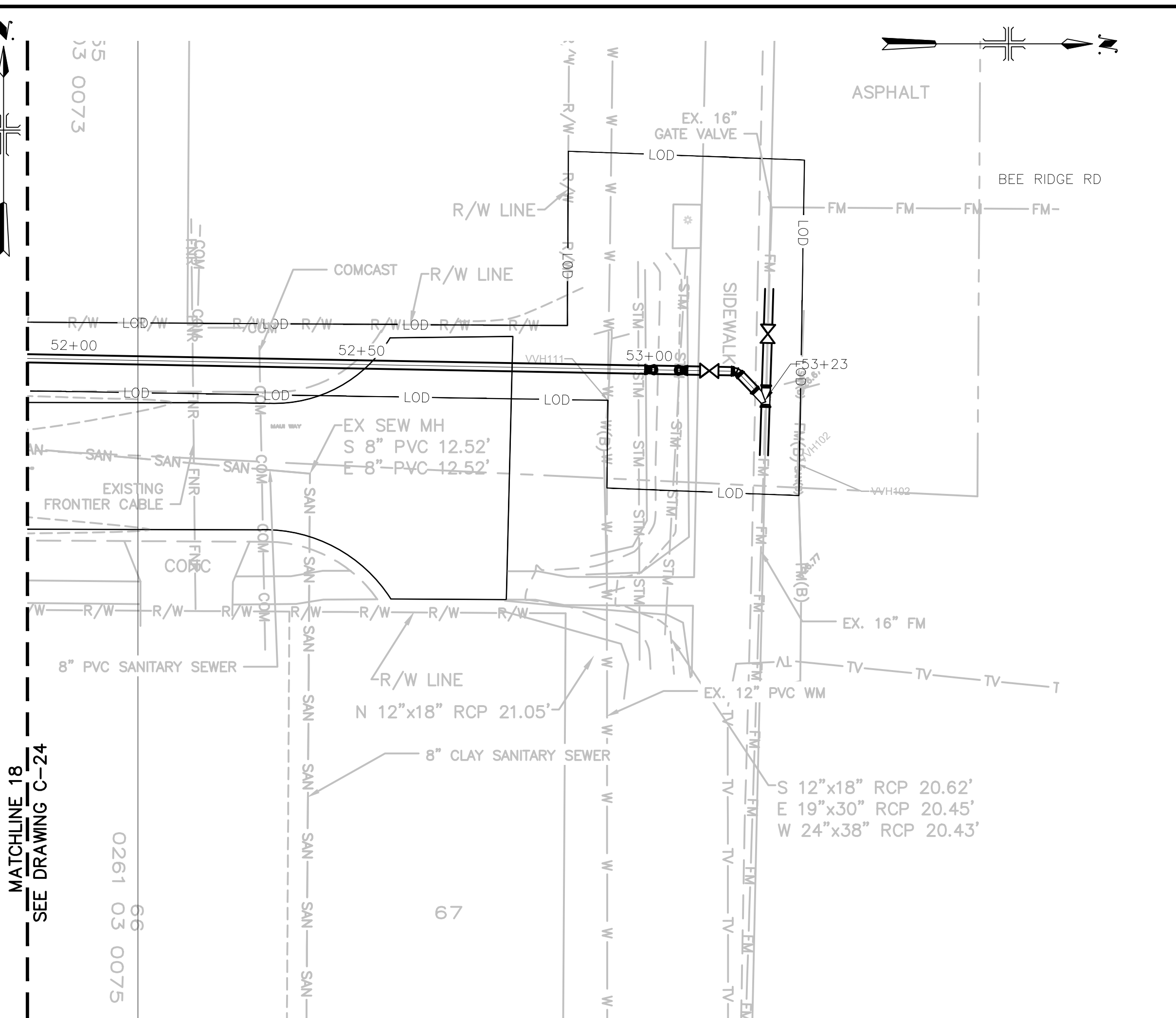
Approved  
 Mark A. Brown  
 10/30/2025

User: JOSHUYC4656 Spec: AUS-NC5M02 File: C:\USERS\JOSHUYC4656\DC\ACCDCS\ARCADIS\AUS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\DWG\BMP-SHEETS\BMP-07.DWG Scale: 1:1 SaveDate: 10/29/2025 Time: 17:53 Plot Date: Jeffrey Chhabra; 10/29/2025; 19:05; Layout: C-14



**PLAN**  
 0 10' 20' 40'  
 SCALE 1" = 20'

**LEGEND**  
 — LOD — LIMITS OF DISTURBANCE



**PLAN**  
 0 10' 20' 40'  
 SCALE 1" = 20'

**NOTES:**  
 1. PROVIDE INLET PROTECTION FOR ALL STORMWATER INLETS AFFECTED NOT SHOW ON DRAWINGS



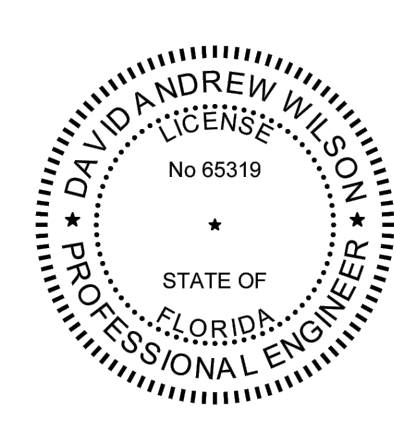
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 FILE NAME: BMP-07  
 DESIGNED BY: ARPITA MEHER  
 DRAWN BY: SHIVAKUMAR  
 CHECKED BY: DAVID WILSON

SHEET TITLE


CIVIL  
  
**BEST MANAGEMENT PRACTICES STATION**  
 48+50 TO 53+23

SCALE: AS SHOWN

BMP-07 Approved  
 SHEET 30 OF 38  
 2025 H-104-00313  
 Mark A. Brown  
 10/30/2025

10/29/2025 3:35:53 PM BIM 360://A US-30036073-Home Depot LS and FM/M-3D-SS\_IR21.rvt


1	2	3	4	5	6
GENERAL NOTES					
E	<p>1. INSTALL 6 INCHES OF COMPACTED 1 INCH, WASHED, CRUSHED SHELL OVER ONE LAYER OF WEED BARRIER OVER ALL EXPOSED GROUND SURFACES. ONE LAYER OF WEED BARRIER IS TO BE LAID AND EXTEND 4 FEET OUTSIDE OF THE FENCE LINE. THE WEED BARRIER SHALL BE MIRASCAPE MANUFACTURED BY MIRAFI OR APPROVED EQUAL. ALL FINISHED GRADE SURFACES SHALL SLOPE AWAY FROM THE CONCRETE SLABS AT A MINIMUM SLOPE OF 2%, EXTENDING 4 FEET OUTSIDE OF THE FENCE LINE. PRIOR TO INSTALLING THE WEED BARRIER, ALL DISTURBED GROUND SHALL BE COMPACTED TO 95% MAX DENSITY, AASHTO T-180, WITH A 4-POINT PROCTOR COMPACTION TEST TO BE PERFORMED WITHIN THE 4 FOOT AREA OUTSIDE OF THE FENCE LINE.</p> <p>2. ALL LIFT STATION DRIVEWAYS SHALL BE 6 INCH THICK CLASS I, MINIMUM 3000 PSI, FIBERMESH REINFORCED CONCRETE WITH 3 LBS/CY OF 100% VIRGIN POLYPROPYLENE COLLATED, FIBRILLATED FIBERS FROM FIBERMESH CO. OR EQUAL, EXTENDING FROM THE BACK OF THE CURB TO LESS THAN 1 FOOT (-1') INSIDE THE FENCE GATE OPENING. THE 14 FOOT WIDE DRIVEWAY SHALL ALIGN WITH THE CENTER OF THE FENCE GATE AND THE WET WELL. THE TOP 12 INCHES OF THE DRIVEWAY SUBGRADE SHALL BE SUBJECT TO A 4-POINT PROCTOR COMPACTION TEST COMPACTED TO 98% DENSITY, AASHTO T-180. MAXIMUM SLOPE SHALL NOT EXCEED 7% FOR ALL LIFT STATION DRIVEWAYS.</p> <p>3. HDPE DR-11 SHALL BE USED FOR ALL PIPING IN THE WETWELL THROUGH THE WET WELL WALL PENETRATION TO THE FIRST ABOVE GRADE 90 DEG BEND. ALL HDPE FITTINGS SHALL BE MOLDED, WHERE CONNECTIONS TO FLANGED PIPING, VALVES, AND FITTINGS SHALL BE MADE WITH HDPE FLANGE ADAPTERS. ALL DIP FITTINGS SHALL BE CLASS 53 FLANGED JOINT. ALL BURIED DIP AND FITTINGS SHALL BE CLASS 150 RESTRAINED MECHANICAL JOINT WITH A 1 MIL MINIMUM APPLICATION OF MANUFACTURER'S STANDARD ASPHALTIC BIT MASTIC COATING. ALL DIP AND FITTINGS USED ON THE LIFT STATION SITE SHALL BE LINED ON THE INTERIOR WITH A MINIMUM OF 40 MILS OF PROTECTO 401 CERAMIC EPOXY. ALL OTHER EXPOSED DIP FITTINGS SHALL BE COATED ON THE EXTERIOR WITH A MINIMUM OF 11 MILS OF TNEMEC SERIES 66 POLYAMIDE EPOXY OR EQUAL.</p> <p>4. ALL LIFT STATION RELATED HARDWARE SHALL BE 316 S.S., SHALL NOT BE PAINTED, AND SHALL ADHERE TO ASTM A967. 316 S.S. WASHERS &amp; NUTS AND BOLTS SHALL BE USED WITH ALL FLANGED JOINTS.</p> <p>5. SURVEY MARKERS, STEEL BAR AND CAP, SHALL MARK THE EXACT EASEMENT LINES OF THE LIFT STATION SITE.</p> <p>6. PUMP STATION SHALL BE PROVIDED WITH A METERED WATER SERVICE CONSISTING OF A ONE- INCH (1") SERVICE LINE, FIVE-EIGHTHS INCH (5/8") BY THREE-FOURTHS INCH (3/4") METER AND METER BOX, AND A THREE-FORTH INCH (3/4") HORIZONTALLY MOUNTED REDUCED PRESSURE TYPE BACKFLOW PREVENTER LOCATED AT THE METER. A BRASS HOSE BIB AND COPPER RISER MOUNTED ON A FOUR-INCH (4") BY FOUR INCH (4") CONCRETE POST SHALL BE PROVIDED AND LOCATED PER COUNTY UTILITY OPERATIONS.</p> <p>7. PRIOR TO ACCEPTANCE OF THE LIFT STATION, THE SITE SHALL BE COMPLETELY CLEARED OF ALL CONSTRUCTION DEBRIS, THE WET WELL SHALL BE WASHED DOWN, THE CONTROL PANEL SHALL BE CLEANED OF ALL METAL SHAVINGS, ALL PIPING AND FITTINGS SHALL BE FINISH COATED AS REQUIRED, AND THE LIFT/PUMP STATION SHALL BE TESTED AND FOUND TO BE FULLY OPERATIONAL.</p> <p>8. ALL ABOVE GROUND PIPING SHALL BE COLOR COATED: BLUE FOR POTABLE WATER (TNEMEC SAFETY BLUE, SC06), GREEN FOR WASTEWATER (TNEMEC 09SF SPEARMINT GREEN/SAFETY), AND PURPLE FOR REUSE (BEHR PANTONE 522C). HDPE PIPING SHALL NOT BE COATED.</p> <p>9. THE LOCATION OF ALL BURIED PIPING AND ELECTRICAL CONDUITS ARE TO BE INCLUDED ON THE RECORD DRAWINGS.</p> <p>10. BYPASS VALVE TO FACE AWAY FROM L PANEL AND RTU PANEL.</p>				
D					
C					
B					
A					



**Sarasota County**


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CONSULTANTS



**ARCADIS**

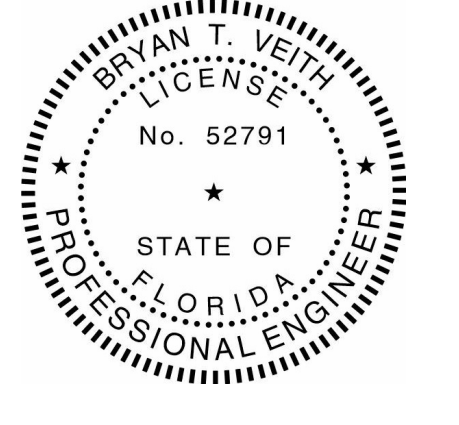
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DEPARTMENT**

HOME DEPOT MPS  
AND FM

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DATE:           OCTOBER 2025          

PROJECT NO.:           30036073          

FILE NAME:           M-01          

DESIGNED BY:           STEVE TOPOVSKI          

DRAWN BY:           ALEX SPEKTOR          

CHECKED BY:           BRYAN VEITH          

---

SHEET TITLE

MECHANICAL

**GENERAL NOTES**

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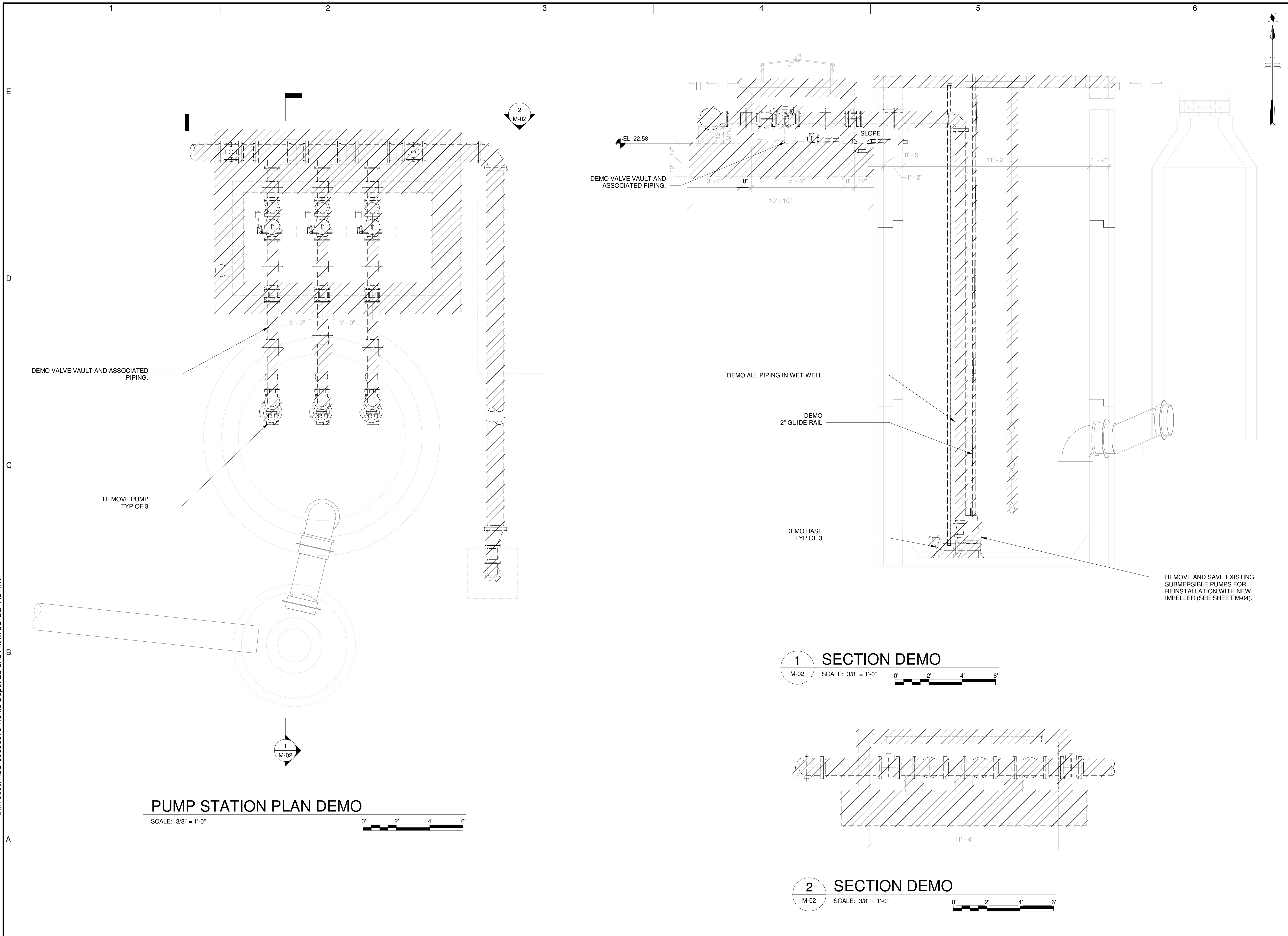
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**M-01** Approved

SHEET           31           OF           58          

2025-H-24-00313  
Mark A. Brown  
10/30/2025

10/29/2025 3:35:55 PM BIM 360://A US-30036073-Home Depot LS and FM/M-3D-SS-R21.rvt

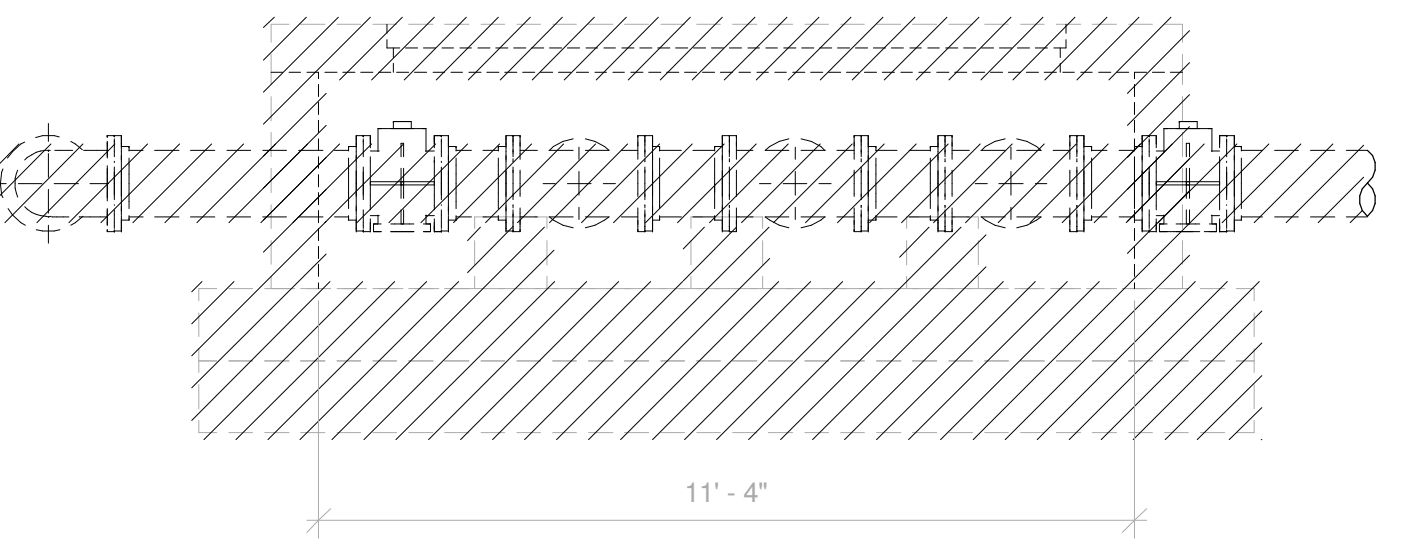


**PUMP STATION PLAN DEMO**

SCALE: 3/8" = 1'-0"

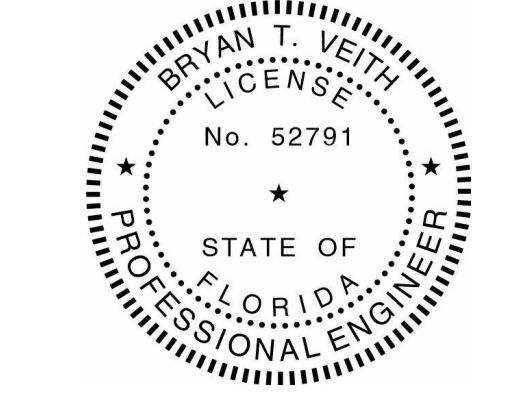
**1 SECTION DEMO**

M-02 SCALE: 3/8" = 1'-0"



**2 SECTION DEMO**

M-02 SCALE: 3/8" = 1'-0"



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HOME DEPOT MPS AND FM

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DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: M-02  
DESIGNED BY: STEVE TOPOVSKI  
DRAWN BY: SRAVANA KUMAR  
CHECKED BY: BRYAN VEITH

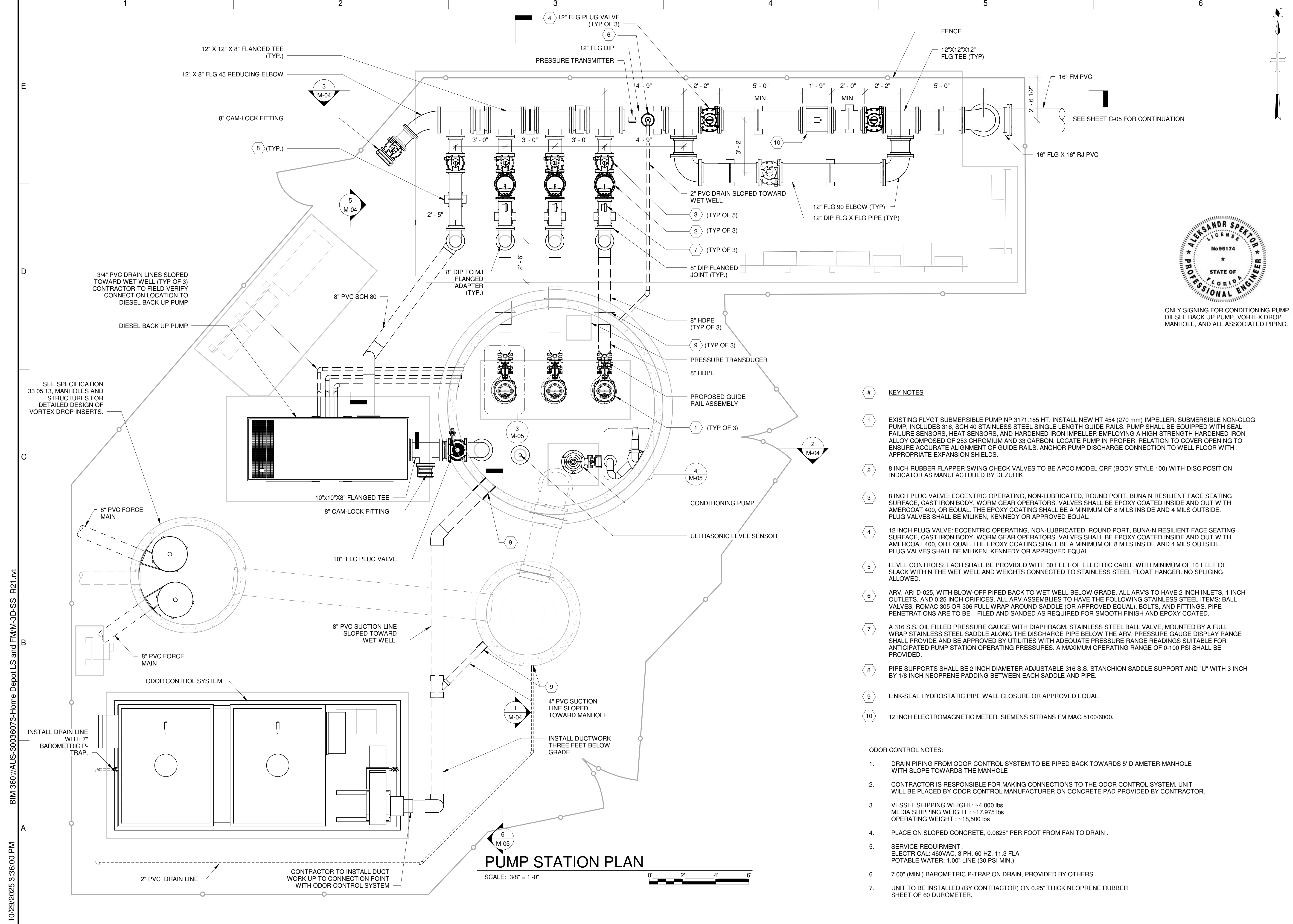
SHEET TITLE

MECHANICAL  
  
DEMOLITION PLAN

SCALE: AS SHOWN

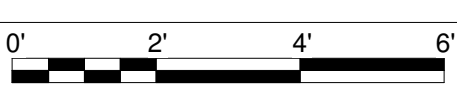
M-02  
SHEET 32 OF 58

Approved  
Mark A. Brown  
10/30/2025



**PUMP STATION PLAN**

SCALE: 3/8" = 1'-0"



**KEY NOTES**

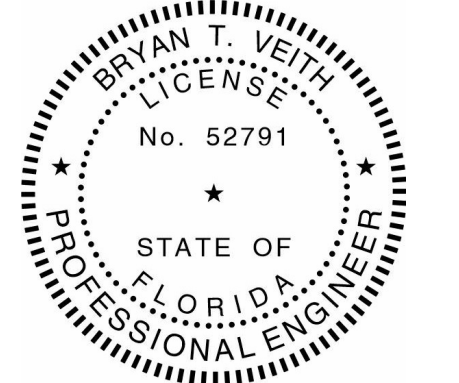
- 1 EXISTING FLYGT SUBMERSIBLE PUMP NP 3171.185 HT, INSTALL NEW HT 454 (270 mm) IMPELLER; SUBMERSIBLE NON-CLOG PUMP, INCLUDES 316 SCH 40 STAINLESS STEEL SINGLE LENGTH GUIDE RAILS. PUMP SHALL BE EQUIPPED WITH SEAL FAILURE SENSORS, HEAT SENSORS, AND HARDENED IRON IMPELLER EMPLOYING A HIGH-STRENGTH HARDENED IRON ALLOY COMPOSED OF 25% CHROMIUM AND 3% CARBON. LOCATE PUMP IN PROPER RELATION TO COVER OPENING TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS. ANCHOR PUMP DISCHARGE CONNECTION TO WELL FLOOR WITH APPROPRIATE EXPANSION SHIELDS.
- 2 8 INCH RUBBER FLAPPER SWING CHECK VALVES TO BE APCO MODEL CRF (BODY STYLE 100) WITH DISC POSITION INDICATOR AS MANUFACTURED BY DEZURIK
- 3 8 INCH PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, WORM GEAR OPERATORS. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
- 4 12 INCH PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA-N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, WORM GEAR OPERATORS. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
- 5 LEVEL CONTROLS: EACH SHALL BE PROVIDED WITH 30 FEET OF ELECTRIC CABLE WITH MINIMUM OF 10 FEET OF SLACK WITHIN THE WET WELL AND WEIGHTS CONNECTED TO STAINLESS STEEL FLOAT HANGER. NO SPLICING ALLOWED.
- 6 ARV, ARI D-025, WITH BLOW-OFF PIPED BACK TO WET WELL BELOW GRADE. ALL ARV'S TO HAVE 2 INCH INLETS, 1 INCH OUTLETS, AND 0.25 INCH ORIFICES. ALL ARV ASSEMBLIES TO HAVE THE FOLLOWING STAINLESS STEEL ITEMS: BALL VALVES, ROMAC 305 OR 306 FULL WRAP AROUND SADDLE (OR APPROVED EQUAL), BOLTS, AND FITTINGS. PIPE PENETRATIONS ARE TO BE FILED AND SANDED AS REQUIRED FOR SMOOTH FINISH AND EPOXY COATED.
- 7 A 316 S.S. OIL FILLED PRESSURE GAUGE WITH DIAPHRAGM, STAINLESS STEEL BALL VALVE, MOUNTED BY A FULL WRAP STAINLESS STEEL SADDLE ALONG THE DISCHARGE PIPE BELOW THE ARV. PRESSURE GAUGE DISPLAY RANGE SHALL PROVIDE AND BE APPROVED BY UTILITIES WITH ADEQUATE PRESSURE RANGE READINGS SUITABLE FOR ANTICIPATED PUMP STATION OPERATING PRESSURES. A MAXIMUM OPERATING RANGE OF 0-100 PSI SHALL BE PROVIDED.
- 8 PIPE SUPPORTS SHALL BE 2 INCH DIAMETER ADJUSTABLE 316 S.S. STANCHION SADDLE SUPPORT AND "U" WITH 3 INCH BY 1/8 INCH NEOPRENE PADDING BETWEEN EACH SADDLE AND PIPE.
- 9 LINK-SEAL HYDROSTATIC PIPE WALL CLOSURE OR APPROVED EQUAL.
- 10 12 INCH ELECTROMAGNETIC METER. SIEMENS SITRANS FM MAG 5100/6000.

**ODOR CONTROL NOTES:**

- 1. DRAIN PIPING FROM ODOR CONTROL SYSTEM TO BE PIPED BACK TOWARDS 5' DIAMETER MANHOLE WITH SLOPE TOWARDS THE MANHOLE
- 2. CONTRACTOR IS RESPONSIBLE FOR MAKING CONNECTIONS TO THE ODOR CONTROL SYSTEM. UNIT WILL BE PLACED BY ODOR CONTROL MANUFACTURER ON CONCRETE PAD PROVIDED BY CONTRACTOR.
- 3. VESSEL SHIPPING WEIGHT: ~4,000 lbs  
MEDIA SHIPPING WEIGHT : ~17,975 lbs  
OPERATING WEIGHT : ~18,500 lbs
- 4. PLACE ON SLOPED CONCRETE, 0.0625" PER FOOT FROM FAN TO DRAIN .
- 5. SERVICE REQUIREMENT :  
ELECTRICAL: 460VAC, 3 PH, 60 HZ, 11.3 FLA  
POTABLE WATER: 1.00" LINE (30 PSI MIN.)
- 6. 7.00" (MIN.) BAROMETRIC P-TRAP ON DRAIN, PROVIDED BY OTHERS.
- 7. UNIT TO BE INSTALLED (BY CONTRACTOR) ON 0.25" THICK NEOPRENE RUBBER SHEET OF 60 DUROMETER.



ONLY SIGNING FOR CONDITIONING PUMP, DIESEL BACK UP PUMP, VORTEX DROP MANHOLE, AND ALL ASSOCIATED PIPING.



ONLY SIGNING FOR WORK ASSOCIATED WITH THREE(3) SUBMERSIBLE PUMPS AND PIPING AND METER ASSEMBLY.

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SARASOTA COUNTY, FLORIDA  
SARASOTA COUNTY PUBLIC UTILITIES DEPARTMENT  
HOME DEPOT MPS AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS U.S., INC. 2025

DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: M-03  
DESIGNED BY: STEVE TOPOVSKI  
DRAWN BY: ALEX SPEKTOR  
CHECKED BY: BRYAN VEITH

SHEET TITLE

MECHANICAL  
**PUMP STATION PLAN VIEW**

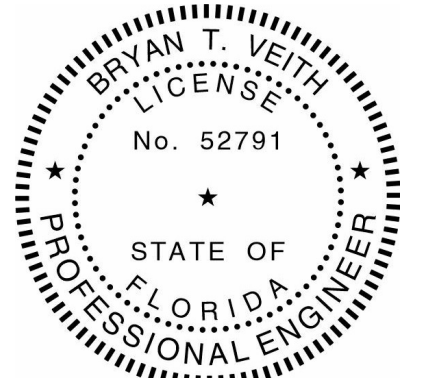
SCALE: AS SHOWN

M-03 Approved  
SHEET 33 OF 58  
2025-10-30  
Mark A. Brown  
10/30/2025

10/29/2025 3:36:00 PM BIM 360://AUS-30036073-Home Depot LS and FM/M-3D-SS\_R21.rvt



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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: M-04

DESIGNED BY: STEVE TOPOVSKI

DRAWN BY: ALEX SPEKTOR

CHECKED BY: BRYAN VEITH

SHEET TITLE

MECHANICAL

PUMP STATION  
SECTION VIEW

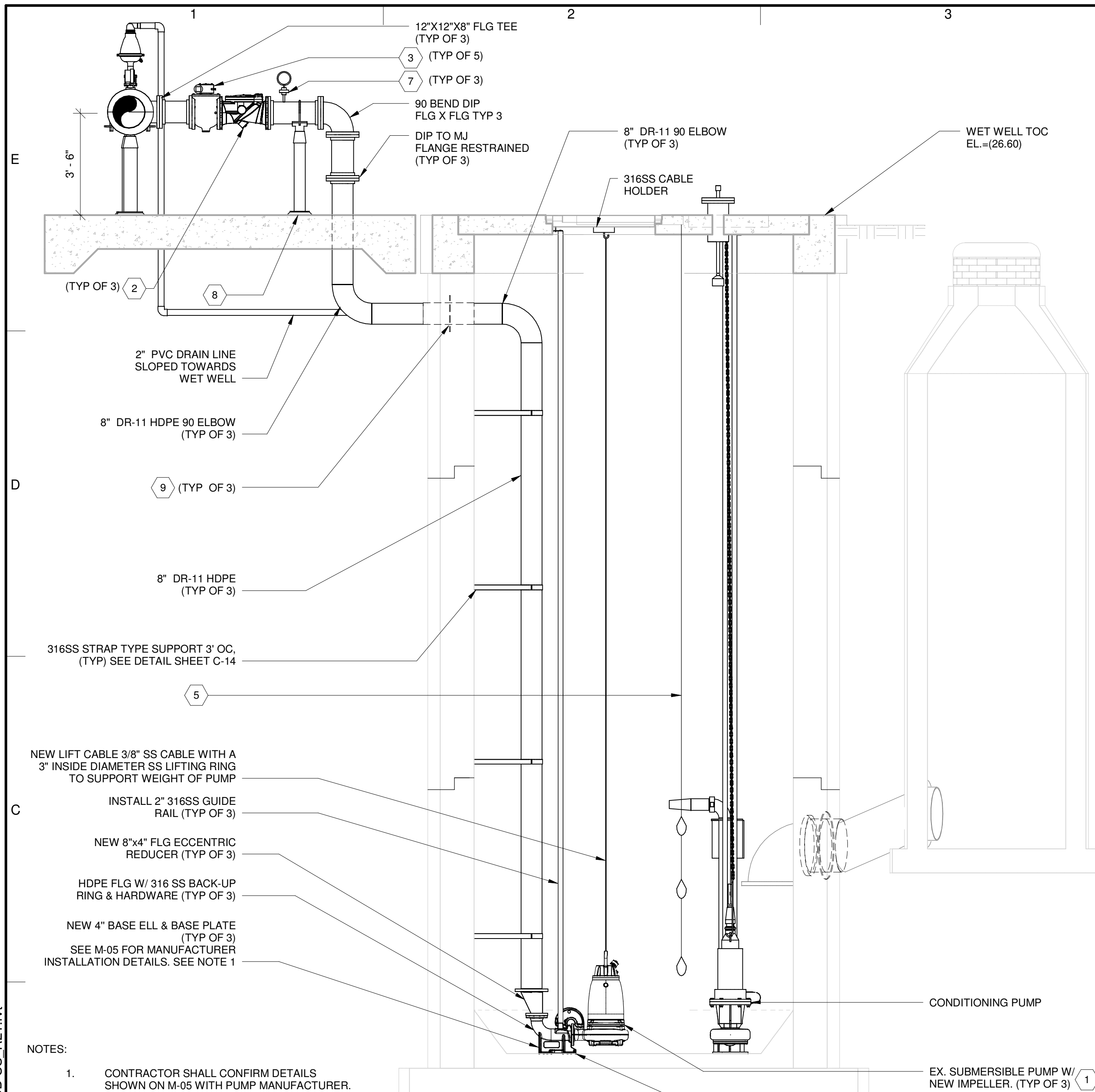
SCALE: As indicated

M-04 Approved

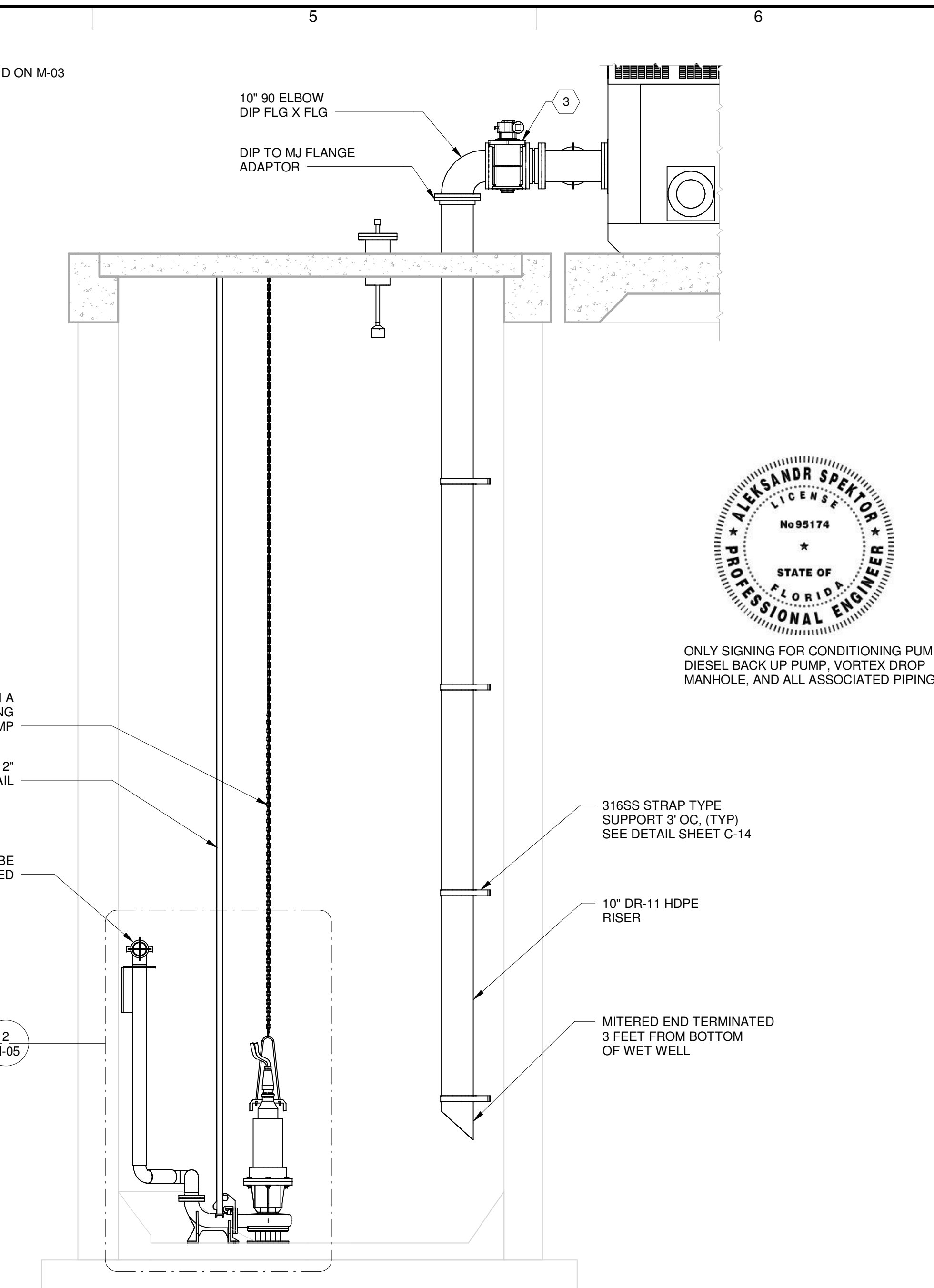
SHEET 34 OF 58

2025-10-30  
Mark A. Brown  
10/30/2025

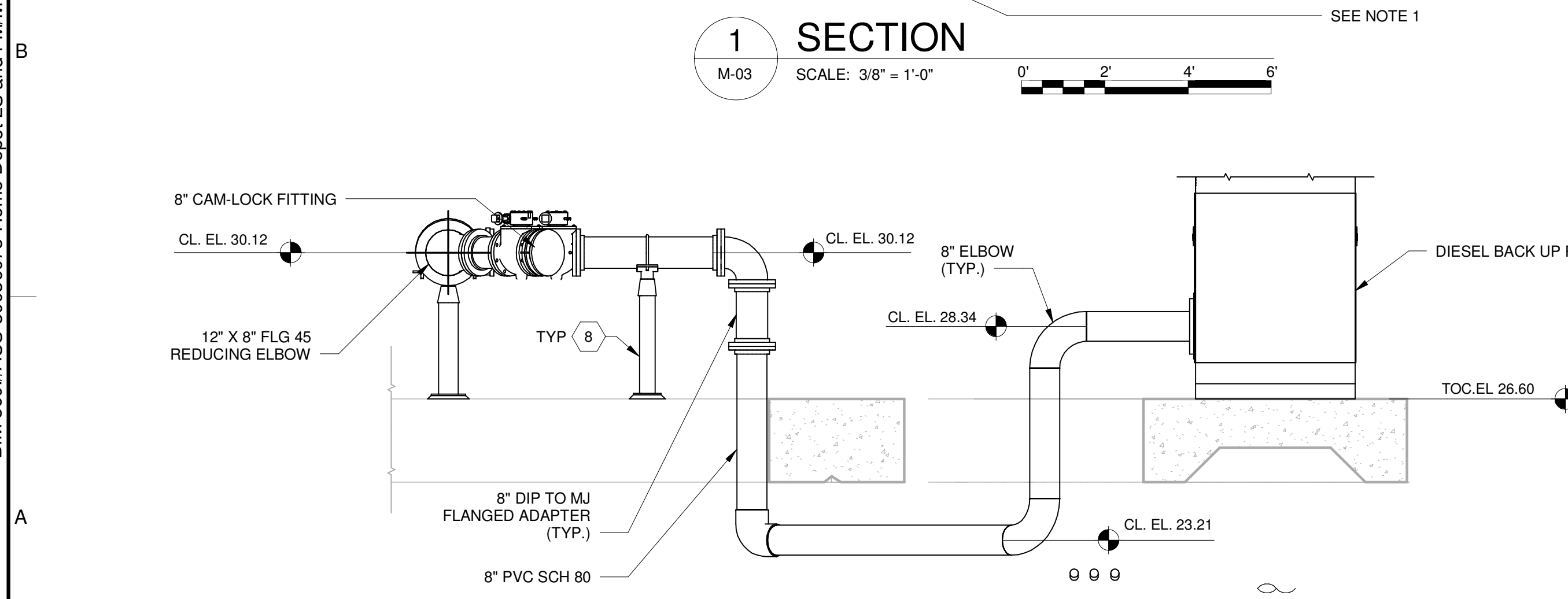
NUMBERS ON THIS DRAWING REFER TO KEY NOTES LEGEND ON M-03



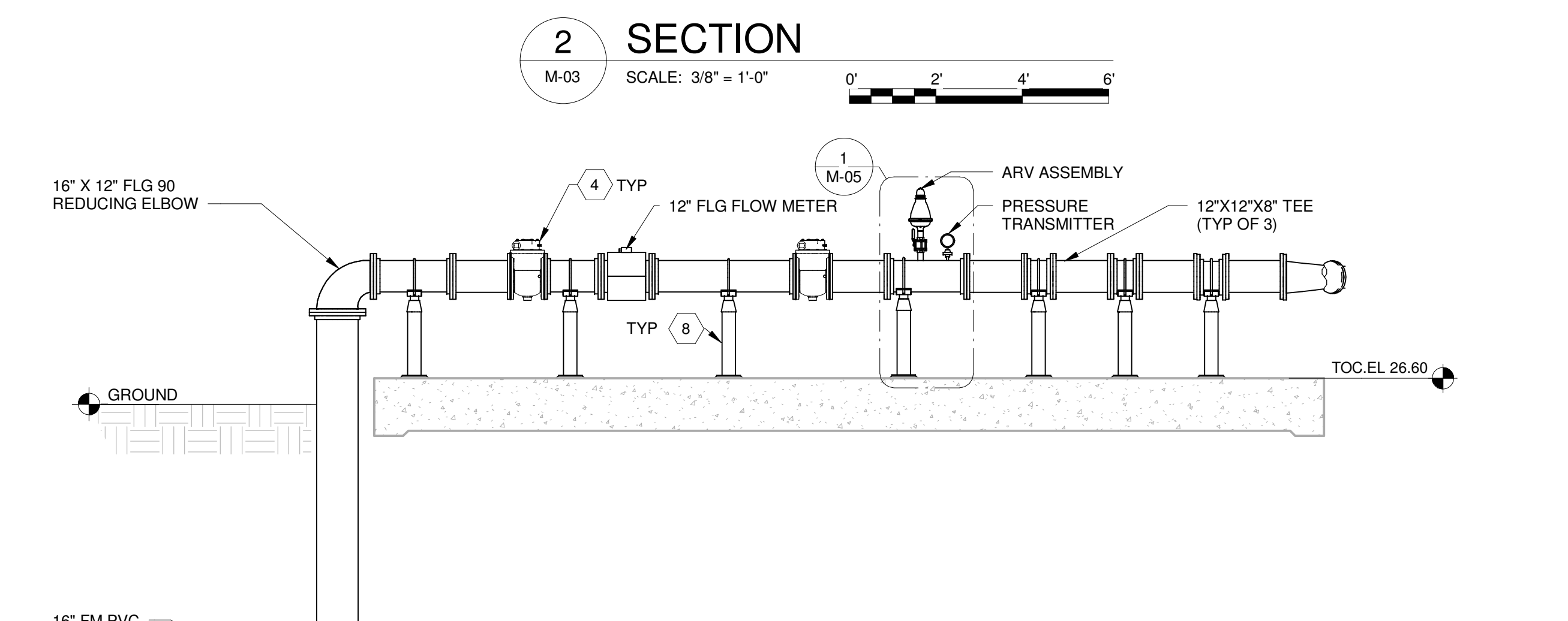
**1 SECTION**  
M-03 SCALE: 3/8" = 1'-0"  
0' 2' 4' 6'



**2 SECTION**  
M-03 SCALE: 3/8" = 1'-0"  
0' 2' 4' 6'



**5 SECTION**  
M-03 SCALE: 3/8" = 1'-0"  
0' 2' 4' 6'

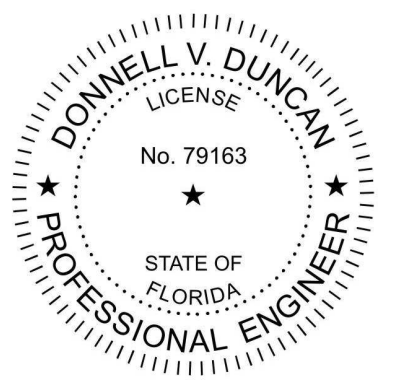


**3 SECTION**  
M-03 SCALE: 1/4" = 1'-0"  
0' 2' 4' 8'

10/29/2025 3:36:06 PM BIM 360://A US-30036073-Home Depot LS and FM/M-3D-SS-R21.rvt







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2024

DATE:	OCTOBER 2025
PROJECT NO.:	30036073
FILE NAME:	S-3D-SS_R21
DESIGNED BY:	HOUSAM HOBI
DRAWN BY:	VINOD NAIR
CHECKED BY:	DONNELL DUNCAN

SHEET TITLE

STRUCTURAL

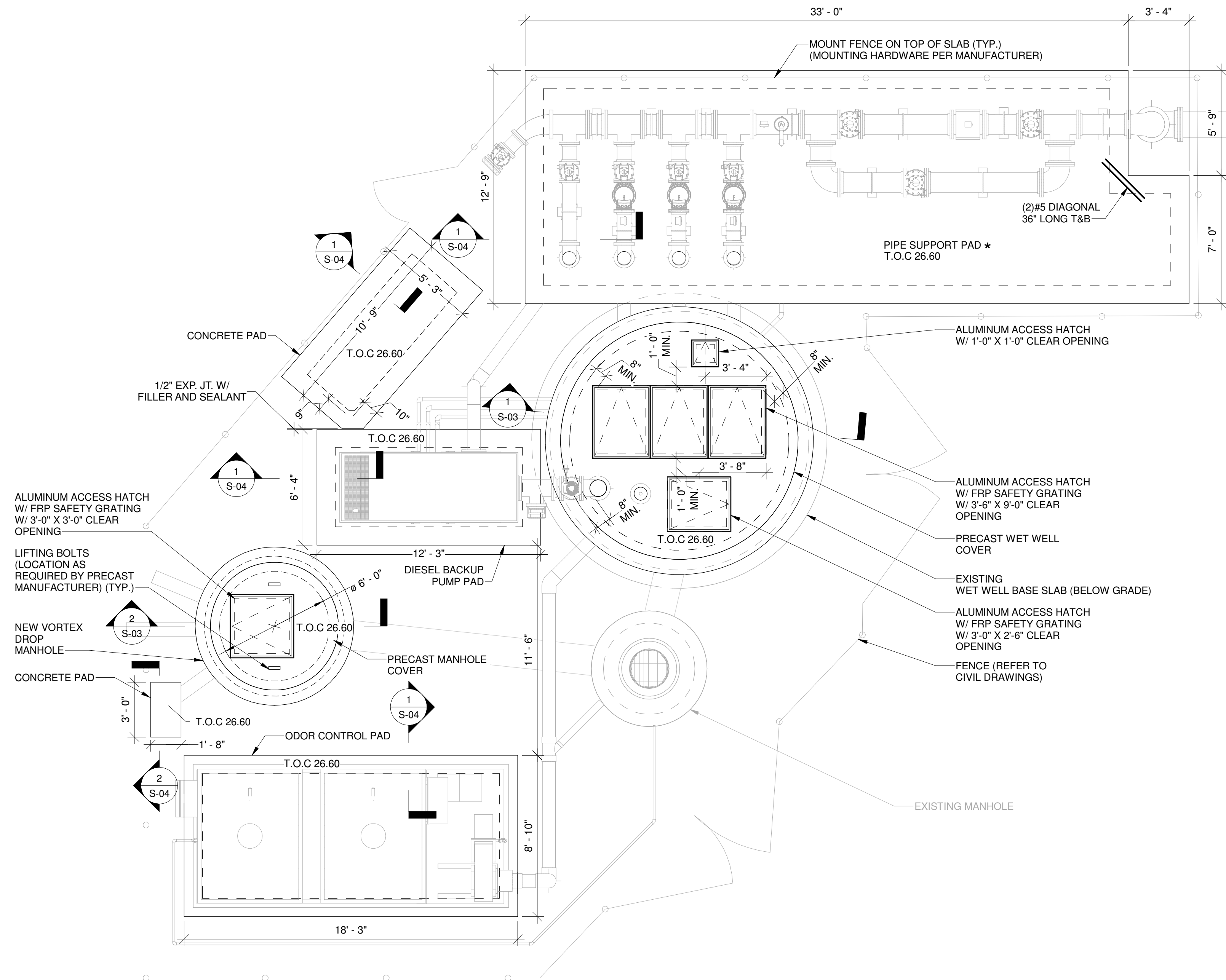
SITE LAYOUT

SCALE: 1/4" = 1'-0"

S-02 Approved

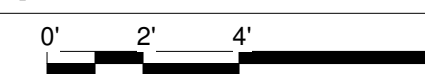
SHEET 37 OF 58

2025-10-30  
Mark A. Brown  
10/30/2025



**SITE LAYOUT**

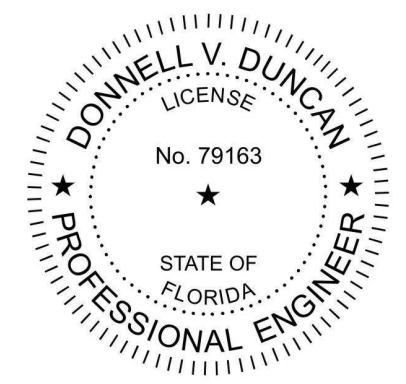
SCALE: 1/4" = 1'-0"



\* SLOPE TOP OF SLAB WITH A MINIMUM OF 1% SLOPE FOR DRAINAGE.

NOTES:

- DESIGN LIVE LOAD FOR CONCRETE PADS : 300 PSF.
- ASSUMED ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF.
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE SLAB ON GRADE LIMITS BY THE CONTRACTOR'S REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE DESIGN BOTTOM ELEVATIONS.
- GEOTECHNICAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED LETTER CERTIFYING SOIL BEARING CAPACITY AND SUB BASE REQUIREMENTS FOR THE FOUNDATION OF THE STRUCTURE.
- REFERENCE OTHER DISCIPLINE DRAWINGS FOR LOCATION AND ELEVATIONS OF THE STRUCTURES ON THE STRUCTURAL DRAWINGS.
- EQUIPMENT ANCHORAGE DESIGN IS THE RESPONSIBILITY OF MANUFACTURER. PROVIDE SIGNED AND SEALED ANCHORAGE DESIGN DRAWINGS AND CALCULATIONS INCLUDING THE REQUIRED ANCHOR SIZE, EMBEDMENT AND CONCRETE EDGE DISTANCE. FOR REVIEW AND APPROVAL BY ENGINEER AND PROVIDE BACKFILL RECOMMENDATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING, DESIGN AND INSTALLATION OF TEMPORARY SHORING TO PROTECT THE EXISTING STRUCTURE DURING SHORING INSTALLATION, EXCAVATION AND CONSTRUCTION. PROVIDE SHORING DESIGN DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR REVIEW AND APPROVAL BY ENGINEER, DESIGN PACKAGE SHALL INCLUDE TYPE OF TEMPORARY SHORING AND INSTALLATION PROCESS.
- TEMPORARY SHORING SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF FLORIDA HIRED BY THE CONTRACTOR.
- CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE FOR ANY SIGNS OF MOVEMENT AND CRACKING DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT THE DEWATERING PLAN FOR REVIEW AND APPROVAL BY ENGINEER.
- ALL ANCHOR BOLTS SHALL BE SS316.



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AND FM

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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: S-3D-SS\_R21

DESIGNED BY: HOUSAM HOBI

DRAWN BY: VINOD NAIR

CHECKED BY: DONNELL DUNCAN

SHEET TITLE

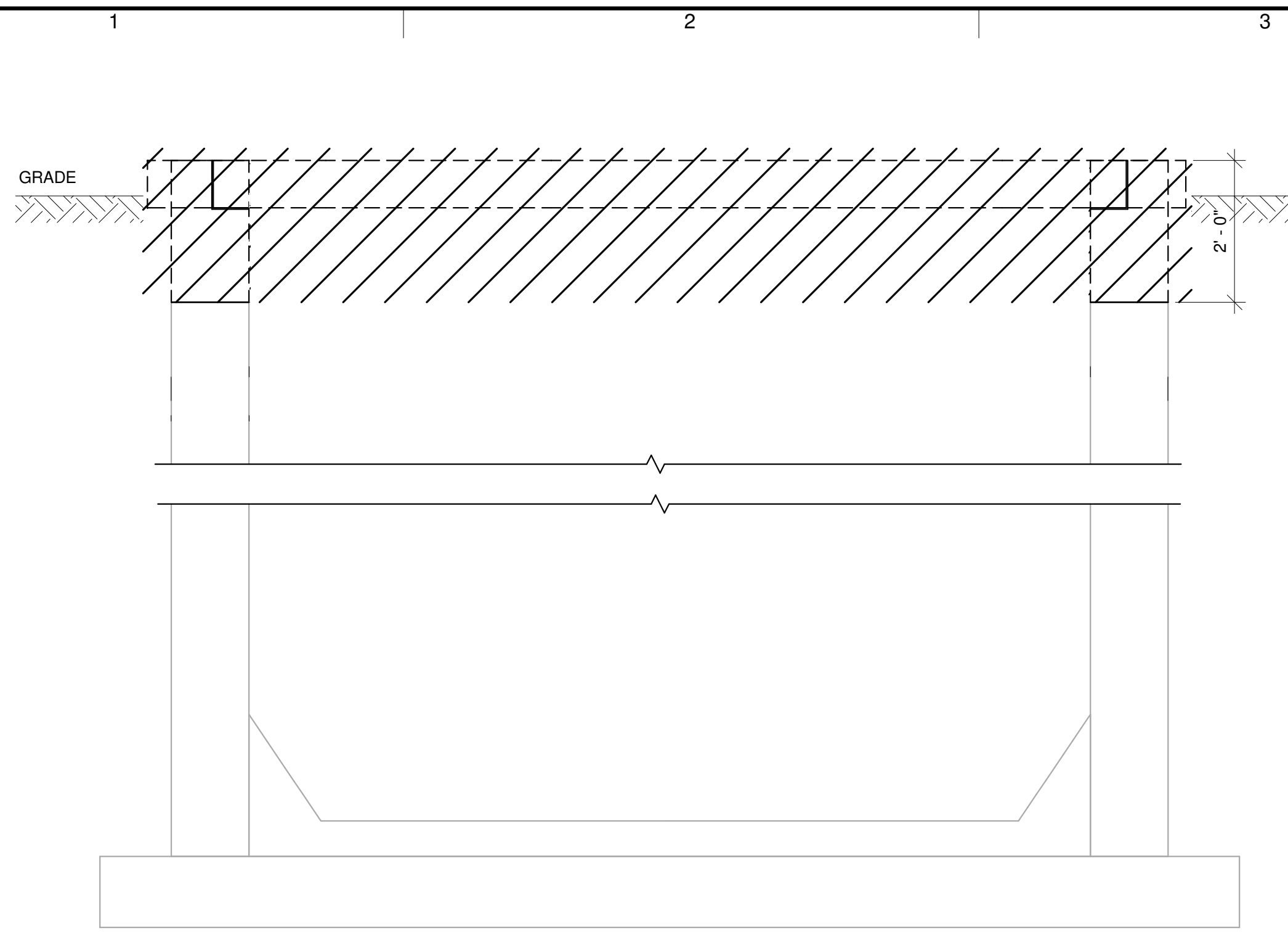
STRUCTURAL

SECTIONS

SCALE: AS INDICATED

S-03

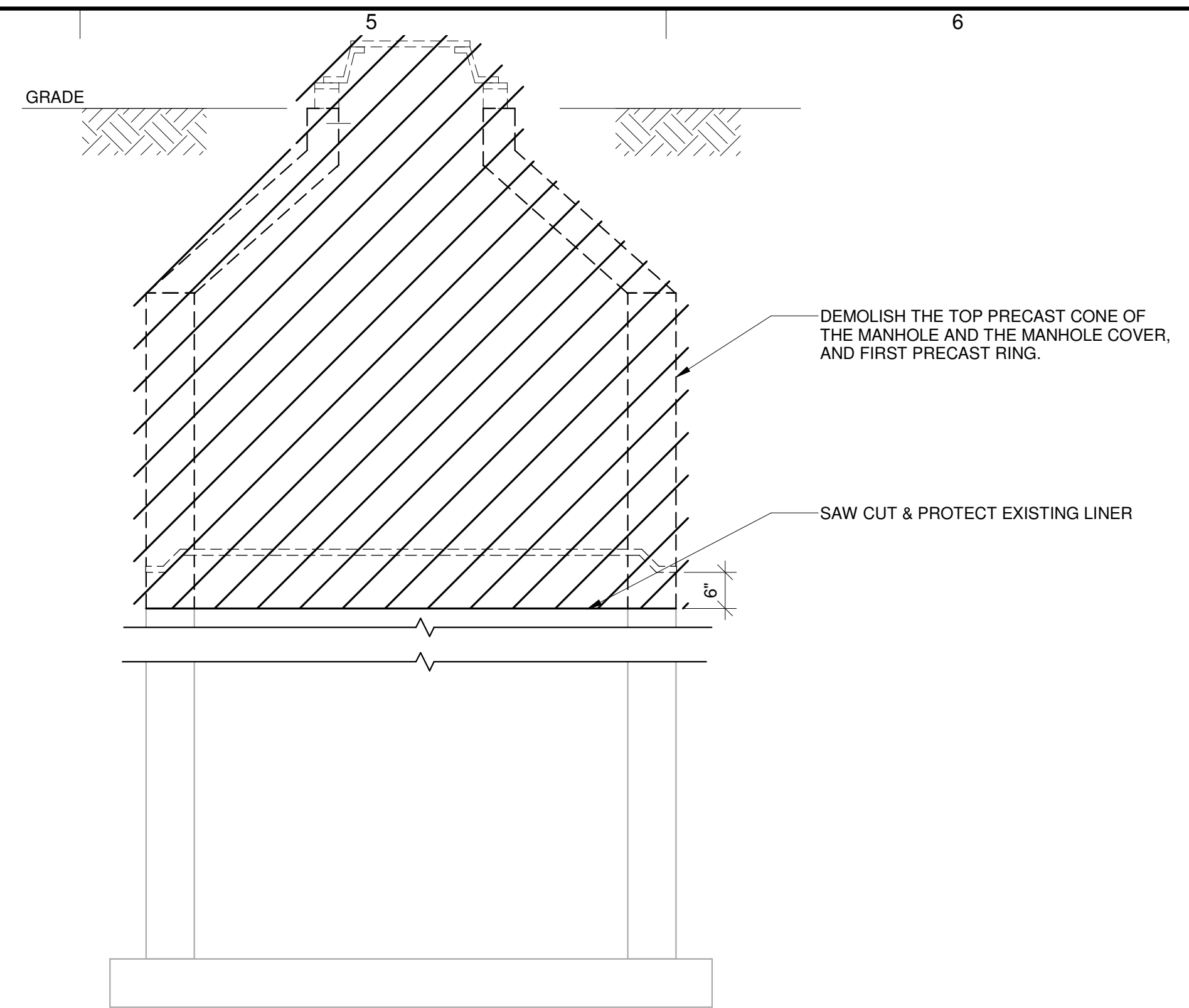
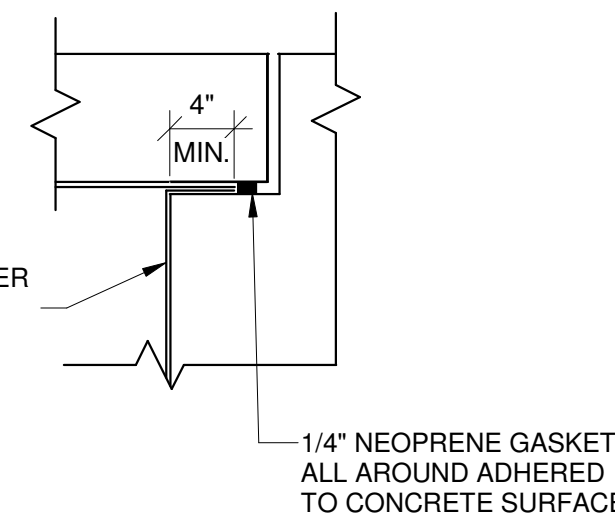
SHEET 38 OF 58



**EXISTING WET WELL DEMOLITION SECTION**

NOT TO SCALE

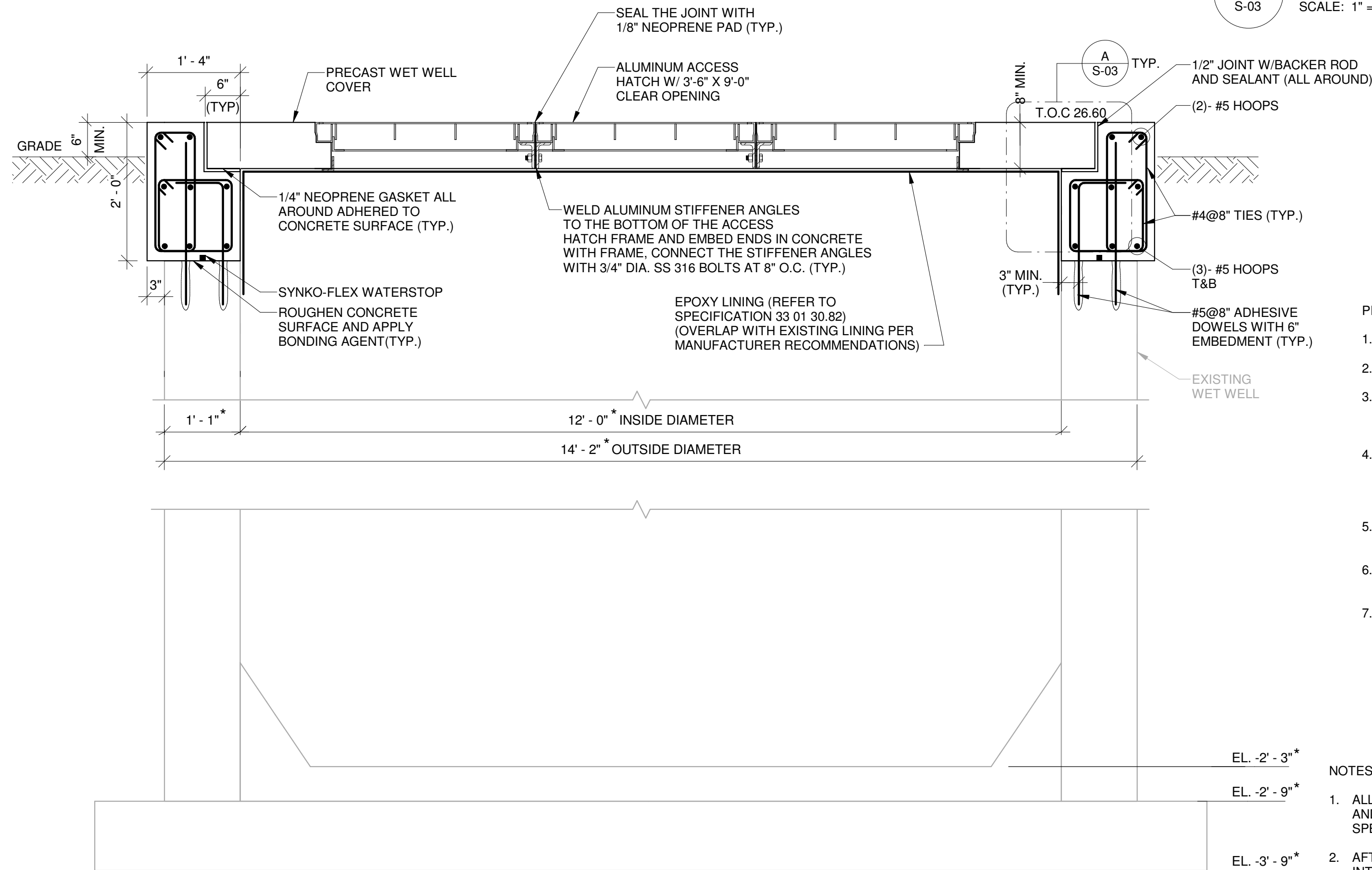
- NOTES:
1. DEMOLISH (SAW CUT) THE TOP 2'-0" OF THE EXISTING WET WELL (TOP SLAB AND WALL).
  2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING LINER FROM ANY DAMAGE DURING AND AFTER DEMOLITION.



**EXISTING VORTEX DROP MANHOLE DEMOLITION SECTION**

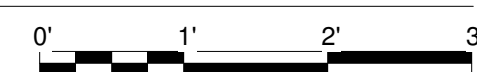
NOT TO SCALE

**A DETAIL**  
S-03 SCALE: 1" = 1'-0"



**1 SECTION**

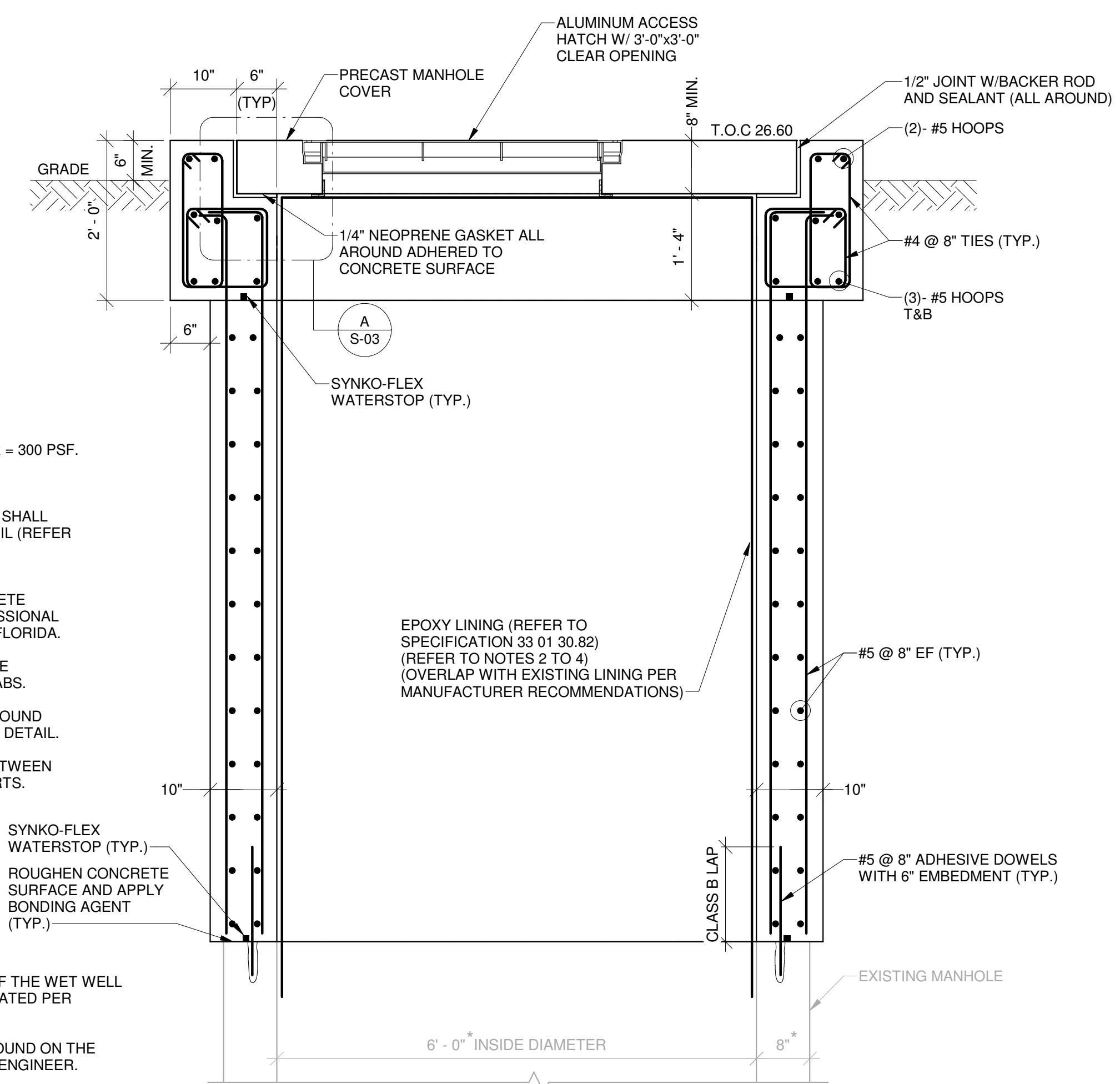
S-02 SCALE: 3/4" = 1'-0"



- PRECAST CONCRETE COVER NOTES:
1. LIVE LOAD FOR PRECAST MANHOLE COVER = 300 PSF.
  2. LIVE LOAD FOR ACCESS HATCH = 300 PSF.
  3. CEMENT FOR PRECAST CONCRETE COVER SHALL CONFORM TO ASTM C150, TYPE II OR TYPE III (REFER TO SPECIFICATION 33 01 30.82)
  4. PROVIDE SHOP DRAWINGS AND DESIGN CALCULATIONS FOR THE PRECAST CONCRETE COVERS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
  5. FILED VERIFY ALL THE DIMENSIONS BEFORE FABRICATION OF THE PRECAST COVER SLABS.
  6. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS PER OPENING REINFORCEMENT DETAIL.
  7. PROVIDE ADDITIONAL REINFORCEMENT BETWEEN OPENINGS THAT EXTENDS TO THE SUPPORTS.

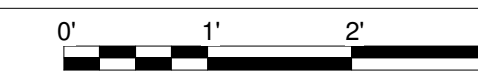
NOTES:

1. ALL EXPOSED AND NEW INTERIOR CONCRETE OF THE WET WELL AND THE VORTEX DROP MANHOLE SHALL BE COATED PER SPECIFICATION SECTION 33 01 30.82.
2. AFTER CLEANING THE MANHOLE IF A LINER IS FOUND ON THE INTERIOR SURFACE OF THE CONCRETE NOTIFY ENGINEER.
3. FOR THE VORTEX DROP MANHOLE IF THERE IS NO EXISTING LINER, RECOAT THE COMPLETE MANHOLE PER SPECIFICATION SECTION 33 01 30.82.
4. FOR BIDDING PURPOSES IT SHALL BE ASSUMED THAT THERE IS NO EXISTING LINER IN THE VORTEX MANHOLE.
5. ISOLATE DISSIMILAR MATERIALS.



**2 SECTION**

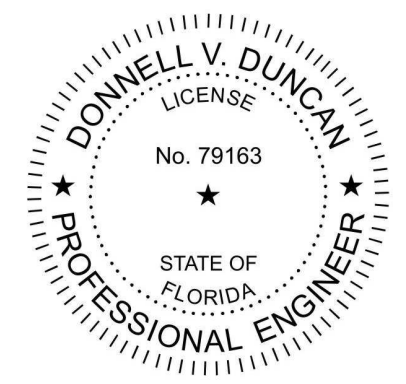
S-02 SCALE: 3/4" = 1'-0"



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29-10-2025 10:37:51

Approved  
Mark A. Brown  
10/30/2025



NO.	DATE	ISSUED FOR	BY

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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: S-3D-SS\_R21

DESIGNED BY: HOUSAM HOBI

DRAWN BY: VINOD NAIR

CHECKED BY: DONNELL DUNCAN

SHEET TITLE

STRUCTURAL

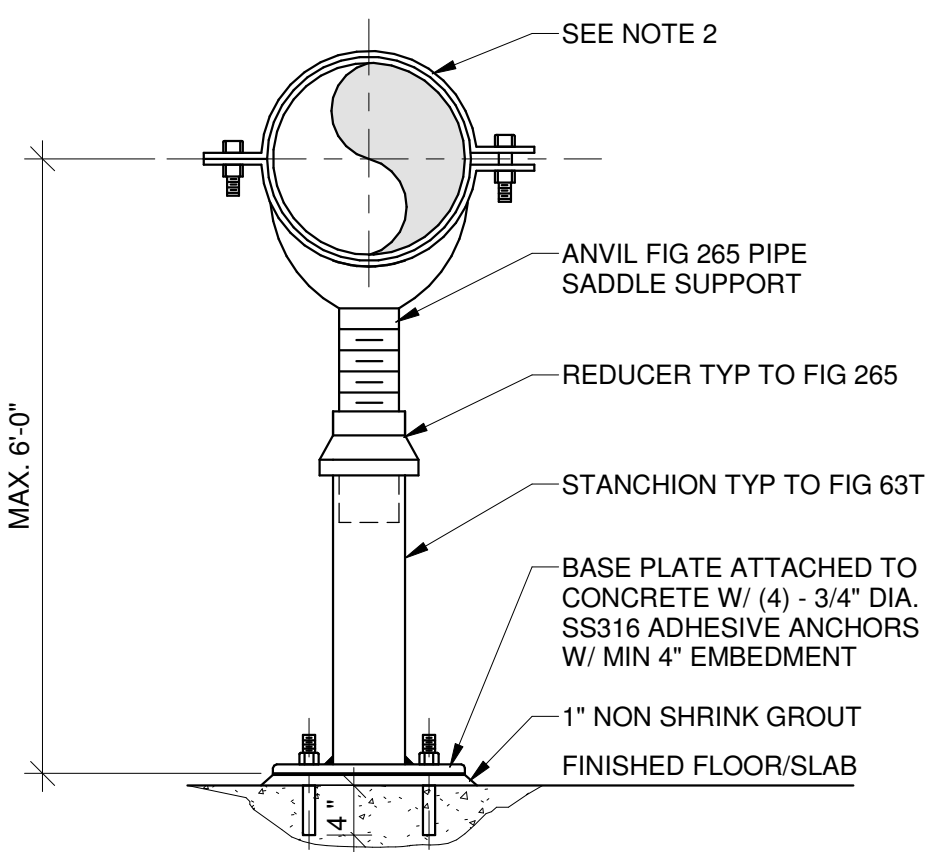
TYPICAL DETAILS

SCALE: AS INDICATED

S-04 Approved

SHEET 39 OF 58

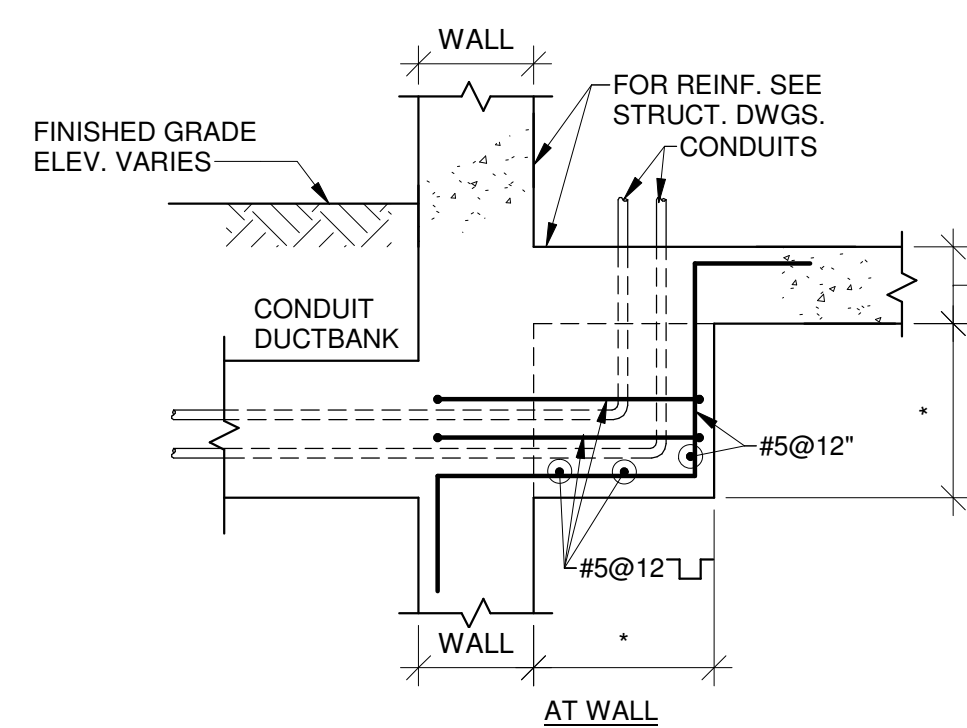
Mark A. Brown  
10/30/2025



ADJUSTABLE PIPE SUPPORTS

NOT TO SCALE

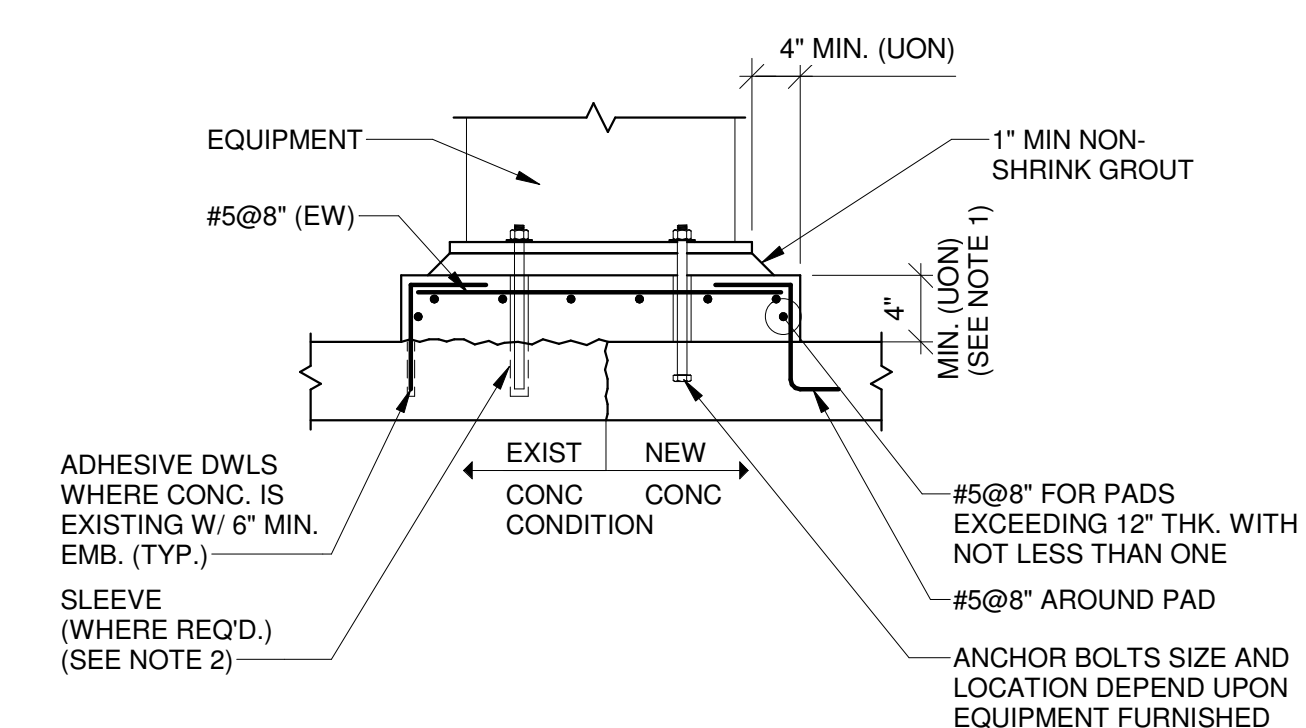
- NOTES:
- MAXIMUM ALLOWABLE VERTICAL LOAD: 1,500 LBS.
  - FOR PIPE SUPPORT BRACKETS FOR SYSTEMS WEIGHING GREATER THAN 1,500 LBS THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
  - PROVIDE 3"x1/8" NEOPRENE PAD BONDED TO PIPE.
  - PIPE SUPPORT TO BE SS316.
  - MAX. SUPPORT SPACING 8'-0".



TYPICAL CONDUIT ENCASEMENT DETAILS

NOT TO SCALE

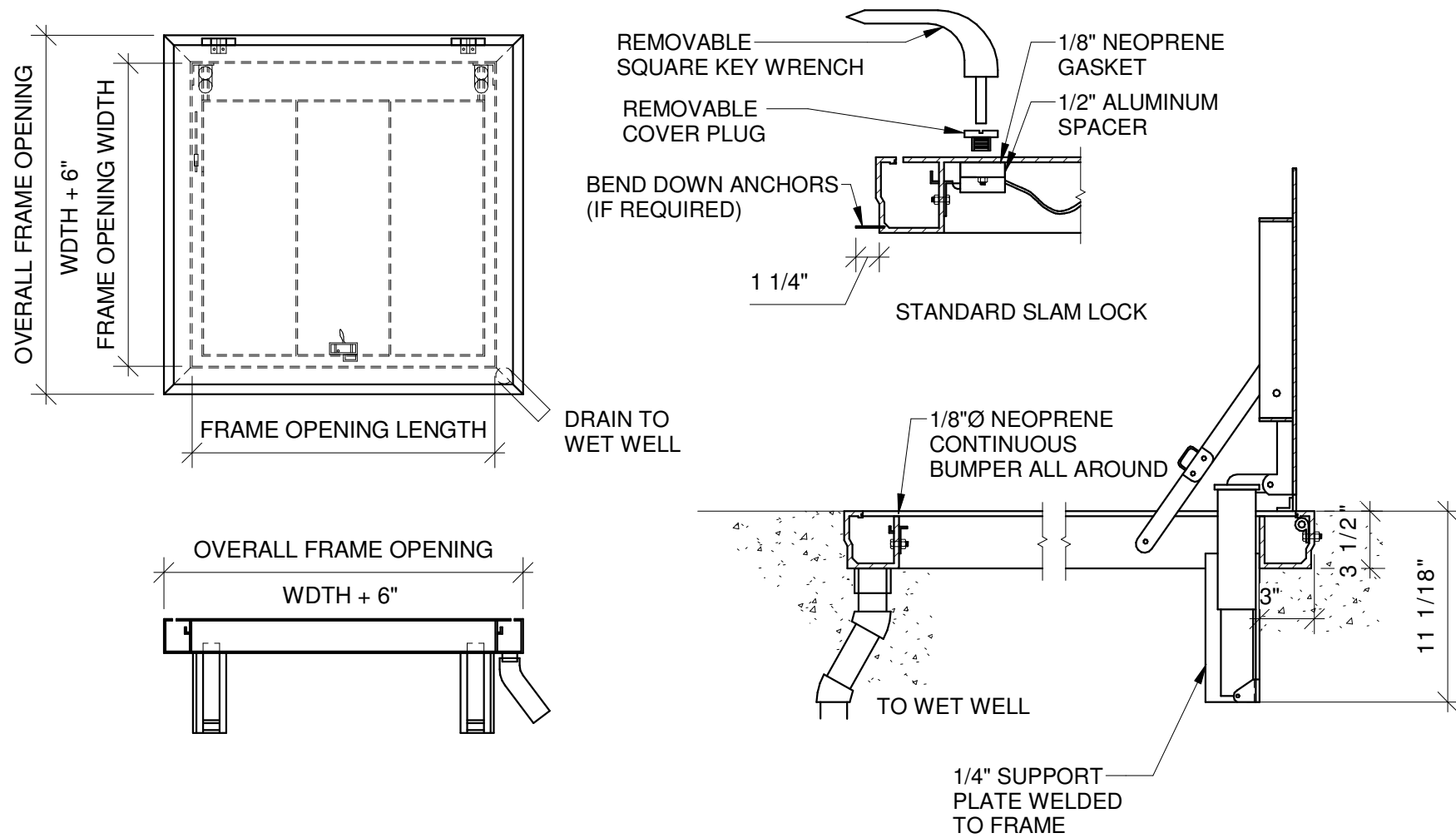
- NOTES:
- \* INDICATES DIMENSION AS REQUIRED FOR APPROVED EQUIPMENT.
  - D = PIPE OR CONDUIT OUTSIDE DIAMETER.
  - OUTSIDE DIMENSION (D) OF ANY EMBEDDED ITEM SHOULD NOT EXCEED 1/3 <sup>RD</sup> THE CONCRETE MEMBER THICKNESS.
  - AT POINTS OF CROSSING CONDUITS / PIPES, OUTSIDE DIMENSION (D) SHALL BE THE SUM OF THE TOTAL INDIVIDUAL CROSSING ITEMS.
  - SPACING REQUIREMENTS BETWEEN CONDUITS / PIPES APPLIES TO CONDUITS / PIPES CROSSING AT 60° OR LESS. PIPES / CONDUITS CROSSING EACH OTHER GREATER THAN 60° CAN BE IN CONTACT WITH EACH OTHER (CODE PERMITTING).



TYPICAL EQUIPMENT SUPPORT PAD DETAIL

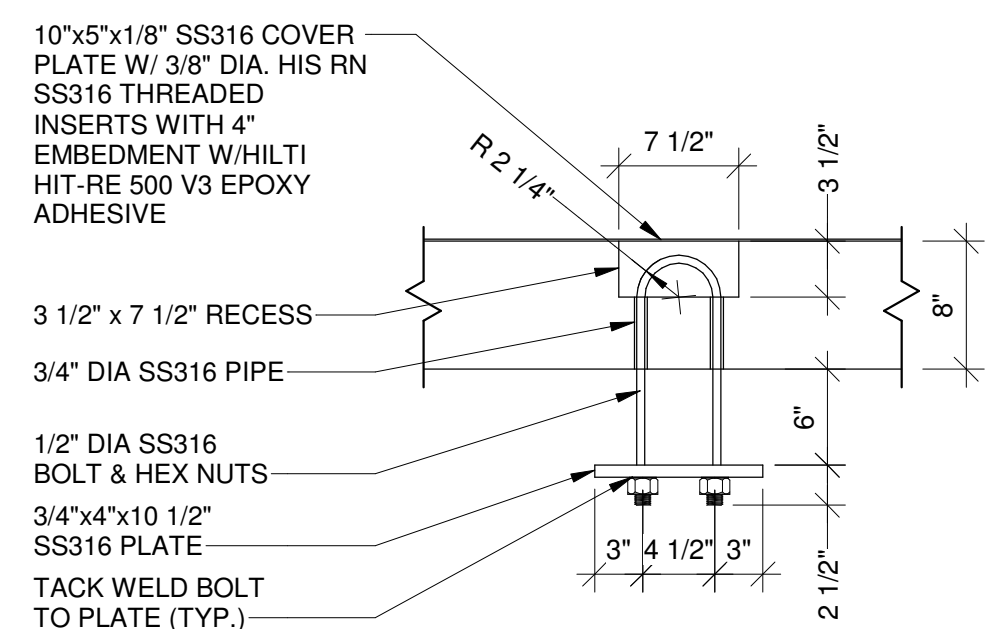
NOT TO SCALE

- NOTES:
- COORDINATE LOCATION AND SIZE OF PADS WITH OTHER DRAWINGS AND MANUFACTURER'S CERTIFIED DRAWINGS.
  - FOR EXISTING SLABS, DRILL HOLE DIAMETER AND DEPTH IN EXISTING SLAB PER MANUFACTURER'S REQUIREMENTS FOR ADHESIVE ANCHORAGE SYSTEM USED.



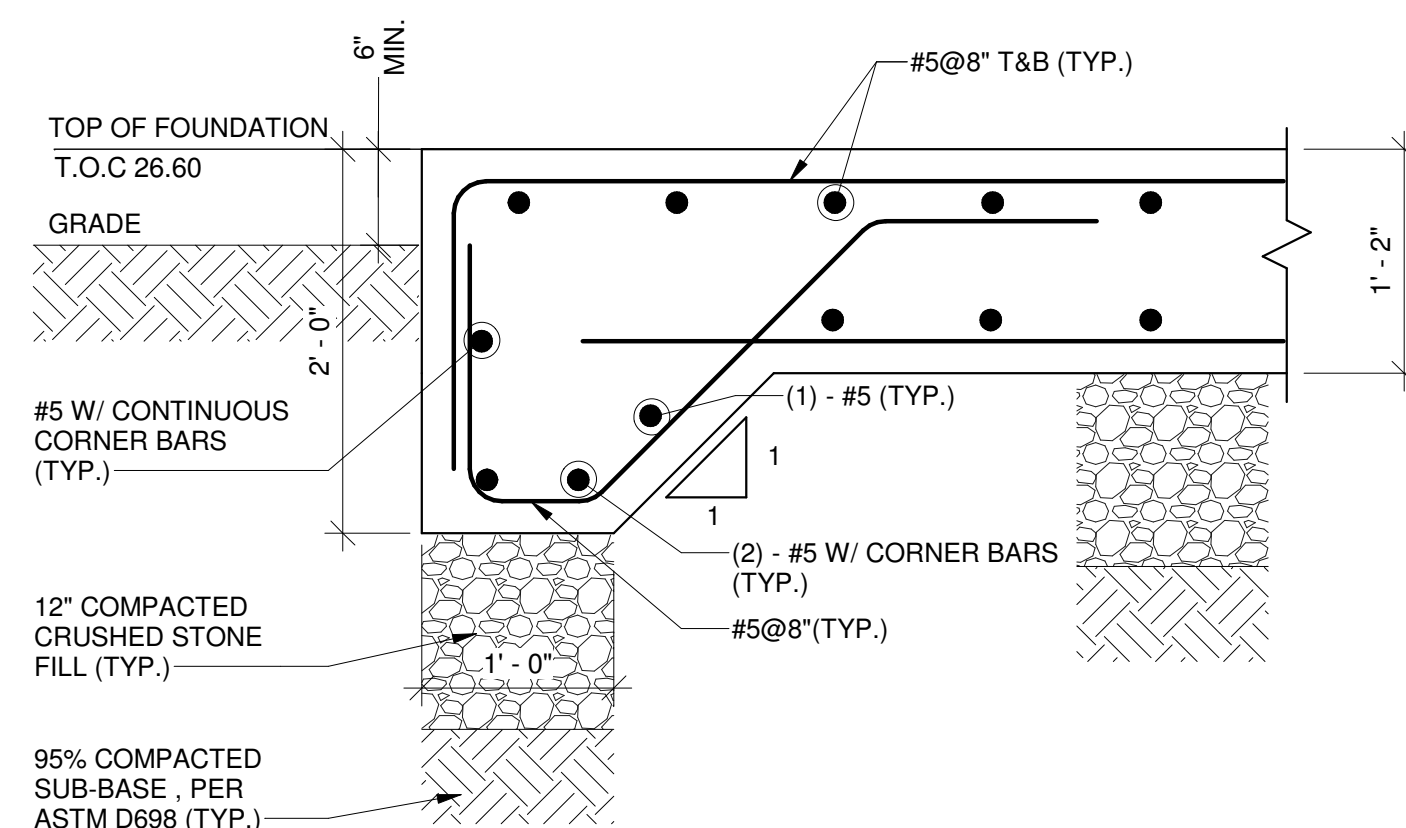
ACCESS HATCH DETAIL

SCALE: 1/2" = 1'-0"



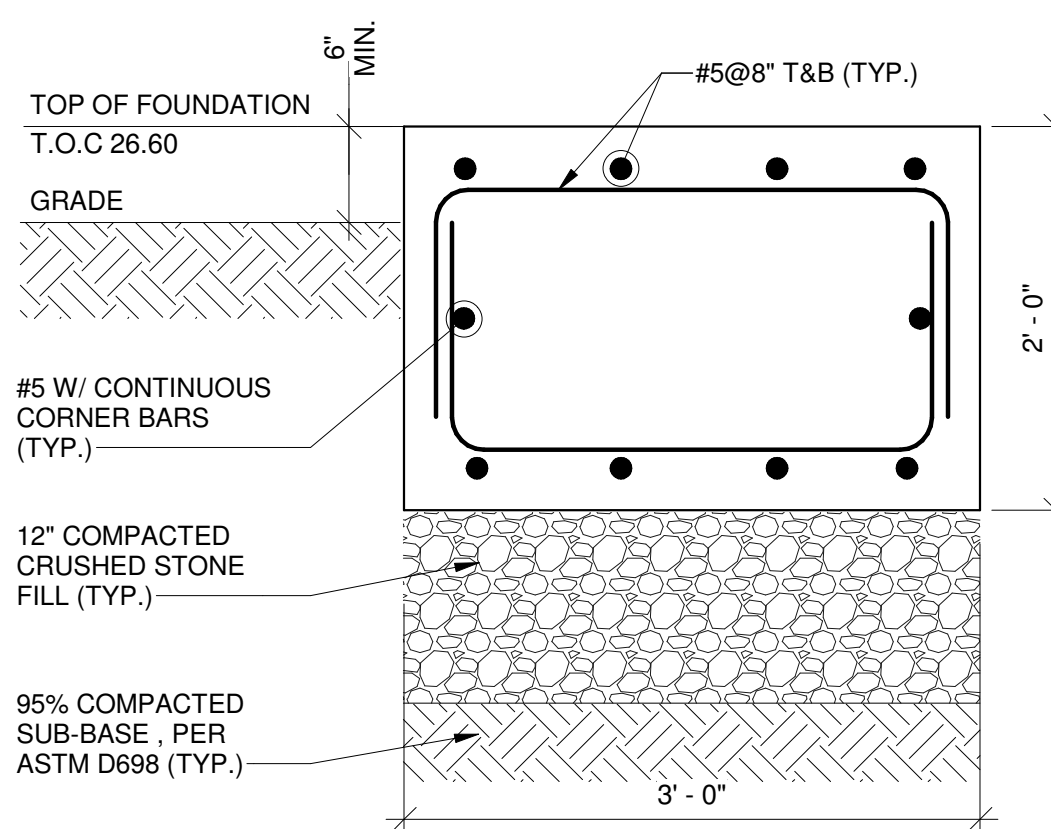
LIFTING BOLT DETAIL

SCALE: 1" = 1'-0"



1 SECTION

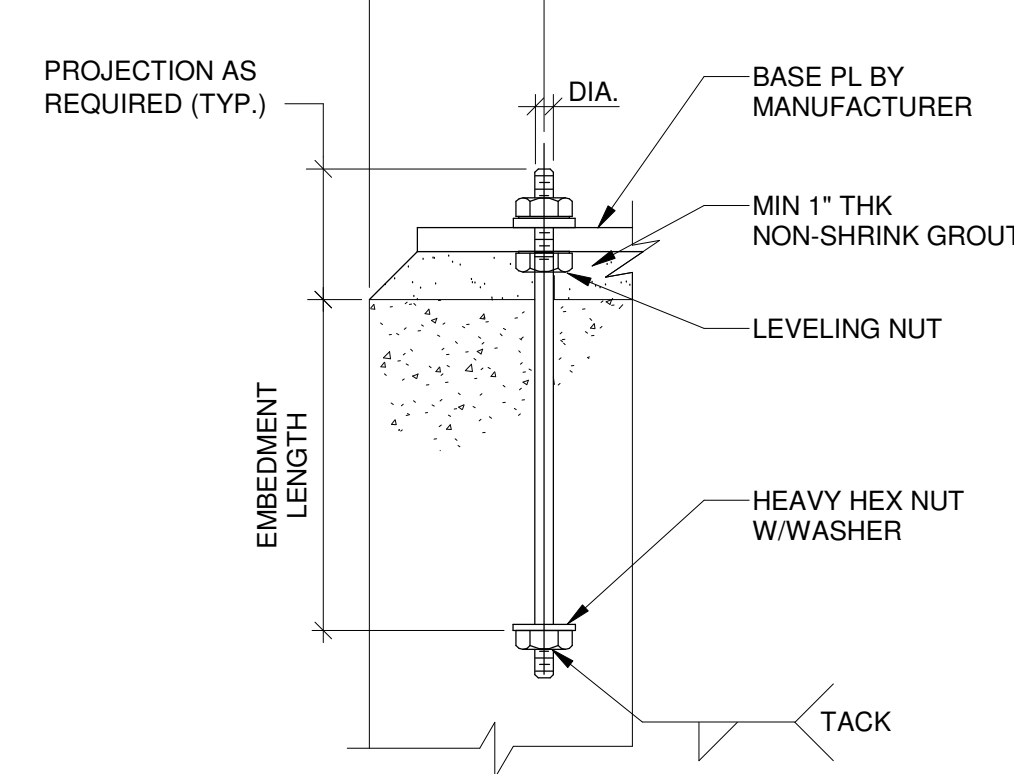
S-02 SCALE: 1" = 1'-0"



2 SECTION

S-02 SCALE: 1" = 1'-0"

COORDINATE SIZE OF PAD OR ANCHOR DESIGN WITH MINIMUM EDGE DISTANCE REQUIREMENTS OF APPROVED ANCHOR



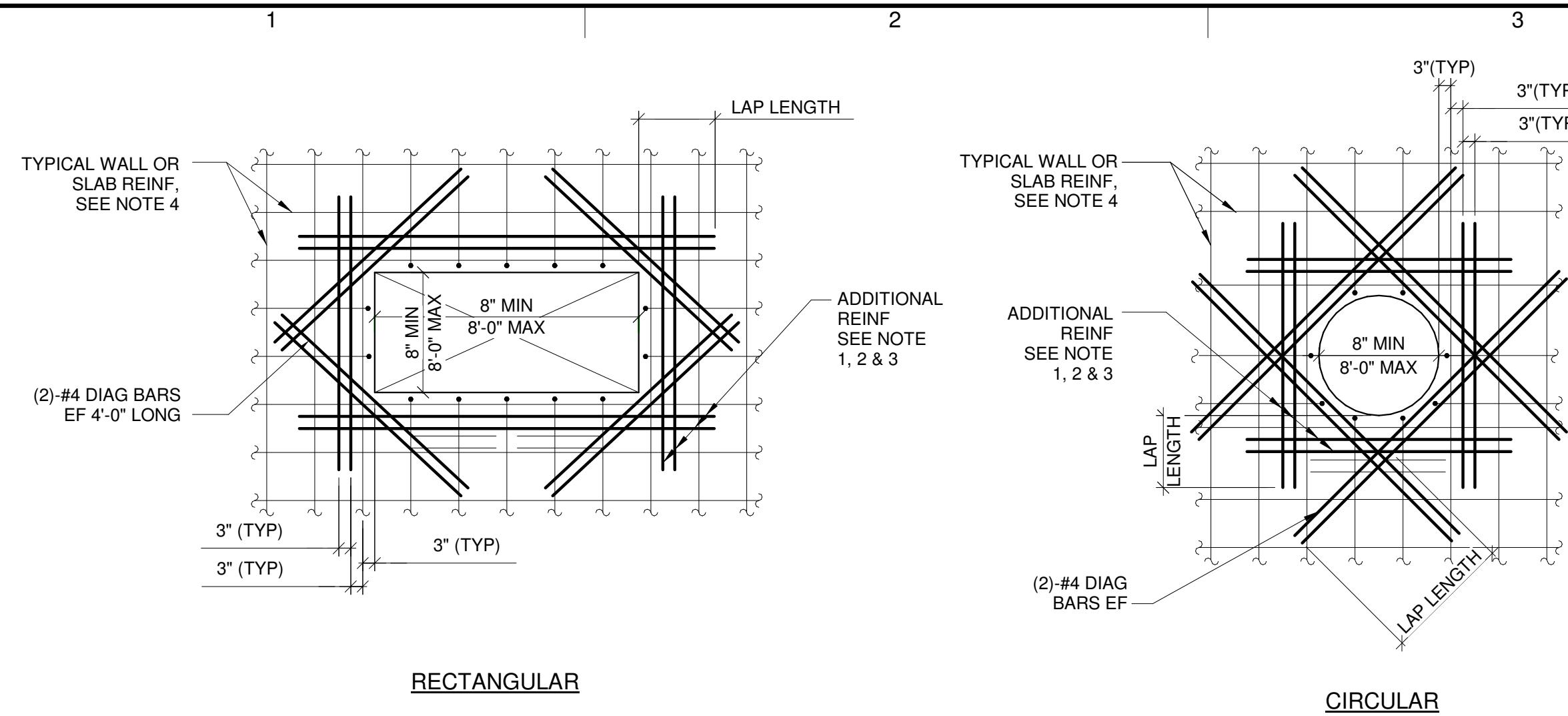
EMBEDMENT CHART

BOLT DIA. (IN.)	L (IN.) U.O.N	
	TYPE 316 ASTM F593	
1/2	6	6
5/8	7 1/2	7 1/2
3/4	9	9
7/8	10 1/2	10 1/2
1	12	12
1 1/8	13 1/2	13 1/2
1 1/4	15	15
1 3/8	16 1/2	16 1/2
1 1/2	18	18

NOTE:  
1. REFER TO SPECIFICATIONS AND CONTRACT DRAWING DETAILS FOR ANCHOR BOLT EQUIPMENT. ANCHOR BOLT DIAMETER AND EMBEDMENT SHALL BE AS SHOWN OR AS REQUIRED BY EQUIPMENT MANUFACTURER.

TYPICAL ANCHOR BOLT DETAIL

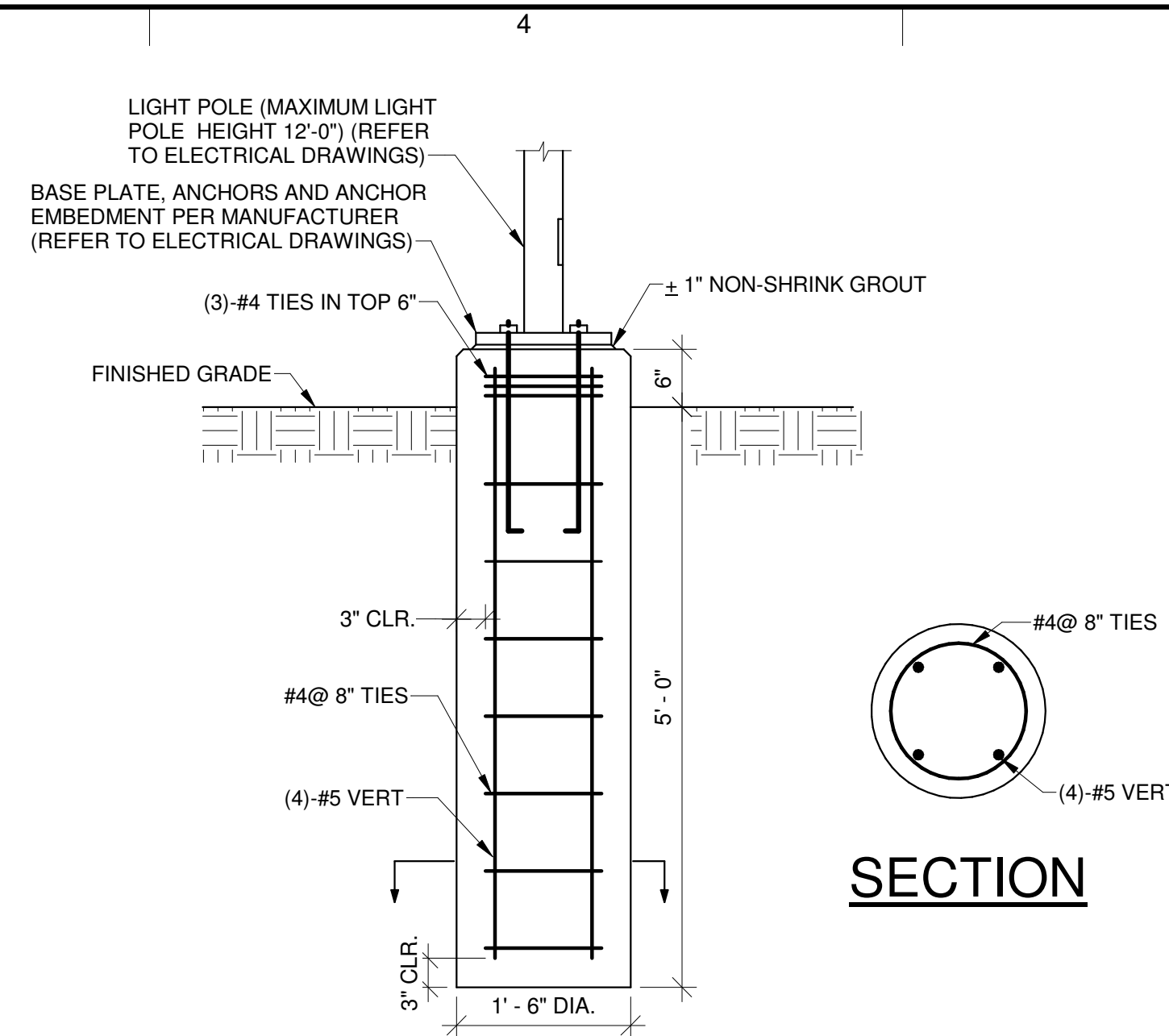
NOT TO SCALE



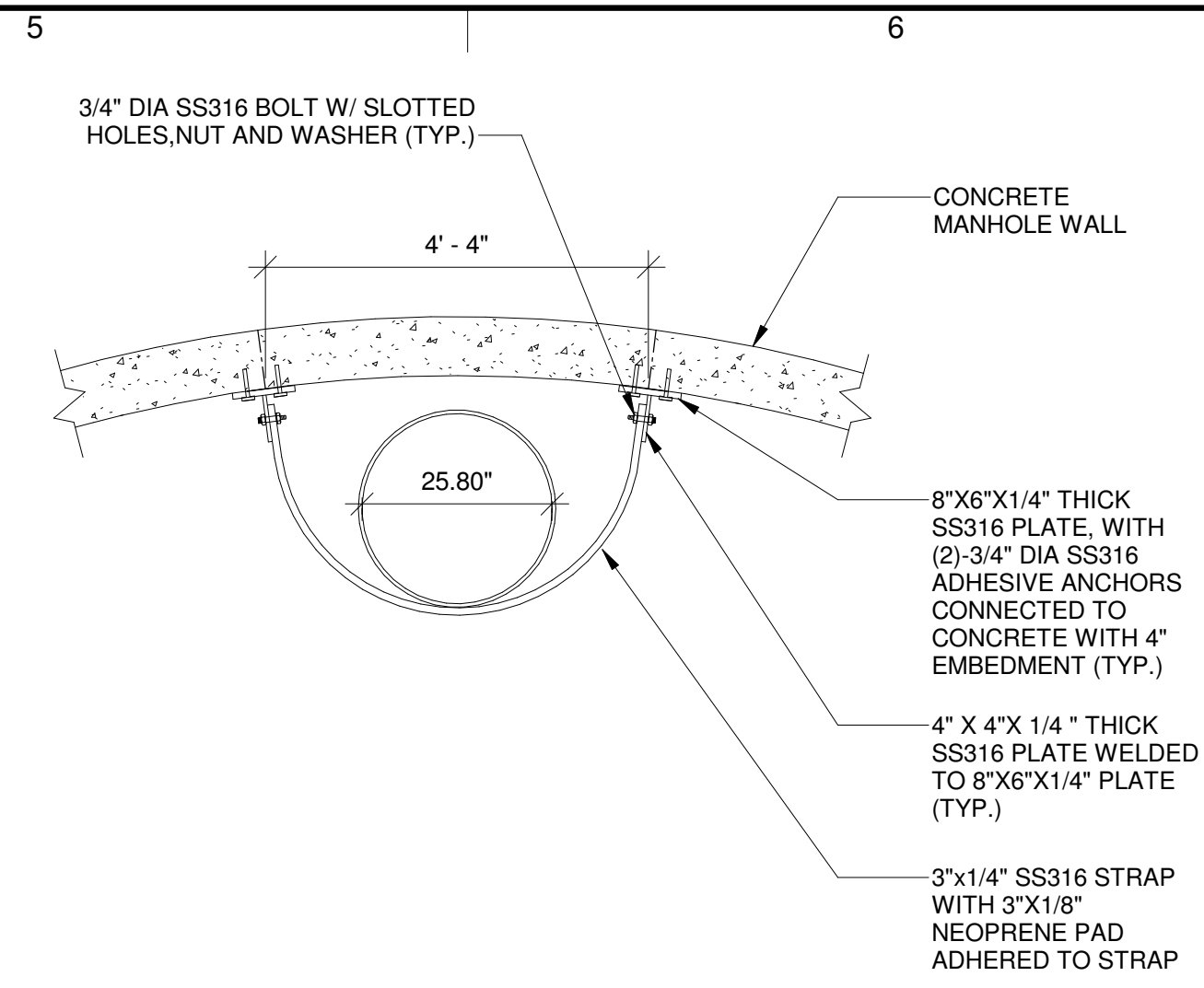
**TYPICAL REINFORCING AROUND OPENING IN WALL AND SLAB**  
SCALE: NOT TO SCALE

**NOTES:**

1. PROVIDE ADDITIONAL REINFORCEMENT AT EACH SIDE OF ALL OPENINGS, ACCESS HATCHES, PIPE PENETRATIONS, ETC. EQUAL IN AREA TO 1/2 OR MORE THE AREA OF REINFORCEMENT CUT BY OPENING IN EACH DIRECTION. ADDITIONAL REINFORCEMENT TO MATCH SIZE OF TYPICAL REINFORCEMENT (MIN. 2 BARS ES AND EF) AND PLACED BETWEEN TYPICAL REINFORCEMENT @3" SPACING ON EACH SIDE OF OPENING. IF A WALL OR BEAM IS ADJACENT TO THE OPENING, THE ADDITIONAL REINFORCEMENT ON THAT SIDE OF THE OPENING CAN BE OMITTED.
2. ANY OPENING 6" OR LESS TO AN ADJACENT WALL DOES NOT REQUIRE ADDITIONAL REINFORCEMENT AT THAT SIDE OF OPENING.
3. PROVIDE MATCHING DOWELS WHERE REQUIRED TO PROVIDE CLASS "B" LAP WITH ADDITIONAL REINFORCEMENT. (WHERE LAPPING OF ADDITIONAL REINFORCEMENT FROM ADJACENT OPENINGS OCCUR, ADDITIONAL REINFORCEMENT SHALL BE COMBINED).
4. PROVIDE STANDARD HOOK AT END OF ALL BARS TERMINATING AT OPENING.
5. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES OR INSERTS.



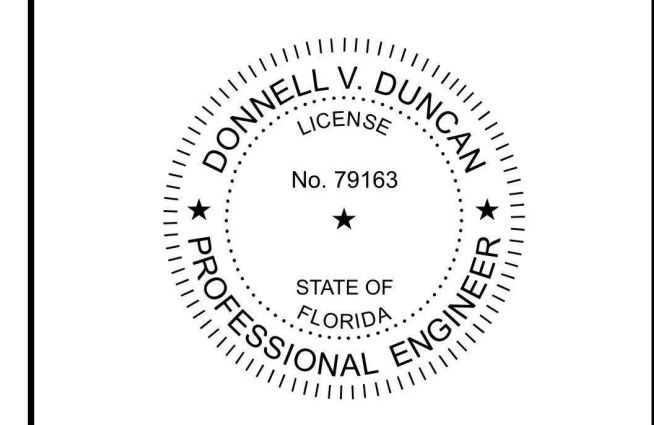
**LIGHT POLE FOUNDATION DETAIL**  
SCALE: NOT TO SCALE



**TYPICAL STRAP DETAIL FOR VORTEX FLOW INSERT HEAD**  
SCALE: NOT TO SCALE

**NOTES:**

1. REFER TO SPECIFICATION SECTION 33 05 13 FOR DIMENSION OF THE VORTEX FLOW INSERT.
2. PROVIDE MINIMUM TWO STRAPS TO THE VORTEX DROP HEAD.



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HOME DEPOT MPS AND FM

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DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: S-3D-SS\_R21  
DESIGNED BY: HOUSAM HOBI  
DRAWN BY: VINOD NAIR  
CHECKED BY: DONNELL DUNCAN

SHEET TITLE

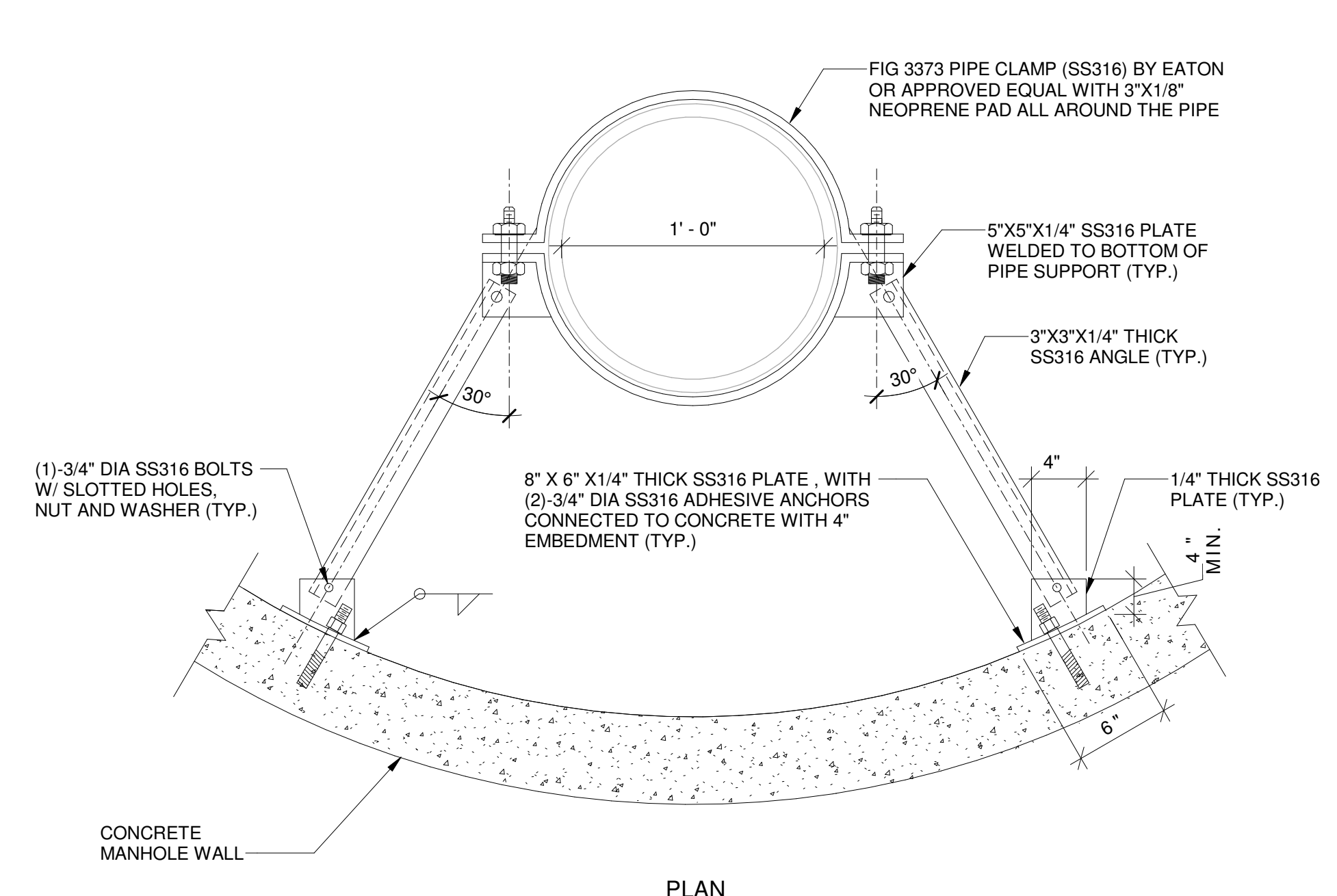
STRUCTURAL

TYPICAL DETAILS

SCALE: NOT TO SCALE

S-05 Approved  
SHEET 40 OF 58  
2025-10-30  
Mark A. Brown  
10/30/2025

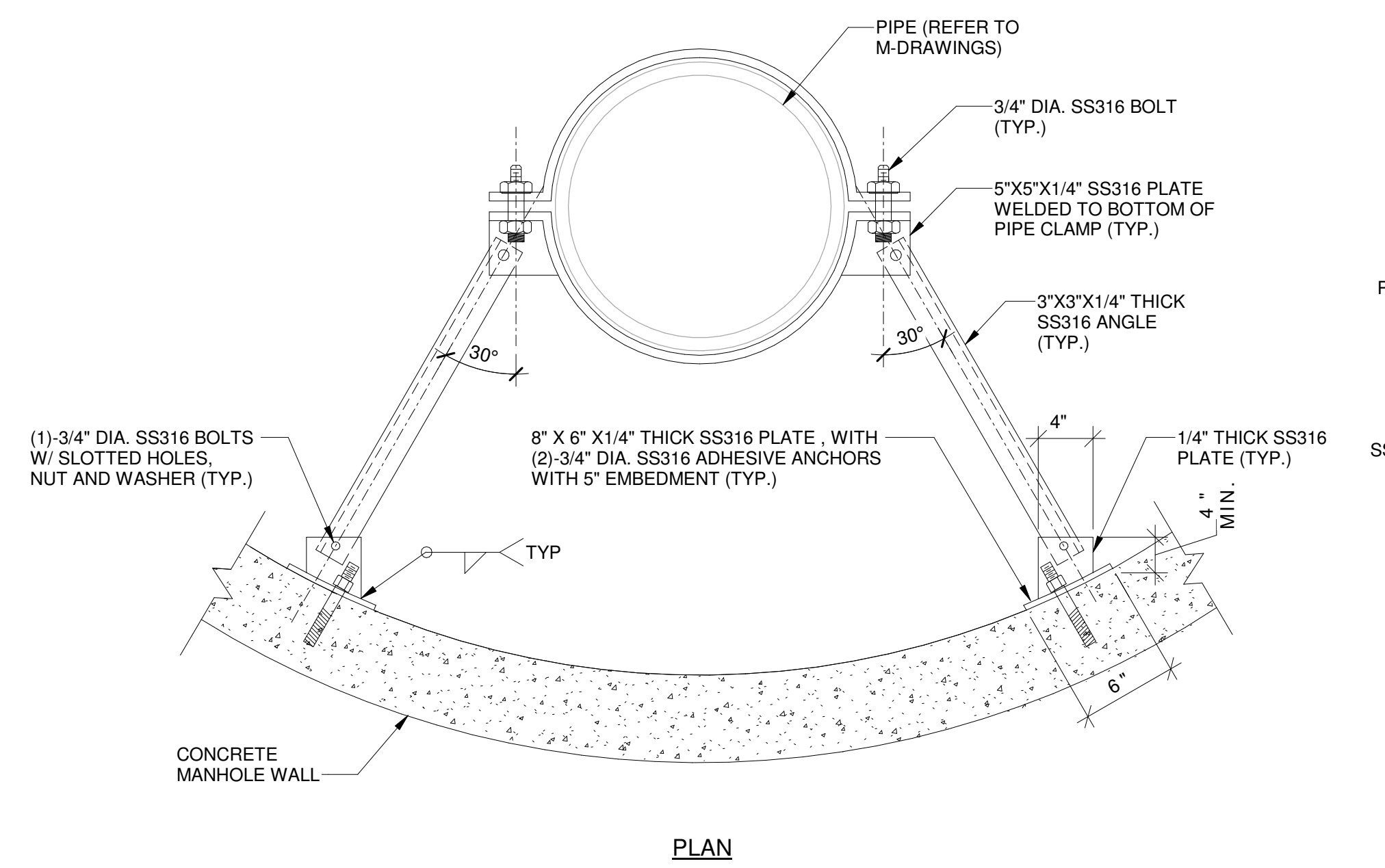
BIM 360//AUS-30036073-Home Depot LS and FM/S-3D-SS\_R21.rvt  
29-10-2025 10:37:53



**TYPICAL LATERAL PIPE SUPPORT DETAIL FOR VORTEX FLOW INSERT PIPE**  
SCALE: NOT TO SCALE

**NOTES:**

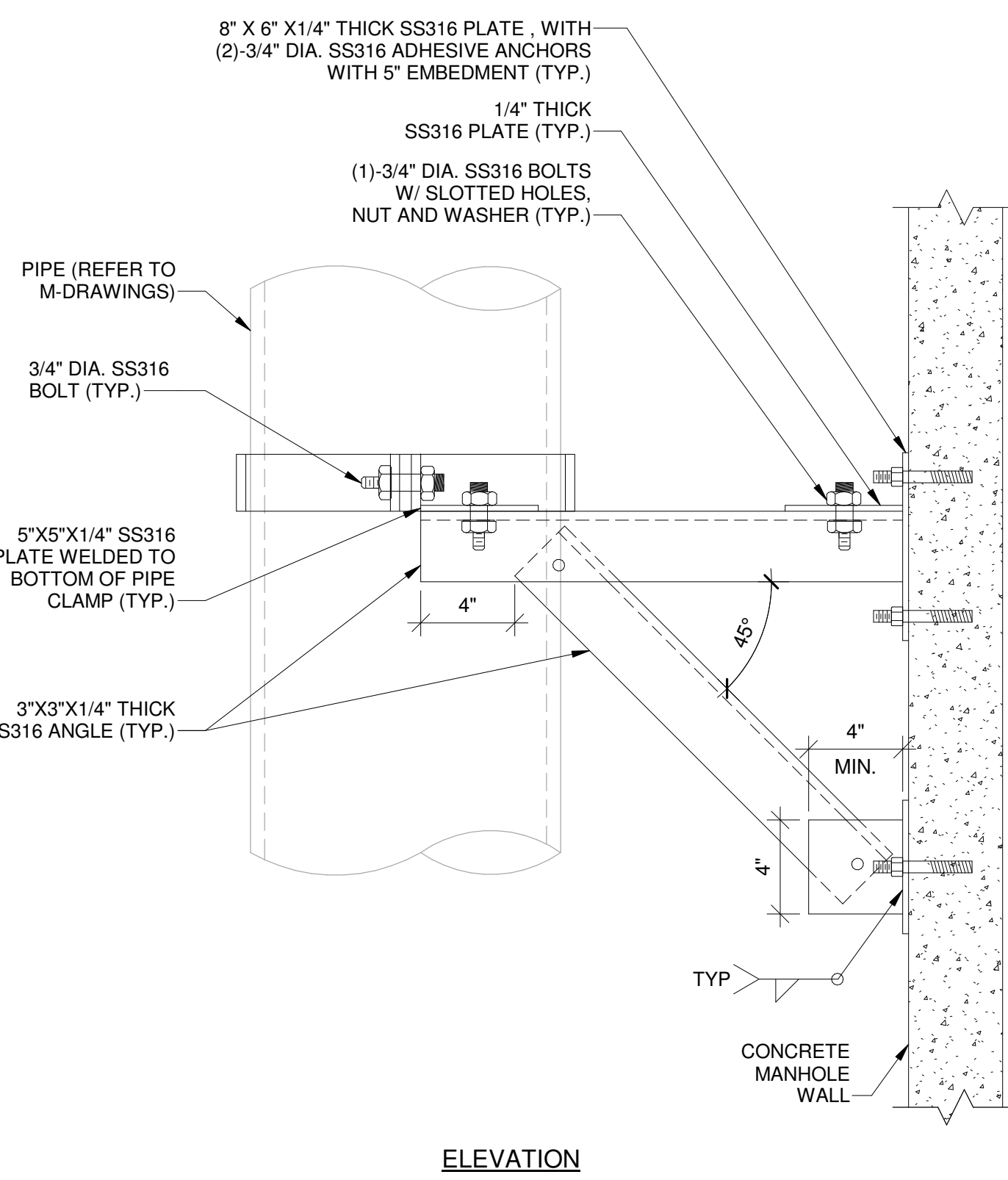
1. REFER TO SPECIFICATION SECTION 33 05 13 FOR DIMENSION OF THE VORTEX FLOW INSERT.
2. PROVIDE MINIMUM THREE SUPPORTS EQUALLY SPACED TO THE VORTEX DROP PIPE (ONE NEAR EACH COUPLING).



**TYPICAL PIPE SUPPORT DETAIL**  
SCALE: NOT TO SCALE

**NOTES:**

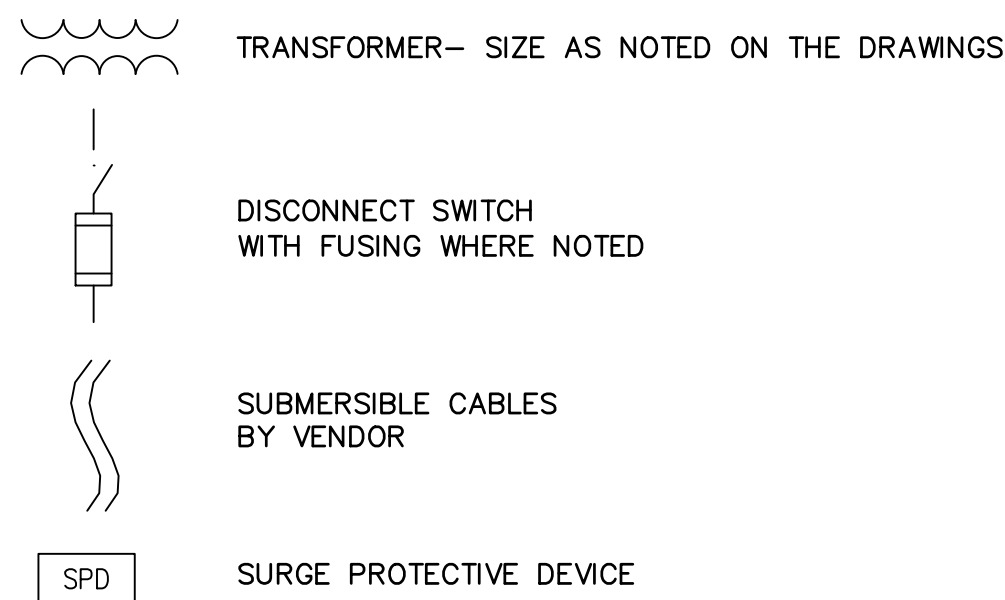
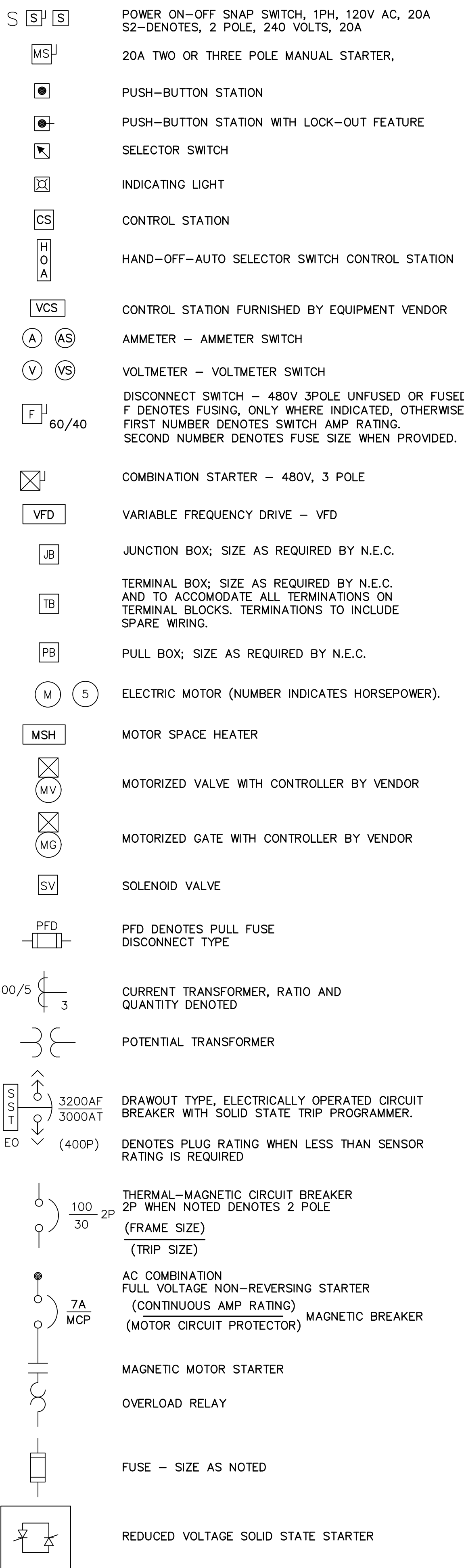
1. REFERENCE MECH. DRAWINGS FOR PIPE SIZE AND LOCATION.
2. FIELD VERIFY THE DISTANCE BETWEEN THE PIPE AND WALL BEFORE FABRICATION.



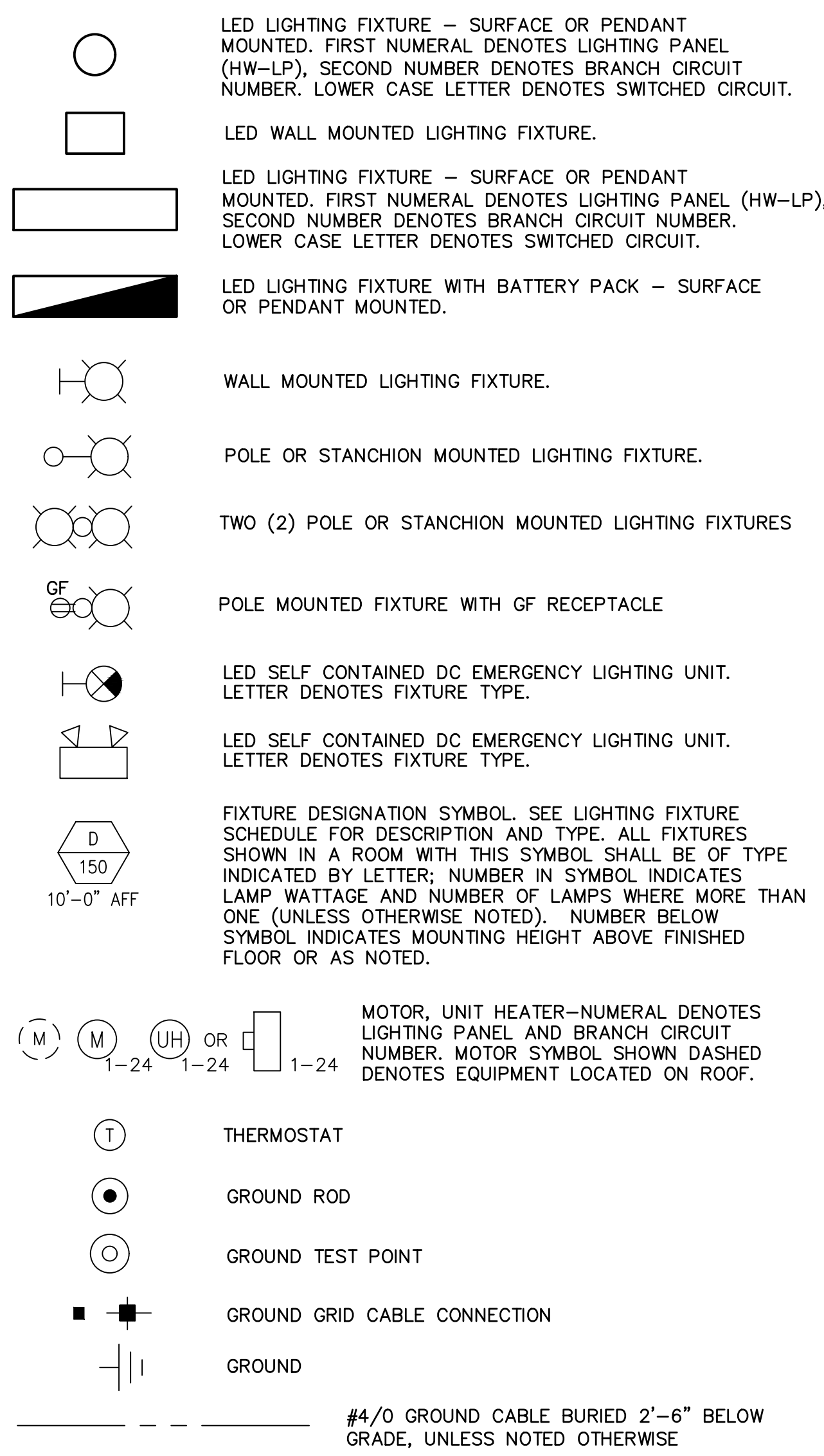
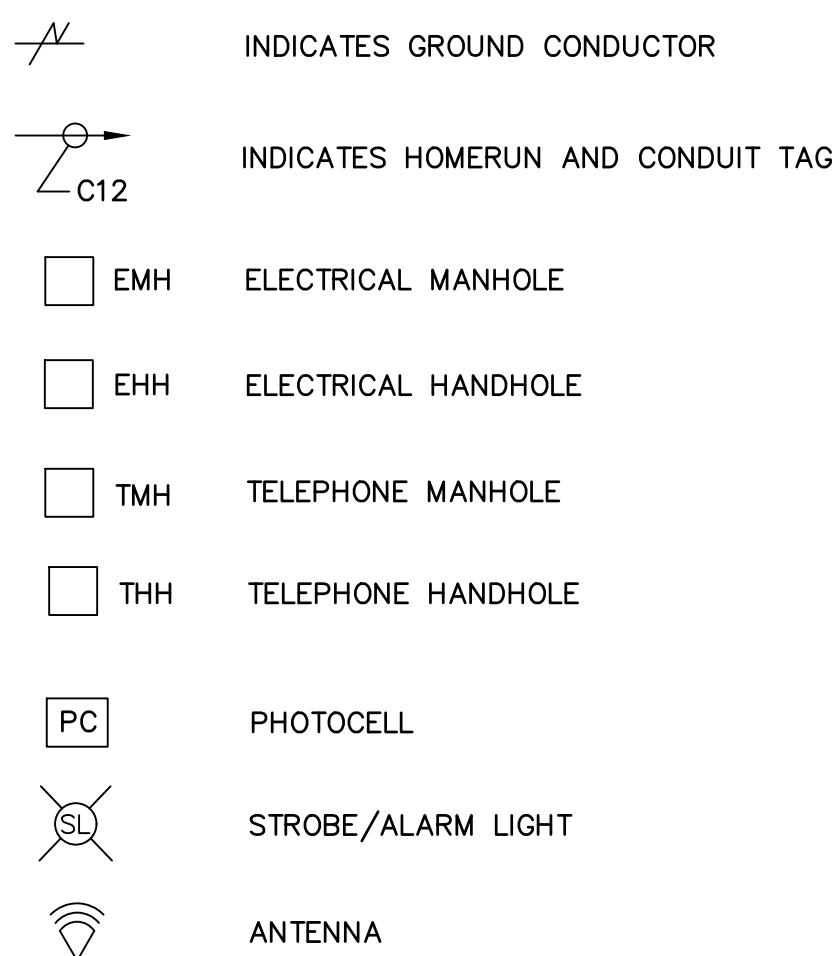
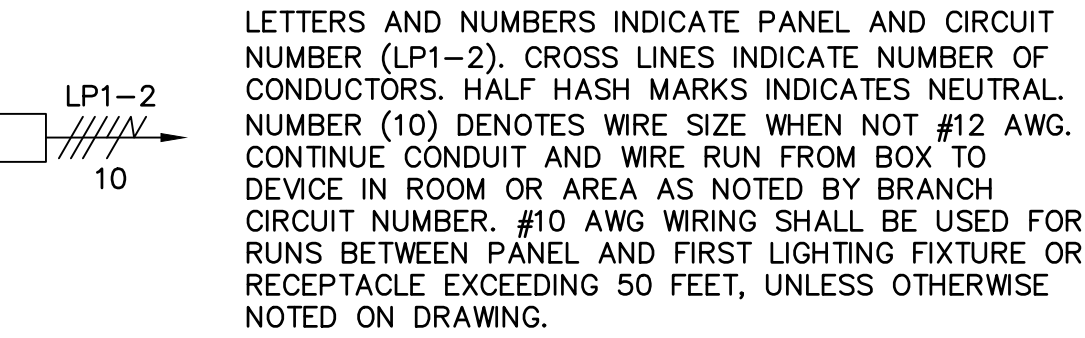
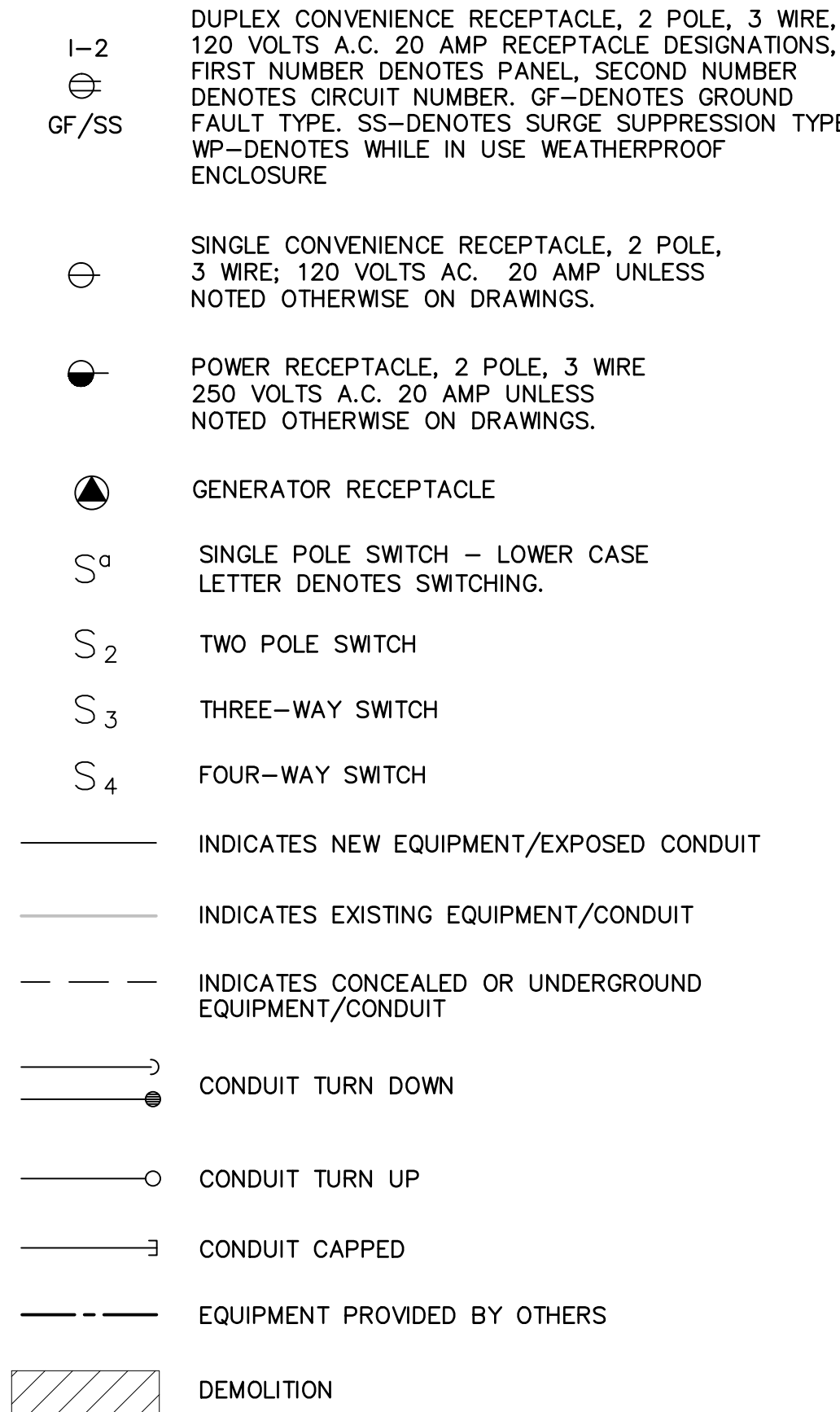
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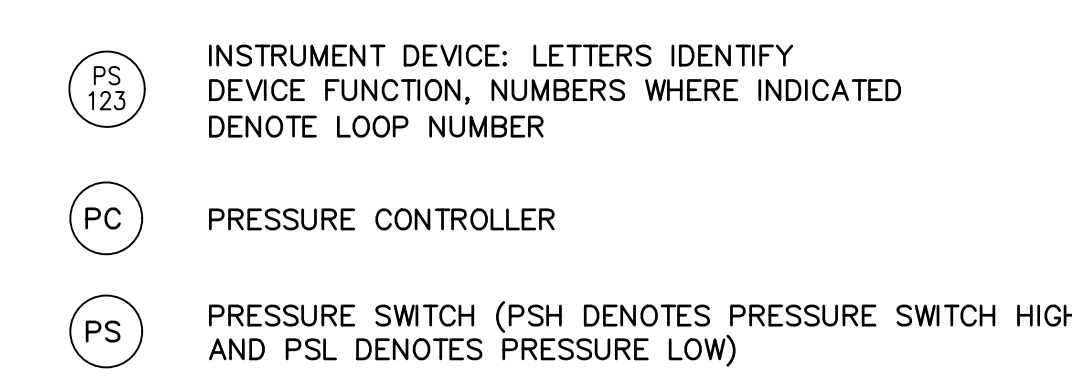
DIAGRAMS:



PLANS:



INSTRUMENTS:



DEMOLITION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING ALL EQUIPMENT SHOWN AS DEMOLITION PRIOR TO DEMOLISH.
- WIRING COORDINATION SHALL CREATE POINT-TO-POINT CONNECTION WIRING DIAGRAMS FOR EACH EXISTING PLC PANEL PRIOR TO DEMOLITION. SEE SPECIFICATION SECTION 16050 FOR WIRING COORDINATOR REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING, PROTECTING, RE-TERMINATING AND TESTING BOTH WIRING AND CONNECTIONS TO EACH NEW PLC PANEL. REFER TO RECORD DRAWINGS AND INSTRUMENTATION DRAWINGS FOR MORE INFO.
- CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING AND EXPOSED CONDUIT/FLEXIBLE CONDUIT SHOWN FOR DEMOLITION, UON. ALL EXISTING UNDERGROUND CONDUIT SHALL BE REUSED WHERE FEASIBLE.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION THAT IS TO REMAIN.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES AND EQUIPMENT THAT ARE TO REMAIN. THIS INCLUDES ANY EXTENSION OR RE-ROUTING OF EXISTING CIRCUITING AFFECTED BY DEMOLITION. NO EQUIPMENT MARKED FOR DEMOLITION SHALL BE DAMAGED OR DISCARDED WITHOUT PREVIOUS COORDINATION WITH AND APPROVAL BY THE OWNER.
- REMOVE ALL WIRING, CONDUIT, OUTLET BOXES, SUPPORTS AND FASTENERS AS NECESSARY TO AVOID ANY CONFLICTS WITH THE NEW INSTALLATION.

ABBREVIATIONS:

A	AMPERES	KVA	THOUSAND VOLT AMPERES
ABI	ALTERNATE BID ITEM	KW	KILOWATTS
AC	ALTERNATING CURRENT	LA	LIGHTNING ARRESTOR
AFF	ABOVE FINISHED FLOOR	LCP	LOCAL CONTROL PANEL
AFG	ABOVE FINISHED GRADE	LS	LEVEL SWITCH
AHU	AIR HANDLING UNIT	LOS	LOCK-OUT-STOP
AL	ALUMINUM	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	M	MOTOR
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BKR	BREAKER	MCP	MOTOR CIRCUIT PROTECTOR
BLDG	BUILDING	MFR	MANUFACTURER
C, CND	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTG	MOUNTING
CBV	CABLE BY VENDOR, INSTALLED BY CONTRACTOR	MTS	MANUAL TRANSFER SWITCH
CKT	CIRCUIT	NA	NON-AUTOMATIC
CNTRL	CONTROL	N/A	NOT APPLICABLE
CP	CONTROL PANEL	NCTC	NORMALLY CLOSED, TIME CLOSE
CPT	CONTROL POWER TRANSFORMER	NCTO	NORMALLY OPEN, TIME OPEN
CS	CONTROL STATION	NEC	NATIONAL ELECTRIC CODE
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
DB	DECIBEL	NTS	NOT TO SCALE
DC	DIRECT CURRENT	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DN	DOWN	OL	OVERLOAD RELAY
DISC	DISCONNECT	PB	PULL BOX
DPDT	DOUBLE POLE DOUBLE THROW	PDU	POWER DISTRIBUTION UNIT
DS	DISCONNECT SWITCH	PFC	POWER FACTOR CORRECTION CAPACITORS
EC	EMPTY CONDUIT	PFD	PULL FUSE DISCONNECT
EHH	ELECTRICAL HANDHOLE	PLC	PROGRAMMABLE LOGIC CONTROLLER
EL, ELEV	ELEVATION	PNL	PANEL
EMH	ELECTRICAL MANHOLE	PT	POTENTIAL TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
EP	EXPLOSION PROOF	RECEP	RECEPTACLE
EXIST	EXISTING	RGS	RIGID GALVANIZED STEEL
FACP	FIRE ALARM CONTROL PANEL	SL	SECTION LENGTH
FDR	FEEDER	SP	SPARE
FEXC	FIRE EXTINGUISHER CABINET	SPD	SURGE PROTECTION DEVICE
FIXT	FIXTURE	SST	STAINLESS STEEL
FT	FEET OR FOOT	SW	SWITCH
FVNR	FULL VOLTAGE NON-REVERSING	SWB,SWBD	SWITCHBOARD
GALV	GALVANIZED	SWGR	SWITCHGEAR
GEC	GROUNDING ELECTRODE CONDUCTOR	TB-P	TERMINAL BOX FOR POWER WIRES
G, GND	GROUND	TB-S	TERMINAL BOX FOR COMMUNICATION WIRES
GFI	GROUND FAULT INTERRUPTOR	TEW	THERMOCOUPLE EXTENSION WIRE
HH	HAND HOLE	TPS	TWISTED PAIR, SHIELDED
HOA	HAND/OFF/AUTO	TYP	TYPICAL
HZ	HERTZ	UG	UNDERGROUND
ISO	ISOLATION	UON	UNLESS OTHERWISE NOTED
JB	JUNCTION BOX, CONDUIT, FITTING AS REQUIRED BY NEC, UNLESS OTHERWISE NOTED	UPS	UNINTERRUPTIBLE POWER SUPPLY
KAIC	THOUSAND AMPERES INTERRUPTING CURRENT	V	VOLTS
KCML	THOUSAND CIRCULAR MILS	VAC	VOLTS ALTERNATING CURRENT
		VFD	VARIABLE FREQUENCY DRIVE
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL NOTES:

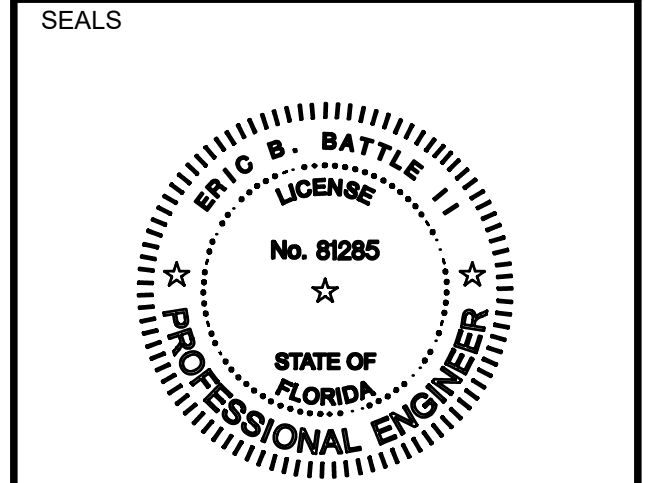
- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO THE PLANS AND SPECIFICATIONS FOR ALL DISCIPLINES. THIS WILL ENSURE THAT HE UNDERSTANDS THE FULL SCOPE OF WORK AND IS ABLE TO CONVEY THE REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.
- PROVIDE MEANS TO FURNISH AND INSTALL.
- COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. DO NOT SCALE FROM THESE DRAWINGS.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ANY ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN CONSENT FROM THE ENGINEER AND OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCED EDITION OF THE NATIONAL ELECTRIC CODE, NATIONAL ELECTRIC SAFETY CODE, LIFE SAFETY CODE, FLORIDA BUILDING CODE AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE U.O.N.
- PROVIDE ALL ABOVEGROUND CONDUIT HUBS WITH SEALS.
- PROVIDED BY OTHERS AS PART OF PACKAGED EDR SYSTEM



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2024

DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: E-01

DESIGNED BY: ERIC BATTLE

DRAWN BY: VAN NGUYEN

CHECKED BY: ERIC BATTLE

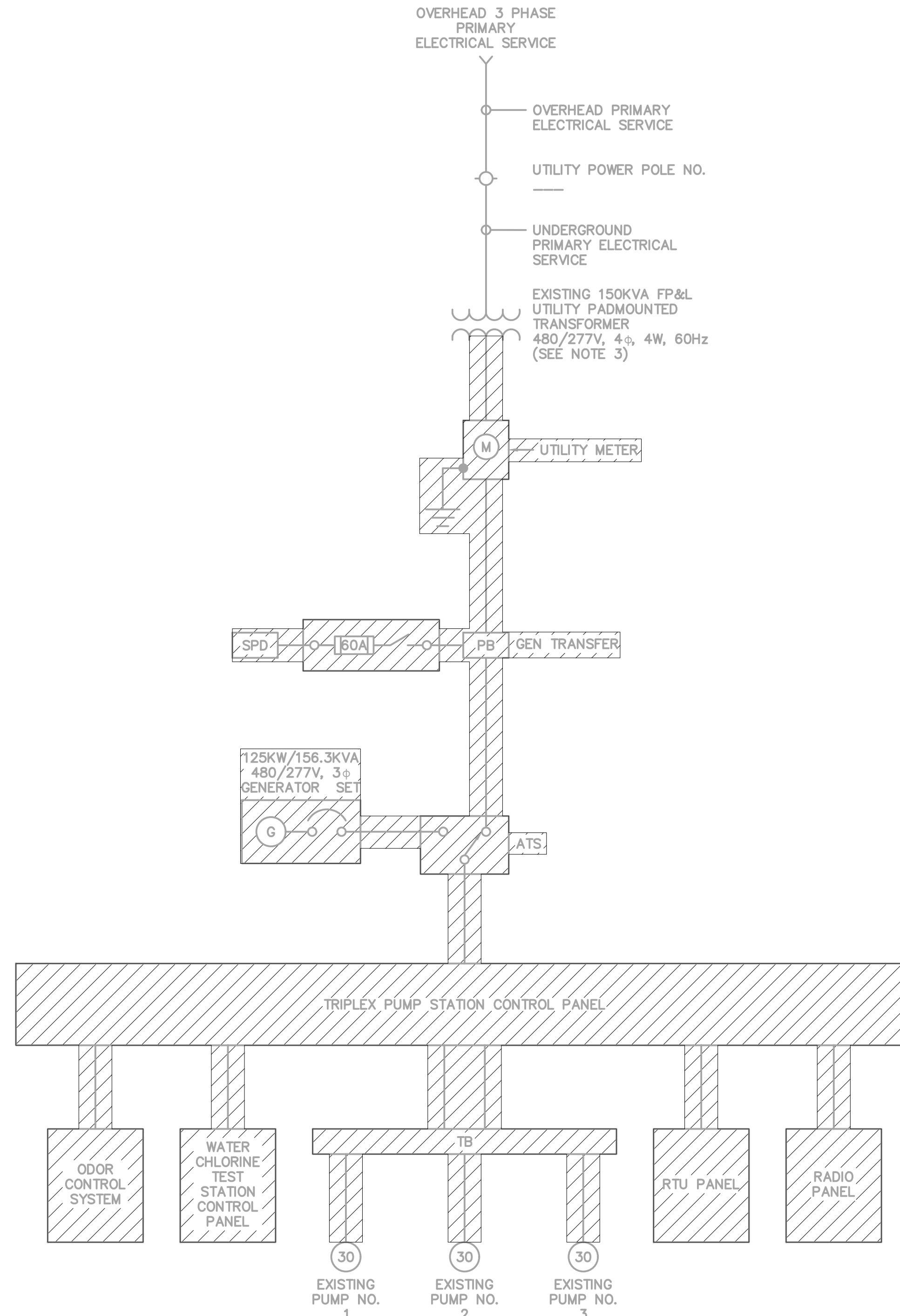
SHEET TITLE

ELECTRICAL

NOTES, LEGENDS & ABBREVIATIONS

SCALE: NOT TO SCALE

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**ONE LINE DIAGRAM – DEMOLITION**  
SCALE: NOT TO SCALE

**NOTES:**

1. INFORMATION CONTAINED ON THIS DRAWING HAS BEEN OBTAINED IN PART FROM EXISTING PUMP STATION ELECTRICAL DRAWINGS AND SHOP DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION AFFECTING THE WORK OF THIS CONTRACT AND REPORT ANY DISCREPANCIES PRIOR TO COMMENCING THE WORK.
2. ELECTRICAL EQUIPMENT INDICATED WITH HATCHING SHALL BE DISCONNECTED AND REMOVED IN ITS ENTIRETY FOR A COMPLETE DEMOLITION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL DISCONNECTION AND REMOVALS WITH THE ELECTRICAL UTILITY COMPANY.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY COMPANY, FLORIDA POWER & LIGHT (FPL), RELATIVE TO ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS FOR DE-ENERGIZATION OF SERVICE TO ALLOW FOR RELOCATION OF SECONDARY SERVICE FEEDERS.

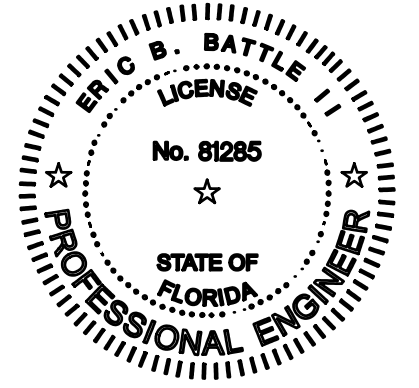


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DRAWN BY: VAN NGUYEN  
CHECKED BY: ERIC BATTLE

SHEET TITLE

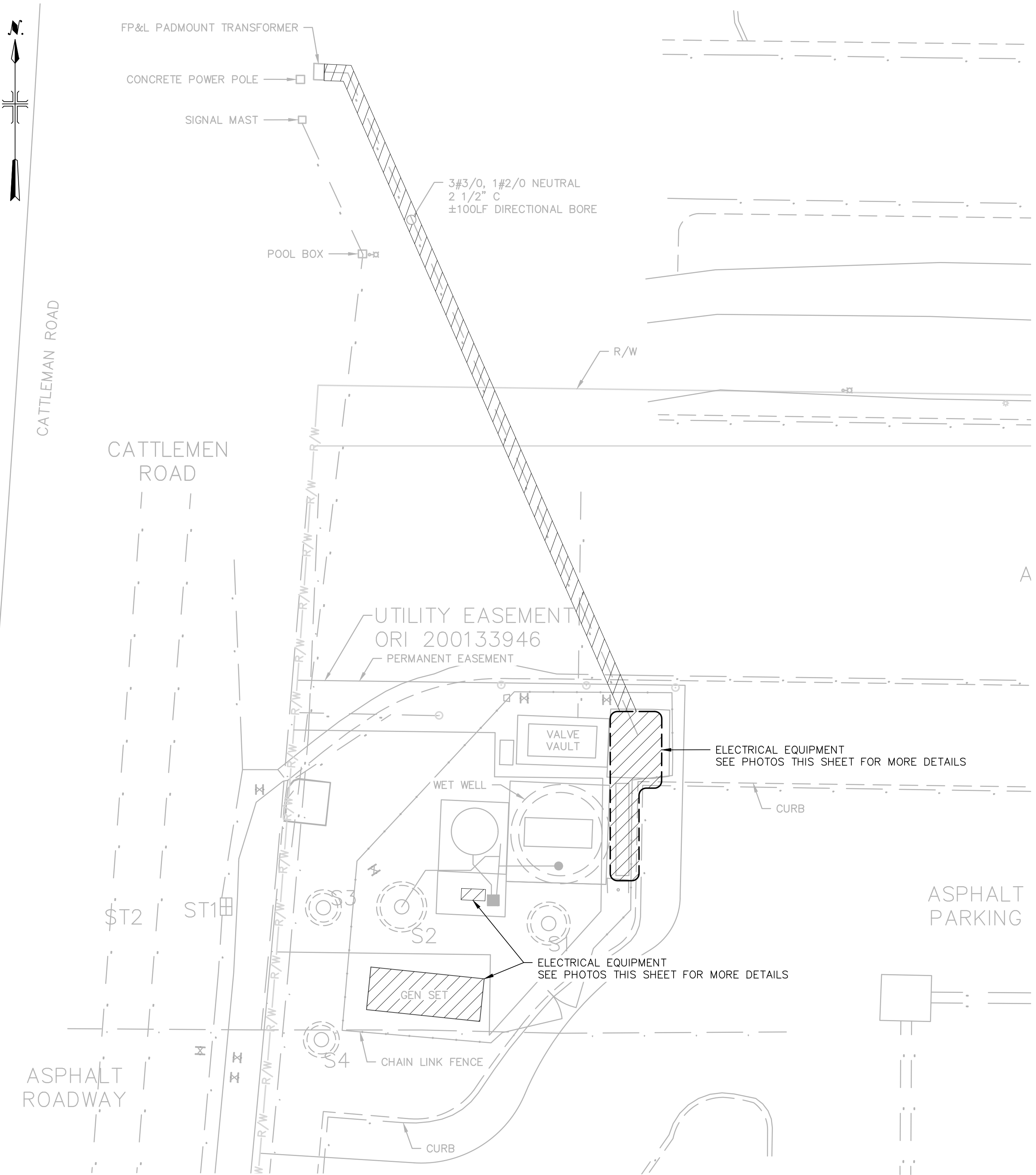
ELECTRICAL

**ONE LINE DIAGRAM  
- DEMOLITION**

SCALE: NOT TO SCALE

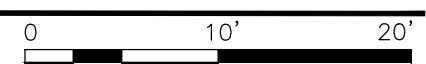
E-02 Approved  
SHEET 42 OF 58  
2025-10-30  
Mark A. Brown  
10/30/2025

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**SITE PLAN**

SCALE: 1" = 10'



**NOTES:**

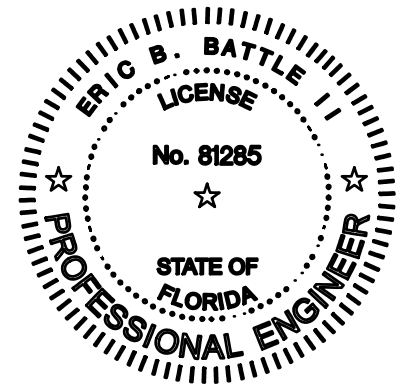
- CONTRACTOR SHALL FIELD VERIFY ROUTE OF THE EXISTING CABLE/WIRES AND CONDUITS.
- REFER E-01 FOR DEMOLITION NOTES.
- CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY COMPANY, FLORIDA POWER & LIGHT (FPL), RELATIVE TO ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS FOR DE-ENERGIZATION OF SERVICE TO ALLOW FOR RELOCATION OF SECONDARY SERVICE FEEDERS.



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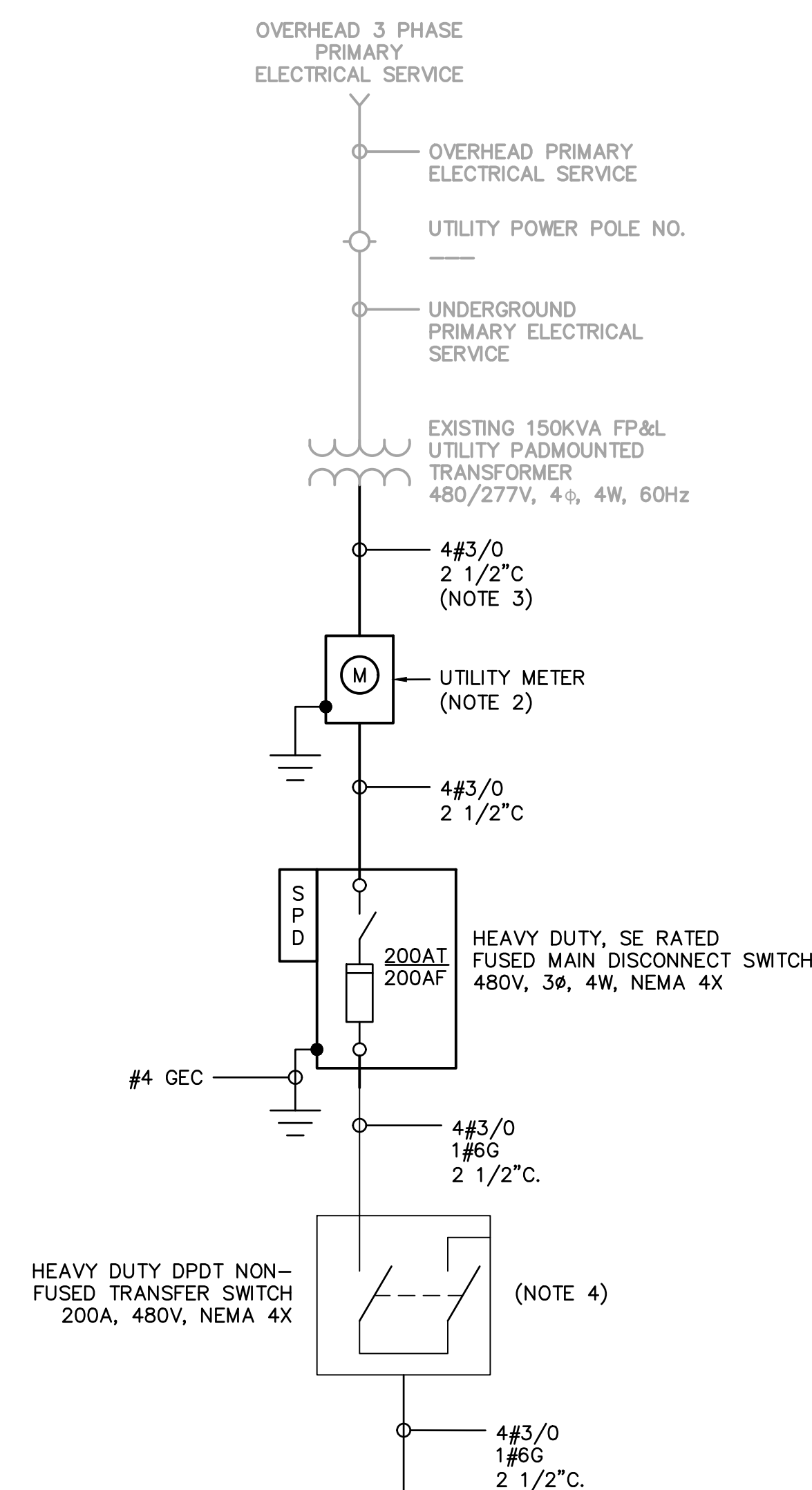
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ELECTRICAL

**SITE PLAN -  
DEMOLITION**

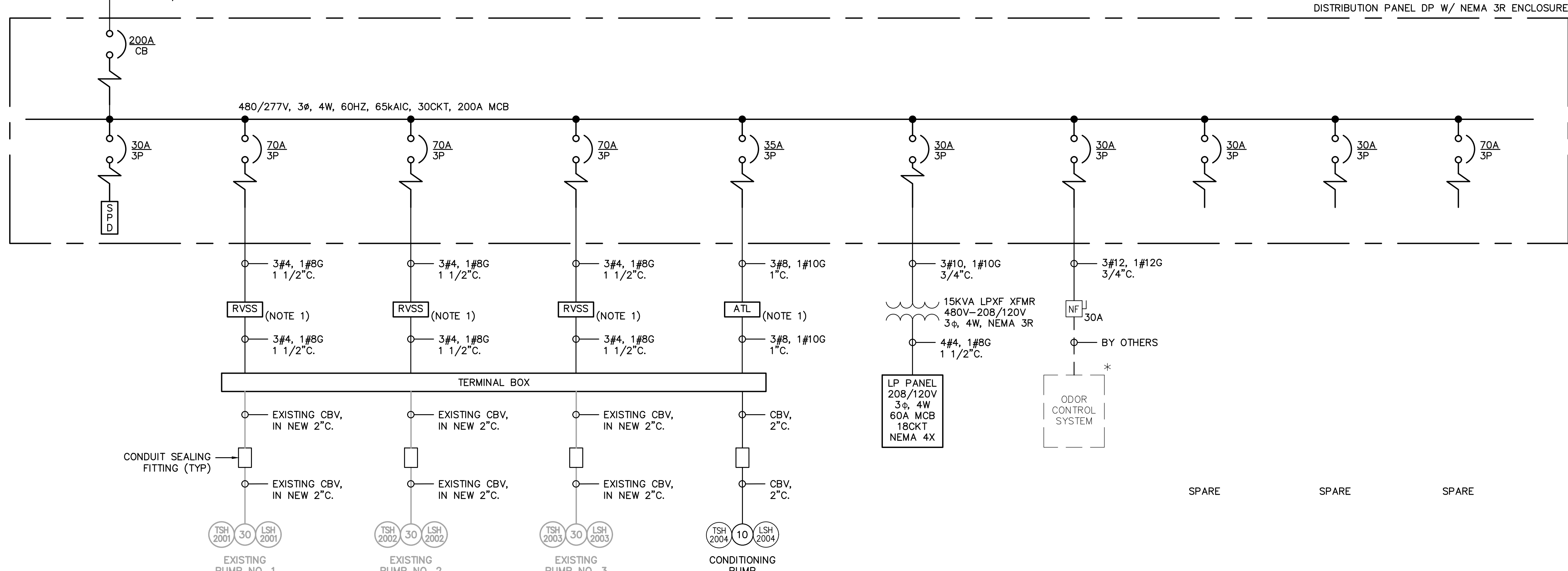
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DISTRIBUTION PANEL DP LOAD CALC			
EQUIPMENT	HP/KVA	CONNECTED LOAD (A)	RUNNING LOAD (A)
PUMP NO. 1	30 HP	40	40
PUMP NO. 2	30 HP	40	40
PUMP NO. 3	30 HP	40	40
CONDITIONING PUMP	10 HP	14	14
LPXL XFMR	15 KVA	18	14.4
ODOR CONTROL SYSTEM	10 KVA	12	12
<b>SUBTOTAL</b>		<b>164.00</b>	<b>160.40</b>
25% OF LARGEST MOTOR			10.00
<b>LOAD PER NEC 430.24</b>			<b>170.40</b>

- NOTES:
- EACH STARTER CABINET SHALL BE PROVIDED WITH A CIRCUIT BREAKER WITH A LOCKABLE HANDLE THROUGH THE INNER DOOR.
  - PROVIDE A NEW UTILITY METER AND COORDINATE FINAL METER LOCATION WITH THE ELECTRICAL UTILITY COMPANY. THE METER IS TO BE PROVIDED BY THE ELECTRICAL UTILITY COMPANY. THE METER SOCKET IS TO BE PROVIDED BY THE CONTRACTOR PER THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE ELECTRICAL UTILITY COMPANY.
  - DUE TO ROADWAYS, TREES AND OTHER OBSTRUCTIONS – THE NEW CONDUIT SHALL BE INSTALLED USING JACK & BORING METHODS.
  - CONTRACTOR SHALL MAKE AS NEEDED KNOCKOUT PUNCHES AT BOTTOM OF MANUAL TRANSFER SWITCH TO BE AVAILABLE FOR PORTABLE GENERATOR CONNECTIONS.
- \* PROVIDED BY OTHERS



**ONE LINE DIAGRAM**  
SCALE: NOT TO SCALE

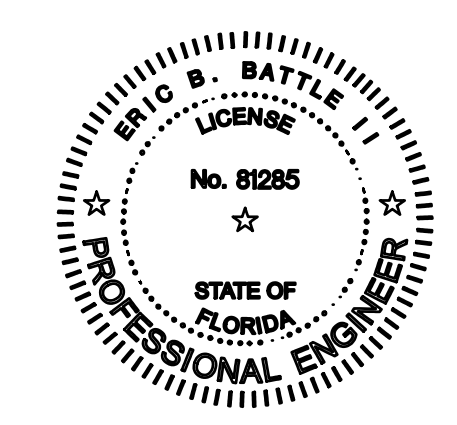


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CHECKED BY: ERIC BATTLE

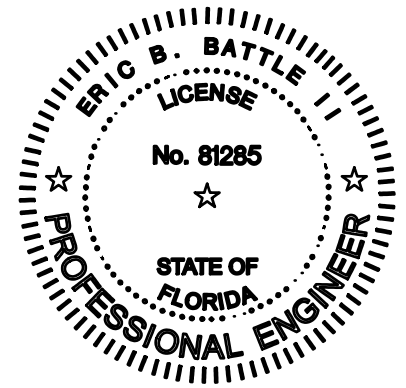
SHEET TITLE

ELECTRICAL

**ONE LINE DIAGRAM**

SCALE: NOT TO SCALE

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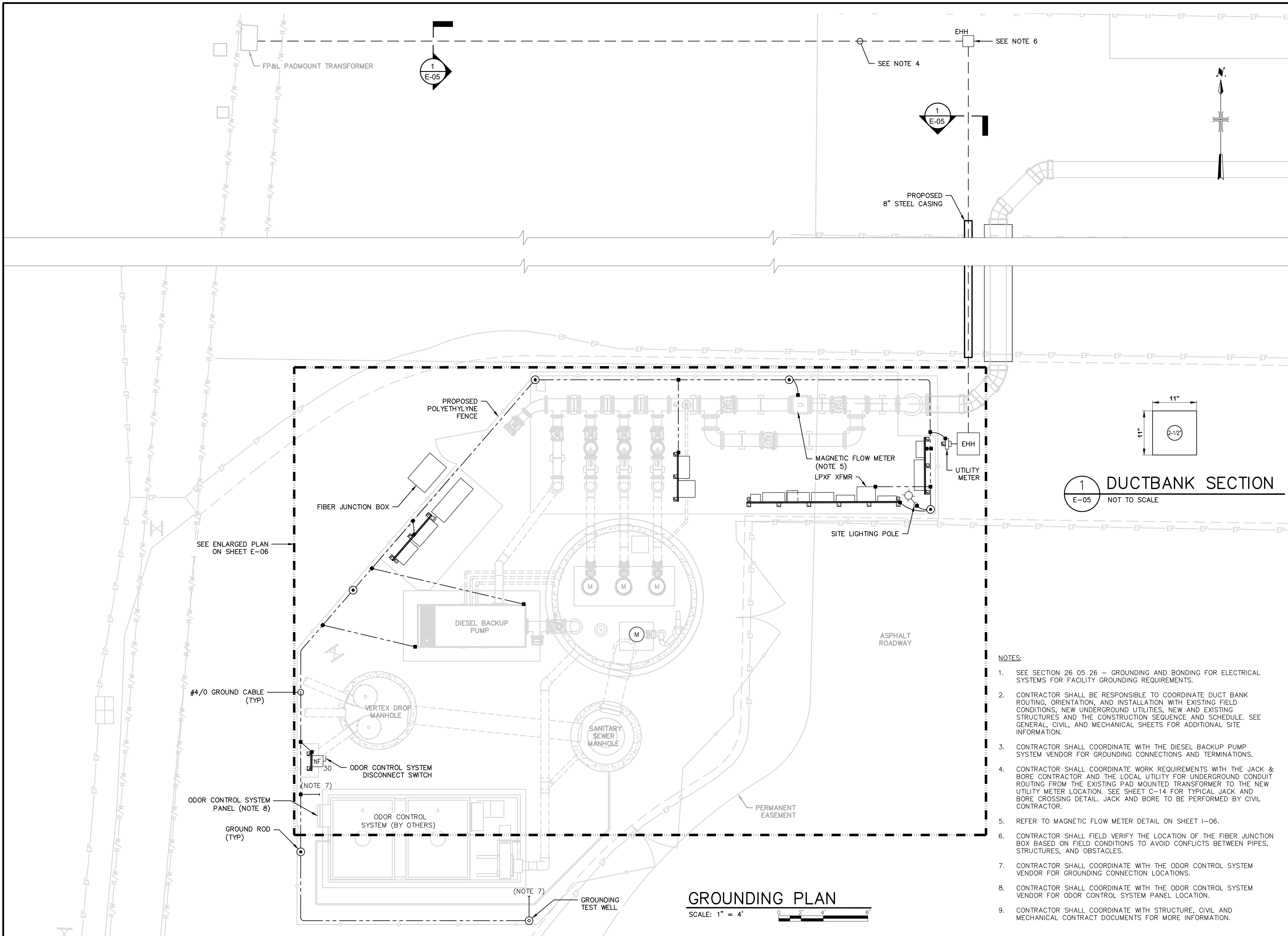
SHEET TITLE

ELECTRICAL

SITE PLAN AND  
GROUNDING PLAN

SCALE: AS SHOWN

E-05 Approved  
2025-10-30  
SHEET 45 OF 58  
Mark A. Brown  
10/30/2025



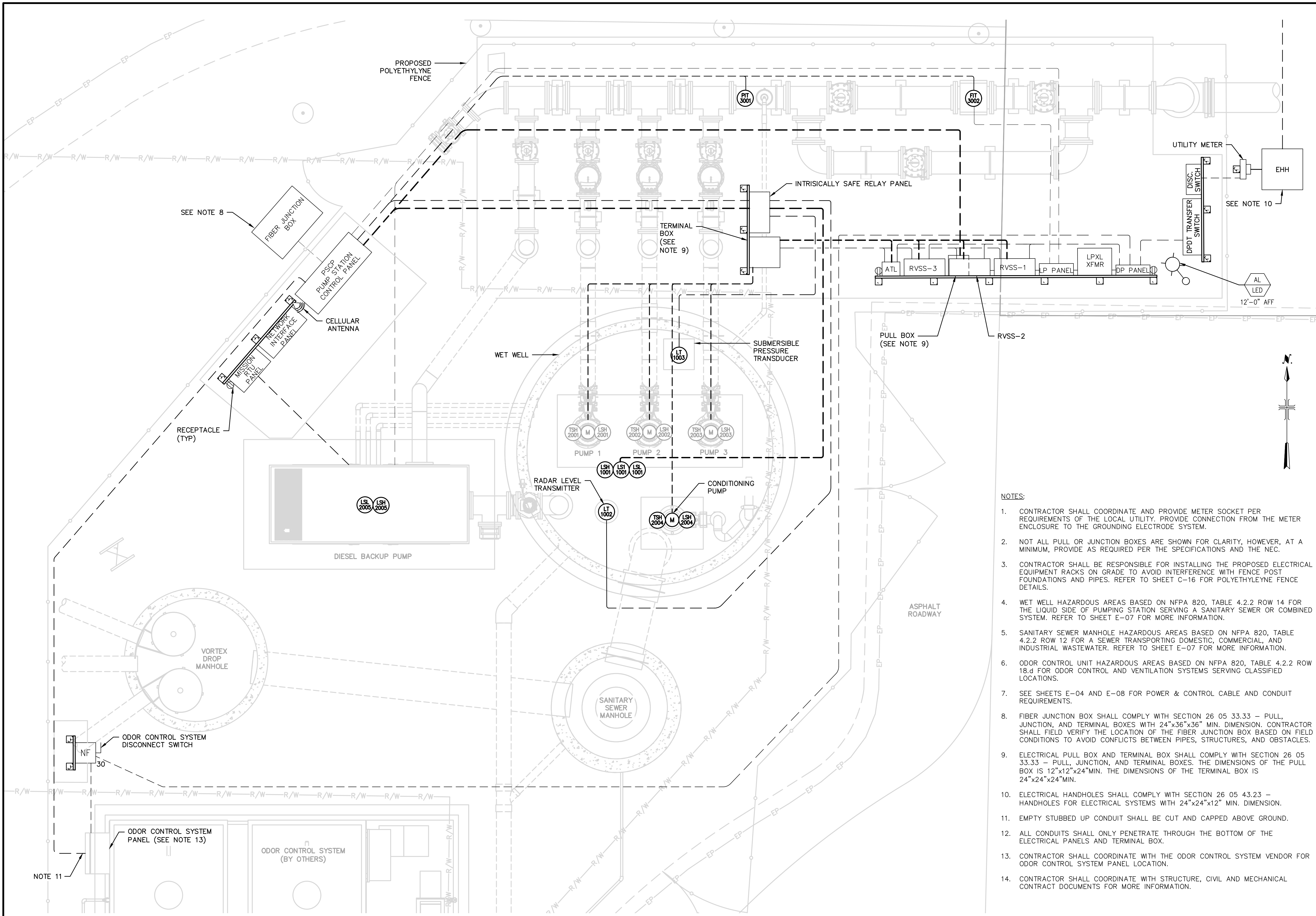
1 DUCTBANK SECTION  
E-05 NOT TO SCALE

NOTES:

- SEE SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS FOR FACILITY GROUNDING REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DUCT BANK ROUTING, ORIENTATION, AND INSTALLATION WITH EXISTING FIELD CONDITIONS, NEW UNDERGROUND UTILITIES, NEW AND EXISTING STRUCTURES AND THE CONSTRUCTION SEQUENCE AND SCHEDULE. SEE GENERAL, CIVIL, AND MECHANICAL SHEETS FOR ADDITIONAL SITE INFORMATION.
- CONTRACTOR SHALL COORDINATE WITH THE DIESEL BACKUP PUMP SYSTEM VENDOR FOR GROUNDING CONNECTIONS AND TERMINATIONS.
- CONTRACTOR SHALL COORDINATE WORK REQUIREMENTS WITH THE JACK & BORE CONTRACTOR AND THE LOCAL UTILITY FOR UNDERGROUND CONDUIT ROUTING FROM THE EXISTING PAD MOUNTED TRANSFORMER TO THE NEW UTILITY METER LOCATION. SEE SHEET C-14 FOR TYPICAL JACK AND BORE CROSSING DETAIL. JACK AND BORE TO BE PERFORMED BY CIVIL CONTRACTOR.
- REFER TO MAGNETIC FLOW METER DETAIL ON SHEET I-06.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE FIBER JUNCTION BOX BASED ON FIELD CONDITIONS TO AVOID CONFLICTS BETWEEN PIPES, STRUCTURES, AND OBSTACLES.
- CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR GROUNDING CONNECTION LOCATIONS.
- CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR ODOR CONTROL SYSTEM PANEL LOCATION.
- CONTRACTOR SHALL COORDINATE WITH STRUCTURE, CIVIL AND MECHANICAL CONTRACT DOCUMENTS FOR MORE INFORMATION.

GROUNDING PLAN  
SCALE: 1" = 4'

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- NOTES:**
- CONTRACTOR SHALL COORDINATE AND PROVIDE METER SOCKET PER REQUIREMENTS OF THE LOCAL UTILITY. PROVIDE CONNECTION FROM THE METER ENCLOSURE TO THE GROUNDING ELECTRODE SYSTEM.
  - NOT ALL PULL OR JUNCTION BOXES ARE SHOWN FOR CLARITY, HOWEVER, AT A MINIMUM, PROVIDE AS REQUIRED PER THE SPECIFICATIONS AND THE NEC.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED ELECTRICAL EQUIPMENT RACKS ON GRADE TO AVOID INTERFERENCE WITH FENCE POST FOUNDATIONS AND PIPES. REFER TO SHEET C-16 FOR POLYETHYLENE FENCE DETAILS.
  - WET WELL HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 14 FOR THE LIQUID SIDE OF PUMPING STATION SERVING A SANITARY SEWER OR COMBINED SYSTEM. REFER TO SHEET E-07 FOR MORE INFORMATION.
  - SANITARY SEWER MANHOLE HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 12 FOR A SEWER TRANSPORTING DOMESTIC, COMMERCIAL, AND INDUSTRIAL WASTEWATER. REFER TO SHEET E-07 FOR MORE INFORMATION.
  - ODOR CONTROL UNIT HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 18.d FOR ODOR CONTROL AND VENTILATION SYSTEMS SERVING CLASSIFIED LOCATIONS.
  - SEE SHEETS E-04 AND E-08 FOR POWER & CONTROL CABLE AND CONDUIT REQUIREMENTS.
  - FIBER JUNCTION BOX SHALL COMPLY WITH SECTION 26 05 33.33 - PULL, JUNCTION, AND TERMINAL BOXES WITH 24"x36"x36" MIN. DIMENSION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE FIBER JUNCTION BOX BASED ON FIELD CONDITIONS TO AVOID CONFLICTS BETWEEN PIPES, STRUCTURES, AND OBSTACLES.
  - ELECTRICAL PULL BOX AND TERMINAL BOX SHALL COMPLY WITH SECTION 26 05 33.33 - PULL, JUNCTION, AND TERMINAL BOXES. THE DIMENSIONS OF THE PULL BOX IS 12"x12"x24"MIN. THE DIMENSIONS OF THE TERMINAL BOX IS 24"x24"x24"MIN.
  - ELECTRICAL HANDHOLES SHALL COMPLY WITH SECTION 26 05 43.23 - HANDHOLES FOR ELECTRICAL SYSTEMS WITH 24"x24"x12" MIN. DIMENSION.
  - EMPTY STUBBED UP CONDUIT SHALL BE CUT AND CAPPED ABOVE GROUND.
  - ALL CONDUITS SHALL ONLY PENETRATE THROUGH THE BOTTOM OF THE ELECTRICAL PANELS AND TERMINAL BOX.
  - CONTRACTOR SHALL COORDINATE WITH THE ODOR CONTROL SYSTEM VENDOR FOR ODOR CONTROL SYSTEM PANEL LOCATION.
  - CONTRACTOR SHALL COORDINATE WITH STRUCTURE, CIVIL AND MECHANICAL CONTRACT DOCUMENTS FOR MORE INFORMATION.

**Sarasota County**

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**ARCADIS**

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PROJECT NO.: 30036073

FILE NAME: E-06

DESIGNED BY: ERIC BATTLE

DRAWN BY: VAN NGUYEN

CHECKED BY: ERIC BATTLE

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SHEET TITLE

ELECTRICAL

---

ENLARGED PLAN

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SCALE: 1" = 2'

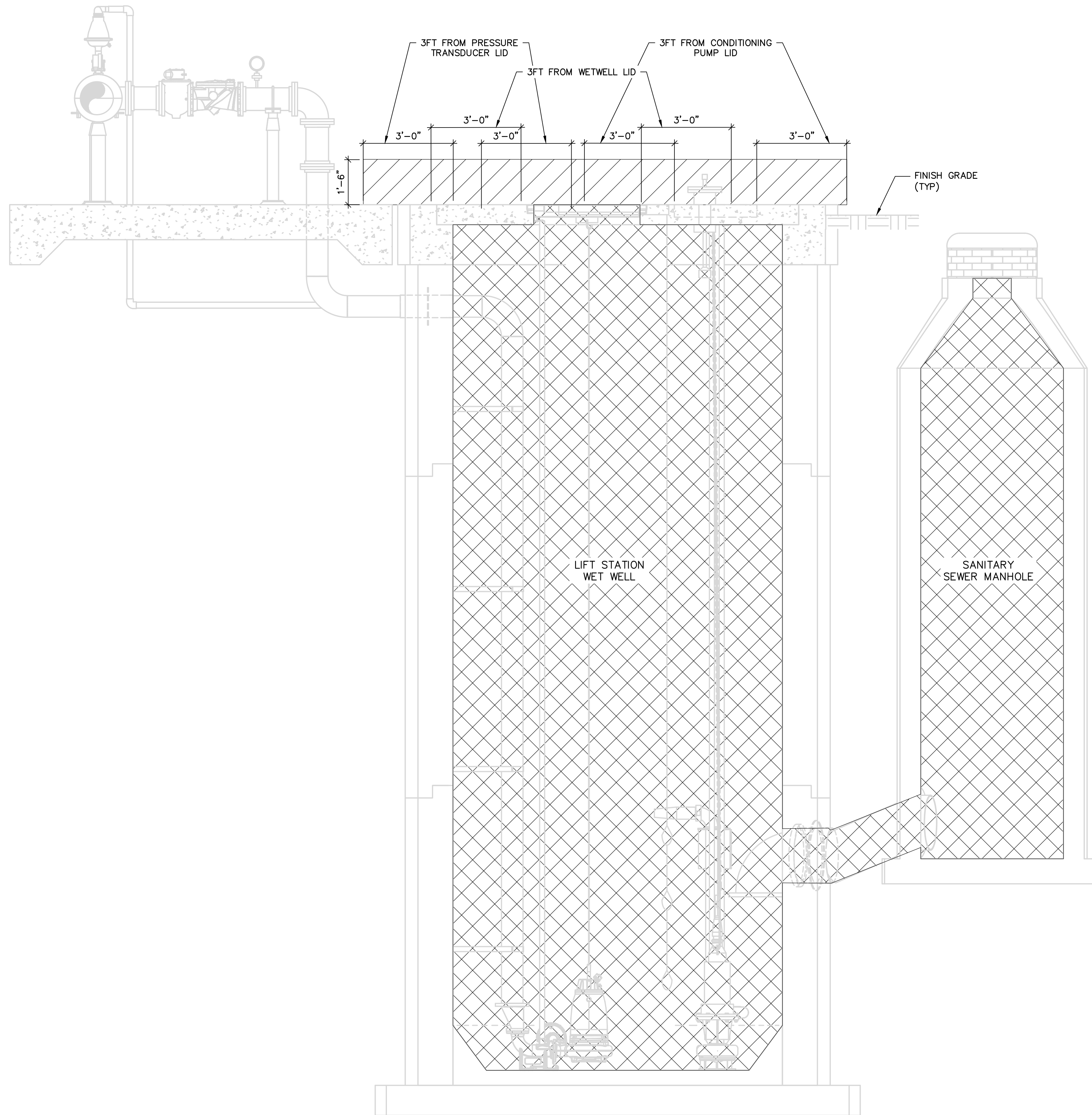
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E-06 Approved

SHEET 46 OF 58

2025-10-30  
Mark A. Brown  
10/30/2025

User: C:\Users\G\000709A\OneDrive\Projects\30036073-Home Depot LS and FM\PROJECT FILES\01-ELEC\07-DWG - Scale: 1:1 SavedDate: 10/28/2025 Time: 15:27 Plot Date: Venkatesh, Ganesh; 10/29/2025; 18:01; Layout: 38



- NOTES:**
1. WET WELL HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 14 FOR THE LIQUID SIDE OF A PUMPING STATION SERVING A SANITARY SEWER OF COMBINED SYSTEM.
  2. SANITARY SEWER MANHOLE HAZARDOUS AREAS BASED ON NFPA 820, TABLE 4.2.2 ROW 12 FOR A SEWER TRANSPORTING DOMESTIC, COMMERCIAL, AND INDUSTRIAL WASTEWATER.

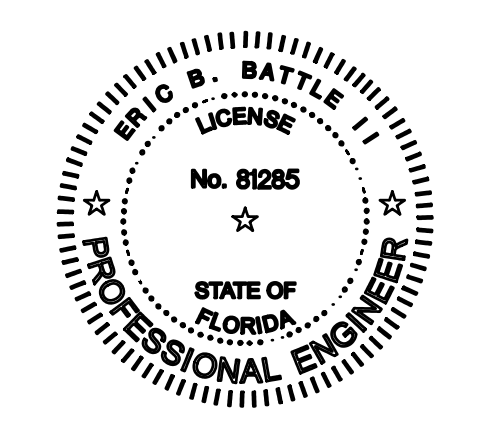


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SEALS



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SARASOTA COUNTY  
PUBLIC UTILITIES  
DEPARTMENT

HOME DEPOT MPS  
AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	BY

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2024

DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: E-07  
DESIGNED BY: ERIC BATTLE  
DRAWN BY: VAN NGUYEN  
CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL

AREA  
CLASSIFICATION  
PLAN

SCALE: 1/2" = 1'-0"

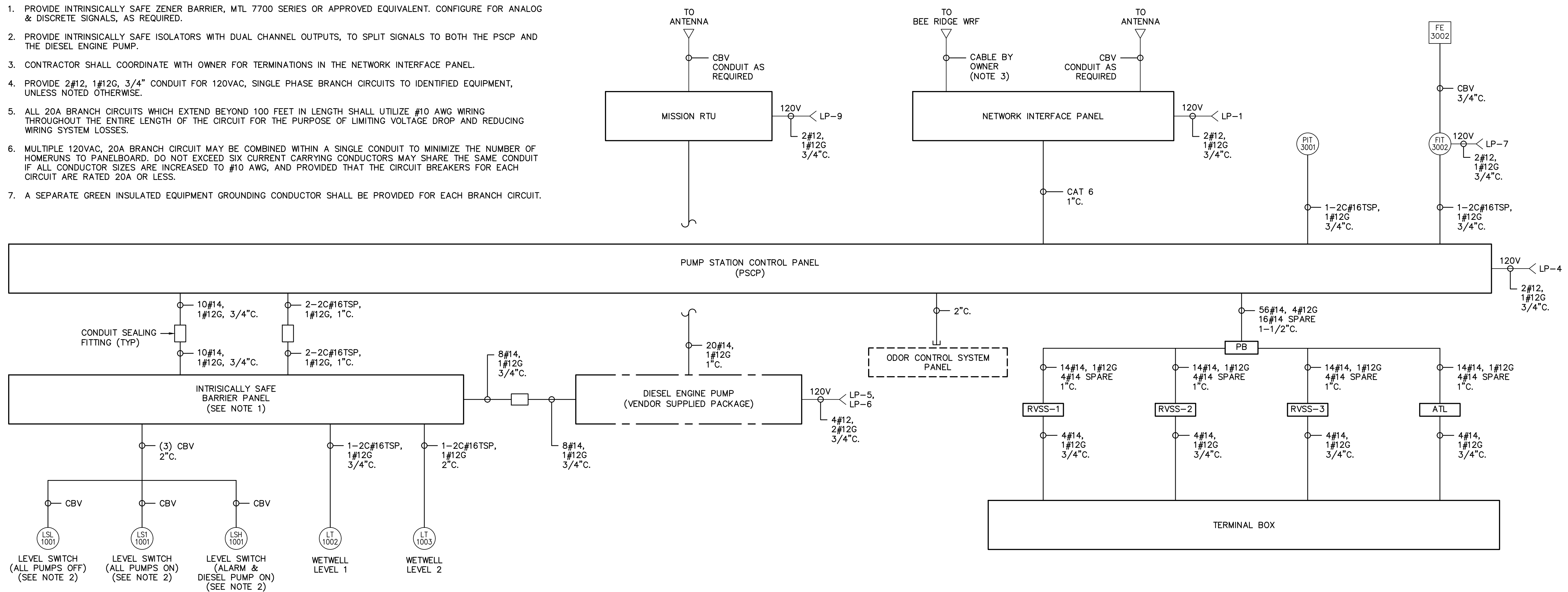
E-07 Approved  
SHEET 47 OF 38  
Mark A. Brown  
10/30/2025

- LEGEND:**
- CLASS 1, DIVISION 1 AREA
  - CLASS 1, DIVISION 2 AREA

**ELEVATION VIEW**  
SCALE: 1/2" = 1'-0"

**NOTES:**

1. PROVIDE INTRINSICALLY SAFE ZENER BARRIER, MTL 7700 SERIES OR APPROVED EQUIVALENT. CONFIGURE FOR ANALOG & DISCRETE SIGNALS, AS REQUIRED.
2. PROVIDE INTRINSICALLY SAFE ISOLATORS WITH DUAL CHANNEL OUTPUTS, TO SPLIT SIGNALS TO BOTH THE PSCP AND THE DIESEL ENGINE PUMP.
3. CONTRACTOR SHALL COORDINATE WITH OWNER FOR TERMINATIONS IN THE NETWORK INTERFACE PANEL.
4. PROVIDE 2#12, 1#12G, 3/4" CONDUIT FOR 120VAC, SINGLE PHASE BRANCH CIRCUITS TO IDENTIFIED EQUIPMENT, UNLESS NOTED OTHERWISE.
5. ALL 20A BRANCH CIRCUITS WHICH EXTEND BEYOND 100 FEET IN LENGTH SHALL UTILIZE #10 AWG WIRING THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT FOR THE PURPOSE OF LIMITING VOLTAGE DROP AND REDUCING WIRING SYSTEM LOSSES.
6. MULTIPLE 120VAC, 20A BRANCH CIRCUIT MAY BE COMBINED WITHIN A SINGLE CONDUIT TO MINIMIZE THE NUMBER OF HOMERUNS TO PANELBOARD. DO NOT EXCEED SIX CURRENT CARRYING CONDUCTORS MAY SHARE THE SAME CONDUIT IF ALL CONDUCTOR SIZES ARE INCREASED TO #10 AWG, AND PROVIDED THAT THE CIRCUIT BREAKERS FOR EACH CIRCUIT ARE RATED 20A OR LESS.
7. A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH BRANCH CIRCUIT.



**INTERCONNECT DIAGRAM**

FIXTURE LETTER	FIXTURE DESCRIPTION	BULB TYPE	MANUFACTURER MODEL NO.	REMARKS
AL	LITHONIA POST-MOUNT OUTDOOR LED AREA LIGHT. DIE-CAST ALUMINUM HOUSING WITH CLEAR POLYCARBONATE LENS. TWIST-LOCK REPLACEABLE PHOTOCELL. 4000K LIGHT ENGINE.	LED	DSX1 LED P9 40K T3M MVOLT	LIGHT POLE MODEL SSCA 12 4G 1.5 T20 DM19 DDBXD OR EQUAL.

**LIGHTING FIXTURE SCHEDULE**

**NOTES:**

1. FACTORY-SUPPLIED TEMPLATES MUST BE USED WHEN SETTING ANCHOR BOLTS. BASE PLATE, ANCHORS AND ANCHOR EMBEDMENT PER MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH LIGHTING POLE MANUFACTURE FOR MORE INSTALLATION REQUIREMENTS.
2. REFER TO STRUCTURAL DRAWING S-05 FOR LIGHTING POLE FOUNDATION DETAIL.
3. REFER TO STRUCTURAL DRAWING S-01 FOR WIND SPEED.

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
						A	B	C							
1	20	NETWORK INTERFACE PANEL	1.5	12.5	1	1.7			1	1.5	0.18	RECEPTACLE	20	2	
3	20	SITE LIGHTING	1	8.3	1		1.5		1	4.2	0.5	PUMP STATION CONTROL PANEL (PSCP)	20	4	
5	20	DIESEL ENGINE PUMP (BLOCK HEATER)	1	8.3	1			2.0	1	8.3	1	DIESEL ENGINE PUMP (TRICKLE CHARGER)	20	6	
7	20	FIT/FE 3002	0.5	4.2	1	0.5			1			SPARE	20	8	
9	20	MISSION RTU	0.05	0.4	1		0.1		1			SPARE	20	10	
11		SPACE			1			0.0	1			SPACE		12	
13		SPACE			1	0.0			1			SPACE		14	
15		SPACE			1		0.0		1			SPACE		16	
17		SPACE			1			0.0	1			SPACE		18	
<b>SERVICE CHARACTERISTICS</b>															
<b>PANEL LP</b>			TOTAL KVA	2.2	1.6	2.0				<b>VOLTS: 208Y/120</b>			<b>A MLO</b>		
LOCATION: HOME DEPOT MASTER PS			GRAND CONNECTED TOTAL KVA	5.7						<b>PHASE: 3</b>			<b>40 A MCB</b>		
BUILDING:									<b>WIRE: 4</b>						
NOTES:												<b>10k MIN AIC SYMM, FULLY RATED ASSEMBLY</b>			

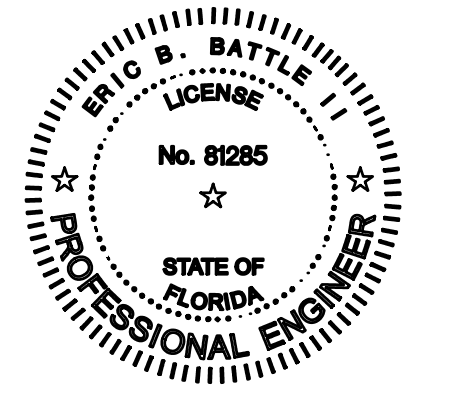
**PROPOSED LP PANEL SCHEDULE**

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
						A	B	C							
1	70	PUMP NO. 1	33.26	40.0	3	22.2			3	40.0	33.26	PUMP NO. 2	70	2	
7	70	PUMP NO. 3	33.26	40.0	3	15.0			3	14.0	11.64	CONDITIONING PUMP	35	8	
13	30	ODOR CONTROL PANEL DS	10	12.0	3	7.3			3	14.4	12	LPXF XFMR (15KVA)	30	14	
19	30	SPARE			3	0.0			3			SPARE	30	20	
25	30	SPD			3	0.0			3			SPARE	70	26	
<b>SERVICE CHARACTERISTICS</b>															
<b>PANEL DP</b>			TOTAL KVA	44.5	44.5	44.5				<b>VOLTS: 480Y/277</b>			<b>A MLO</b>		
LOCATION: HOME DEPOT MASTER PS			GRAND CONNECTED TOTAL KVA	133.4						<b>PHASE: 3</b>			<b>200 A MCB</b>		
BUILDING:									<b>WIRE: 4</b>						
NOTES:												<b>65k MIN AIC SYMM, FULLY RATED ASSEMBLY</b>			

**PROPOSED DP PANEL SCHEDULE**



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SARASOTA COUNTY PUBLIC UTILITIES DEPARTMENT  
HOME DEPOT MPS AND FM

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DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: E-08  
DESIGNED BY: ERIC BATTLE  
DRAWN BY: VAN NGUYEN  
CHECKED BY: ERIC BATTLE

SHEET TITLE

ELECTRICAL  
**INTERCONNECT DIAGRAM & SCHEDULES**

SCALE: NOT TO SCALE

E-08 Approved  
SHEET 48 OF 58  
Mark A. Brown  
10/30/2025

User: C:\00709 Spec-AUS-NGS\00709\DC\AC\DC\ARCADIS\VALS-30036073-HOME DEPOT LS AND FM\PROJECT FILES\NO-WIP\ELEC\E-08.DWG Scale: 1:1 SavedDate: 10/28/2025 Time: 15:27 Plot Date: Venkatesh, Ganesh; 10/29/2025; 18:01; Layout: 37







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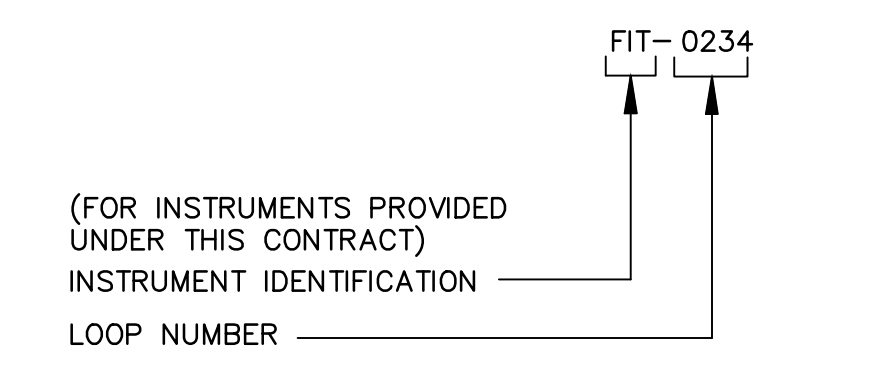
### INSTRUMENT IDENTIFICATION LEGEND

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE,	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME		NOT USED	NOT USED	NOT USED
C	CONDUCTIVITY (ELECTRICAL)			CONTROL	CLOSED
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	INTRUSION		GLASS GAGE (UNCALIBRATED)		
H	HAND (MANUALLY INITIATED)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOISTURE OR HUMIDITY				MIDDLE OR INTER-MEDIATE
N	SEQUENCE STRATEGY		NOT USED	NOT USED	NOT USED
O	NOT USED		ORIFICE (RESTRICTION)		OPEN
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)	PULSE	
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RADIOACTIVITY		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH TRANSMIT	
T	TEMPERATURE				
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALVE DAMPER OR LOUVER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT STATUS	Y AXIS		RELAY OR COMPUTE	
Z	POSITION			DRIVE ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

### BASE INSTRUMENTATION SYMBOLS

<p><b>FIT #</b> INSTRUMENT FIELD MOUNTED SEE THIS SHEET FOR DETAILS OF INSTRUMENT TAGGING SYSTEM. FULL TAG NUMBER SHOULD BE INCLUDED ON INSTRUMENT INDEX. POWER SUPPLY REQUIRED LOCALLY WHERE SHOWN.</p> <p><b>FIR #</b> INSTRUMENT PANEL FACE MOUNTED</p> <p><b>FY X #</b> INSTRUMENT RELAY MOUNTED IN REAR OF PANEL (BROKEN LINE). ACTIVATES AND DEACTIVATES CONTROL AND/OR ALARM SWITCHES AT PRESET VALUE. EQUIPMENT NUMBER (Y) ONLY WHEN NECESSARY. SEE BELOW FOR FUNCTIONS (X).</p> <p><b>Δ</b> DIFFERENCE <b>&gt;</b> HIGH SELECTOR <b>&lt;</b> LOW SELECTOR <b>P/I</b> PNEUMATIC/CURRENT CONVERTER <b>I/I</b> CURRENT/CURRENT CONVERTER (REPEATER) <b>Σ</b> SUMMATION <b>AV</b> AVERAGE <b>%</b> RATIO</p> <p><b>FR #</b> FR &amp; AR ARE TWO FUNCTIONS AS PART OF ONE UNIT. (CIRCLES TOUCH)</p> <p><b>DO</b> SYMBOLS FOR ANALYTICAL DEVICES: CH METHANE Cl CHLORINE DO DISSOLVED OXYGEN H<sub>2</sub>S HYDROGEN SULFIDE H<sub>3</sub>PO<sub>4</sub> PHOSPHORIC ACID H<sub>2</sub>SO<sub>4</sub> SULFURIC ACID MeOH METHANOL NaHOCl SODIUM HYPOCHLORITE Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> SODIUM METHA-BISULFITE O<sub>2</sub> OXYGEN ORP OXYDATION REDUCTION POTENTIAL pH-HYDROGEN ION CONCENTRATION</p> <p><b>Δ▽</b> DISCRETE INPUT/OUTPUT <b>▲▼</b> ANALOG INPUT/OUTPUT <b>▲▼</b> DIGITAL COMMUNICATION INPUT/OUTPUT. ETHERNET (E), MODBUS (M), HART (H) OR DEVICENET (D)</p> <p><b>IAS</b> INSTRUMENT AIR SUPPLY <b>120V</b> 120V AC POWER SUPPLY <b>480V</b> 480V AC POWER SUPPLY <b>24V</b> 24V DC POWER SUPPLY</p>	<p><b>◇</b> PROGRAMMABLE LOGIC CONTROLLER (PLC) CONTROL BLOCK</p> <p><b>##</b> POINT FOR SHARED VIDEO DISPLAY (FUNCTIONS IN PLC)</p> <p><b>##</b> AS ABOVE WITH LIMITED ACCESS</p> <p><b>◇</b> INTERLOCK # - INTERLOCK CONTROL STRATEGY</p> <p><b>FIT #</b> THERMAL MASS METER</p> <p><b>FE #</b> MAGMETER</p> <p><b>FIT #</b> VENTURI</p> <p><b>FE #</b> ORIFICE PLATE</p> <p><b>FE #</b> ROTAMETER</p> <p><b>FE #</b> ANNUBAR FLOW METER</p> <p><b>FLUME</b></p> <p><b>LT #</b> SUBMERSIBLE PRESSURE TRANSDUCER</p> <p><b>LT #</b> RADAR LEVEL TRANSMITTER</p>
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### INSTRUMENT TAGGING SYSTEM



### VALVE SYMBOLS

	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	DIAPHRAGM VALVE
	BALL VALVE
	PINCH VALVE
	NEEDLE VALVE
	CHECK VALVE
	3-WAY VALVE
	BUTTERFLY VALVE
	PRESSURE SELF REGULATING VALVE
	BACK PRESSURE SELF REGULATING VALVE

### PIPING SYMBOLS

	Y STRAINER
	VENT
	DIAPHRAGM SEAL WITH ISOLATION VALVE
	INLINE SEAL WITH ISOLATION VALVE
	PULSATION DAMPENERS
	FLEXIBLE HOSE
	QUICK-CONNECT
	CALIBRATION COLUMN
	EYE WASH/EMERGENCY SHOWER
	UNION
	BACKFLOW PREVENTOR
	SINGLE BASKET STRAINER
	SEAL WATER
	DRAIN
	REDUCER

### EQUIPMENT SYMBOLS

	SUBMERSIBLE PUMP
<b>M</b>	MOTOR
<b>VFD</b>	VARIABLE FREQUENCY DRIVE
<b>MCC</b>	MOTOR CONTROL CENTER
<b>MS</b>	MOTOR STARTER

### PANEL DEVICE SYMBOLS

<b>HS</b>	HAND SWITCH (MANUAL SELECTOR)
<b>L/O/R</b>	FUNCTION SUBSCRIPT (LOCATION MAY VARY)
<b>PB</b>	PUSHBUTTON
<b>ESTOP</b>	FUNCTION SUBSCRIPT (LOCATION MAY VARY)
FUNCTION SUBSCRIPTS FOR HAND SWITCH AND PUSHBUTTON CONTROLS:	
ESTOP	E-STOP
F/O/R	FORWARD-OFF-REVERSE
F/O/JR	FORWARD-OFF-JOG REVERSE
H/O/A	HAND-OFF-AUTO
H/O/R	HAND-OFF-REMOTE
H/O/SBY	HAND-OFF-STANDBY
L/O/R	LOCAL-OFF-REMOTE
M/A	MANUAL-AUTO
M/O/A	MANUAL-OFF-AUTO
O/C	OPEN-CLOSE
O/O	ON-OFF
O/S/C	OPEN-STOP-CLOSE
RS	RESET
R/L	REMOTE-LOCAL
R/O	RUN-OFF
SC	SPEED CONTROL POTENTIOMETER
SCR	SILICON CRYSTAL RECTIFIER
S/S	START-STOP
S/SLO	START-STOP WITH LOCKOUT

<b>IL</b>	INDICATING LIGHT UNIT G-GREEN (OFF, STOP, CLOSED) R-RED (RUN, START, OPEN) W-WHITE (POWER ON) A-AMBER (ALARM CONDITION) F-FLASHES ON ELECTRIC OR MECHANICAL MALFUNCTION
<b>◇</b>	INTERLOCK
<b>EH</b>	ELECTRONIC HORN
<b>W</b>	STROBE LIGHT A - AMBER W - WHITE R - RED B - BLUE
	INTERCONNECTING LINES WITH DOT INDICATE ROUTING OF THE SAME SIGNAL.
	INTERCONNECTING LINES WITHOUT DOT INDICATE ROUTING OF MORE THAN ONE SIGNAL.

### LINE TYPES

	SOFTWARE LINK, SYSTEM FUNCTION CONNECTION OR COMMUNICATION LINK
	MAIN PROCESS LINE
	AUXILIARY SYSTEMS
	EQUIPMENT PACKAGE LIMIT
	ELECTRIC (ELECTRONIC) SIGNAL
	PNEUMATIC SIGNAL
	CAPILLARY LINE
	HYDRAULIC SIGNAL
	SONIC SIGNAL
	HEAT TRACED AND INSULATED
	TELEPHONE LINK
	FUTURE
	EXISTING
	VENDOR SUPPLIED

### DRAWING CONTINUATION LEGEND

PROCESS LINES (ON/OFF PAGE):	
	PROCESS MEDIUM CONN AREA OR EQUIPMENT DRAWING I-XXX
UTILITY LINES (ON/OFF PAGE):	
	REMARKS 1 CONN UTILITY DRAWING NUMBER REMARKS 2
INSTRUMENT SIGNAL LINES (ON/OFF PAGE):	
	SIGNAL NAME CONN DRAWING NUMBER
PROCESS LINE NOT WITHIN THE BOUNDARY OF THIS SET OF DRAWINGS	
	PROCESS MEDIUM PROCESS EQUIPMENT
INSTRUMENT SIGNAL LINE NOT WITHIN THE BOUNDARY OF THIS SET OF DRAWINGS	
	SIGNAL NAME
CONN: CONNECTION NUMBER	

### ABBREVIATIONS

RVSS	REDUCED VOLTAGE SOFT STARTER
RTU	REMOTE TERMINAL UNIT
ATL	ACROSS THE LINE

### GENERAL NOTES

- COORDINATE WORK WITH OTHER DRAWINGS AND DISCIPLINES.
- THE SYMBOLS SHOWN ON THIS SHEET ARE STANDARD DESIGNATIONS. NOT ALL SYMBOLS ARE APPLICABLE TO THE INCLUDED DIAGRAMS AND INSTRUMENT TAGGING SYSTEM.
- NOT ALL PIPING, FITTINGS, AND TANK DETAILS ARE SHOWN. REFER TO PROCESS DRAWINGS FOR ACTUAL DETAILS.
- INSTRUMENT IDENTIFICATION AND LOOP NUMBERS APPEAR WITH INSTRUMENT SYMBOL.

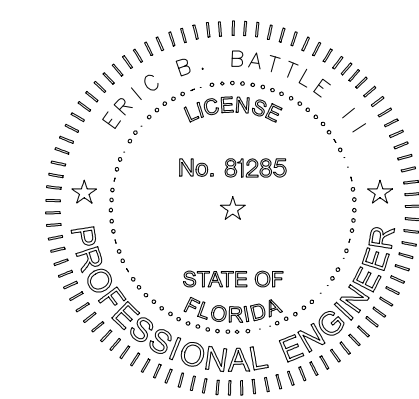


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HOME DEPOT MPS  
AND FM

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DATE:	OCTOBER 2025
PROJECT NO.:	30036073
FILE NAME:	I-01
DESIGNED BY:	AKSHAYA SELVARAJ
DRAWN BY:	RATAN RAVINDRA SHENGY
CHECKED BY:	RALPH HARTMANN

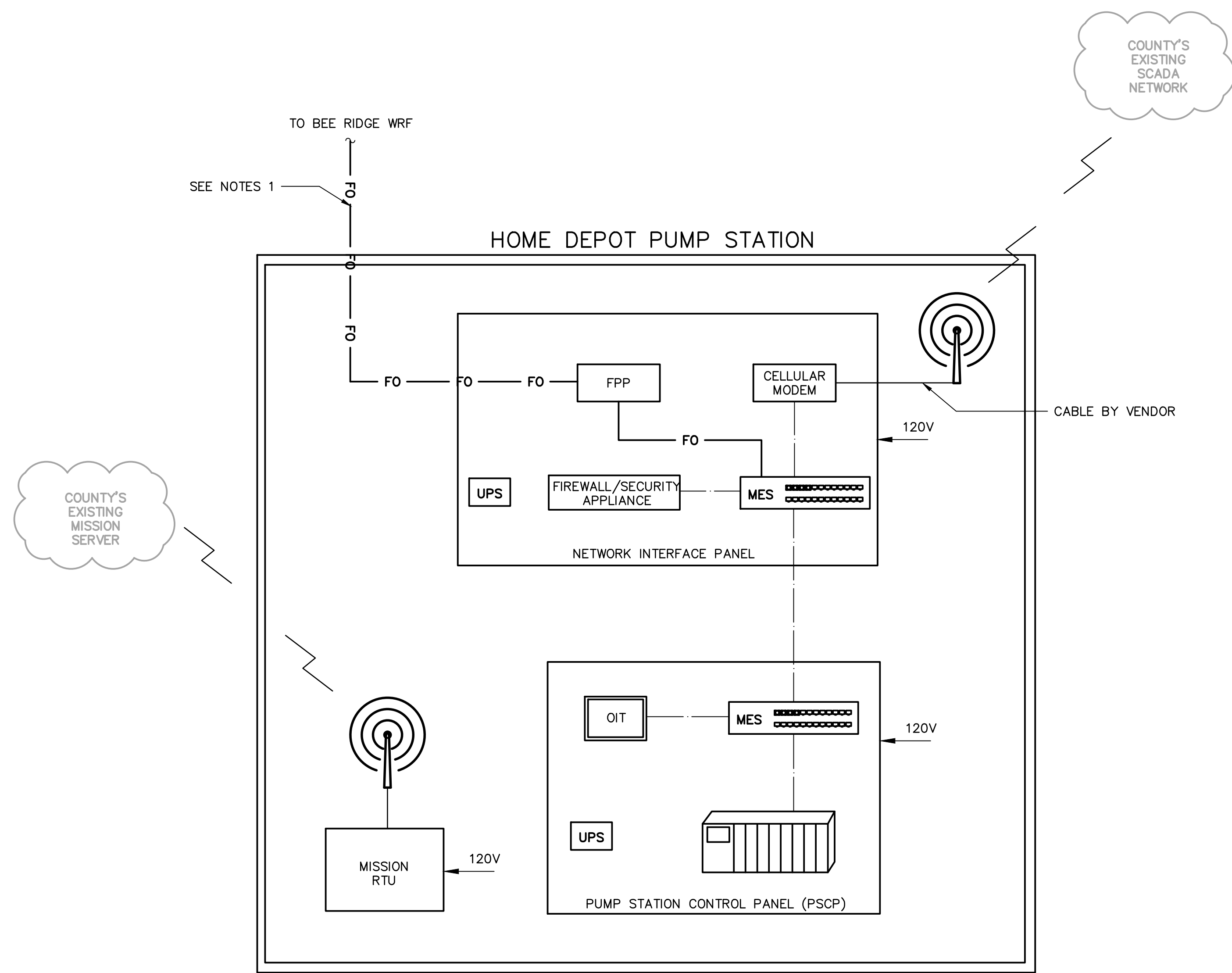
SHEET TITLE

INSTRUMENTATION

### LEGEND AND ABBREVIATIONS

SCALE:  
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User: JOSHUYC4656 Spec: AUS-NGSM000 File: C:\Users\SM00788\Documents\ARCADIS\AUS-30036073-HOME DEPOT L.S. AND FM\PROJECT FILES\0\_MP\N\I-02.DWG Scale: 1:1 Saved Date: 8/25/2025 Time: 19:19 Plot Date: Mail, Shivabankar, 10/28/2025, 16:49 Layout: I-02



**SYMBOLS AND LEGEND**

ETHERNET/COPPER CAT 6  
 FIBER OPTIC CABLE  
 MANAGED ETHERNET SWITCH  
 PROGRAMMING LOGIC CONTROLLER (NON-REDUNDANT)  
 ANTENNA

**ABBREVIATIONS**

OIT OPERATOR INTERFACE TERMINAL  
 UPS UNINTERRUPTIBLE POWER SUPPLY  
 RTU REMOTE TERMINAL UNIT

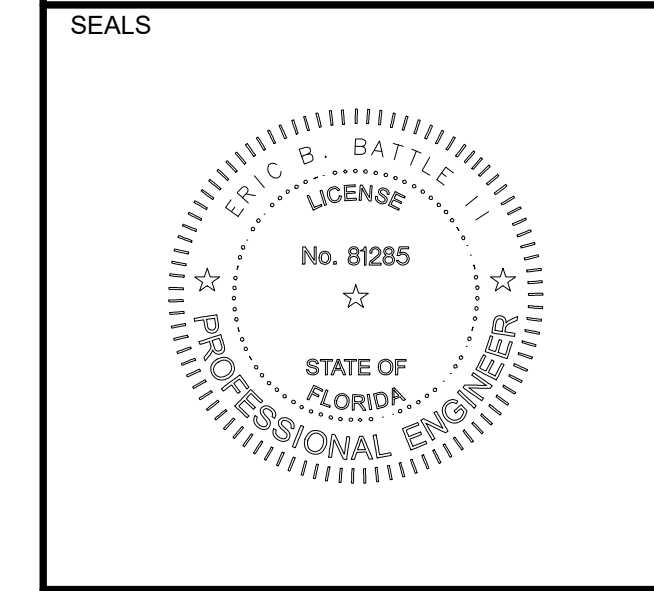
- NOTES:**
- FIBER LINK BETWEEN THE PUMP STATION AND BEE RIDGE WRF SHALL BE PROVIDED BY THE OWNER. CONTRACTOR SHALL COORDINATE FOR TERMINATIONS IN THE NETWORK INTERFACE PANEL.



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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: I-02

DESIGNED BY: AKSHAYA SELVARAJ

DRAWN BY: ABHINAYA MURUGADASS

CHECKED BY: RALPH HARTMANN

SHEET TITLE

INSTRUMENTATION

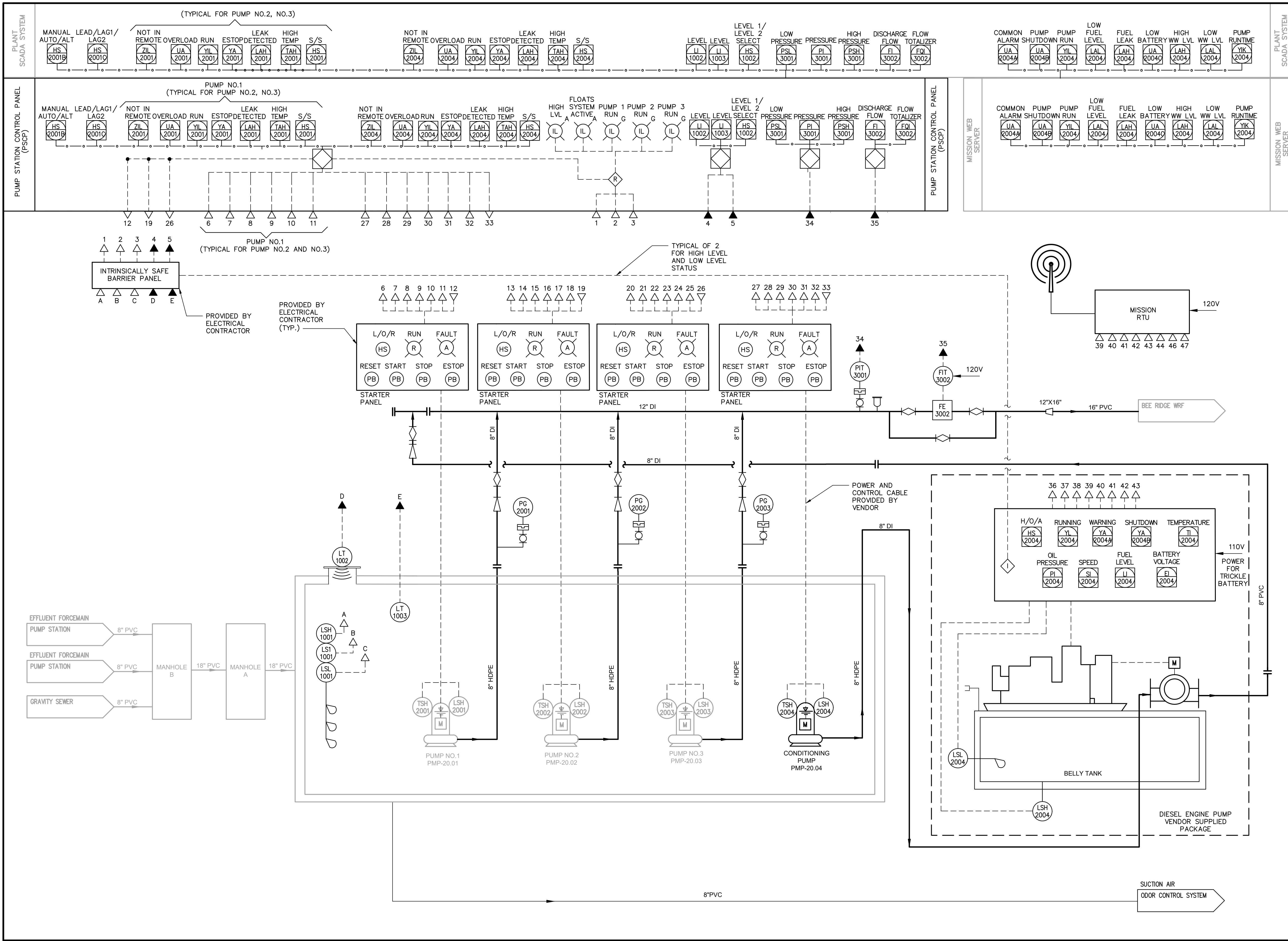
**NETWORK ARCHITECTURE**

SCALE: NOT TO SCALE

I-02 Approved  
2025 H-184-00313  
Mark A. Brown  
10/30/2025

SHEET 53 OF 88

User: JOSH.YC4656 Spec: AUS-NGS.M00788 File: C:\USERS\SM00788\Documents\ARCADIS\VAUS-30038073-HOME DEPOT LS AND FM\PROJECT FILES\03.DWG Scale: 1:1 SaveDate: 8/25/2025 Time: 19:20 Plot Date: 10/28/2025 16:51 Layout: I-03



**Sarasota County**

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CONSULTANTS

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AND FM

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DATE: OCTOBER 2025

PROJECT NO.: 30038073

FILE NAME: I-03

DESIGNED BY: AKSHAYA SELVARAJ

DRAWN BY: RATAN RAVINDRA SHENGY

CHECKED BY: RALPH HARTMANN

---

SHEET TITLE

**INSTRUMENTATION**

---

**PUMP STATION P&ID**

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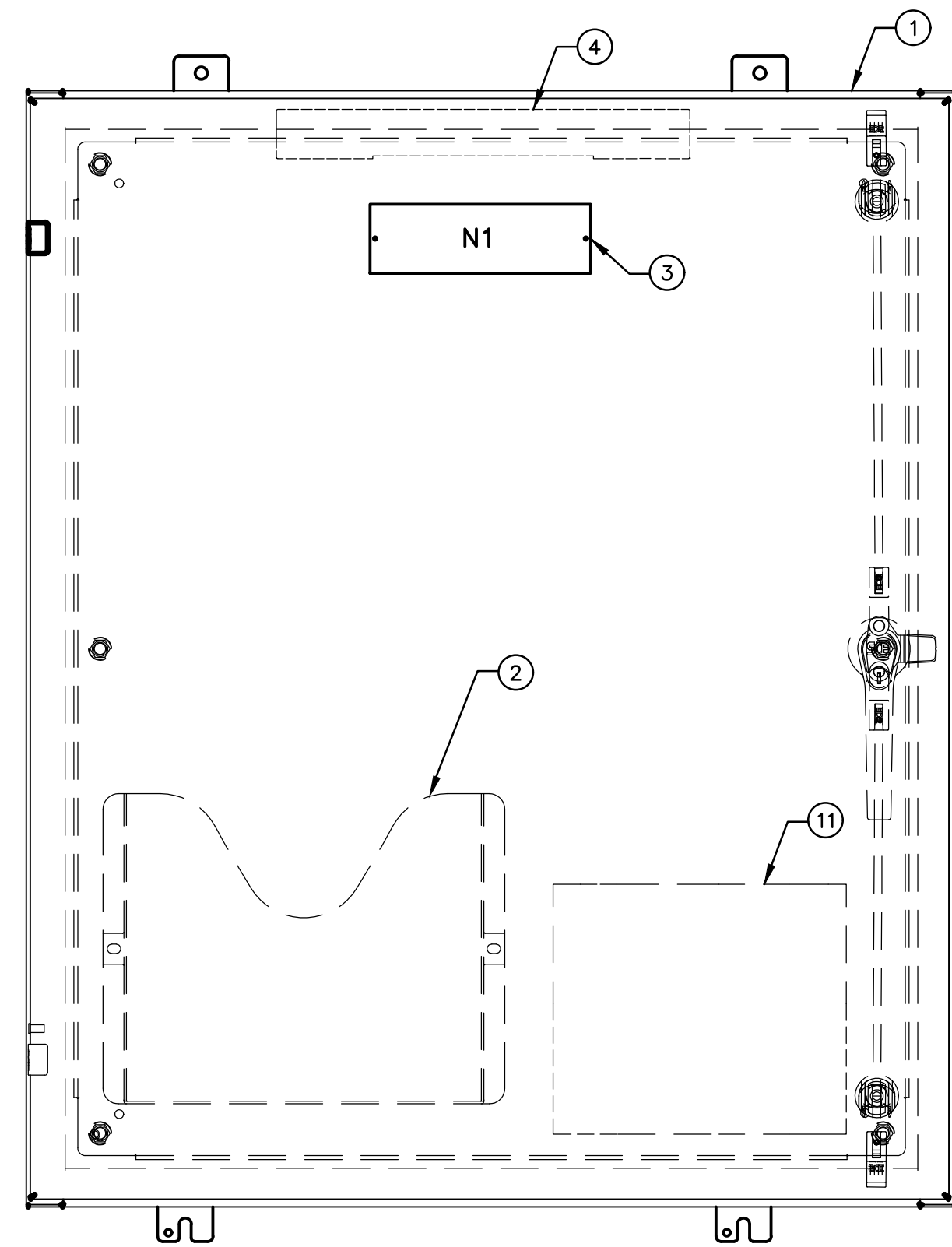
SCALE: NOT TO SCALE

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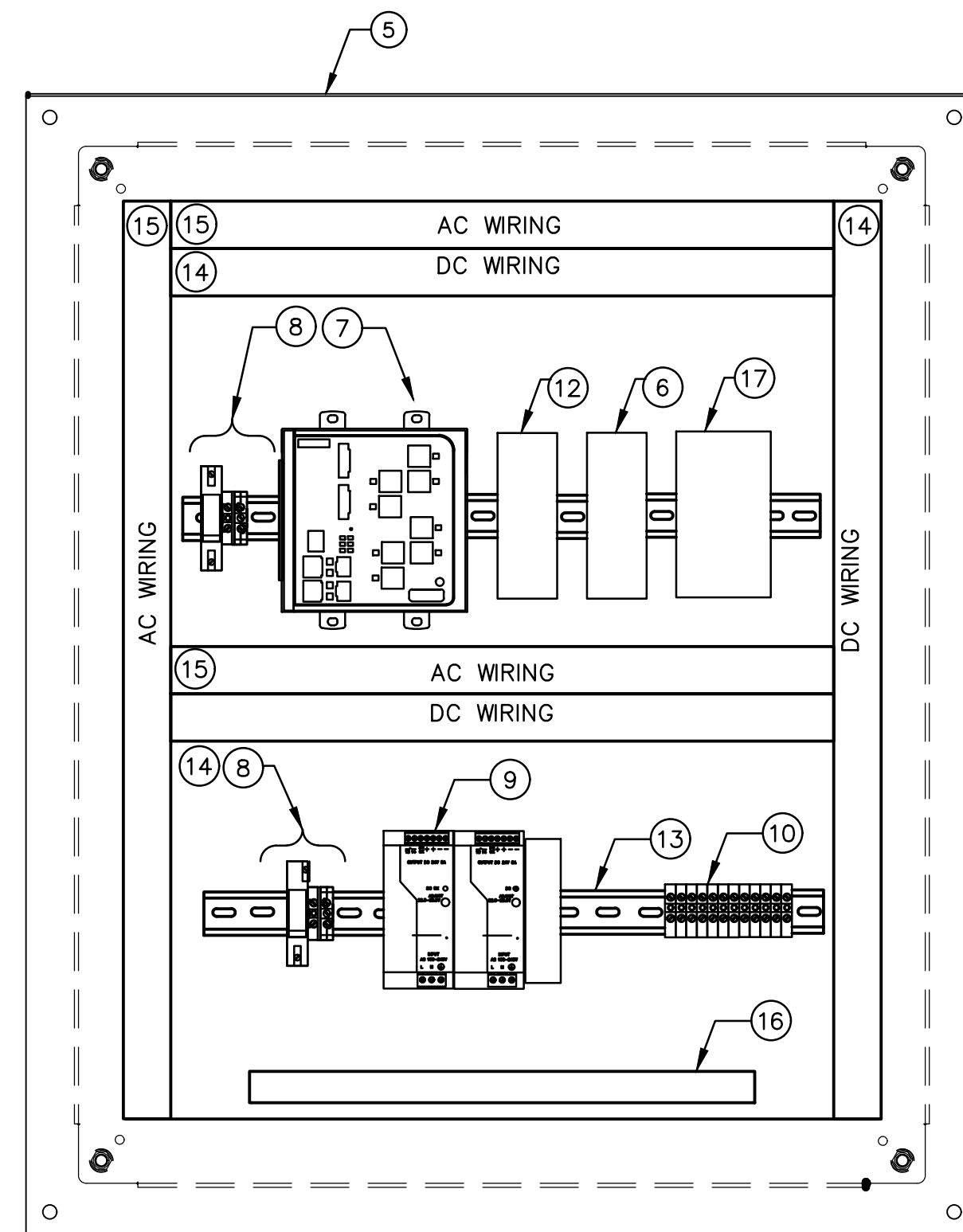
I-03 Approved  
2025-H-194-00313  
Mark A. Brown  
10/30/2025

SHEET 54 OF 58

User: 05HYC4656 Spec: AUS-NSMOD File: C:\USERS\SM00788\DC\ACCD\DCS\ARCADIS\AUS-30036073-HOME DEPOT.LS AND FM\PROJECT FILES\0\_MP\N\I-04.DWG Scale: 1:1 Saved Date: 8/25/2025 Time: 19:21 Plot Date: Mail, Shivashankar, 10/28/2025, 16:51, Layout: I-04

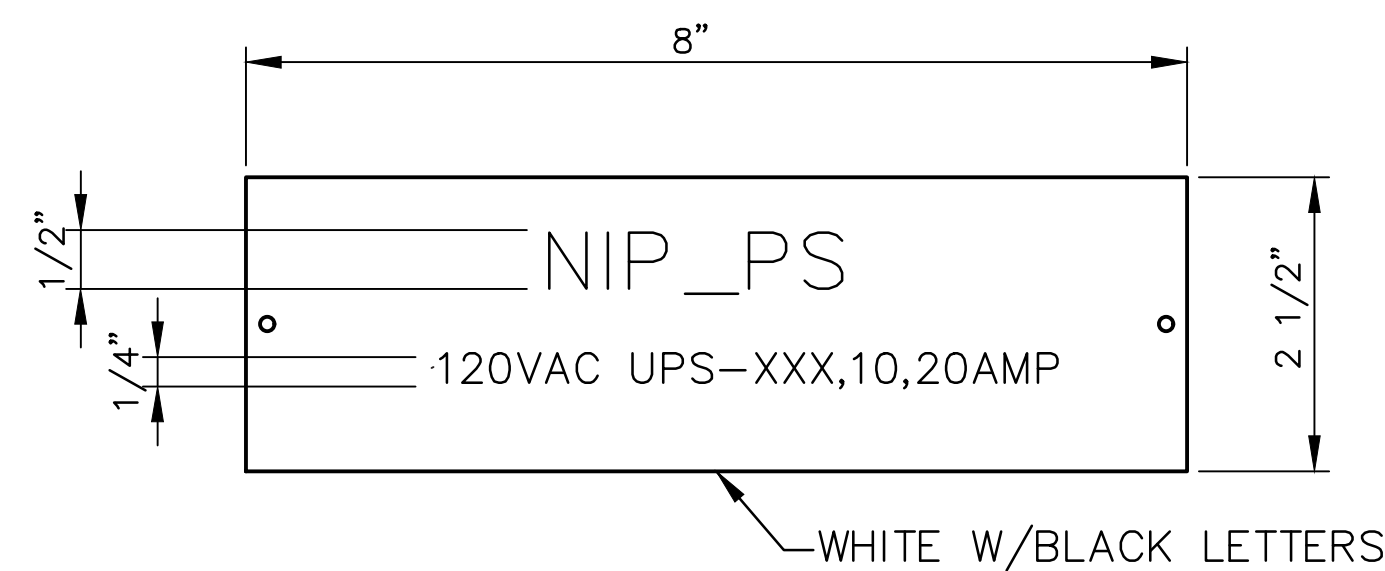


**1 FRONT PANEL VIEW**  
I-04 NOT TO SCALE



**2 INTERIOR PANEL VIEW**  
I-04 NOT TO SCALE

MATERIAL LIST	
ITEM	DESCRIPTION
1	NEMA 4X ENCLOSURE 36"X30"X12"
2	DATA POCKET
3	NAMEPLATE
4	LIGHT W/ INTRUSION SWITCH
5	BACK PANEL
6	SIERRA WIRELESS MODEM
7	ETHERNET SWITCH
8	AC POWER DISTRIBUTION
9	24VDC POWER SUPPLY
10	TERMINAL BLOCKS
11	PANEL UPS
12	FIREWALL
13	DIN RAIL
14	GRAY WIRE DUCT
15	WHITE WIRE DUCT
16	GROUND BAR
17	FIBER PATCH PANEL

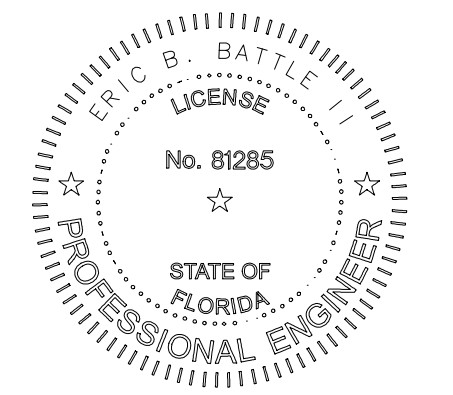


**3 NAMEPLATE DETAIL**  
I-04

**GENERAL NOTES:**

- ENCLOSURE DRAWING REPRESENTS DESIGN INTENT. CONTRACTOR TO SUPPLY AS-BUILT DRAWINGS SHOWING FINAL ENCLOSURE LAYOUT WITH ALL EQUIPMENT, MANUFACTURERS, AND PART NUMBERS. FABRICATOR MUST FOLLOW REQUIREMENTS AS DESIGNED AND SPECIFIC TO THE PROJECT.
- CONSTRUCT PANEL TO MEET THE FULL INTENT OF ARTICLE 409 OF THE NATIONAL ELECTRIC CODE.
- FOLLOW ALL UL 508 AND 508A SUPPLEMENT SB TO DETERMINE SHORT CIRCUIT ANALYSIS.
- CIRCUIT BREAKERS SHALL BE COORDINATED TO TRIP BRANCH CIRCUIT BREAKER PRIOR TO THE MAIN PANEL CIRCUIT BREAKER. QUANTITY OF CIRCUIT BREAKERS, TERMINAL BLOCKS SHOWN ARE REPRESENTATIVE PROVIDE QUANTITIES TO ACHIEVE FUNCTIONALITY SHOWN AND SPECIFIED.
- ALL TIE WRAPS SHALL BE LOCATED OUTSIDE OF THE WIRE DUCTS. INSTALLATION OF ALL NYLON TIE WRAPS SHALL BE TENSIONED AND TRIMMED FLUSH.
- NO 480VAC CIRCUITS SHALL TERMINATE IN OR PASS THROUGH CONTROL CABINETS.
- ALL CONDUIT PENETRATIONS SHALL BE LOCATED AT THE BOTTOM OF THE ENCLOSURE. NO TOP, SIDE, FRONT OR REAR PENETRATIONS ALLOWED. SEAL ALL CONDUITS USING GAS AND WATER TIGHT DUCT SEAL.
- ALL SIGNALS SHALL BE TERMINATED AND CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.
- ALL COMMUNICATION CABLES SHALL BE CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.
- UPS SHALL BE LOCATED INSIDE THE PANEL ON FLOOR OF PANEL. UPS LOCATION SHALL NOT CAUSE INTERFERENCE WITH OTHER HARDWARE IN THE PANEL.

SEALS



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SARASOTA COUNTY, FLORIDA  
SARASOTA COUNTY  
PUBLIC UTILITIES  
DEPARTMENT

HOME DEPOT MPS  
AND FM

100% BID SUBMITTAL

NO.	DATE	ISSUED FOR	BY

COPYRIGHT: ARCADIS U.S., INC.  
2024

DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: I-04  
DESIGNED BY: AKSHAYA SELVARAJ  
DRAWN BY: ABHINAYA MURUGADASS  
CHECKED BY: RALPH HARTMANN

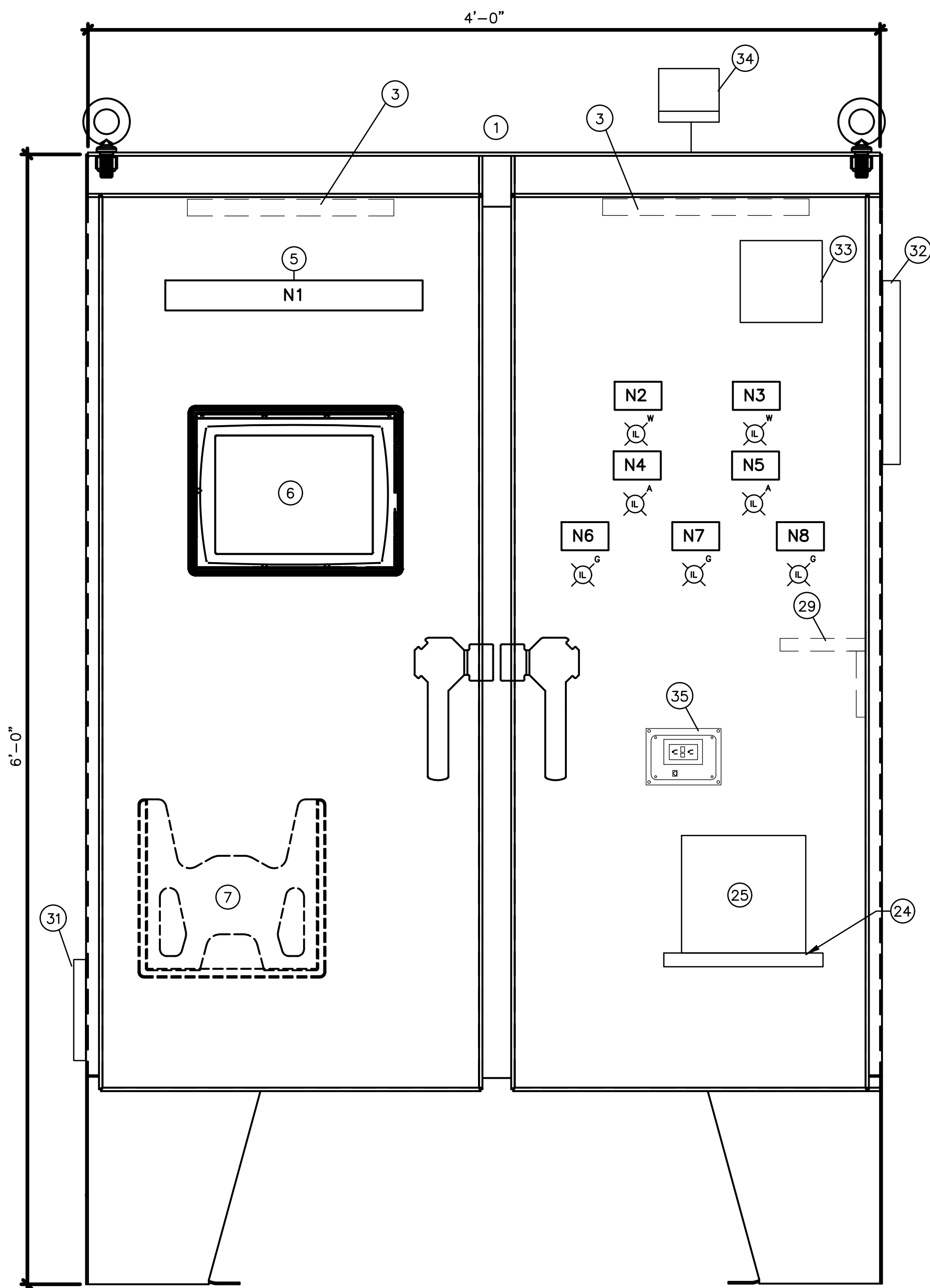
SHEET TITLE

INSTRUMENTATION

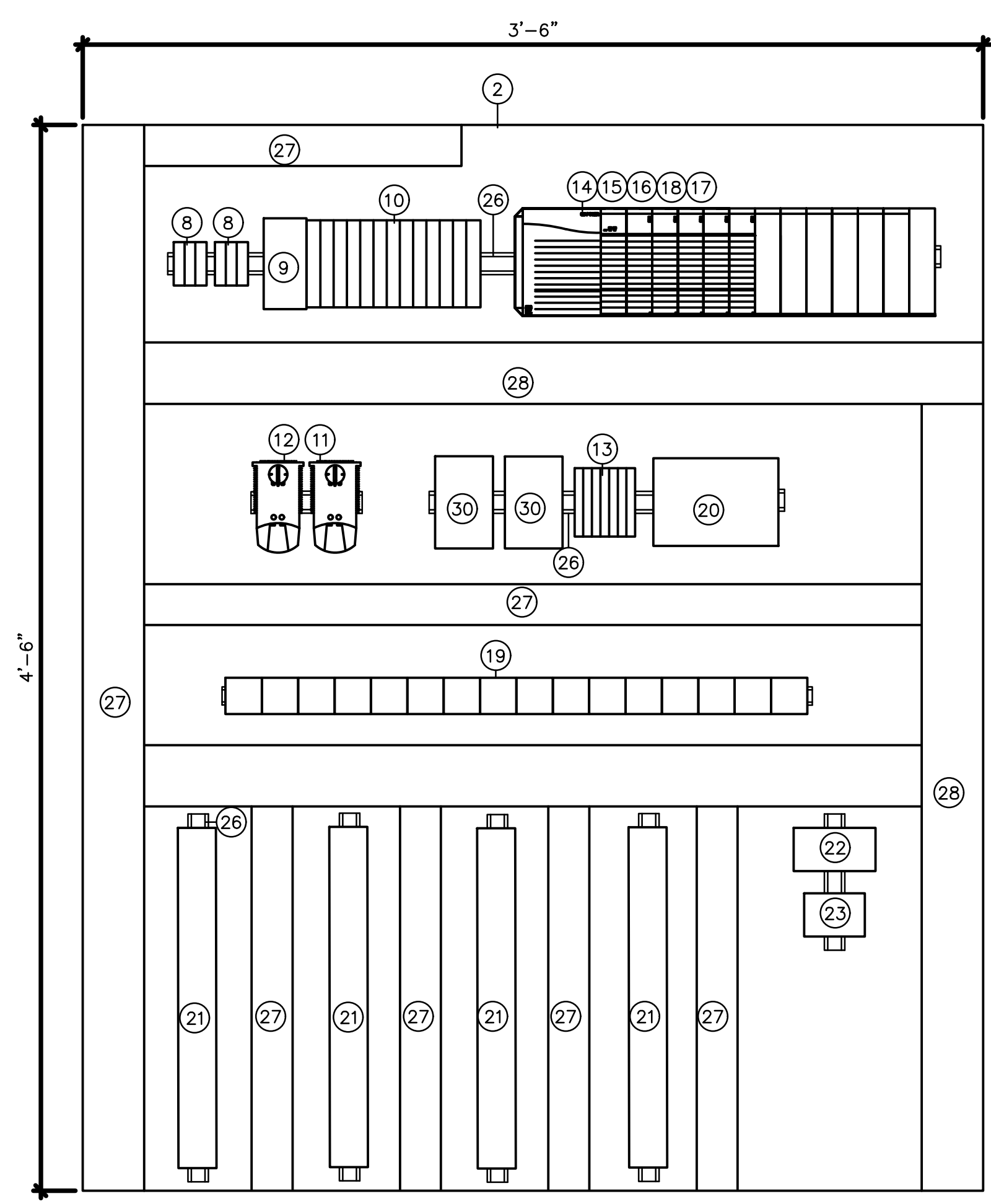
NETWORK  
INTERFACE  
PANEL LAYOUT

SCALE:  
NOT TO SCALE

User: 05HYC4656, Spec: AUS-NSM00, File: C:\Users\SM00788\OneDrive\Projects\ARCADIS\AUS-30036073-HOME DEPOT\LS AND FM\PROJECT FILES\0\_MPN\N5\I-05.DWG, Scale: 1:1, SavedDate: 8/25/2025, Time: 19:22, Plot Date: 10/28/2025, 16:52, Layout: I-05



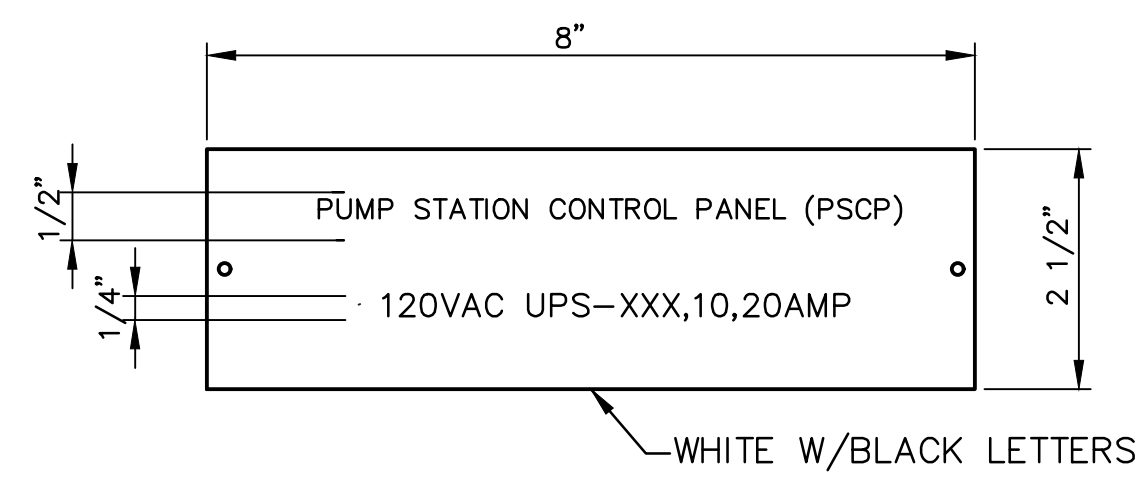
**1 FRONT PANEL VIEW**  
I-05 NOT TO SCALE



**2 INTERIOR VIEW (BACKPANEL)**  
I-05 NOT TO SCALE

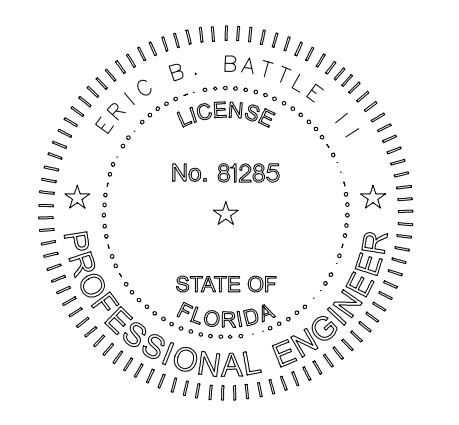
MATERIAL LIST	
ITEM.	DESCRIPTION
1	NEMA 4X PANEL
2	BACKPANEL
3	PANEL LIGHT WITH INTRUSION SWITCH
4	DOOR SWITCH (NOT SHOWN)
5	NAMEPLATE
6	OPERATOR INTERFACE TERMINAL (OIT)
7	DOCUMENTS TRAY
8	120 VAC INCOMING POWER TERMINALS
9	TRANSIENT VOLTAGE SURGE SUPPRESSOR
10	120 VAC CIRCUIT BREAKERS
11	HVAC CONTROL
12	ENCLOSURE TEMPERATURE DEVICE
13	24VDC CIRCUIT BREAKERS
14	PROGRAMMABLE LOGIC CONTROLLER (PLC) CHASSIS
15	PLC POWER SUPPLY
16	PLC PROCESSOR
17	PLC I/O CARDS
18	PLC SPARE SLOTS
19	CONTROL RELAYS
20	MANAGED ETHERNET SWITCH
21	TERMINAL BLOCKS
22	GFCI DUPLEX RECEPTACLE
23	UNINTERRUPTIBLE POWER SUPPLY (UPS) RECEPTACLE
24	UNINTERRUPTIBLE POWER SUPPLY (UPS) SHELF
25	UNINTERRUPTIBLE POWER SUPPLY (UPS)
26	DIN RAIL
27	2" WIRE TRAY
28	3" WIRE TRAY
29	FOLDING SHELF
30	REDUNDANT 24 VDC POWER SUPPLY
31	INTAKE LOUVER
32	THERMOELECTRIC AC UNIT AS REQUIRED
33	HORN
34	STROBE LIGHT
35	PROGRAMMING PORT WITH GFI

CONTROL PANEL NAMEPLATES	
ITEM	DESCRIPTION
N1	PUMP STATION CONTROL PANEL (PSCP)
N2	POWER ON
N3	SILENCE
N4	HI-HI LEVEL
N5	FLOAT SYSTEM ACTIVE
N6	PUMP 1 RUN
N7	PUMP 2 RUN
N8	PUMP 3 RUN



**3 NAMEPLATE DETAIL**  
I-05

- NOTES:
- LAYOUT SHOWN IS REPRESENTATIONAL AND NOT TO SCALE. SYMBOLS USED ARE GENERIC REPRESENTATIONS AND DO NOT SHOW ACTUAL QUANTITIES OF PORTS, PLUGS, AND TERMINATIONS. SIZE CABINET, PROVIDE HARDWARE QUANTITIES, TYPE, AND ARRANGEMENT TO ACHIEVE THE FUNCTIONALITY SHOWN AND SPECIFIED.
  - QUANTITY OF PLC I/O MODULES, CIRCUIT BREAKERS, SURGE SUPPRESSORS, RELAYS, TERMINAL BLOCKS, PUSHBUTTONS, INDICATING LIGHTS, AND SELECTOR SWITCHES SHOWN ARE REPRESENTATIVE. PROVIDE QUANTITIES TO ACHIEVE THE FUNCTIONALITY SHOWN AND SPECIFIED.
  - PLC INPUT/OUTPUT POINTS SHALL BE ARRANGED SUCH THAT, FAILURE OF A GIVEN I/O CARD WILL NOT CAUSE SHUTDOWN OF MORE THAN ONE OF THE SAME TYPE OF EQUIPMENT IN A GIVEN PROCESS.
  - PANELS SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AS WELL AS THE APPLICABLE TERRITORIAL AND LOCAL CODE.
  - ALL PANEL DEVICES SHALL BE LABELED AS SPECIFIED.
  - FUSE INDEX TABLE SHALL BE LAMINATED AND PLACED IN THE DOOR POCKET ON THE INSIDE OF EACH ENCLOSURE DOOR.
  - UPS SHALL BE LOCATED INSIDE PANEL ON FLOOR OF PANEL. PROVIDE AN ADDITIONAL 3-FEET MINIMUM OF WIRE LENGTH FOR ALL WIRING TO/FROM UPS TO ALLOW UPS TO BE REMOVED FROM PANEL WITHOUT DISCONNECTING. UPS LOCATION SHALL NOT CAUSE INTERFERENCE WITH OTHER HARDWARE IN PANEL.
  - PROVIDE MINIMUM 1-FT CLEARANCE ON RIGHT SIDE OF ENCLOSURE TO ALLOW AIR FLOW FOR EXHAUST FAN/GRILLS.
  - PROVIDE SUN SHIELD FOR THE PANEL, SUITED FOR OUTDOOR INSTALLATION.
  - NO 480VAC CIRCUITS SHALL TERMINATE IN OR PASS THROUGH CONTROL CABINETS.
  - SEAL ALL CONDUITS USING GAS AND WATER TIGHT DUCT SEAL.
  - ALL SIGNALS SHALL BE TERMINATED AND CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.
  - ALL COMMUNICATION CABLES SHALL BE CLEARLY LABELED PRIOR TO LEAVING THE ENCLOSURE.



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SARASOTA COUNTY  
PUBLIC UTILITIES  
DEPARTMENT

HOME DEPOT MPS  
AND FM

100% BID SUBMITTAL

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2024

DATE: OCTOBER 2025  
PROJECT NO.: 30036073  
FILE NAME: I-05  
DESIGNED BY: AKSHAYA SELVARAJ  
DRAWN BY: ABHINAYA MURUGADASS  
CHECKED BY: RALPH HARTMANN

SHEET TITLE

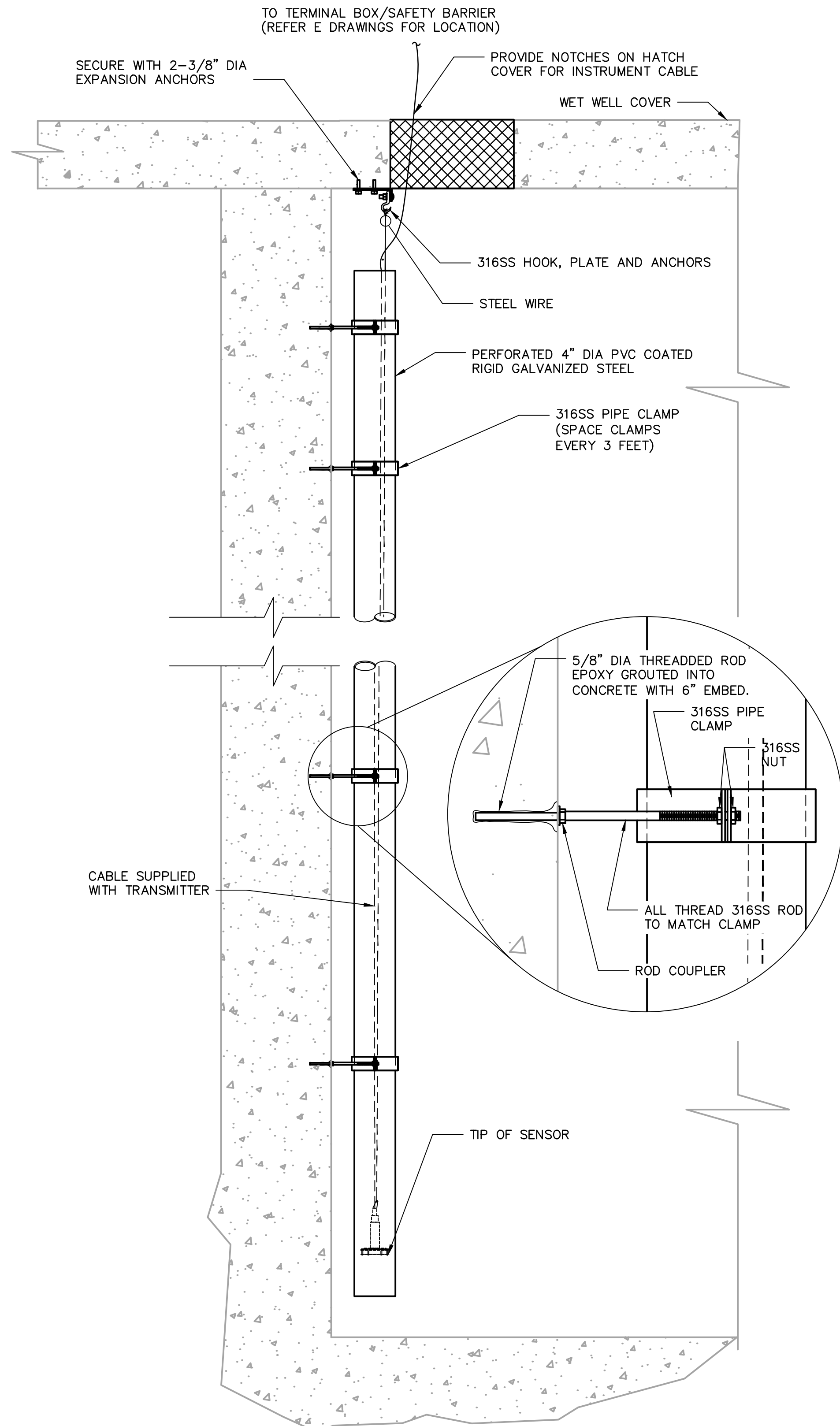
INSTRUMENTATION

**CONTROL PANEL LAYOUT**

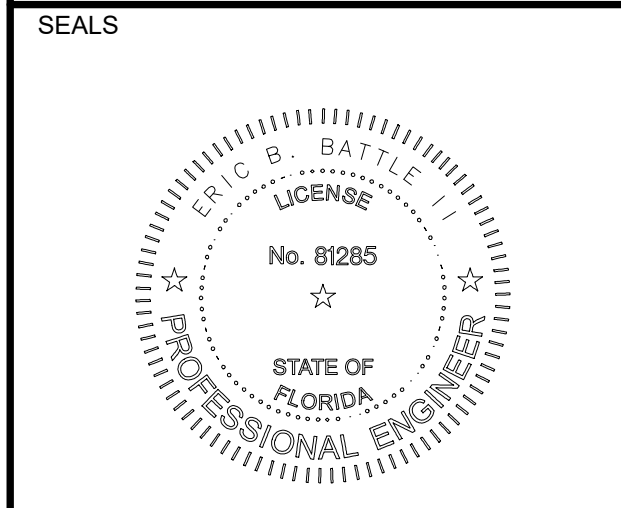
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**6** SUBMERSIBLE PRESSURE TRANSDUCER  
 I-07 NOT TO SCALE



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 SARASOTA COUNTY  
 PUBLIC UTILITIES  
 DEPARTMENT

HOME DEPOT MPS  
 AND FM

100% BID SUBMITTAL

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DATE: OCTOBER 2025

PROJECT NO.: 30036073

FILE NAME: I-07

DESIGNED BY: AKSHAYA SELVARAJ

DRAWN BY: ABHINAYA MURUGADASS

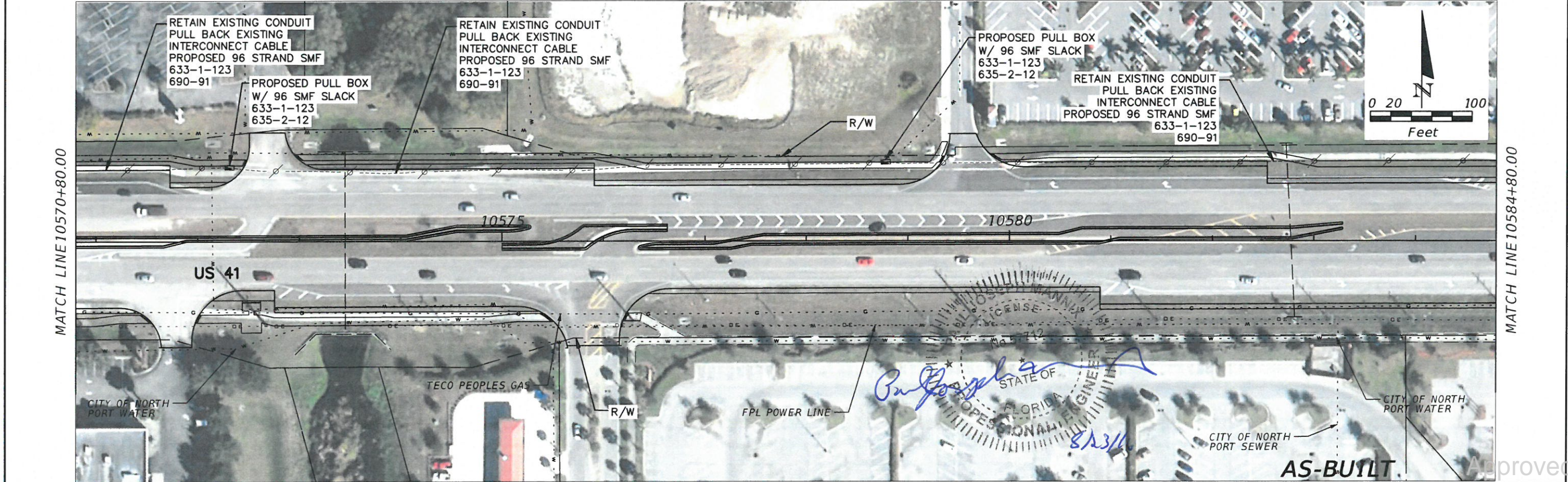
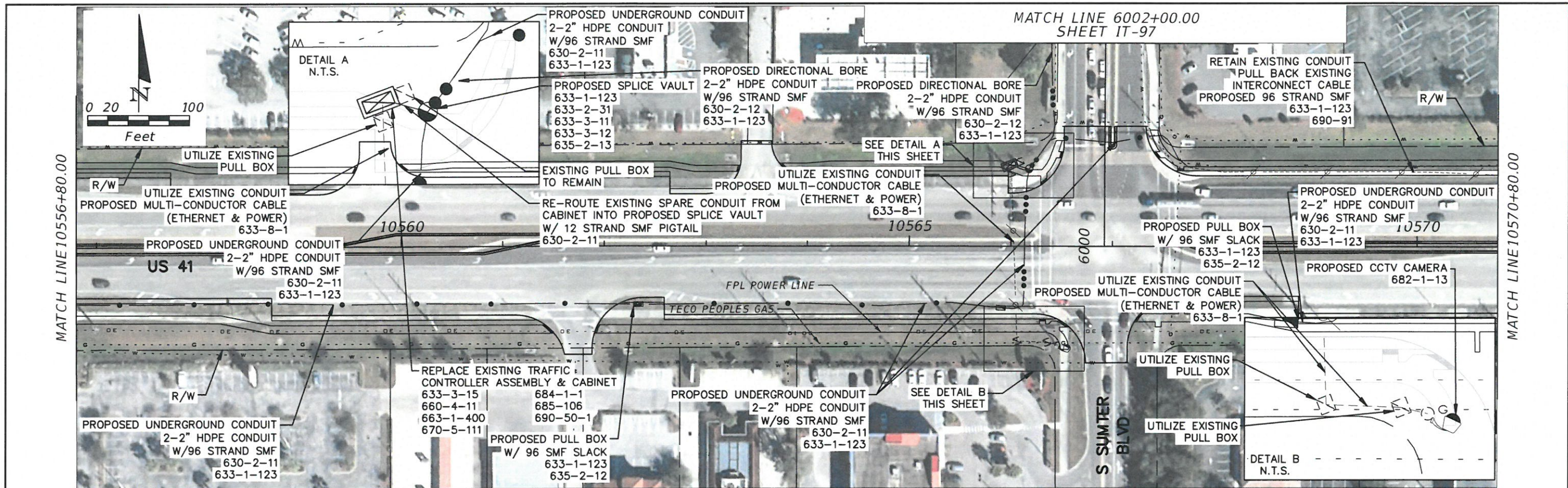
CHECKED BY: RALPH HARTMANN

SHEET TITLE

INSTRUMENTATION

**INSTRUMENTS  
 INSTALLATION  
 DETAILS  
 (SHEET 2 OF 2)**

SCALE: NOT TO SCALE



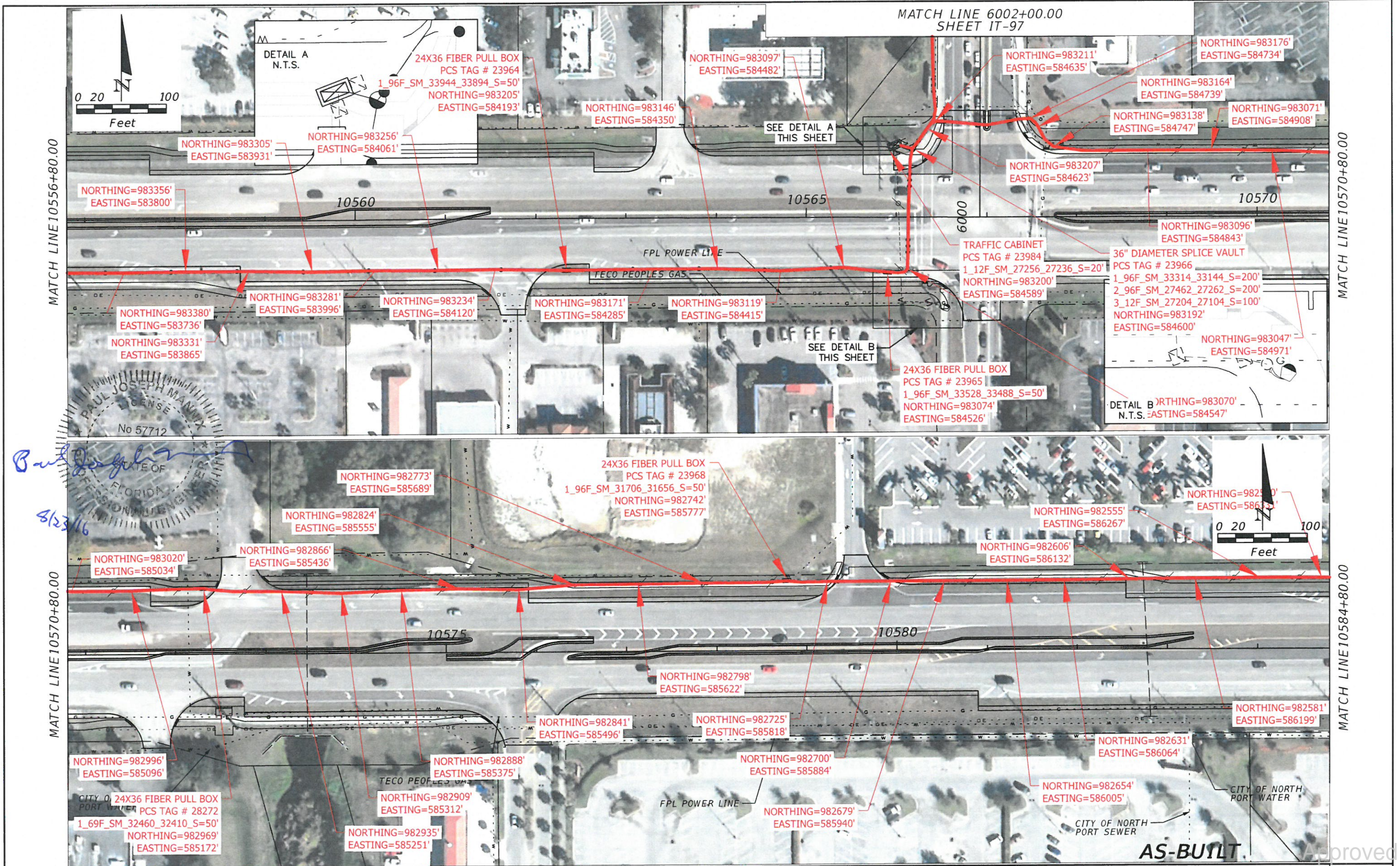
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.  
 482 SOUTH KELLER ROAD  
 ORLANDO, FL 32810  
 (407) 647-7275  
 FBPE CERTIFICATE OF AUTHORIZATION NO. 24  
 PAUL J. MANNIX, P.E. #57712

SARASOTA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	SARASOTA	420974-4-58-01

Approved  
 2025-H-194-00313  
 Mark A. Brown  
 10/30/2025  
**AS-BUILT**  
 SHEET NO. 17-95

*Paul J. Mannix*  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 No. 57712  
 8/23/16

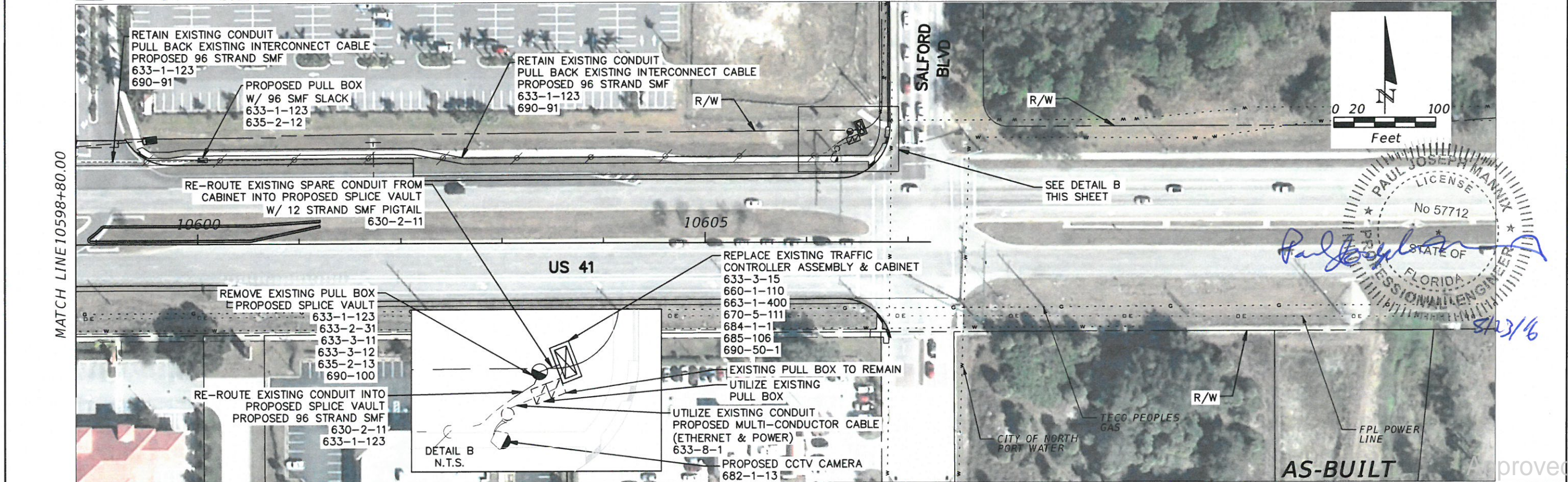
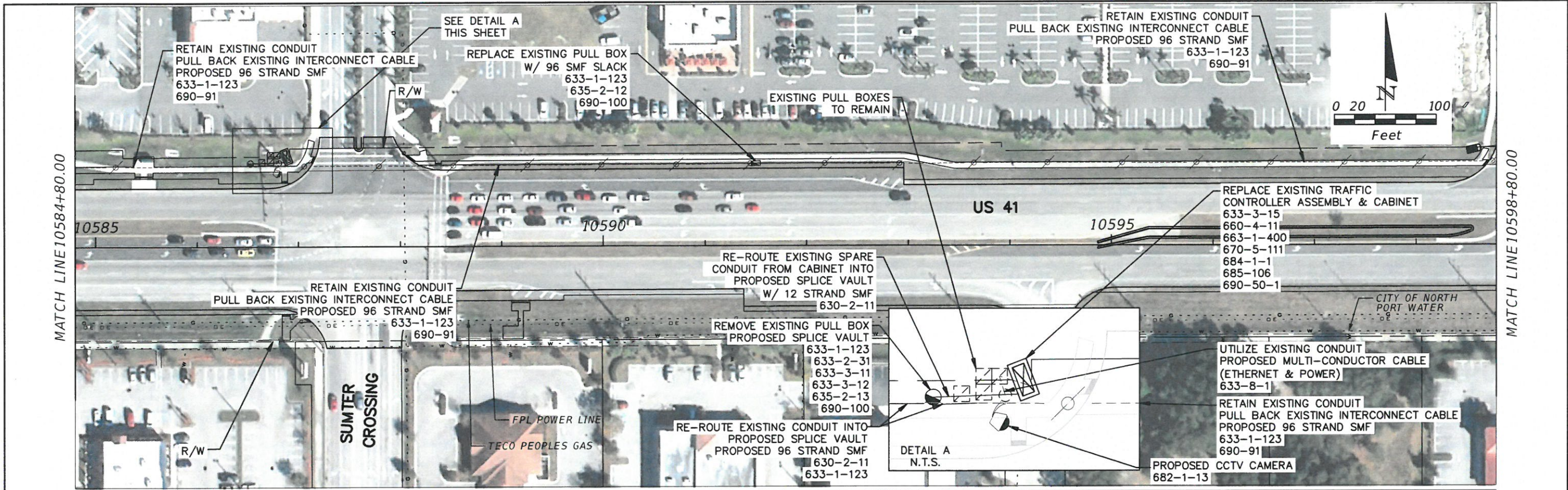


REVISIONS			
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 ORLANDO, FL 32810  
 (407) 647-7275  
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 PAUL J. MANNIX, P.E. #57712

SARASOTA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	SARASOTA	420974-4-58-01

Approved  
 2025-H-194-00313  
 Mark A. Brown  
 10/30/2025  
**ATMS PLAN SHEET**  
 IT-95A



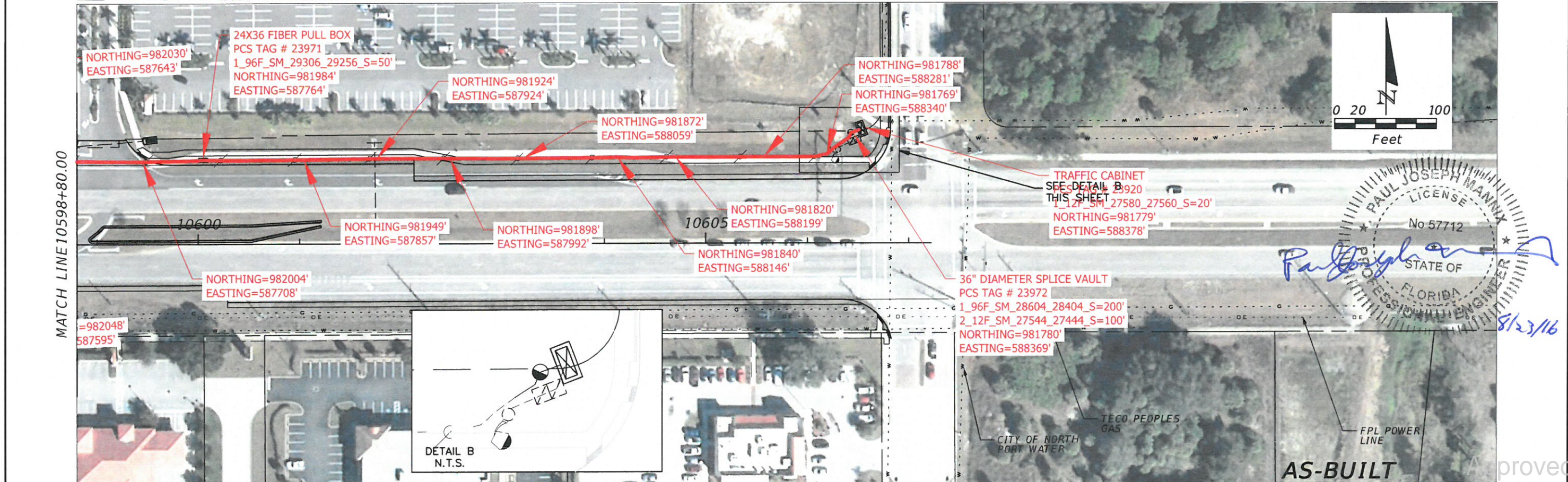
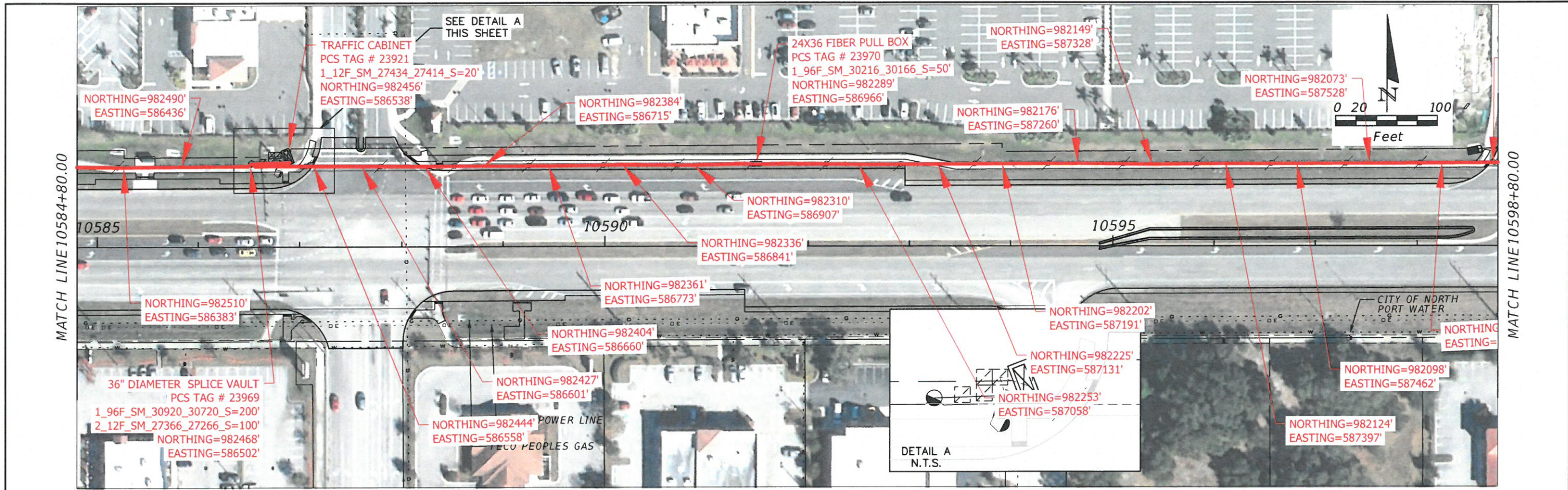
PAUL JOSEPH MANNIX  
 LICENSE No 57712  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 8/23/16

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.  
 482 SOUTH KELLER ROAD  
 ORLANDO, FL 32810  
 (407) 647-7275  
 FBPE CERTIFICATE OF AUTHORIZATION NO. 24  
 PAUL J. MANNIX, P.E. #57712

SARASOTA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	SARASOTA	420974-4-58-01

Approved  
 2025-H-194-00313  
 Mark A. Brown  
 10/30/2025  
**ATMS PLAN SHEET**  
 SHEET NO. 17-96



PAUL JOSEPH MANNIX  
LICENSE  
No 57712  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
8/23/16

AS-BUILT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ATKINS NORTH AMERICA, INC.  
482 SOUTH KELLER ROAD  
ORLANDO, FL 32810  
(407) 647-7275  
FBPE CERTIFICATE OF AUTHORIZATION NO. 24  
PAUL J. MANNIX, P.E. #57712

SARASOTA COUNTY PUBLIC WORKS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	SARASOTA	420974-4-58-01

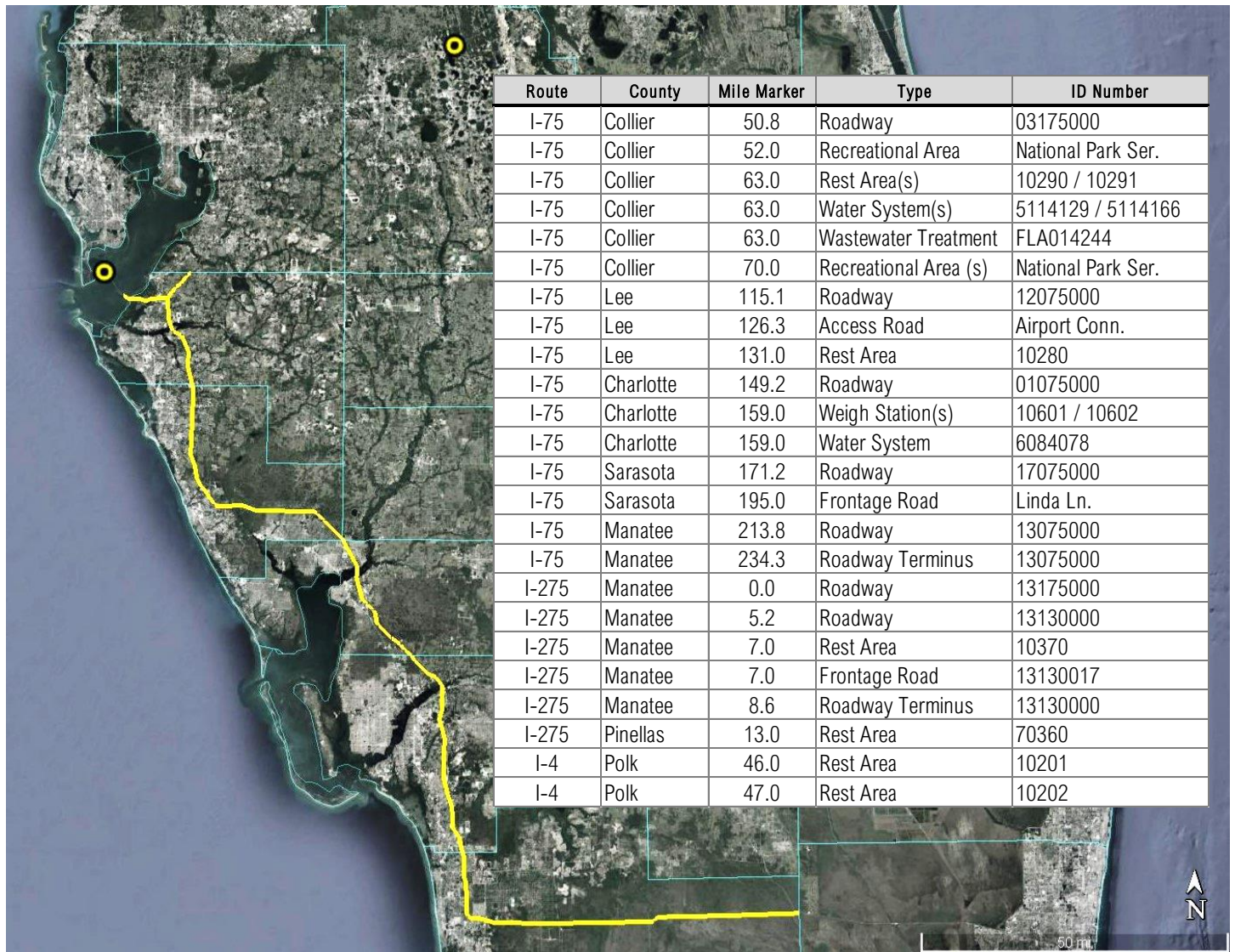
Approved  
2025-H-194-00313  
Mark A. Brown  
10/30/2025  
SHEET NO. 11-96A

DeAngelo Contracting Services LLC  
 FDOT Contract E1U67-R0 I-75 Ultra Asset Maintenance  
 Construction and Permit Inspection Pre-Work Package  
 Issued April 2022

DeAngelo Contracting Services LLC (DCS) is the comprehensive maintenance, operations, and management contractor for Florida Department of Transportation (FDOT) Contract E1U67-R0 I-75 Ultra Asset Maintenance. Our Scope of Services also includes coordination with active construction projects and inspection of approved permits within the limited-access right-of-way.

For your upcoming construction or permitted work activities, including limited access right-of-way lighting locates, please call our main office at **239-488-3100** to be assigned with an DCS team member.

**DCS Project Limits**



**Meetings**

DCS will participate in meetings, most commonly the Pre-Construction, Pre-Work, Field, and Progress meetings.

During the Pre-Construction / Pre-Work Meeting, DCS will coordinate with the Prime Contractor to define the following:

- Key personnel and contact information for business and non-business hours
- FDOT asset(s) included and excluded from Prime Contractor's scope of work

Approved  
 2025-H-194-00313  
 Mark A. Brown  
 10/30/2025

DeAngelo Contracting Services LLC  
FDOT Contract E1U67-R0 I-75 Ultra Asset Maintenance  
Construction and Permit Inspection Pre-Work Package  
Issued April 2022

- FDOT asset(s) excluded from Prime Contractor's scope of work that will be inaccessible or not easily accessible to accommodate maintenance activities (i.e. silt fence blocking fence line)
- Responsible party for Incident Response temporary traffic control for business and non-business hours
- Responsible party for the repair of damaged FDOT asset(s) resulting from a third-party incident
- Key personnel participating in Semi-Final and Final Walk-Through Inspections
- Prime Contractor to DCS notification process for Semi-Final and Final Walk-Through Inspections

We request the Prime Contractor to complete and return the enclosed Pre-Construction Prime Contractor Questionnaire. This helps provide clarity to questions that arise from Topic 850-000-005 Maintenance Responsibilities within the Limits of Construction Projects.

## Inspections

DCS will participate in Pre-Work, Semi-Final, and Final Walk-Through Inspections.

- Pre-Work (0% completion) Walk-Through Inspection – This inspection is for Construction projects only. The DCS Quality Manager and / or Inspector will perform a field inspection before the Prime Contractor breaks ground to determine work-needs that DCS needs to address before the start of construction work activities. The DCS Quality Manager will provide this “punch list” to the DCS Roadway and / or Facility Manager to complete in a timely manner.
- Semi-Final (90% completion) Walk-Through Inspection – The DCS Quality Manager and / or Inspector will perform a field inspection to identify deficiencies relative to the maintenance performance criteria outlined in the FDOT Maintenance Rating Handbook and work activities performed that vary from the approved construction plans and / or permit. The DCS Quality Manager will provide the Prime Contractor via email a “punch list” document depicting the remedial work needs identified along with associated GPS/date stamped photos for reference.
  - FDOT Maintenance Rating Program Handbook is available through this link:  
[https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/maintenance/rdw/mrp/mrphandbook2021.pdf?sfvrsn=109c072\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/maintenance/rdw/mrp/mrphandbook2021.pdf?sfvrsn=109c072_2)
  - The most commonly remedial work needs identified are sunken or broken MAP under cable barrier and guardrail; low / high shoulder along edge of pavement and sidewalk; debris and litter; incorrect object marker plaque size; missing barrier wall and guardrail delineator; sediment barrier, silt fence, or drainage plug not removed; missing chain and lock on drainage grate; fence fabric installation string-lined therefore leaving gap with natural ground; missing / loose guardrail hardware; missing nail in guardrail wooden block; incorrectly overlapped guardrail panels; backside of guardrail damage due worksite equipment strike; highway lighting panel boxes not labeled to match wiring connections; missing pull box hardware; improper signage z-bars, fuse cuts, and height; missing signage; over / under exposed sign base; and turf damage, rutting, and wheel paths.
- Final (100% completion) Walk-Through Inspection – The intent of this inspection is to validate that all previously noted “punch list” remedial work needs have been addressed, and to record new deficiencies identified, if any. The DCS Quality Manager and / or Inspector determine a previous “punch list” item(s) remain outstanding or requires rework and / or additional remedial work needs are identified, the aforementioned “punch list” documentation process will be repeated until all matters have been resolved to satisfaction. Upon verification that all remedial work needs have been satisfied:
  - For construction projects, the DCS Quality Manager will notify the Prime Contractor and FDOT via email that the construction project has been accepted.
  - For approved permit projects, the DCS Quality Manager and / or Inspector will notify the Prime Contractor via email that the permitted work completed has been accepted and will final record such as part designated with the FDOT Permit Department.

Approved  
2025-H-194-00313  
Mark A. Brown  
10/30/2025

### Additional Information

To ensure comprehensive recordkeeping, the DCS Quality Manager and /or Inspector will request various documents from the Prime Contractor.

- For construction projects, DCS will request the Construction and As-Built Plans.
- For Approved Permits, DCS will request licenses and certifications, temporary traffic control plans, as-built plans, density and concrete testing reports, bore logs, asphalt tickets, etc.

In the event of the following actions are identified or discovered, the DCS Quality Manager and / or Inspector will immediately shut-down the operations and notify the local FDOT Operations Center representative:

- Work activities being pursued that are not being administered by the FDOT within the State right-of-way
- Work activities being pursued that has not yet been “approved” to proceed with work activities FDOT within the State right-of-way
- Work being performed in a manner or method not reflected in the Permit (for Approved Permit only)
- Work lacking a requirement of the Permit (for Approved Permit only)
- Work being performed in an unsafe manner

Approved  
2025-H-194-00313  
Mark A. Brown  
10/30/2025

**Pre-Construction Prime Contractor Questionnaire**

Date: \_\_\_\_\_ Contract / Permit #: \_\_\_\_\_

Project Name: \_\_\_\_\_

Location: \_\_\_\_\_

Scope of Work: \_\_\_\_\_

Prime Contractor: \_\_\_\_\_

<u>Point of Contact (1)</u>	<u>Point of Contact (2)</u>	<u>Point of Contact (3)</u>
Name _____	Name _____	Name _____
Title _____	Title _____	Title _____
Phone _____	Phone _____	Phone _____
Email _____	Email _____	Email _____

- Provide a list of key personnel and their contact information for general inquiries during business
- Provide a list of key personnel and their contact information for emergency inquires during non-business hours
- Provide a copy of the Construction Plans

Who will provide us a copy of the As-Built Plans? \_\_\_\_\_

List FDOT asset(s) and / or responsibilities that are included as part of construction: \_\_\_\_\_

If your responsibilities include roadside mowing, will such activities be within advanced warning traffic control devices installed or just within the physical limits of the construction project? \_\_\_\_\_

List any FDOT asset(s) and / or responsibilities that you would like to clearly define as excluded from construction: \_\_\_\_\_

List any FDOT asset(s) excluded from construction that will be inaccessible or not easily accessible for maintenance activities (i.e. silt fence blocking fence line): \_\_\_\_\_

- Yes**  **No** Prime Contractor will provide Incident Response temporary traffic control during business hours
- Yes**  **No** Prime Contractor will provide Incident Response temporary traffic control during non-business hours
- Yes**  **No** Prime Contractor will repair "included" FDOT asset(s) damaged as result of a third-party incident
- Yes**  **No** Prime Contractor will repair "excluded" FDOT asset(s) damaged as result of a third-party incident

Who do we request an invite to the Progress Meeting from? \_\_\_\_\_

Who do we request copies of the Progress Meeting Minutes from? \_\_\_\_\_

How will you notify DCS for the need of Walk-Through Inspections? \_\_\_\_\_

Who do we send our Walk-Through Inspection "punch lists" to? \_\_\_\_\_

Approved  
 2025-H-194-00313  
 Mark A. Brown  
 10/30/2025

**GENERAL COMMENT STAMPS**

THE FDOT MUST BE NOTIFIED TWO (2) BUSINESS DAYS IN ADVANCE OF STARTING WORK BY CONTACTING (941)708-4400. EMAIL: [curtis.vilt@dot.state.fl.us](mailto:curtis.vilt@dot.state.fl.us) FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

IF A LANE CLOSURE IS WITHIN THE PROJECT LIMITS, THE PERMITTEE MUST NOTIFY THE FDOT TWO (2) WEEKS PRIOR TO A LANE CLOSURE TO ALLOW THE FDOT TO INFORM THE MOTORING PUBLIC. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

LANE CLOSURES AND/OR WORK ACTIVITIES MAY BE RESTRICTED BY THE FDOT DUE TO HEAVY TRAFFIC. NIGHT WORK MAY BE REQUIRED.

IF PERMIT WORK IS BEING PROPOSED DURING A FDOT CONSTRUCTION PROJECT, IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO COORDINATE WITH, AND DEFER TO, THE FDOT'S CONTRACTOR.

CORRECT DEFICIENCIES IN THE FRICTION COURSE OR FINAL SURFACE LAYER BY REMOVING AND REPLACING THE FULL DEPTH OF THE LAYER, EXTENDING A MINIMUM OF 50 FEET ON BOTH SIDES (WHERE POSSIBLE) OF THE DEFECTIVE AREA FOR THE FULL WIDTH OF THE PAVING LANE. (330-9.5.1.2)

THE PERMITTEE MUST WAIT FOURTEEN (14) DAYS TO ALLOW ASPHALT FRICTION COURSE TO CURE BEFORE PLACING THERMOPLASTIC PAVEMENT MARKINGS.

IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE AND COMPLY, IN ADDITION TO FDOT REQUIREMENTS, WITH ALL COUNTY AND MUNICIPAL ORDINANCES THAT ARE RELATIVE TO THE ACTIVITIES DESCRIBED ON THIS PERMIT.

ALL UTILITY INSTALATIONS MUST ADHERE TO THE INSTRUCTIONS OR REQUIREMENTS IN THE CURRENT UTILITY ACCOMODATIONS MANUAL.

ALL PORTIONS OF DISTURBED RIGHT-OF-WAY WILL BE SODDED OR SEEDDED WITHIN SEVENTY-TWO (72) HOURS OF COMPLETION OF WORK AND MAINTAINED UNTILL ESTABLISHED.

ALL ABOVE GROUND APPURTENANCES ARE TO BE LOCATED AS CLOSE AS POSSIBLE TO THE FDOT'S RIGHT-OF-WAY LINE.



Approved  
194-00313  
Mark A. Brown  
10/30/2025

# FLORIDA DEPARTMENT OF TRANSPORTATION STORMWATER POLLUTION PREVENTION



## The Law

The Federal Clean Water Act was established in 1972 to protect our waterways. As a result, the National Pollutant Discharge Elimination System (NPDES) program was developed. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to surface waters. The Florida Department of Environmental Protection (FDEP) administers the NPDES program for Municipal Separate Storm Sewer Systems (MS4) and Construction activities.

## CONSTRUCTION ACTIVITIES

### ➤ **Is your construction site regulated?**

Yes, if your construction activity will ultimately disturb one acre or more and has the potential to discharge stormwater to surface waters or into a MS4. Disturbance includes clearing, grading, excavation, and demolition.

### ➤ **What are you required to do?**

- ✓ Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP)
- ✓ Submit a Notice of Intent (NOI or application) and the appropriate fee to FDEP
- ✓ Submit a Notice of Termination (NOT) to FDEP and to the local MS4 once the site meets the eligibility requirements for termination

For more information on NPDES Stormwater Construction Activities, contact FDEP for more information at (850) 245-7522 or visit <https://floridadep.gov/water/stormwater/content/construction-activity-cgp>.

## HOW CAN YOU HELP STOP STORMWATER POLLUTION?

- ✓ Do not pour oil or any chemicals down any storm drain or in the street
- ✓ Use fertilizers and herbicides carefully and only use the recommended amount\*
- ✓ Report illicit discharges\*\*
- ✓ Recycle used oil and dispose of chemicals properly. Contact the Waste Division for the appropriate waste disposal guidance <https://floridadep.gov/waste/permitting-compliance-assistance/documents/permitting-and-compliance-assistance-program>
- ✓ Maintain proper sediment and erosion controls on your construction site



\*Contact your County Agricultural Extension Office for answers to your pest and weed problems.

\*\***Illicit Discharges:** Report any material other than stormwater being discharged into a storm drain or into the street.

County Agricultural Extension Office				County / FDOT Environmental Contacts		
Charlotte Co.	(941) 764-4340	Highlands Co.	(863) 402-6540	Charlotte Co.	(866) 938-6722	
Collier Co.	(239) 252-4800	Lee Co.	(239) 533-7504	Highlands Co.	(863) 402-6877	
DeSoto Co.	(863) 993-4846	Manatee Co.	(941) 722-4524	Lee County	(239) 533-9400	
Glades Co.	(863) 946-0244	Okeechobee Co.	(863) 763-6469	Manatee County	(941) 742-5980	
Hardee Co.	(863) 773-2164	Polk Co.	(863) 519-1041	Polk County	(863) 534-7377	
Hendry Co.	(863) 674-4092	Sarasota Co.	(941) 861-9900	Sarasota County	(941) 861-5000	
				FDOT Right of Way	(863) 519-2762	
				Okeechobee Co.	(863) 763-3117	
FDOT MAINTENANCE YARDS				SPILL REPORTING	State Watch Office (Spill Report Hotline typically 25 gallons or more)	
Bartow OPS Center		(863) 519-4300				(800) 320-0519
Fort Myers OPS Center		(239) 985-7800				
Labelle OPS Center		(863) 674-4027				
Manatee OPS Center		(941) 708-4400				
Peace River OPS Center		(863) 993-4634				
Sebring OPS Center		(863) 386-6104				