

NAPLES BEACH RESTORATION & WATER QUALITY IMPROVEMENT PROJECT - NORTH BASIN 2 60% DESIGN DRAWINGS

Prepared For:
CITY OF NAPLES
735 8th St S,
Naples, FL 34102



Teresa Heitmann, Mayor
Terry Hutchinson, Vice Mayor
Gary Price, Council Member
Mike McCabe, Council Member
Paul Perry, Council Member
Ted Blankenship, Council Member
Raymond Christman, Council Member

Dana Souza, Interim City Manager

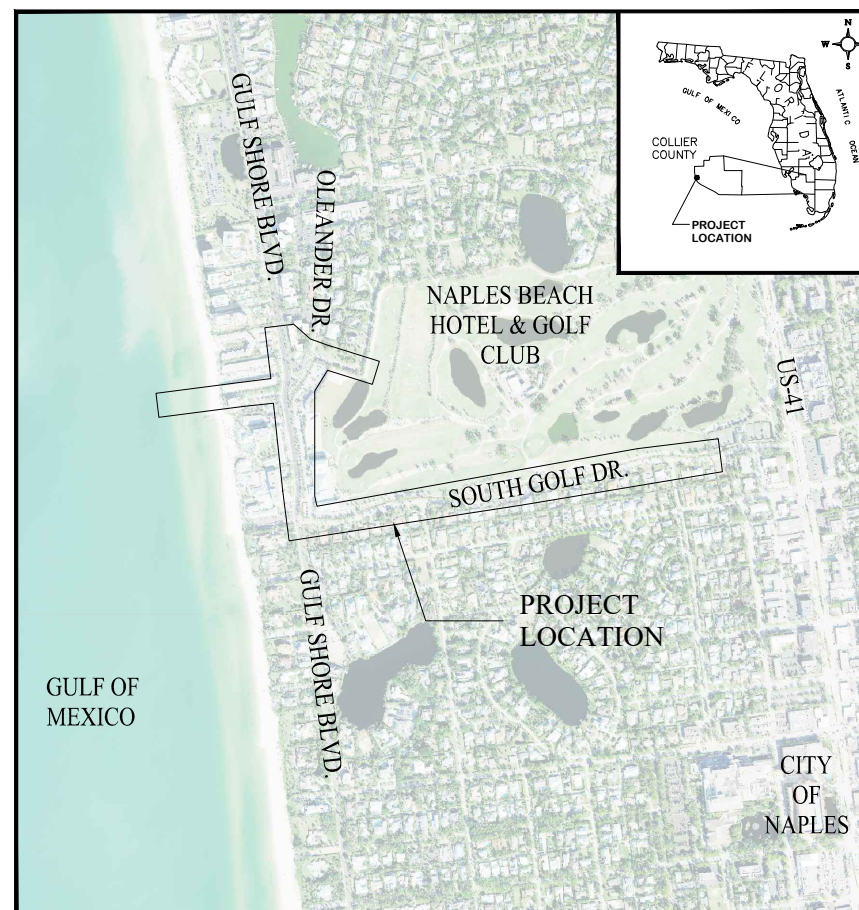
Gregg Strakaluse,
Streets & Stormwater Management Director

Prepared By:



Erickson Consulting Engineers
7201 Delainey Court
Sarasota FL, 34240
941-373-6460

Date: August 2021



VICINITY MAP

ECE Project No.: 20-380

Z:\CADD_Graphics\US Projects\16-329_Naples Outfalls_Phase II\Design\60% NPS plans\NFS_GENERAL.dwg Jul 30, 2021--4:59pm

DRAWING INDEX - STANTEC

3RD AVE. N - CIVIL

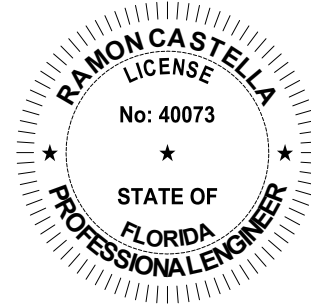
PUMP STATION & GENERATOR- STRUCTURAL

PUMP STATION & GENERATOR - MECHANICAL

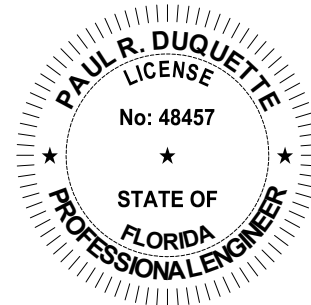
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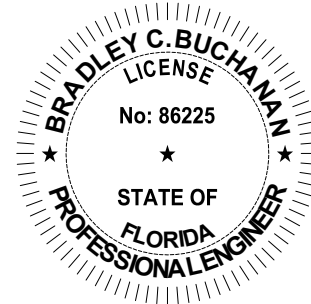
CIVIL / MECHANICAL ENGINEER:
 RAMON CASTELLA, P.E.
 LICENSE NO. 40073
 STANTEC
 5801 PELICAN BAY BOULEVARD
 SUITE 300
 NAPLES, FLORIDA 34108



STRUCTURAL ENGINEER:
 PAUL R. DUQUETTE, P.E.
 LICENSE NO. 48457
 STANTEC
 5801 PELICAN BAY BOULEVARD
 SUITE 300
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ELECTRICAL ENGINEER
 BRADLEY C. BUCHANAN
 LICENSE NO. 86225
 STANTEC
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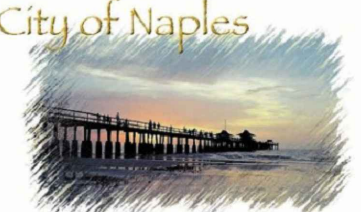
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 & Water Quality
 Improvement Project



File Name:
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title		
SIGNATURE SHEET		
Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	3	0

DRAWING INDEX - ERICKSON CONSULTING ENGINEERS

GENERAL

EXISTING CONDITIONS

DEMOLITION OF EXISTING OUTFALL STRUCTURES PLANS

ACCESS & STAGING PLANS

STORMWATER CONSOLIDATION PLANS

OVERFLOW SYSTEM

OFFSHORE PIPELINE

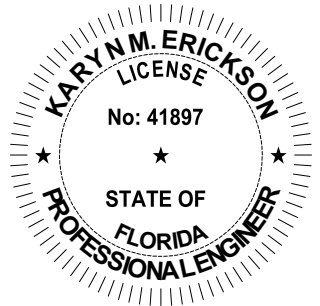
DEWATERING, EROSION, & TURBIDITY CONTROL

ROADWAY PLANS

SIGNING & PAVEMENT MARKING PLANS

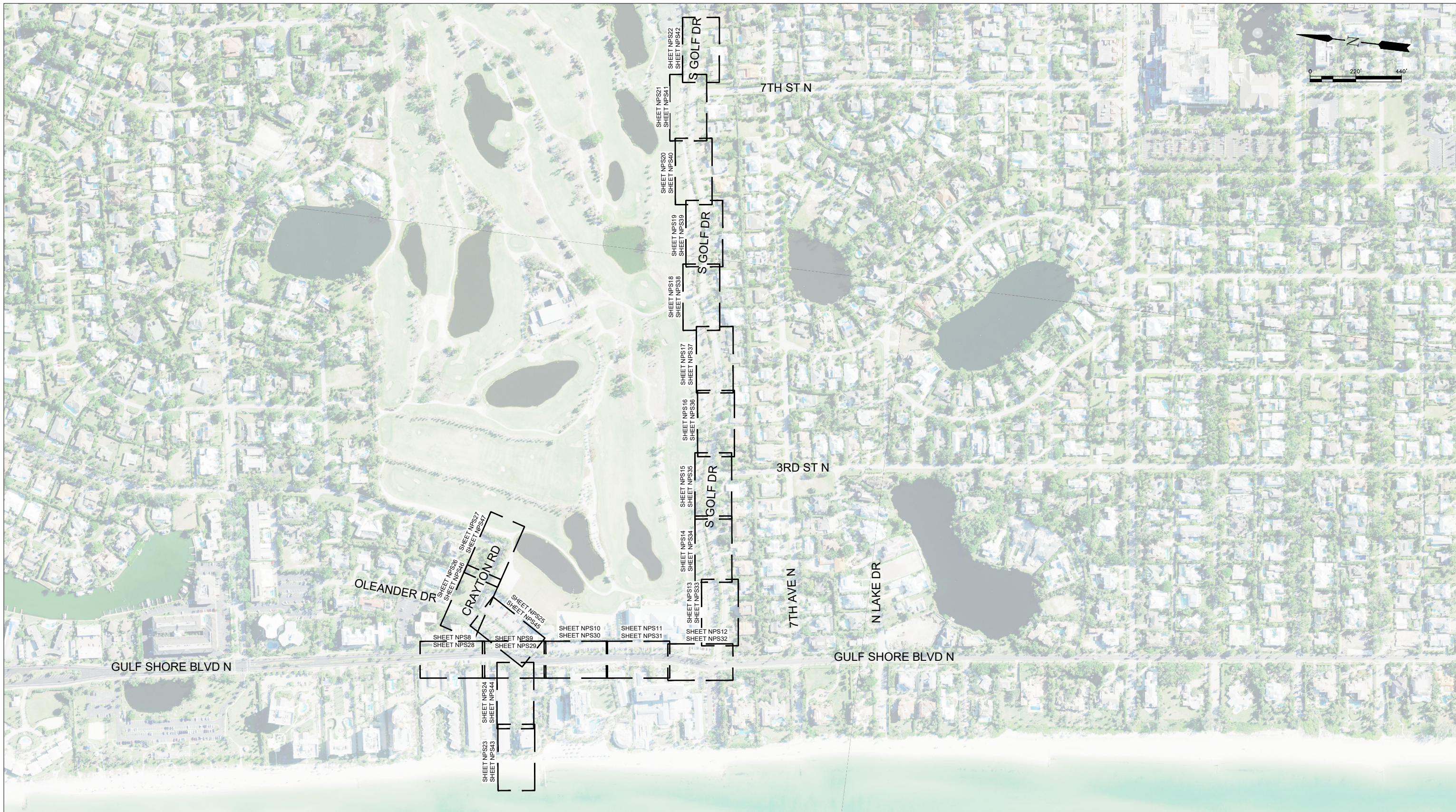
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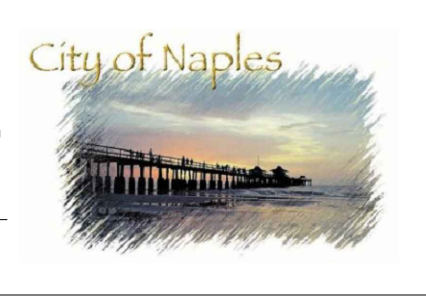
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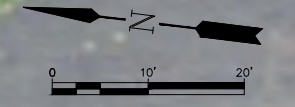
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Title N. PUMP STATION PROJECT KEY SHEET		
Project No. 16-329	Scale AS NOTED	
Drawing No. NPS	Sheet 7	Revision 0

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MATCHLINE SHEET NPS9

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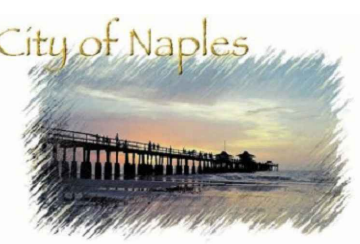
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Title	
N. PUMP STATION EXISTING CONDITIONS PLAN STATION 7+00 TO 10+00	
Project No. 20-380	Scale AS NOTED
Drawing No. NPS	Sheet 8
	Revision 0

MATCHLINE SHEET NPS10



MATCHLINE SHEET NPS12

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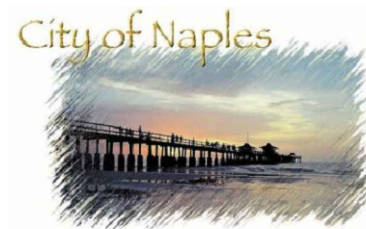
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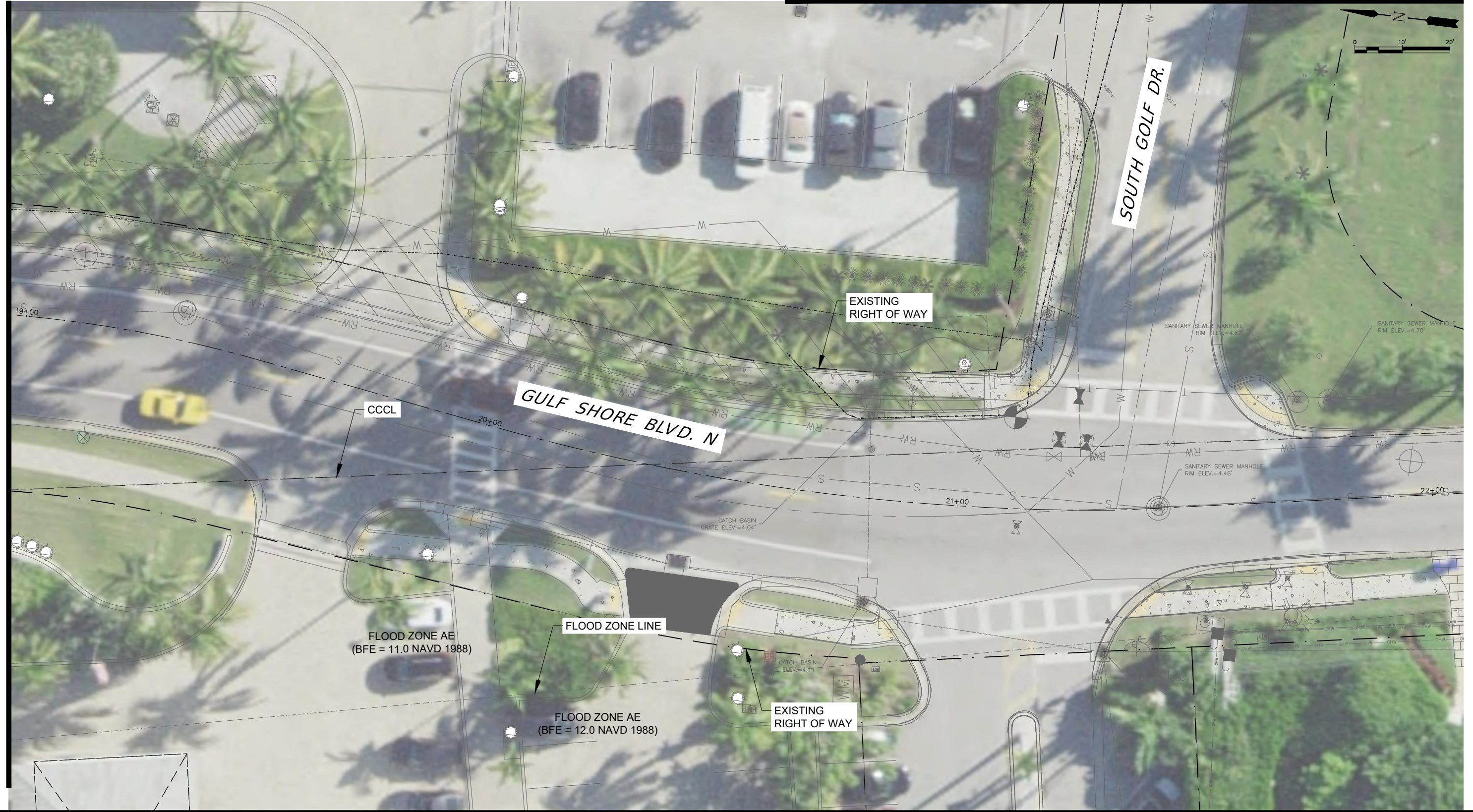


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Title
**N. PUMP STATION
EXISTING CONDITIONS PLAN
STATION 16+00 TO 19+00**

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 11	Revision 0



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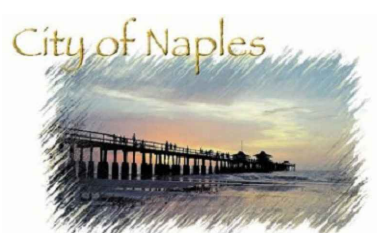
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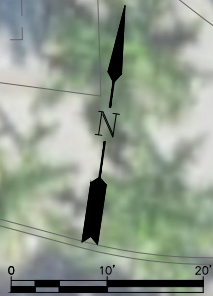
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Title		
N. PUMP STATION EXISTING CONDITIONS PLAN STATION 19+00 TO 22+00		
Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	12	0

MATCHLINE SHEET NPS12

MATCHLINE SHEET NPS14



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Title
**N. PUMP STATION
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STATION**

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 13	Revision 0

MATCHLINE SHEET NPS13



MATCHLINE SHEET NPS15

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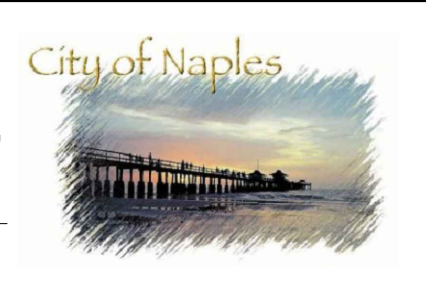
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Title N. PUMP STATION EXISTING CONDITIONS PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 14	Revision 0

MATCHLINE SHEET NPS14



MATCHLINE SHEET NPS16

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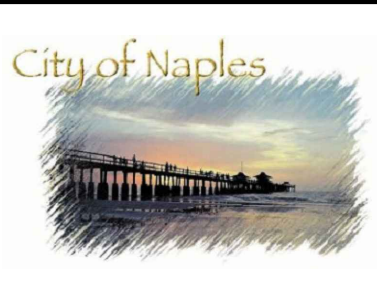
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Title		
N. PUMP STATION EXISTING CONDITIONS PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 15	Revision 0

MATCHLINE SHEET NPS15

MATCHLINE SHEET NPS17



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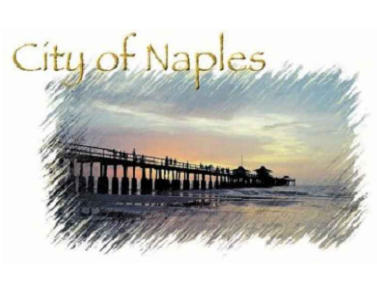
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Title		
N. PUMP STATION EXISTING CONDITIONS PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 16	Revision 0

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MATCHLINE SHEET NPS26

MATCHLINE SHEET NPS9



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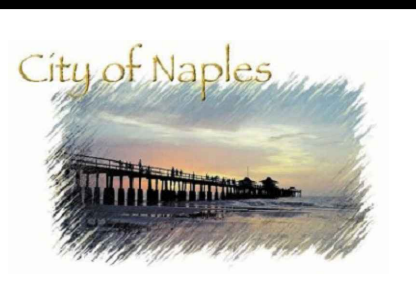
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Title		
N. PUMP STATION EXISTING CONDITIONS PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 25	Revision 0

MATCHLINE SHEET NPS8



MATCHLINE SHEET NPS27

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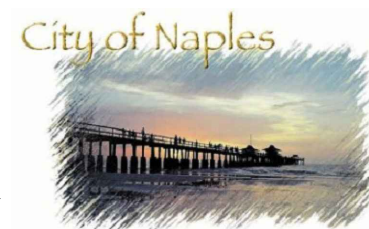
MATCHLINE SHEET NPS25



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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
**N. PUMP STATION
EXISTING CONDITIONS PLAN
STATION**

Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	26	0

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MATCHLINE SHEET NPS26



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Title

N. PUMP STATION
EXISTING CONDITIONS PLAN
STATION

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 27	Revision 0



MATCHLINE SHEET NPS29

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City of Naples

Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION 7+00 TO 10+00		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 28	Revision 0

MATCHLINE SHEET NPS28



MATCHLINE SHEET NPS30

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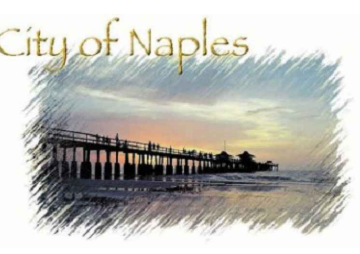
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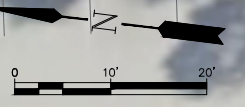
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N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION 10+00 TO 13+00		
Project No. 20-380	Scale AS NOTED	Revision
Drawing No. NPS	Sheet 29	Revision 0

MATCHLINE SHEET NPS29



MATCHLINE SHEET NPS31

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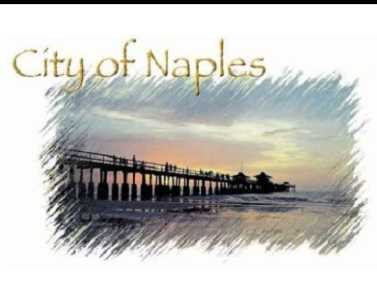
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Title N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION 13+00 TO 16+00		
Project No. 20-380	Scale AS NOTED	Revision 0
Drawing No. NPS	Sheet 30	Revision 0

MATCHLINE SHEET NPS30

MATCHLINE SHEET NPS32



PROPOSED "ROADWAY" EASEMENT

EXISTING RIGHT OF WAY

GULF SHORE BLVD. N

251 LF PROPOSED 43"X68" ERCP

VAULT 2
 MANHOLE TOP = 7.31'
 TOP OF VAULT = '
 N INV = ' 48" ADS OR RCP
 S INV = ' 42" ADS OR RCP

CCCL

EXISTING RIGHT OF WAY

VAULT 3
 MANHOLE TOP = 7.38'
 TOP OF VAULT = '
 N INV = ' 42" ADS OR RCP
 S INV = ' 24" ADS OR RCP

SEAWARD
 "B&C"
 24.88 CFS

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File Name:
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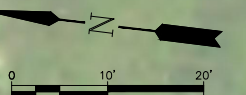
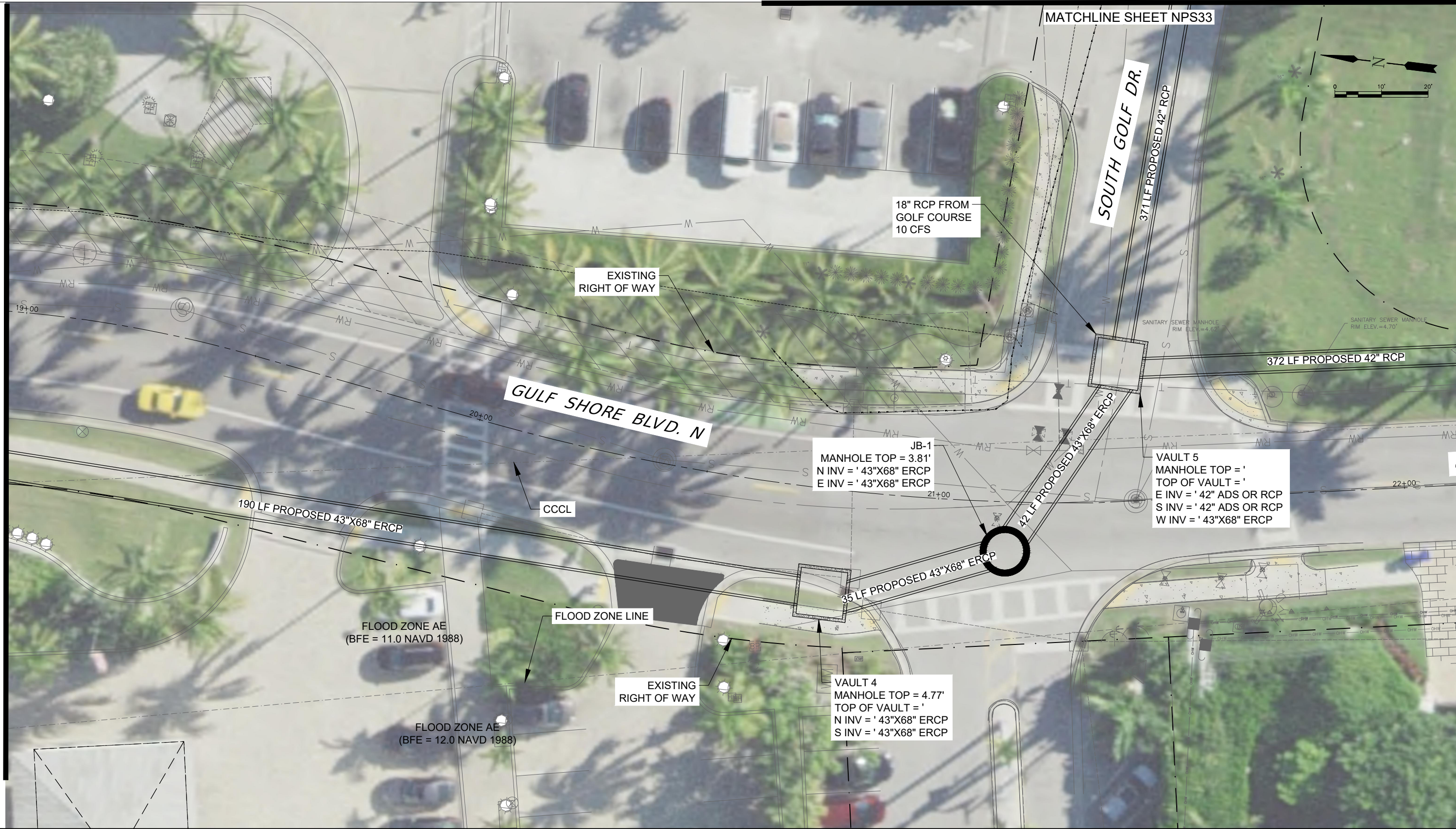
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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
 N. PUMP STATION
 PROPOSED TRUNK LINE PLAN
 STATION 16+00 TO 19+00

Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	31	0

MATCHLINE SHEET NPS31

MATCHLINE SHEET NPS33



Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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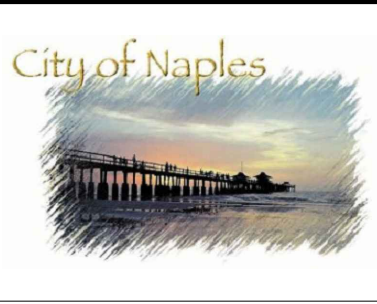
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File Name:
NPS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title
**N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION 19+00 TO 22+00**

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 32	Revision 0

MATCHLINE SHEET NPS33

MATCHLINE SHEET NPS34



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File Name:
NPS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title
**N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION**

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 33	Revision 0

Z:\CADD_Graphics\US Projects\16-329_Naples Outfalls_Phase II\Design\60% NPS plans\NPS_PROPOSED_TRUNKLINE_PLAN.dwg Jul 30, 2021 - 5:30pm

MATCHLINE SHEET NPS33



MATCHLINE SHEET NPS35

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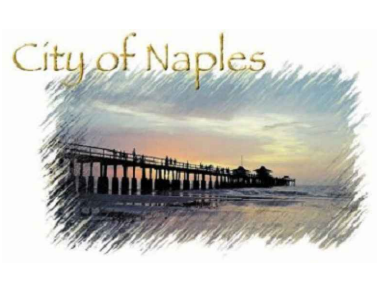
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File Name:
NPS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title
N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 34	Revision 0

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MATCHLINE SHEET NPS34

MATCHLINE SHEET NPS36



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File Name:
NFS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 35	Revision 0



Revision	By	Appd.	YY.MM.DD

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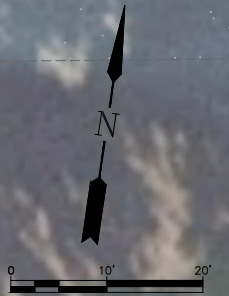
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	Revision
Drawing No. NPS	Sheet 36	Revision 0

MATCHLINE SHEET NPS36



MATCHLINE SHEET NPS38

Revision	By	Appd.	YY.MM.DD

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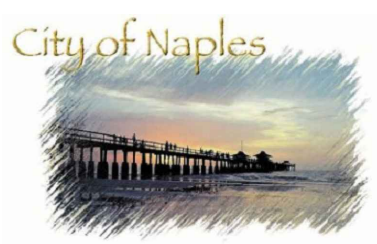
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File Name:
NPS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	Revision
Drawing No. NPS	Sheet 37	Revision 0

MATCHLINE SHEET NPS37



MATCHLINE SHEET NPS39

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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
**N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION**

Project No. 20-380	Scale AS NOTED
Drawing No. NPS	Sheet 38
	Revision 0



Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

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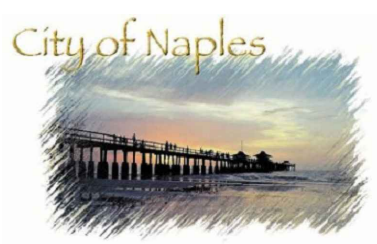
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JAW	SMT	KME	21.06.01
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Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	39	0

MATCHLINE SHEET NPS39



MATCHLINE SHEET NPS41

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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
**N. PUMP STATION
 PROPOSED TRUNK LINE PLAN
 STATION**

Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 40	Revision 0

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MATCHLINE SHEET NPS40



MATCHLINE SHEET NPS42

Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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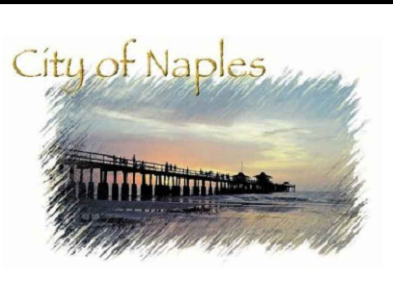
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 41	Revision 0

MATCHLINE SHEET NPS41



Revision	By	Appd.	YY.MM.DD

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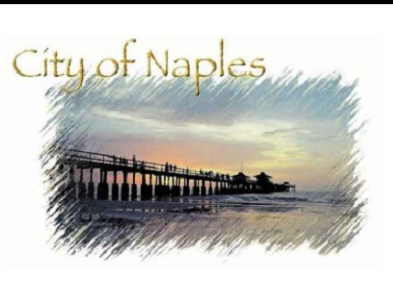
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD

File Name:
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Title			
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION			
Project No. 20-380	Scale AS NOTED		
Drawing No. NPS	Sheet 42	Revision 0	

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MATCHLINE SHEET NPS44

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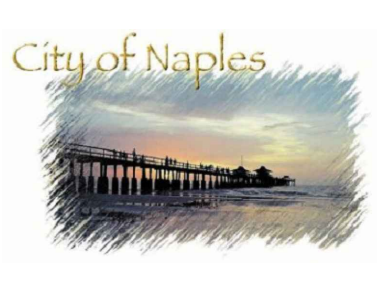
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 43	Revision 0



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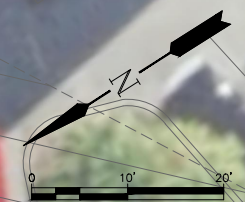
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Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title
**N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION**

Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	44	0

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MATCHLINE SHEET NPS46



MATCHLINE SHEET NPS28

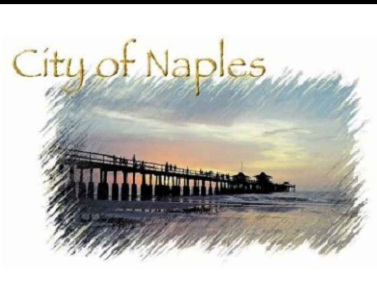
Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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File Name: NFS_PROPOSED_TRUNKLINE_PLAN.dwg			
JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title		
N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 45	Revision 0

MATCHLINE SHEET NPS28



MATCHLINE SHEET NPS47

Revision	By	Appd.	YY.MM.DD

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MATCHLINE SHEET NPS45



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File Name:
NPS_PROPOSED_TRUNKLINE_PLAN.dwg

JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title

N. PUMP STATION
PROPOSED TRUNK LINE PLAN
STATION

Project No. 20-380	Scale AS NOTED
Drawing No. NPS	Sheet 46
	Revision 0

MATCHLINE SHEET NPS46



Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

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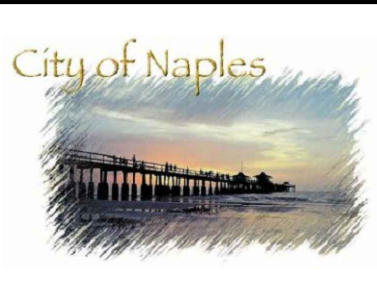
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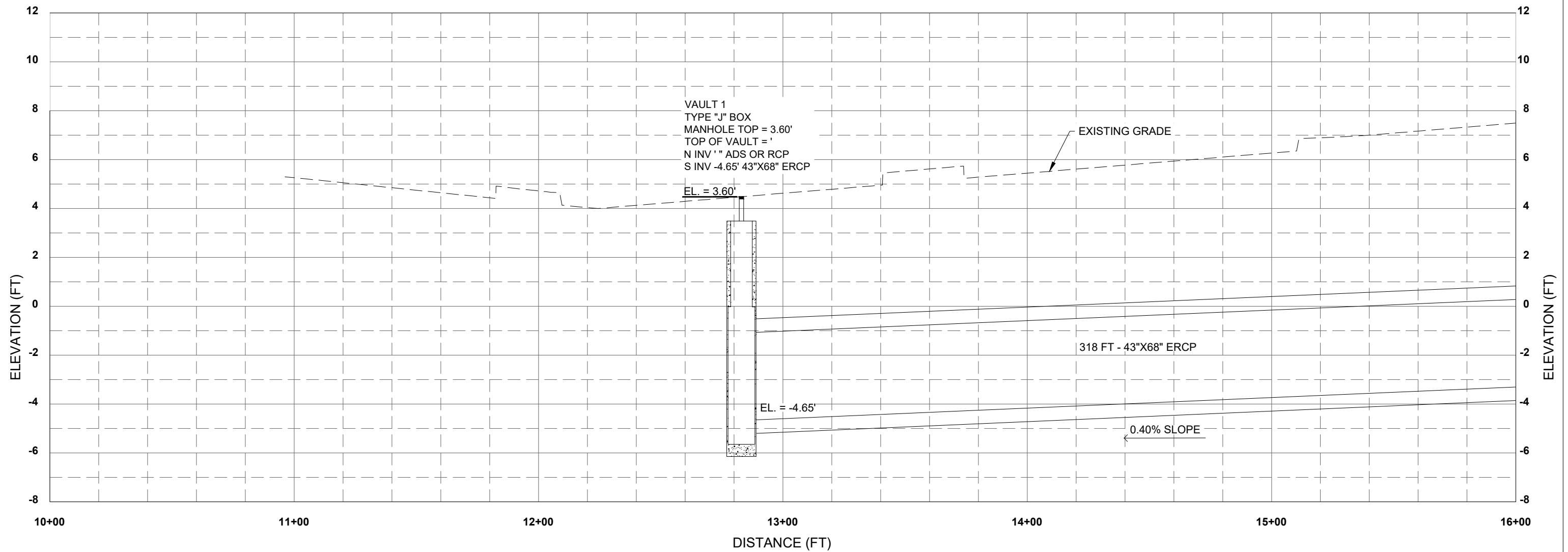
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Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title N. PUMP STATION PROPOSED TRUNK LINE PLAN STATION		
Project No. 20-380	Scale AS NOTED	
Drawing No. NPS	Sheet 47	Revision 0

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GULF SHORE BLVD N
 SCALE: 1"=20' (H)
 1"=2' (V)

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD



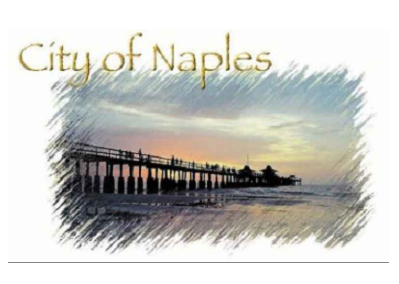
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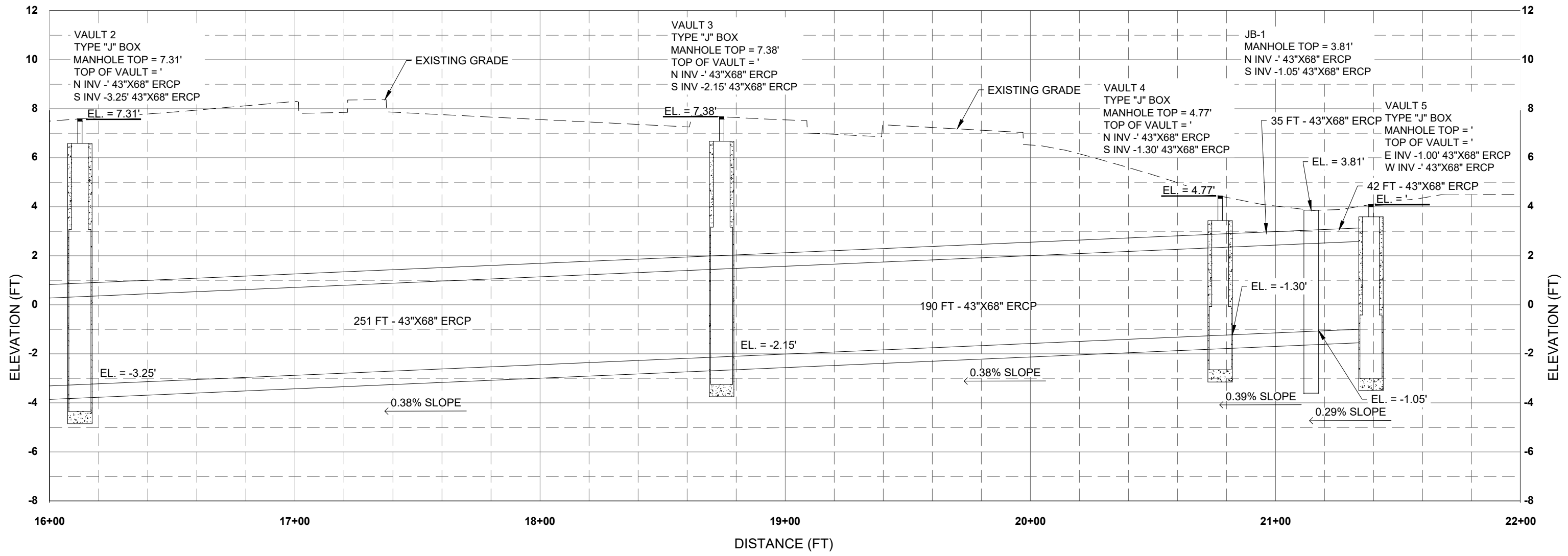
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JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



Title
 N. PUMP STATION
 PROFILE
 STATION 10+00 TO 16+00

Project No.	Scale	
20-380	AS NOTED	
Drawing No.	Sheet	Revision
NPS	48	0



GULF SHORE BLVD N
 SCALE: 1"=20' (H)
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Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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File Name:
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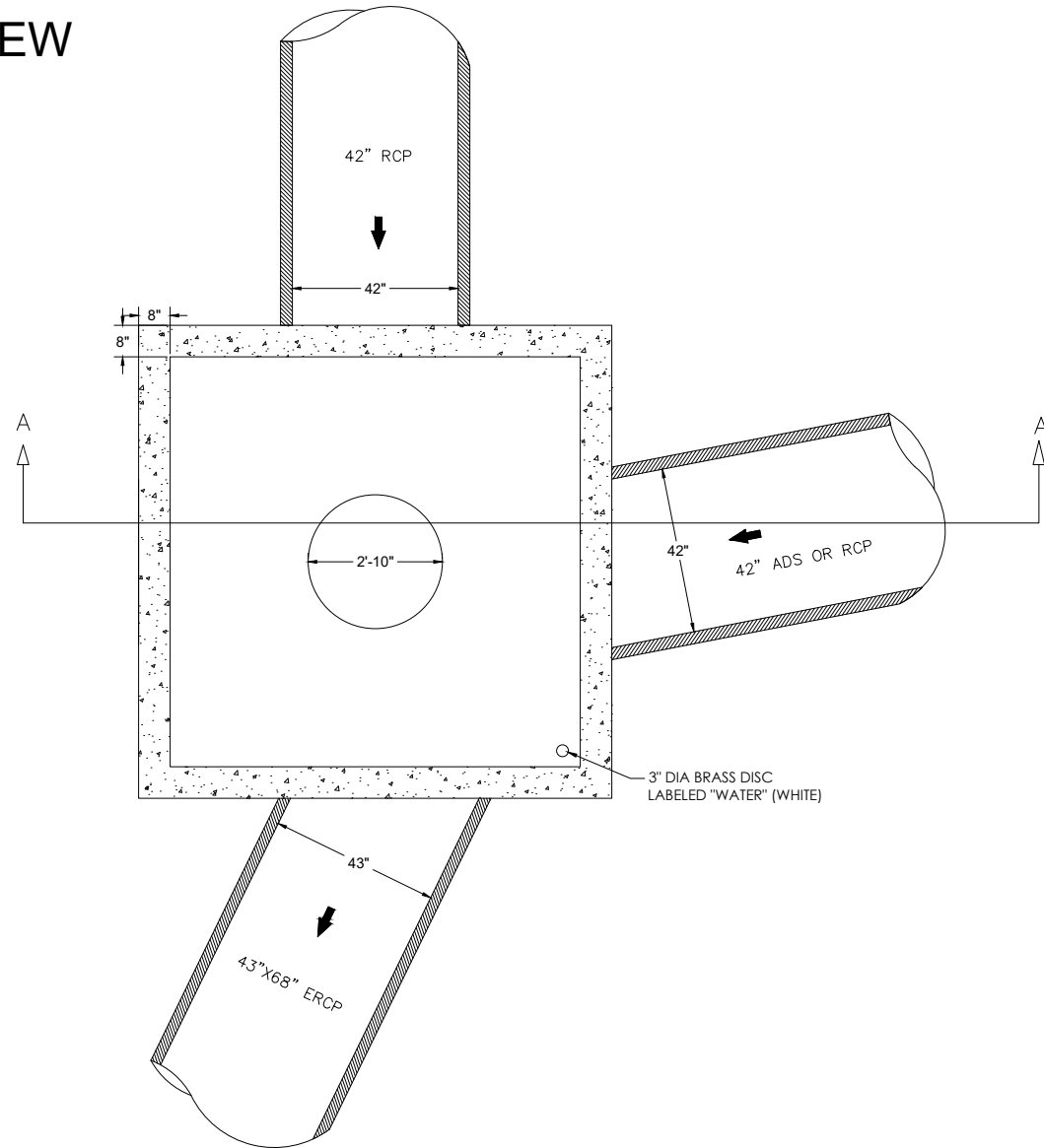
JAW	SMT	KME	21.06.01
Dwn.	Chkd.	Dsgn.	YY.MM.DD



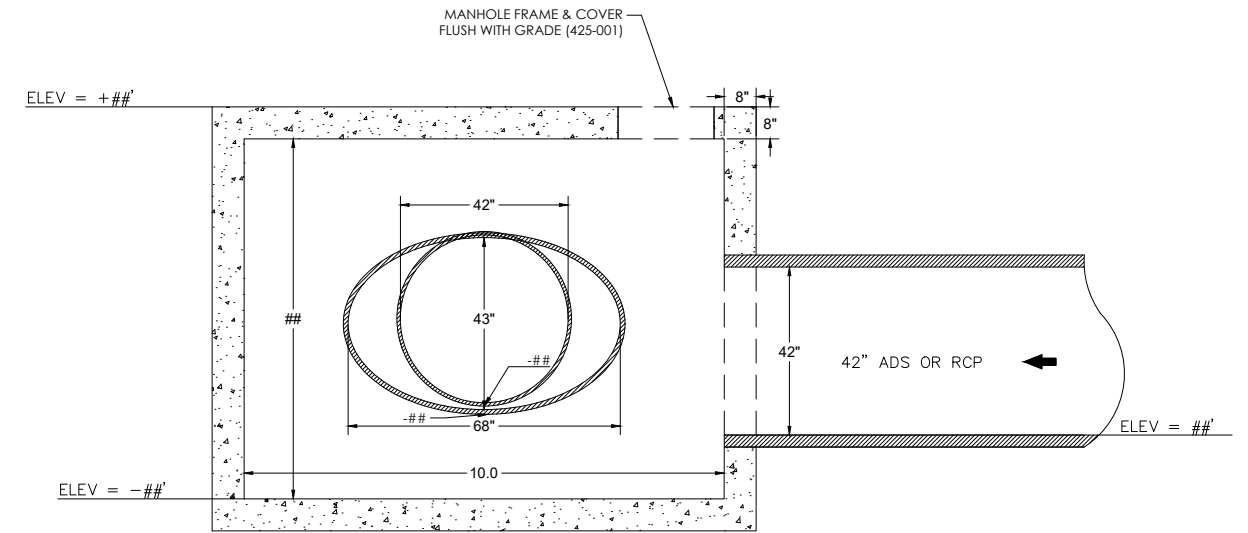
Title		
N. PUMP STATION PROFILE STATION 16+00 TO 22+00		
Project No. 20-380	Scale AS NOTED	Revision
Drawing No. NPS	Sheet 49	Revision 0

**VAULT 5
(NPS)
FDOT J-BOX 10.0' X 12.0'
(INDEX 425-010)**

PLAN VIEW



SECTION A-A



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File Name:
NPS_SW-Details.dwg

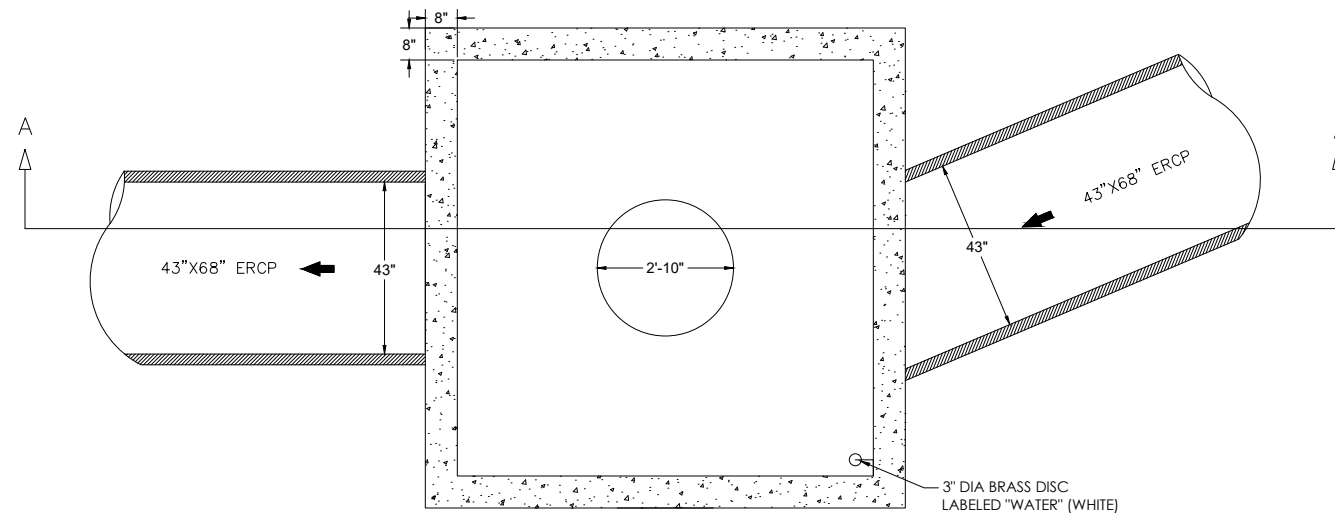
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Dwn.	Chkd.	Dsgn.	YY.MM.DD



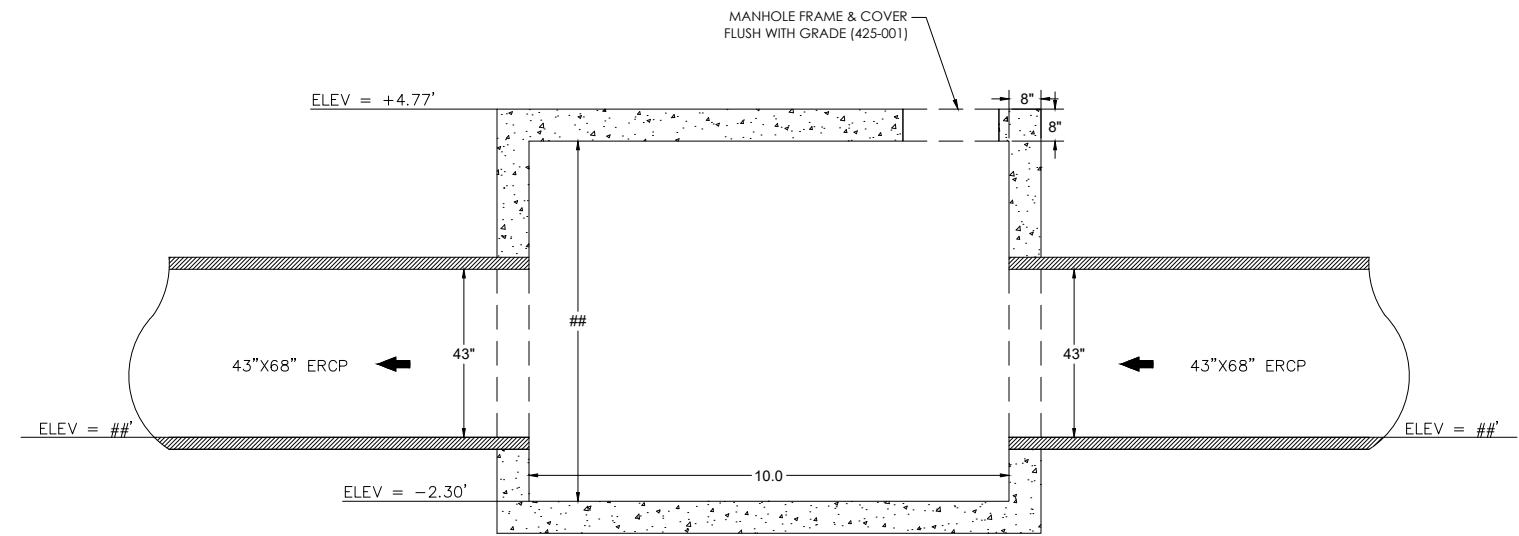
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N. PUMP STATION VAULT DETAILS VAULT 5		
Project No. 20-380	Scale 1" = 2'	Revision
Drawing No. NPS	Sheet 50	Revision 0

VAULT 4 (NPS) FDOT J-BOX 10.0' X 10.0' (INDEX 425-010)

PLAN VIEW



SECTION A-A



Z:\CADD_Graphics\US Projects\16-329_Naples Outfalls_Phase II\Design\60% NPS plans\NPS_SW-Details.dwg Jul 30, 2021-6:46pm

Revision	By	Appd.	YY.MM.DD

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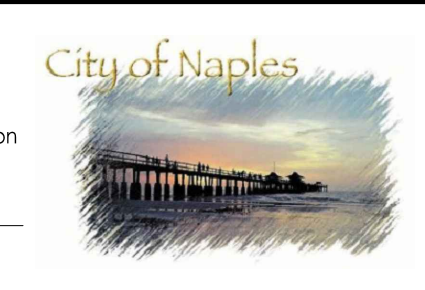
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NAPLES, FL.
Naples Beach Restoration
& Water Quality
Improvement Project

File Name:
NPS_SW-Details.dwg

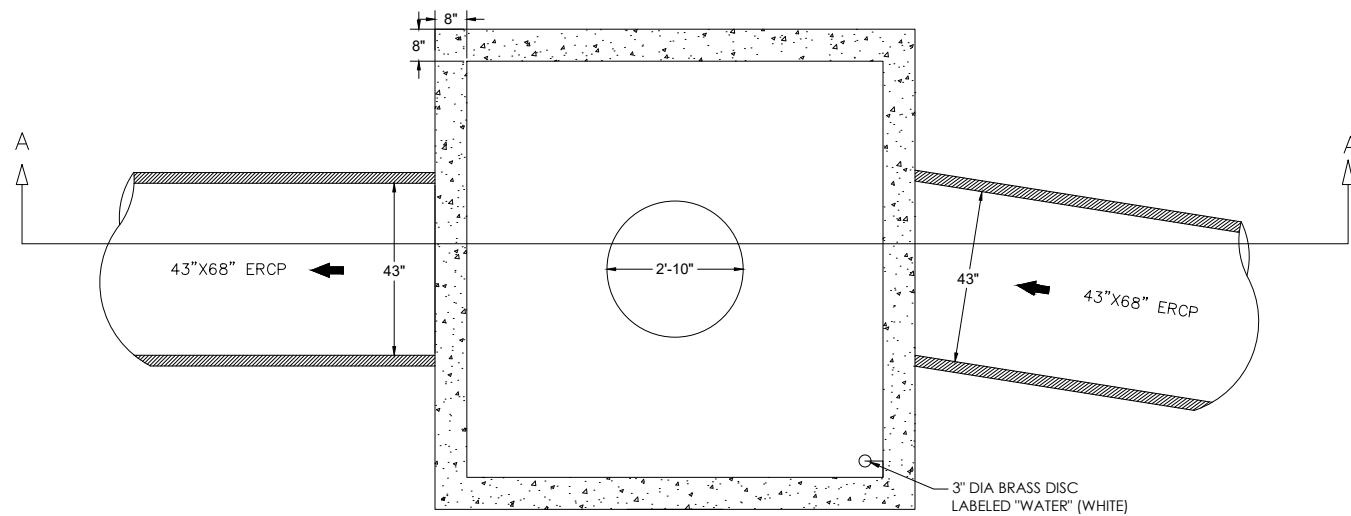
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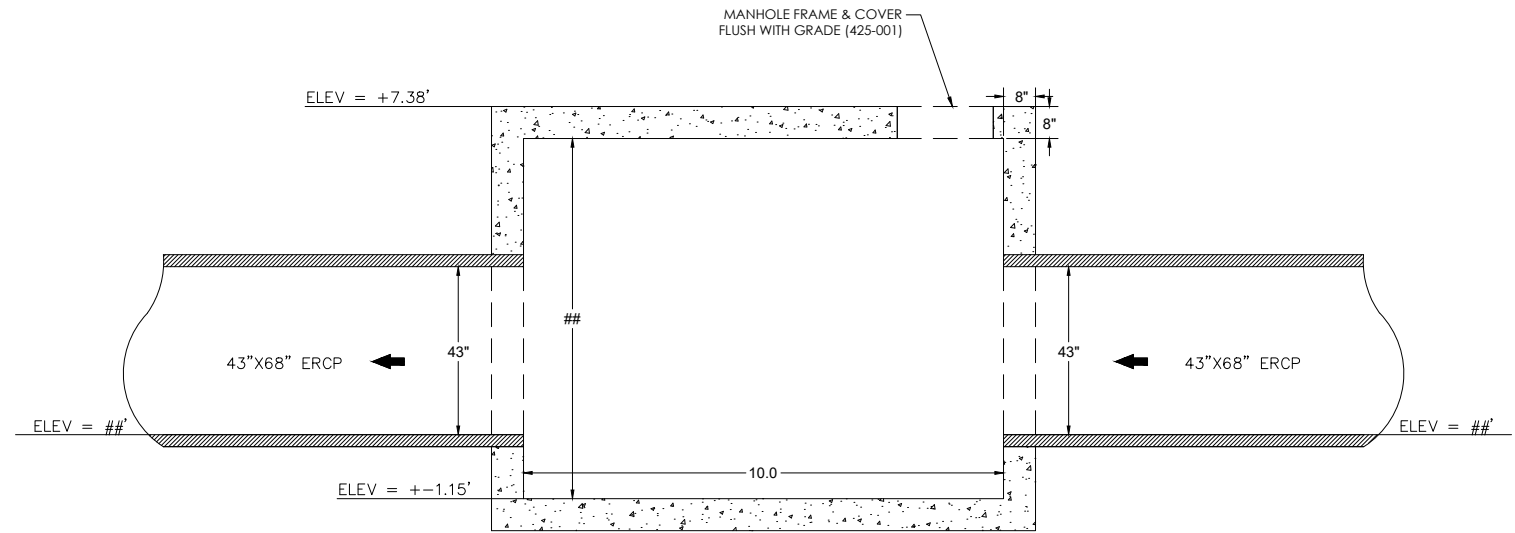
Title N. PUMP STATION VAULT DETAILS VAULT 4		
Project No. 20-380	Scale 1" = 2'	
Drawing No. NPS	Sheet 51	Revision 0

VAULT 3 (NPS) FDOT J-BOX 10.0' X 10.0' (INDEX 425-010)

PLAN VIEW



SECTION A-A



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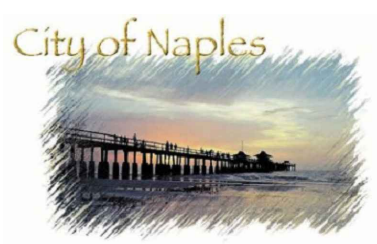
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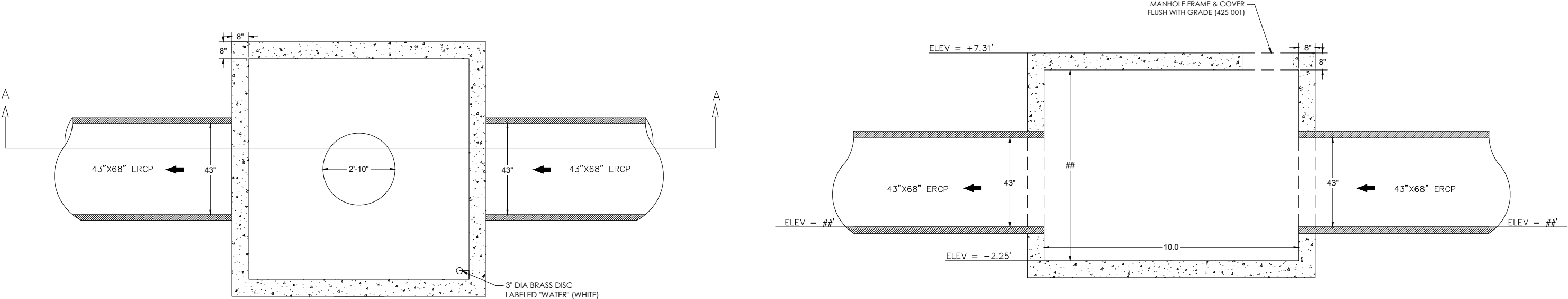
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**N. PUMP STATION
VAULT DETAILS
VAULT 3**

Project No. 20-380	Scale 1" = 2'
Drawing No. NPS	Sheet 52
	Revision 0

VAULT 2 (NPS) FDOT J-BOX 10.0' X 10.0' (INDEX 425-010)

PLAN VIEW

SECTION A-A



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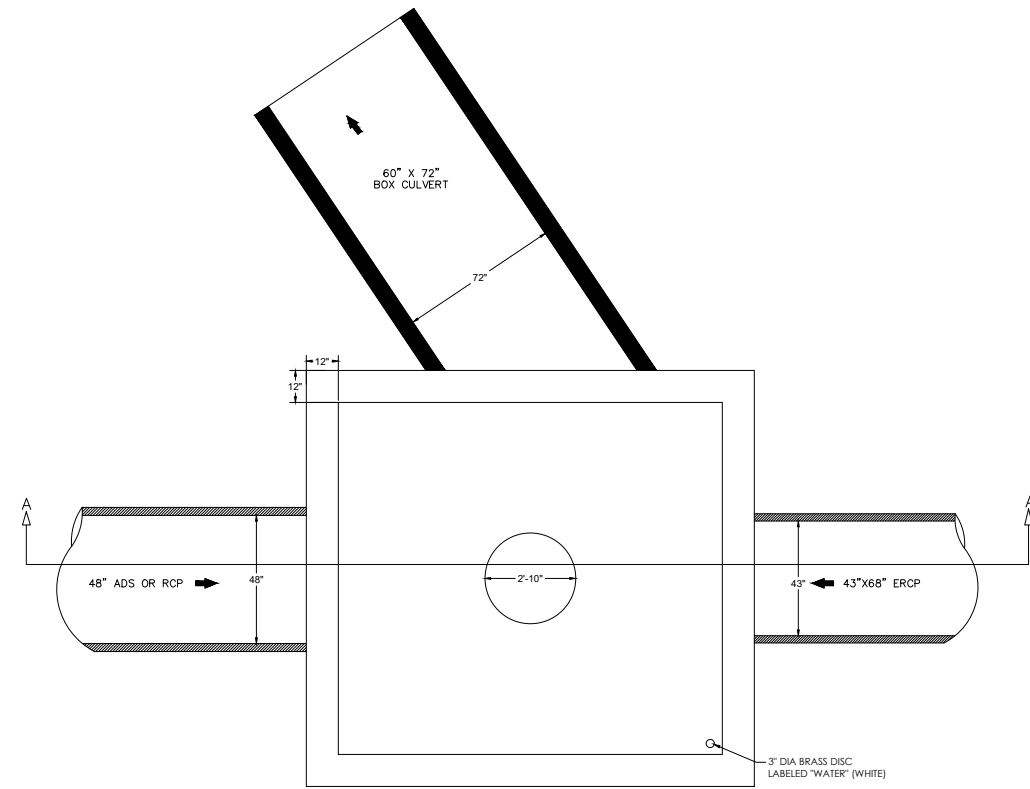
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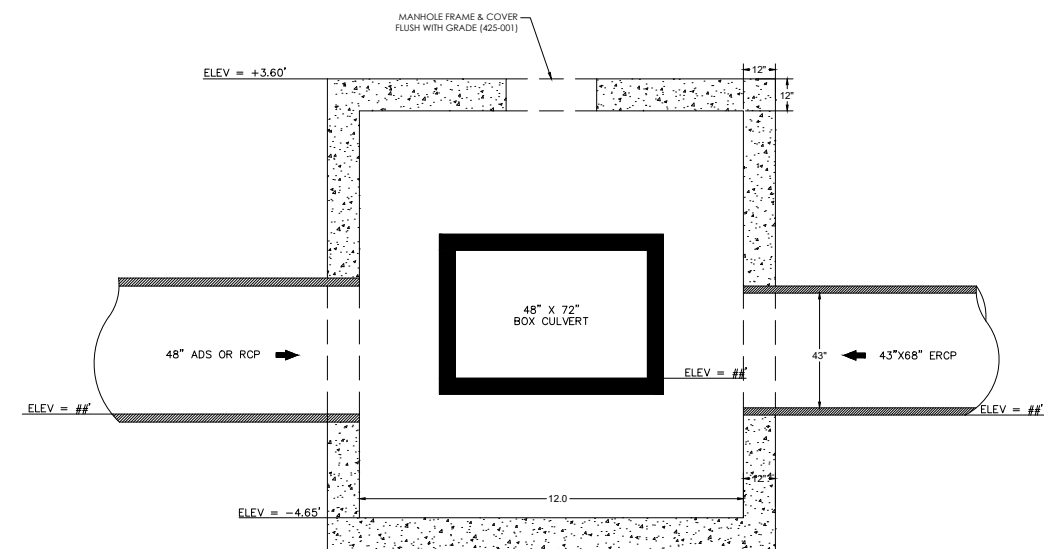
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Project No. 20-380	Scale 1" = 2'	Revision
Drawing No. NPS	Sheet 53	Revision 0

**VAULT 1
(NPS)
FDOT J-BOX 21.0' X 11.0'
(INDEX 425-010)**

PLAN VIEW



SECTION A-A



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Revision	By	Appd.	YY.MM.DD

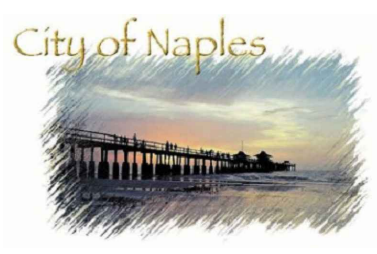
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Title		
N. PUMP STATION VAULT DETAILS VAULT 1		
Project No. 20-380	Scale 1" = 3'	
Drawing No. NPS	Sheet 54	Revision 0

GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE FEDERAL, STATE, AND LOCAL AGENCY STANDARDS.
- CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES (SUNSHINE STATE ONE CALL 811) FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OPERATIONS.
- ALL ELEVATIONS ARE BASED UPON MEAN SEA LEVEL, NAVD 88. HORIZONTAL DATA IS EXPRESSED IN NORTH AMERICAN DATUM 1983.
- THE EXISTING FEATURES SHOWN WITHIN THESE PLANS, INCLUDING UTILITIES, HAVE BEEN COMPILED FROM SURVEY AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THE ENGINEER MAKES NO CLAIM TO THE ACCURACY OF THE UTILITY LOCATIONS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES OF THE PROPOSED CONSTRUCTION AND IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ON THE SITE AND ADJACENT PUBLIC R.O.W. DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPLACED IN LIKE KIND TO THE SATISFACTION OF THE RESPECTIVE UTILITY OWNER. ALL COSTS TO REMEDY DAMAGES TO EXISTING UTILITIES SHALL BE BORNE BY THE CONTRACTOR.
- ALL DISTURBED AREAS SHALL BE RESTORED, INCLUDING REGRADING, TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, MAILBOXES, SIDEWALKS, STREET SIGNS, LANDSCAPING, AND PRIVATE FENCES AS REQUIRED BY OWNER, ENGINEER OF RECORD, AND/OR OTHER GOVERNING ENTITIES.
- THRUST BLOCKING, TIE RODS, AND RESTRAINING GLANDS SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS REQUIRED IN THE FIELD BY THE CITY OF NAPLES UTILITIES DIVISION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS BEFORE COMMENCING WORK.
- CONTRACTOR IS RESPONSIBLE FOR REPLANTING VEGETATION IN ALL AREAS DISTURBED BY THE CONSTRUCTION. ALL VEGETATION SHALL BE MAINTAINED UNTIL ESTABLISHED OR FOR THE DURATION OF THE CONTRACT.
- CONTRACTOR SHALL PROVIDE ACCESS FOR TRAFFIC ON GULF SHORE BLVD. AT ALL TIMES DURING CONSTRUCTION. CONSTRUCTION SHALL BE CONDUCTED IN SUCH A MANNER SO THAT ALL PROPERTY OWNERS RETAIN ACCESS TO THEIR DRIVEWAYS AND FACILITIES AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND PAYMENT OF RESTRAINING ALL POLES OR REMOVING ELECTRICAL LINES / POLES (FPL LIGHTING, ETC.) AS REQUIRED DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.
- REQUIREMENTS OF THE CITY OF NAPLES, UTILITIES DIVISION SHALL GOVERN ALL WORK, WHERE A CONFLICT EXISTS IN THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF CITY OF NAPLES, SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL.
- CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE COMMENCING WORK.
- NO FIELD CHANGES OR DEVIATION FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE CITY.
- CONTRACTOR MUST ADHERE TO FEDERAL REGISTER VOL. 58, NO. 9, RULES AND REGULATIONS, PAGE 4552 AND THE O.S.H.A. TRENCH SAFETY ACT.
- CONTRACTOR SHALL FURNISH "AS-BUILT" ELEVATIONS AND HORIZONTAL LOCATIONS AS REQUIRED BY THE CITY OF NAPLES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A QUALIFIED TESTING FIRM FOR ALL MATERIAL TESTING. ALL IMPROVEMENTS WITHIN PUBLIC RIGHT-OF-WAY OR ON THE LANDS SUBJECT TO THESE REQUIREMENTS, OR THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THAT AREA, WHICHEVER IS MORE STRINGENT.
- THE CONTRACTOR'S TESTING COMPANY SHALL CARRY OUT DENSITY TESTS TO DETERMINE COMPACTION OF BACKFILL SPACED A MINIMUM OF ONE IN EVERY 300 FEET OF TRENCH CUT PER LIFT AND SHALL INCLUDE A TEST AT SPRING LINE OF THE PIPE.
- MAINTENANCE OF TRAFFIC SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION AS REQUIRED BY THE F.D.O.T. / CITY OF NAPLES. ALL OPEN ROAD CUTS SHALL BE FILLED, COMPACTED AND COVERED WITH A TEMPORARY ASPHALT PATCH BEFORE DARK ON A DAILY BASIS DURING CONSTRUCTION. THE CONTRACTOR SHALL RESTORE ALL OPEN CUTS, AS REQUIRED BY F.D.O.T./CITY OF NAPLES.
- CONTRACTOR SHALL HIRE THE SERVICES OF AN INDEPENDENT GEOTECHNICAL ENGINEER DURING THE EXCAVATION AND SOIL SUPPORT ACTIVITIES AGAINST THE SOUTH RIGHT OF WAY OF THIRD AVENUE NORTH AND THE PRIVATE RESIDENCE ON 215 GULF SHORE BLVD. INSTALL MONITOR, READ, RECORD, MAINTAIN, PROTECT, AND REMOVE OR ABANDON GEOTECHNICAL INSTRUMENTATION AS SPECIFY IN SECTION 02453 GEOTECHNICAL INSTRUMENTATION AND MONITORING. ENSURE THAT INSTRUMENTATION IS INSTALLED, FULLY FUNCTIONAL, THAT THE FIRST SET OF READINGS ARE TAKEN, AND THAT THE INSTRUMENTATION IS READY FOR MONITORING NO LATER THAN SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR ANOTHER UNDERGROUND CONSTRUCTION ACTIVITY WITHIN 200 FT IN PLAN OF THE DESIGNATED INSTRUMENTATION LOCATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO AVOID AND CONTROL MOVEMENTS OR DEFLECTION BY IMPLEMENTING APPROPRIATE CONSTRUCTION PROCEDURES DURING THE EXCAVATION AND SUPPORT ACTIVITIES OF THE GROUND. RESTORE DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION-RELATED SETTLEMENT IN EXCESS OF ALLOWABLE MAXIMUM VALUES AT NO ADDITIONAL COST TO THE OWNER. OBTAIN PRIOR APPROVAL FROM THE OWNER FOR ANY PROPOSED REPAIRS TO ROADWAYS OR PRIVATE PROPERTIES.
- THE CONTRACTOR SHALL INSTALL SEISMOGRAPHS AT THE NEAR POINT OF THE BUILDING LOCATED AT ADDRESS 215 GULF SHORE BLVD. FACING THE EXCAVATION SITE. UNLESS EASEMENTS HAVE BEEN OBTAINED, THE CONTRACTOR WILL BE RESPONSIBLE FOR NEGOTIATING PLACEMENT OF SEISMOGRAPHS, NOISE MONITORING AND GEOTECHNICAL INSTRUMENTATION AND MONITORING DEVICES (I.E. SETTLEMENT MONITORING, OPTICAL SURVEY TARGETS) WITH PROPERTY OWNERS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT WATER DISCHARGED FROM THE SITE DURING CONSTRUCTION SHALL MEET OR EXCEED STATE WATER QUALITY STANDARDS. SPECIFICALLY, THE TURBIDITY OF DISCHARGED WATER SHALL NOT EXCEED 29 NTU ABOVE THE BACKGROUND LEVEL. WATER QUALITY AND SILTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL EROSION CONTROL MEASURES ARE INSTALLED, ESTABLISHED AND ACCEPTED.
- WHERE INDICATED, OR AS NECESSARY SILT FENCES AND OR HAY BALES SHALL BE PLACED ALONG THE PROJECT PERIMETER TO PREVENT SEDIMENT IN RUNOFF AND TURBID WATER FROM LEAVING THE SITE.

CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS

- OPEN ROAD CUTS REQUIRE PRIOR APPROVAL OF THE CITY, COUNTY, STATE OR ANY OTHER AGENCY WHICH MAY HAVE JURISDICTION.
- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.
- ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL RECEIVE GRASS SEED, MULCH OR SOLID SOD.
- STREET OR HIGHWAY RESTORATION TO BE DONE AS PER LOCAL OR STATE AGENCY HAVING JURISDICTION.
- CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITY REGARDING CLOSING OR RESTRICTING THE USE OF PUBLIC STREETS OR HIGHWAYS.
- TRAFFIC CONTROL ON ALL COUNTY, CITY OF NAPLES, AND STATE HIGHWAY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT / FHWA) AND REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.
- MAINTENANCE OF TRAFFIC PLANS TO BE SUBMITTED BY CONTRACTOR AT HIS SUBMITTAL FOR RIGHT-OF-WAY PERMITS.

DRAINAGE NOTES

- ALL PIPE LENGTHS ARE PLUS OR MINUS AND ARE MEASURED FROM THE CENTER OF STRUCTURES.
- THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS OF VALVE BOX COVERS, MANHOLE RIMS AND COVER, GRATES, ETC., NECESSARY TO MATCH FINAL GRADES AS SHOWN ON PLANS.
- ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRASSED AND MULCHED UNLESS OTHERWISE SHOWN ON THE PLANS OR DETAILS.
- EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND CITY A MINIMUM OF 48 HOURS BEFORE REQUIRED INSPECTIONS.
- ALL FRAME AND GRATE INLETS TO BE HEAVY DUTY TRAFFIC RATED.
- THE WATER MANAGEMENT SYSTEM OUTSIDE PROJECT LIMITS TO BE MAINTAINED BY CITY STREETS AND STORMWATER DEPARTMENT. THE WATER MANAGEMENT SYSTEM INSIDE PROJECT LIMITS TO BE MAINTAINED BY THE CONTRACTOR.

UTILITY NOTES

- CONTRACTOR SHALL MARK LOCATIONS OF ALL PRESSURE PIPES BY INSTALLING METALIZED IDENTIFICATION TAPE BURIED APPROXIMATELY 12" (NOT MORE THAN 18") ABOVE TOP OF PIPE. TAPE WIDTH SHALL BE 3 INCH MINIMUM.
- CONTRACTOR SHALL INSTALL 4 INCH 3M ELECTRONIC BALL MARKERS, OR APPROVED EQUAL, EVERY 200 LF AND AT EACH PIPE ELBOW LOCATION.
- HORIZONTAL AND VERTICAL DEFLECTION OF THE PRESSURE MAINS SHALL NOT EXCEED THE PIPE MANUFACTURER'S SPECIFICATIONS. BENDS SHALL BE USED WHERE DEFLECTIONS EXCEED THE MANUFACTURER'S SPECIFICATIONS.
- COVER FOR MAINS SHALL BE MEASURED FROM FINISHED GRADES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE MINIMUM COVER, REGARDLESS OF EXISTING GRADE.
- CONTRACTOR SHALL CONSTRUCT ALL WATER AND STORMWATER APPURTENANCES INCLUDING METER BOXES, BLOW-OFFS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, ETC. TO FINISHED GRADE. CONTRACTOR SHALL COORDINATE DURING THE CONSTRUCTION STAKE-OUT AND PRIOR TO CONSTRUCTION OF SAID APPURTENANCES WITH OWNER AND ENGINEER REGARDING FINISHED GRADE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE CONSTRUCTION OF SAID APPURTENANCES TO FINISHED GRADE.
- ALL MATERIALS, DEBRIS, UNSUITABLE EARTH, ETC. OF NO SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

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Naples Beach Restoration & Water Quality Improvement Project



File Name: 10606_ZG-002.dwg

MPL	SAH	SEC	2020.02
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Title

**PUMP STATION
GENERAL NOTES**

Project No. 177310606

Revision

Scale

Sheet

Drawing No. **G-002**

X of X



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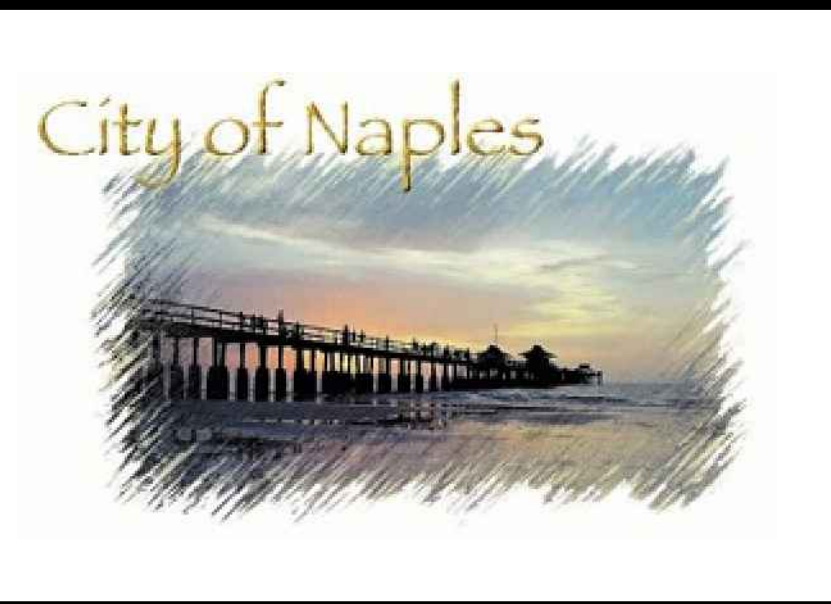
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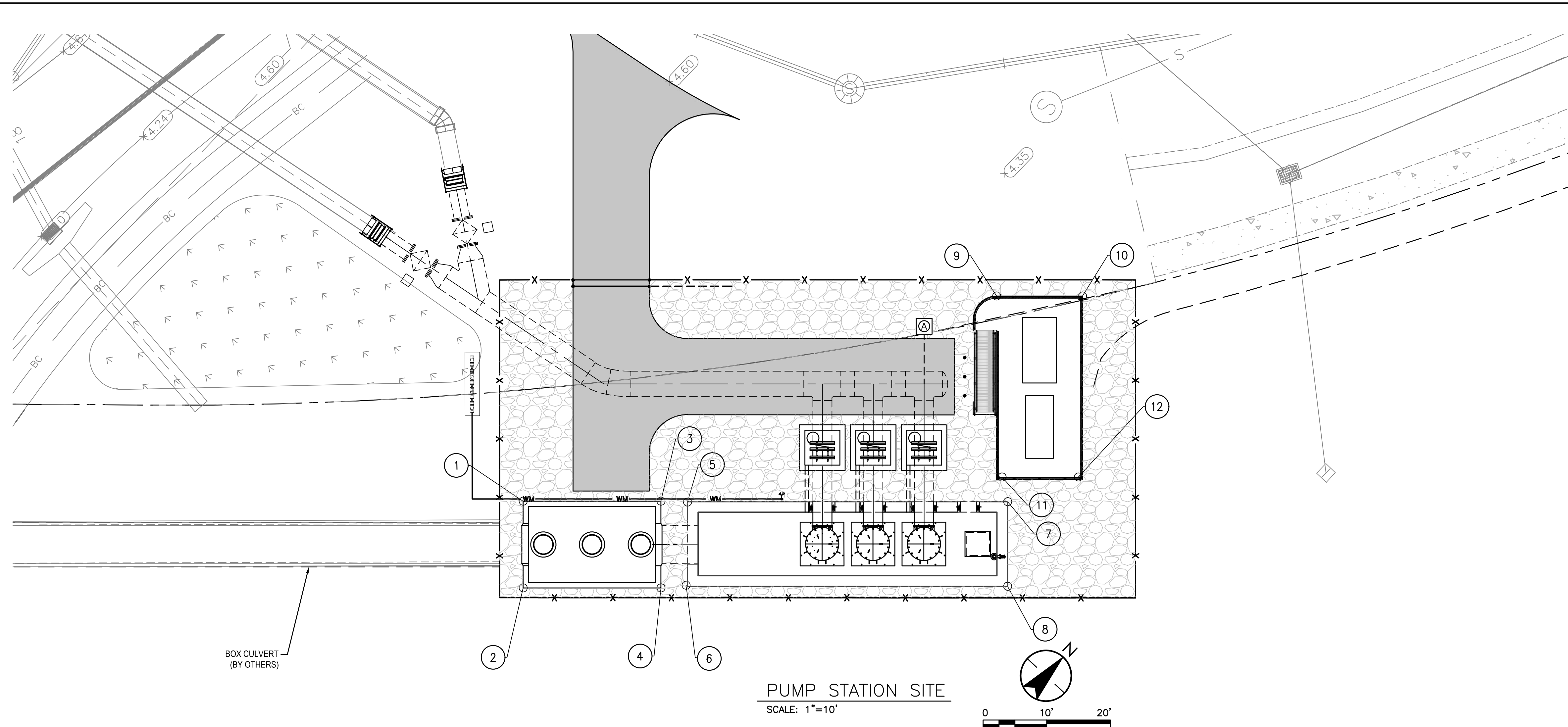
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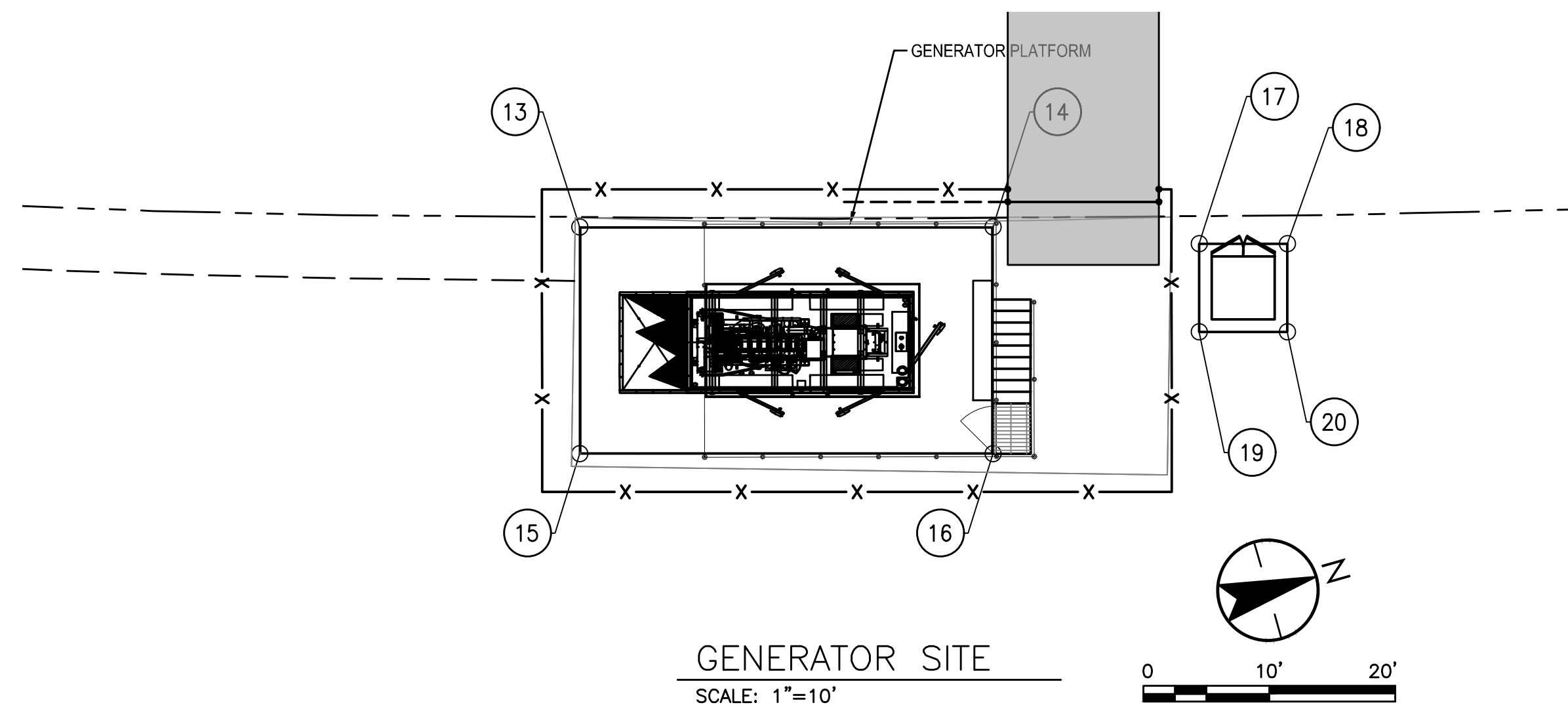
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**PUMP STATION
 EXISTING SITE AND
 DEMOLITION PLAN**

Project No. 177310606	Scale AS NOTED
Revision	Sheet X of X
	Drawing No. C-100



PUMP STATION SITE
SCALE: 1"=10'



GENERATOR SITE
SCALE: 1"=10'

COORDINATES AND ELEVATIONS				
NO.	DESC	NORTHING	EASTING	ELEV
1	SCREENING STRUCTURE	664147.25	391069.26	TOS = 5.4
2	SCREENING STRUCTURE	664137.34	391078.68	TOS = 5.4
3	PUMP STATION PAD	664162.17	391084.97	TOS = X.X
4	SCREENING STRUCTURE	664152.26	391094.38	TOS = 5.4
5	PUMP STATION PAD	664164.94	391088.11	TOS = X.X
6	PUMP STATION PAD	664155.30	391096.97	TOS = X.X
7	PUMP STATION PAD	664199.67	391124.54	TOS = X.X
8	PUMP STATION PAD	664190.00	391133.73	TOS = X.X
9	ELEVATED CONTROL PANEL PAD	664221.92	391101.03	TOS = X.X
10	ELEVATED CONTROL PANEL PAD	664231.22	391110.82	TOS = X.X
11	ELEVATED CONTROL PANEL PAD	664201.88	391121.24	TOS = X.X
12	ELEVATED CONTROL PANEL PAD	664210.14	391129.94	TOS = X.X
13	GENERATOR PLATFORM	664303.19	391557.32	
14	GENERATOR PLATFORM	664334.76	391566.29	
15	GENERATOR PLATFORM	664298.27	391574.63	XX.XX
16	GENERATOR PLATFORM	664329.84	391583.60	XX.XX
17	TRANSFORMER PAD	664336.56	391578.23	
18	TRANSFORMER PAD	664343.29	391580.14	
19	TRANSFORMER PAD	664334.64	391584.96	
20	TRANSFORMER PAD	664341.38	391586.88	

NOTES:
1. ALL ELEVATIONS ARE BASED UPON MEAN SEA LEVEL, NAVD 88. HORIZONTAL DATA IS EXPRESSED IN, NORTH AMERICAN DATUM 1983.

LEGEND:	
×	EXIST SURVEY POINTS
⊗	EXIST LIDAR POINTS
⊙	PROPOSED LOCATION

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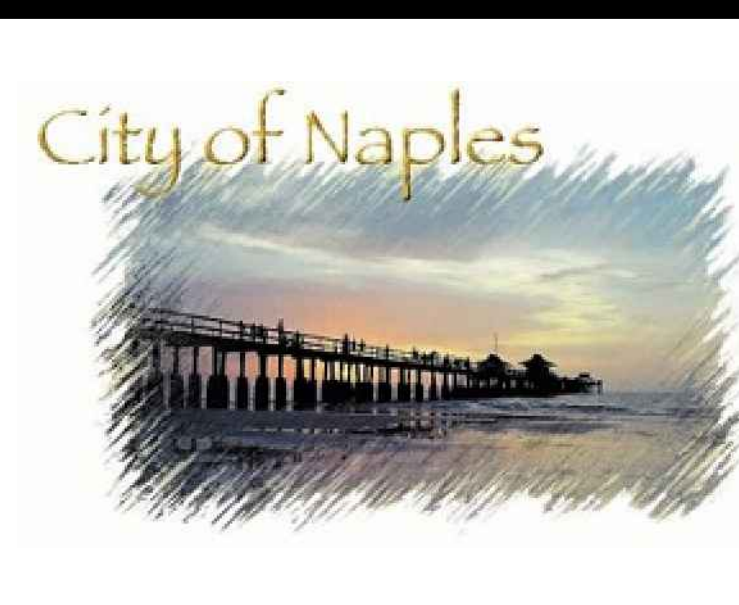
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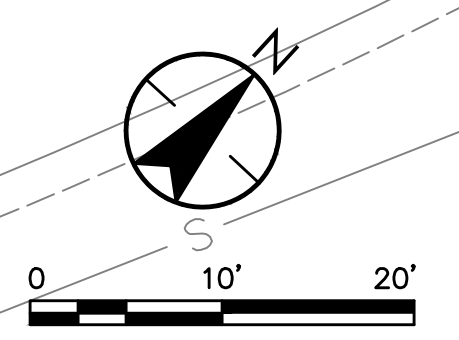
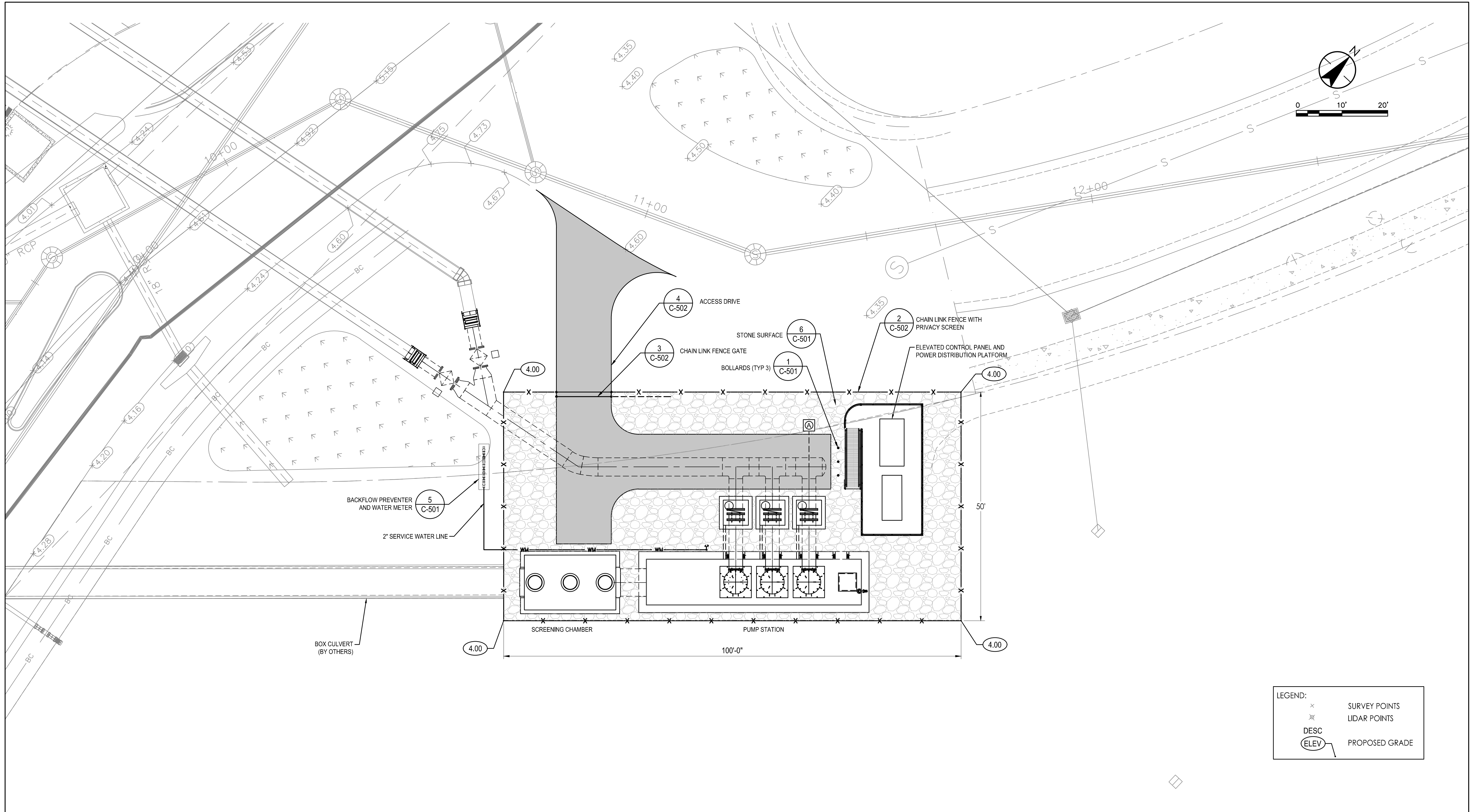
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Title

**PUMP STATION AND GENERATOR
GEOREFERENCE AND PIPING
CONNECTION SITE PLAN**

Project No. 177310606	Scale AS NOTED
Revision	Sheet X of X
Drawing No. C-101	



LEGEND:	
x	SURVEY POINTS
x	LIDAR POINTS
DESC	
(ELEV)	PROPOSED GRADE

\\v02726\p01501\shared_projects\177310606\Drawings\102-Norms\System\active\civil\sheet\10606-2C-102.dwg
 2022/07/27 8:43 AM By: c.lerner

Revision	By	Appd.	YY.MM.DD	ISSUED 60% DRAFT DRAWINGS	SAH	RC	21.07.30

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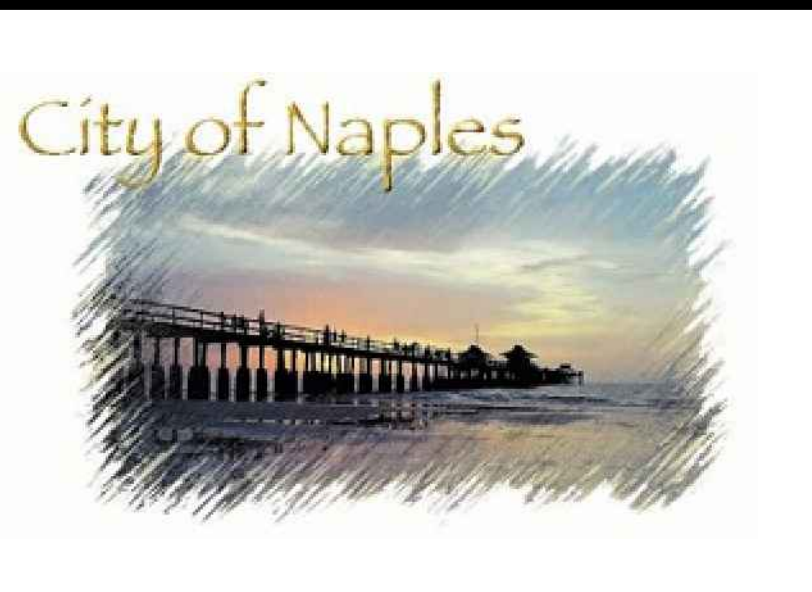
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Title

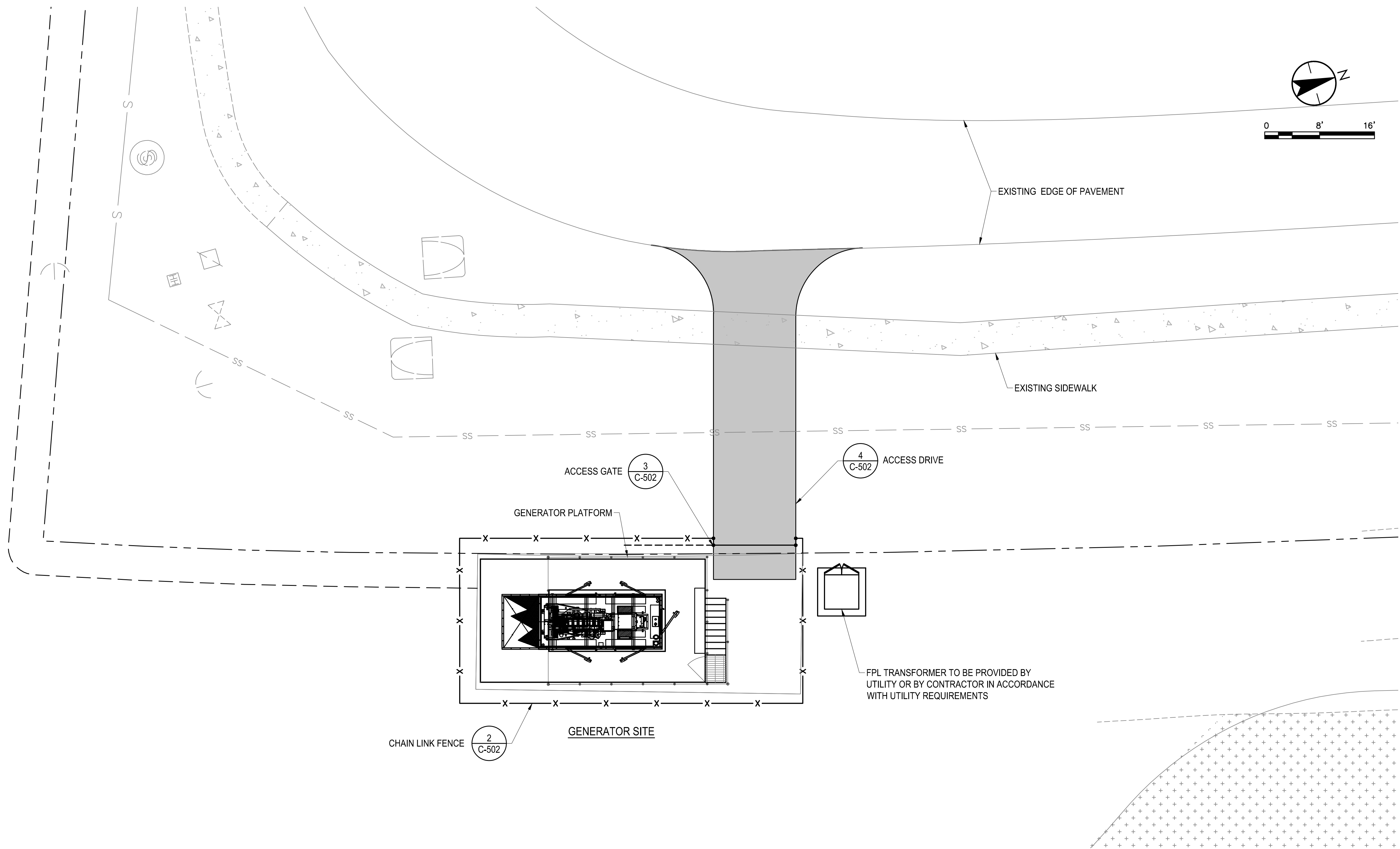
PUMP STATION PROPOSED SITE AND GRADING PLAN

Project No. 177310606

Scale AS NOTED

Revision Sheet Drawing No.

X of X **C-102**



X:\0226\6\6510\1\shared_projects\1773\0606\drawings\02-Norms\System\active\civil\sheet\10606-2C-103.dwg
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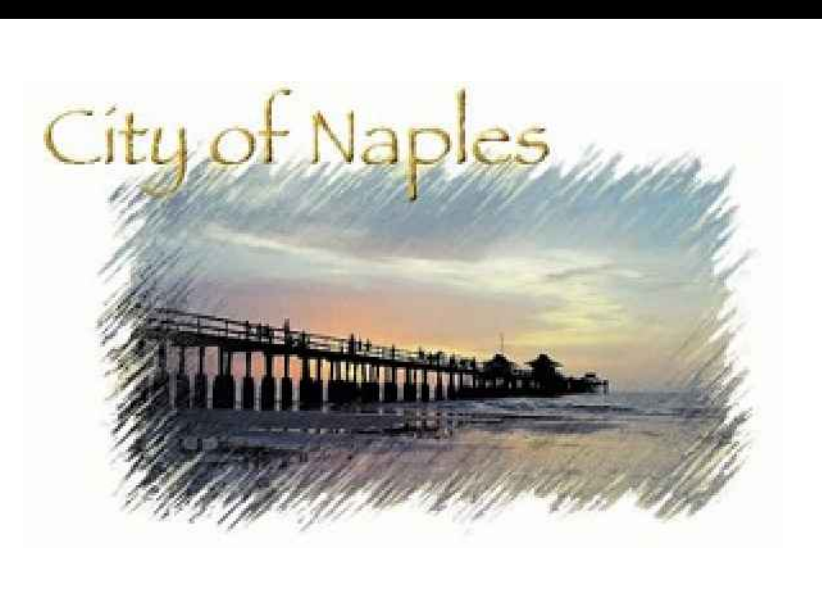
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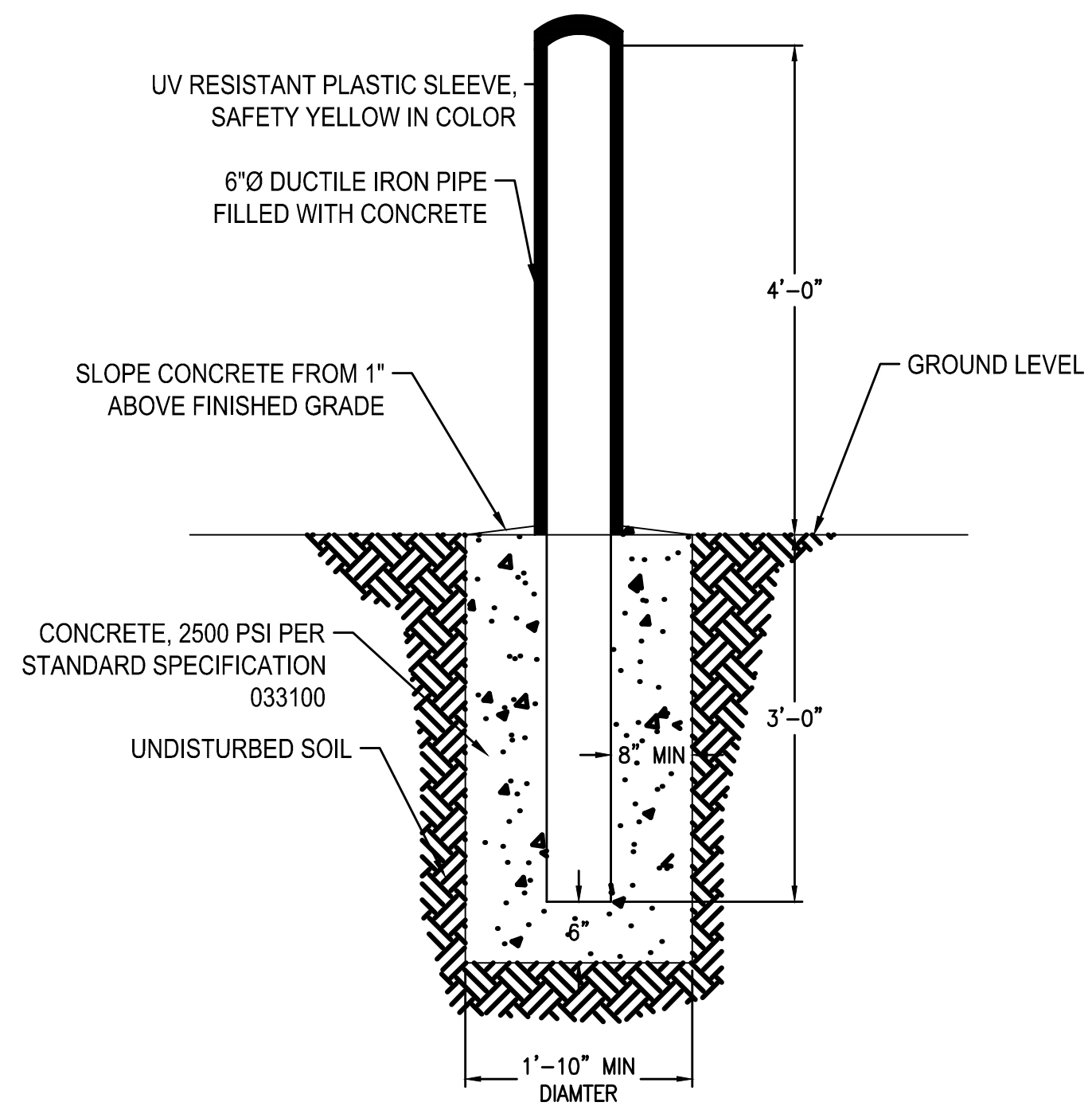
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Improvement Project

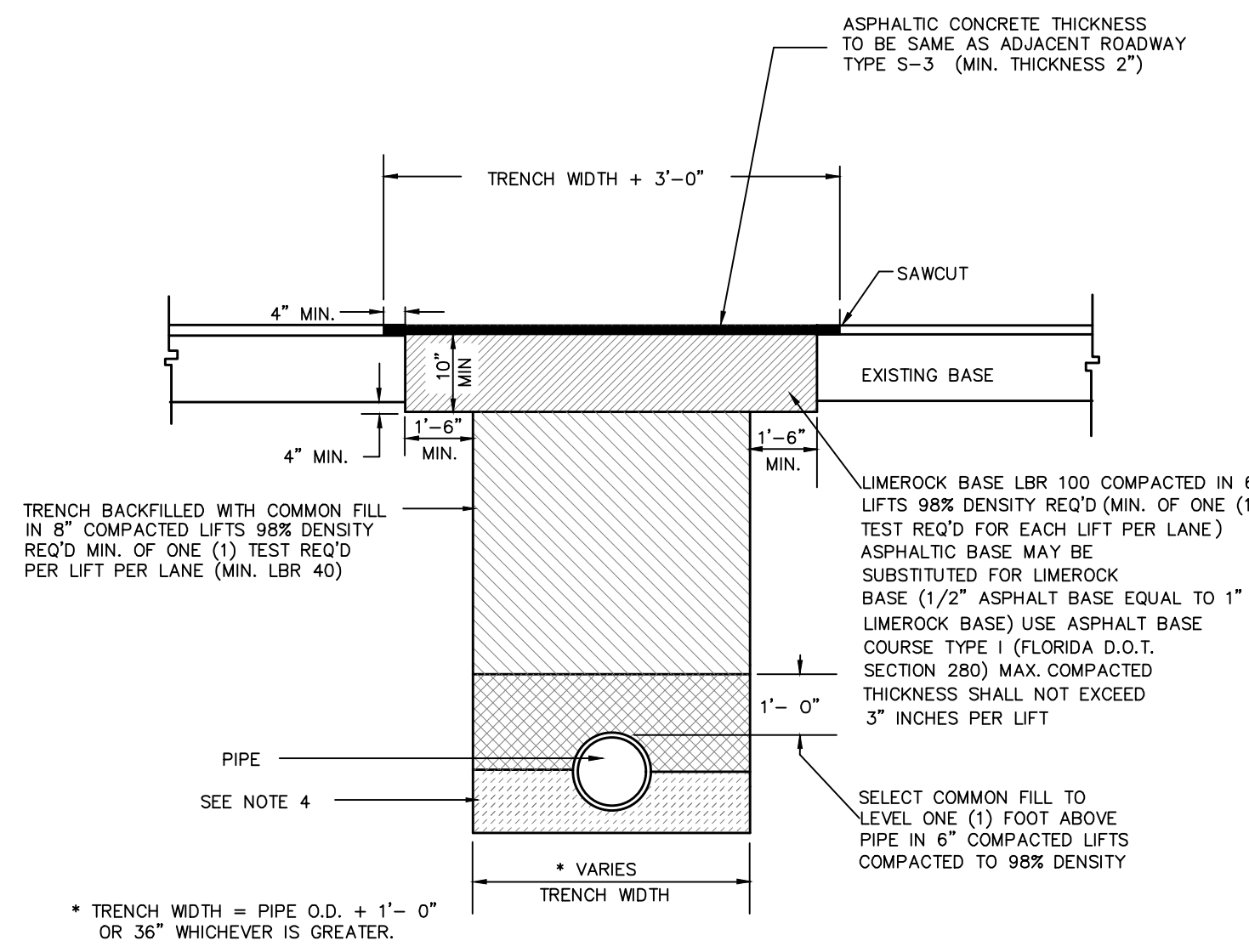
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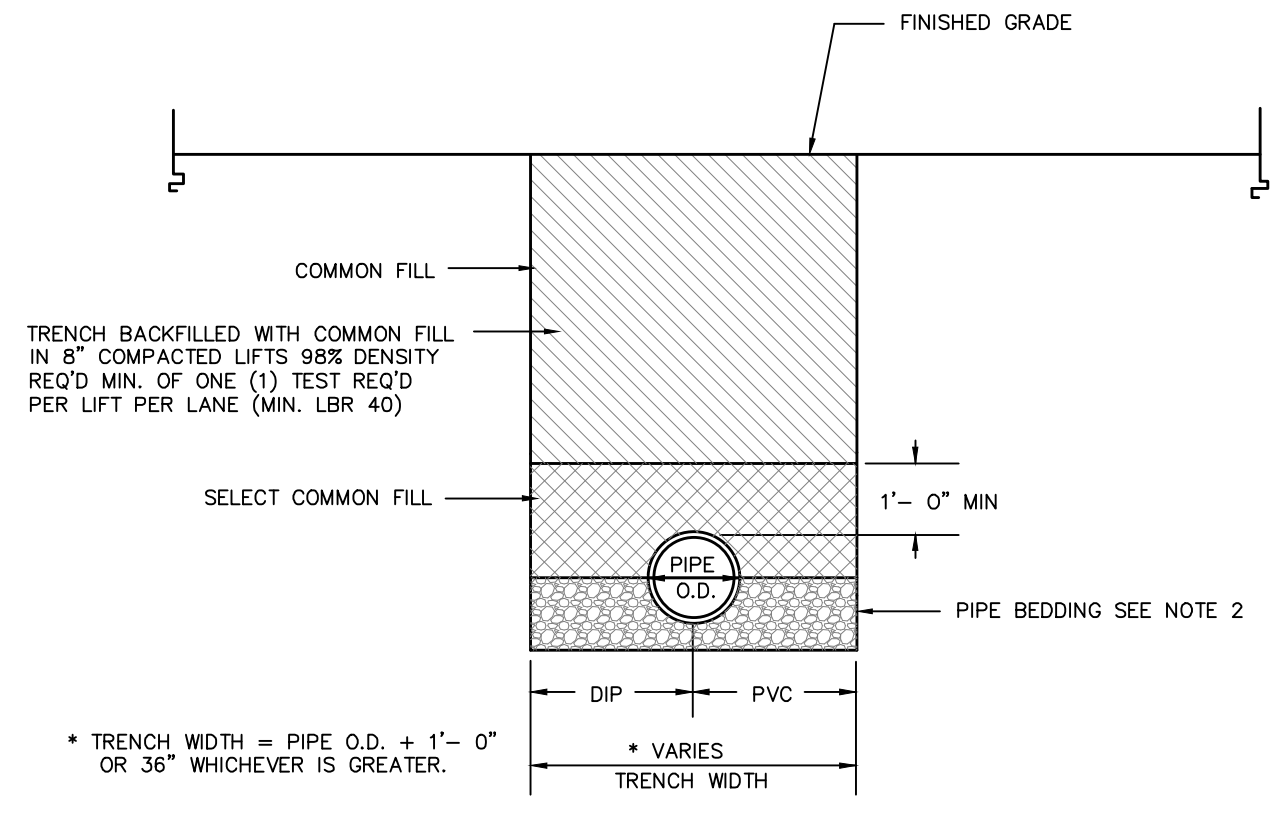
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GENERATOR SITE PLAN		
Project No.	Scale	
177310606	AS NOTED	
Revision	Sheet	Drawing No.
	X of X	C-103



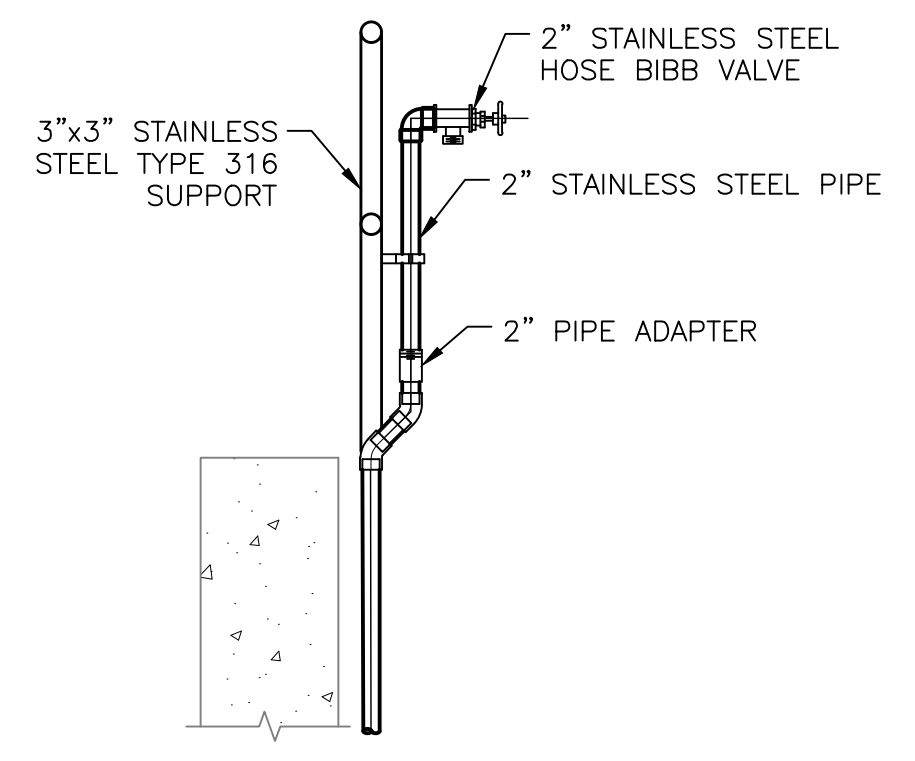
1 BOLLARD
C-501 SCALE: NTS



2 BACKFILL - PAVED ROADWAYS U-02
C-501 SCALE: NTS

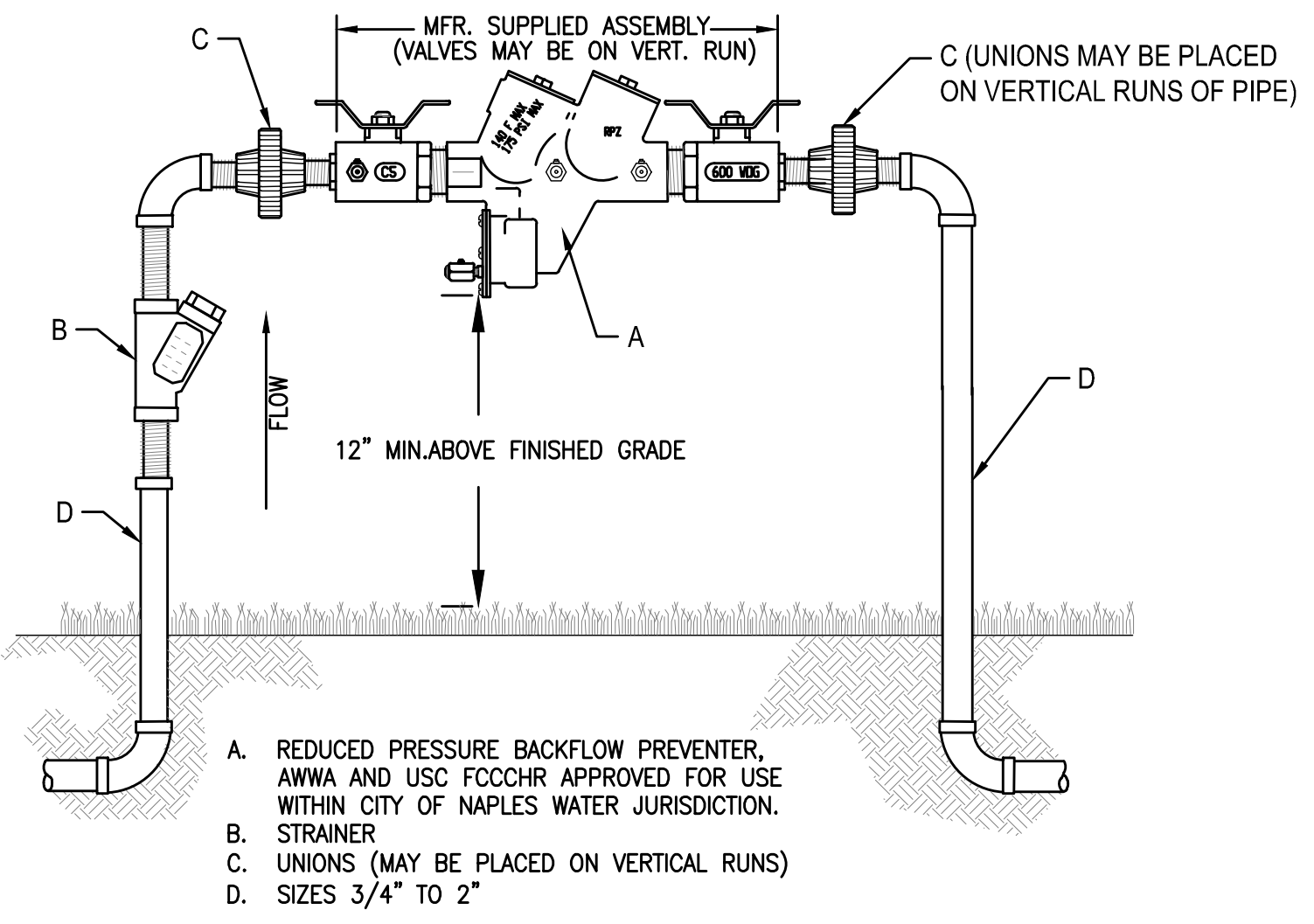


3 PIPE BEDDING AND BACKFILL U-03
C-501 SCALE: NTS



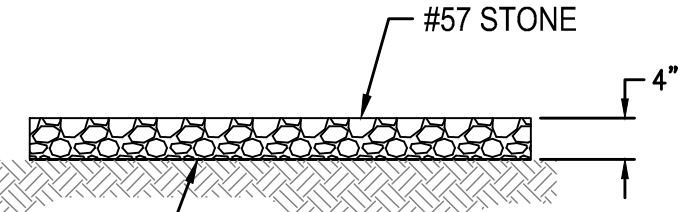
1. ALL HOSE VALVES TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES) EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE VALVES ONLY
2. ALL SUPPORTS AND ANCHORS SHALL BE STAINLESS STEEL.

4 HOSE BIBB
C-501 SCALE: NTS



- NOTES:
1. TO BE INSTALLED A MINIMUM OF 12" (INCHES) TO A MAXIMUM OF 30" (INCHES) OVER FINAL FINISHED GRADE, AS MEASURED TO THE LOWEST POINT OF THE RP ASSEMBLY, AND NO CLOSER THAN 12" (INCHES) TO ANY FIXED STRUCTURE.
 2. ALL PIPING FOR ASSEMBLY SHALL BE TYPE "K" COPPER OR BRASS.
 3. UNPROTECTED CONNECTIONS ARE PROHIBITED BETWEEN BACKFLOW PREVENTER AND METER.
 4. ADJUSTABLE PIPE STANDS WHERE REQUIRED.
 5. BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (BACKFLOW DIVISION).
 6. ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY BLUE, OR PER CITY ORDINANCE 66-66H.
- ** ASSEMBLY TO BE INSTALLED AS CLOSE AS POSSIBLE TO METER ON CUSTOMER'S PROPERTY.

5 3/4" TO 2" REDUCED PRESSURE BACKFLOW ASSEMBLY W-01
C-501 SCALE: NTS



6 4" OF #57 STONE WITH FILTER FABRIC MIRAFIL UNDERLAYMENT (OR APPROVED EQUAL).

- NOTE:
WHERE THERE IS EXISTING STONE THE DETAIL SHALL BE FOLLOWED TO RESTORE THE SURFACE TO EXISTING CONDITIONS OR AS SHOWN IN THIS DETAIL, WHICHEVER IS MORE STRINGENT AND PROVIDES A BETTER QUALITY PRODUCT.

6 STONE SURFACE DETAIL
C-501 SCALE: NTS

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File Name: 10606_2C-501.dwg

MPL	SAH	SEC	2020.02
Dwn.	Chkd.	Dsgn.	YYYY.MM

Title

PUMP STATION DETAILS

Project No. 177310606

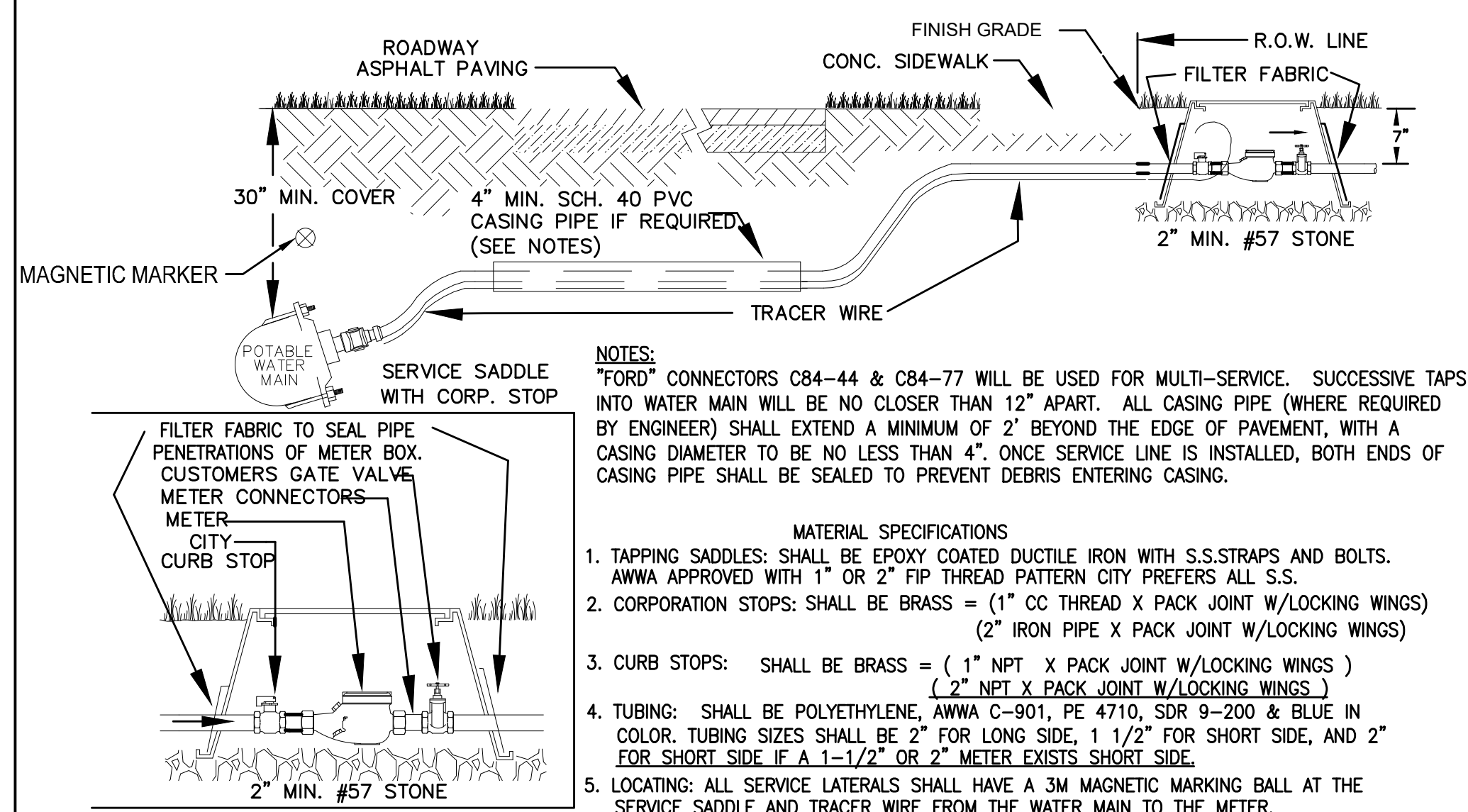
Revision

Scale AS NOTED

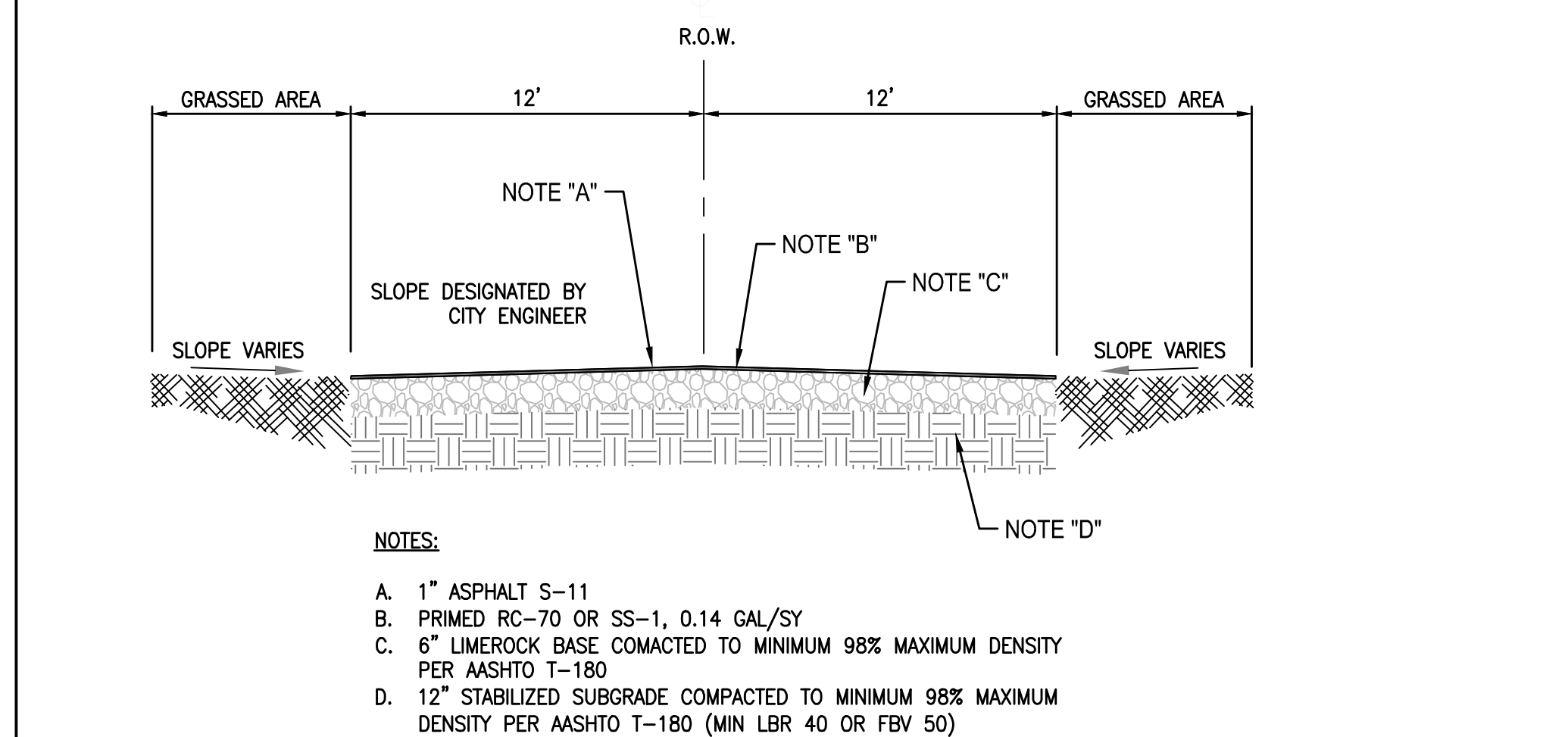
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Drawing No. C-501

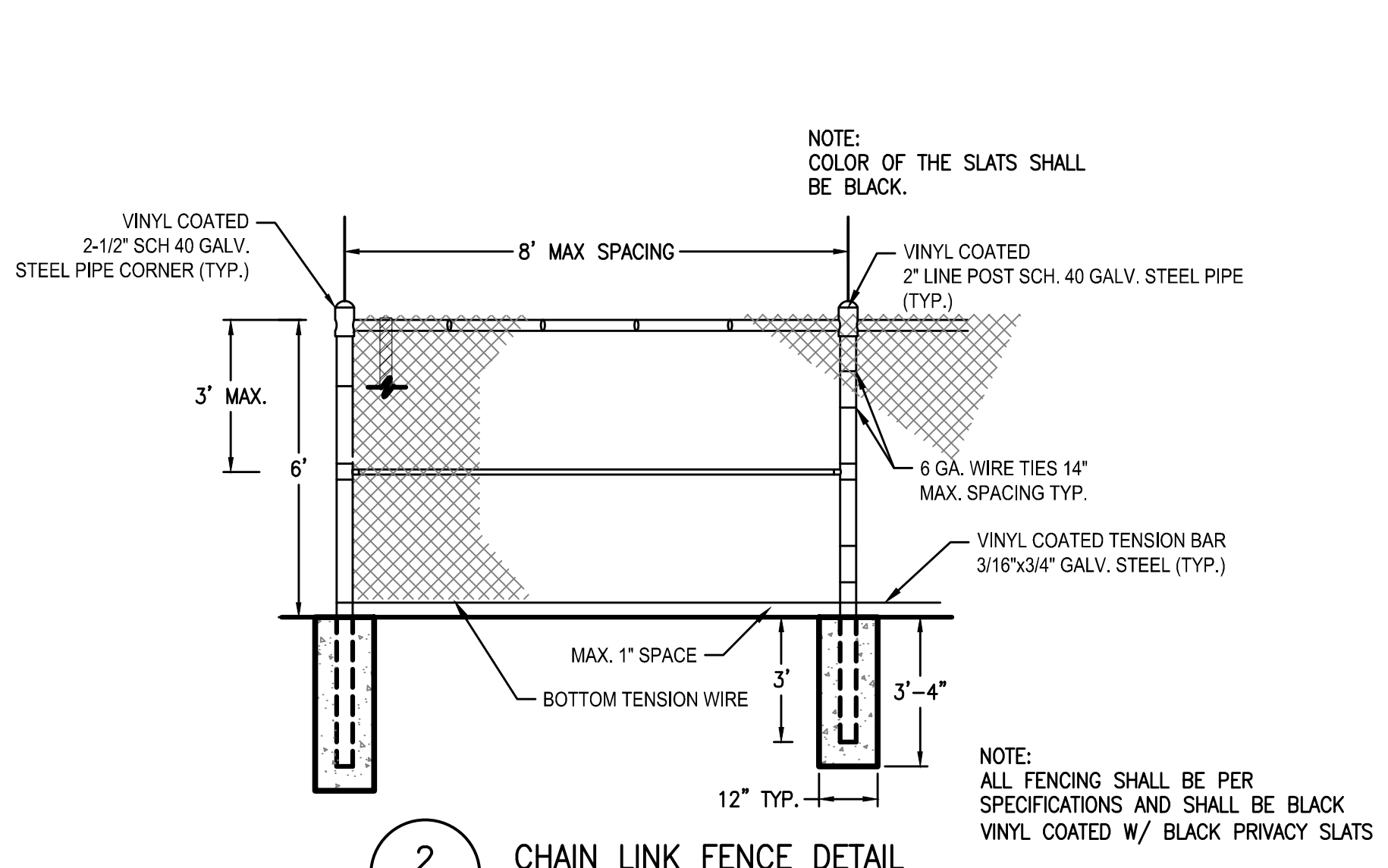
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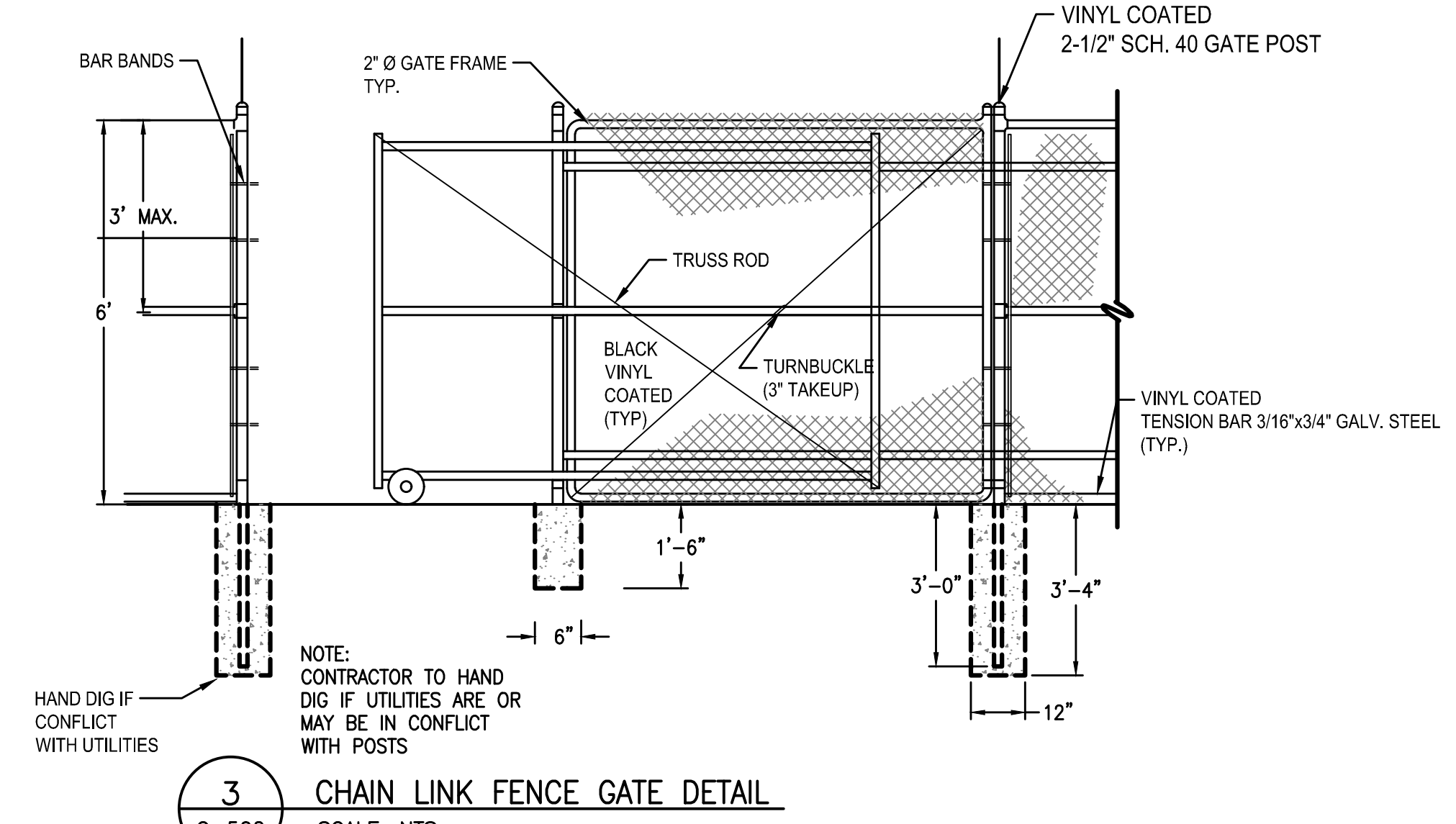
1
TYPICAL SERVICE LINE & METER SETTING DETAIL
SCALE: NTS
C-502



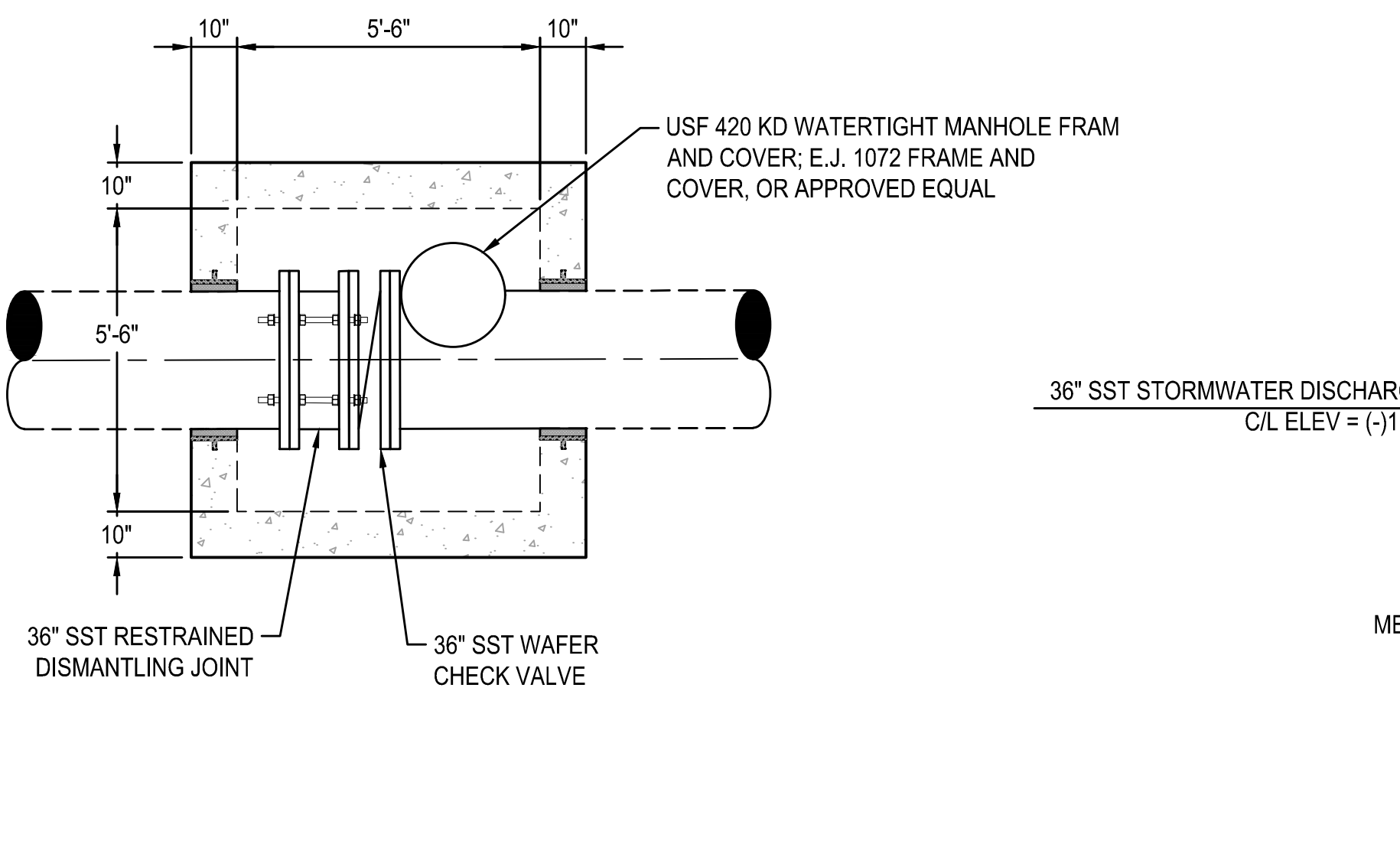
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PAVEMENT DETAIL
SCALE: NTS
C-502



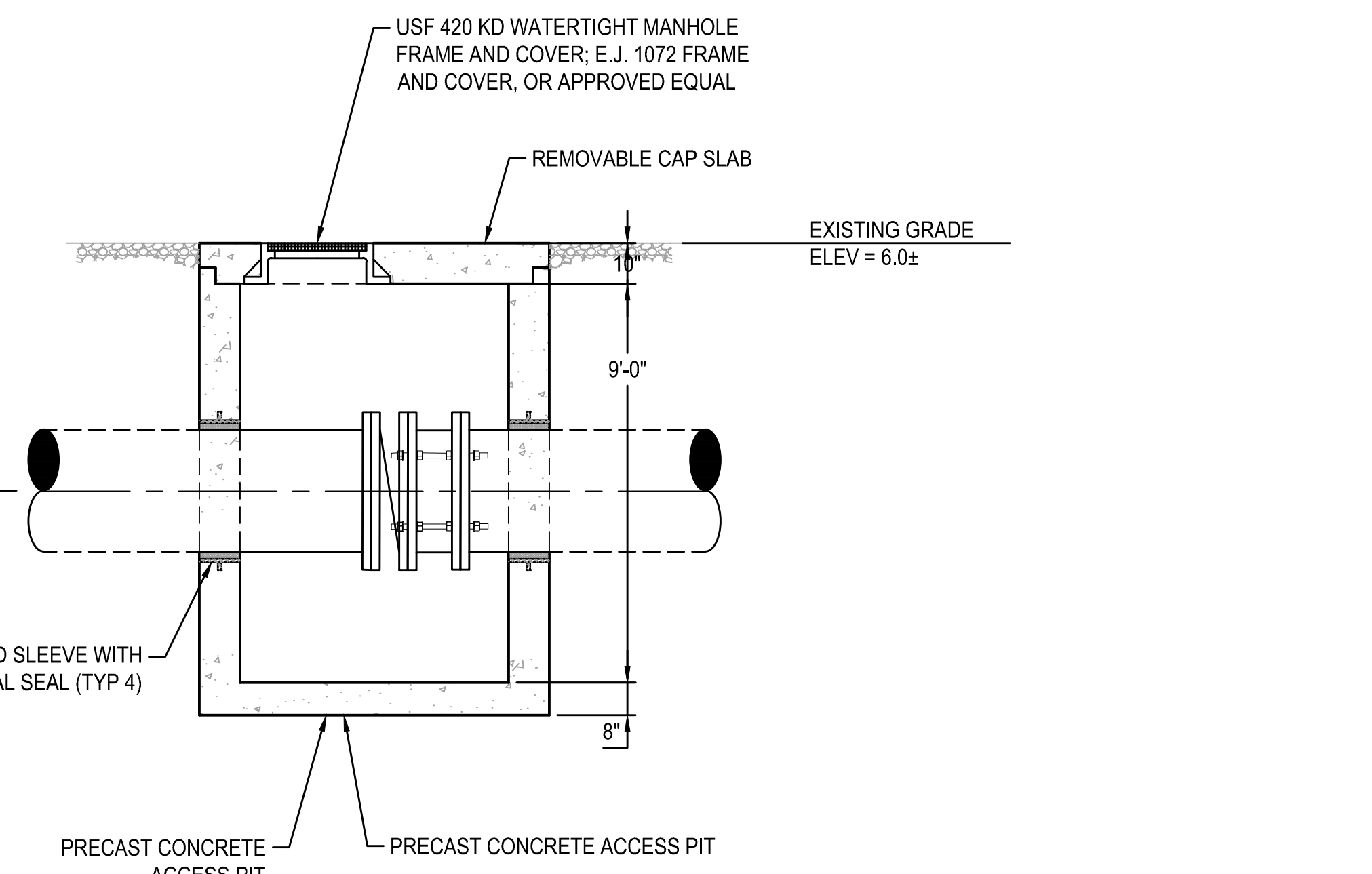
2
CHAIN LINK FENCE DETAIL
SCALE: NTS
C-502



3
CHAIN LINK FENCE GATE DETAIL
SCALE: NTS
C-502



5
36" WAFER CHECK VALVE ACCESS VAULT - PLAN AND SECTION
SCALE: NTS
C-502



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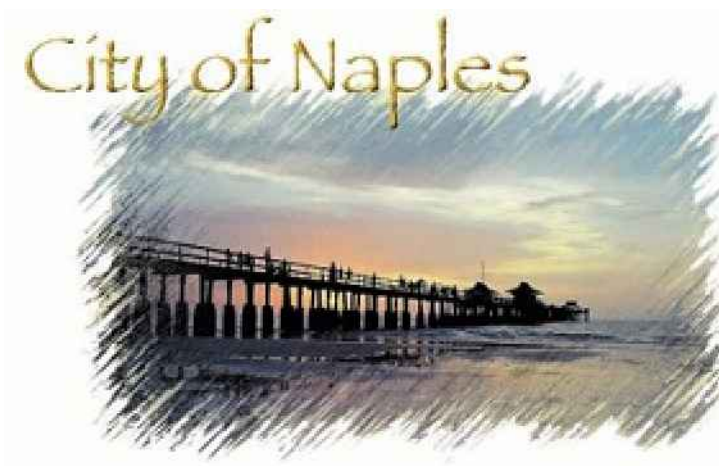
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File Name: 10606_2C-501.dwg

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Title
PUMP STATION DETAILS

Project No.
177310606

Revision

Scale
AS NOTED

Sheet

Drawing No.
C-502

X of X

GENERAL NOTES

GENERAL

- 1. THE SYMBOLS AND ABBREVIATIONS ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE FOR GENERAL USE ON ALL PROJECTS... 2. QUALITY OF CONSTRUCTION REQUIRED, PERFORMANCE LEVELS OF WORKMANSHIP...

SOIL FOUNDATION PREPARATION

A GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY ARDAMAN & ASSOCIATES ON AUGUST 21, 2019 AND BY YPC CONSULTING GROUP ON APRIL 11, 2017...

DUE TO THE DEPTHS OF THE PROPOSED STRUCTURES AT THIS SITE EXCAVATION SUPPORT MEASURES INCLUDING DEWATERING SHALL BE EMPLOYED...

ALSO, THE CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO OBSERVE, INSPECT, AND TEST THE PREPARATION OF THE SUB-BASE AND BASE...

- 1. DEWATERING. 2. STRIP SITE WHILE REMOVING ANY STRATUM 6 SOILS. 3. EXCAVATE TO FOUNDATION BEARING DEPTH...

FOUNDATIONS

- 1. NO CONCRETE SHALL BE PLACED IN WATER OR ON SATURATED GROUND. 2. IN GENERAL, EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN A MINIMUM OF 2'-0" BELOW FINISHED EXTERIOR GRADE...

CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE LATEST EDITION OF THE ACI BUILDING CODE (ACI 318) AND ACI 301...

REINFORCING

- 1. ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING MANUAL, EXCEPT AS OTHERWISE SPECIFIED. 2. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60...

MISCELLANEOUS

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING AND SHALL DISCUSS HIS METHODS WITH THE ENGINEER PRIOR TO THE START OF WORK...

LIST OF ABBREVIATIONS

Table with 7 columns: Symbol, Description, Abbreviation, etc. Includes symbols like &, @, AL, ARCH, B, BM, CL, CJ, CLR, COL, CONC, CONT.

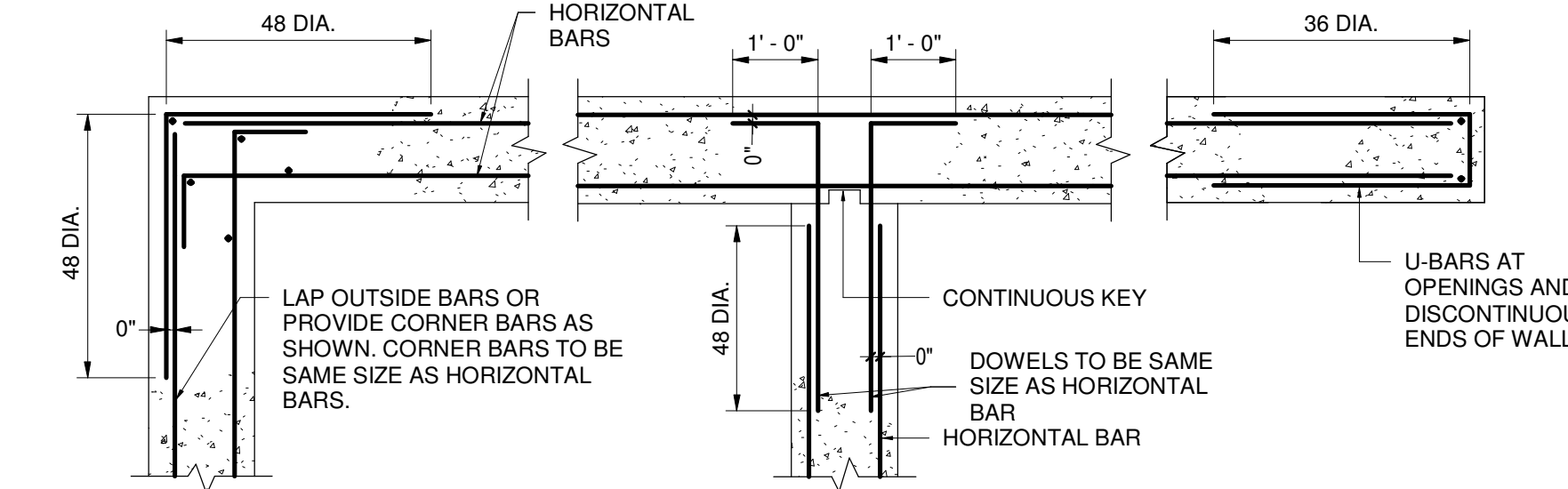
FLOOD DESIGN CRITERIA

- 1. THIS PROJECT IS LOCATED WITHIN FIRM ZONE: AE11 2. LOCAL STILLWATER ELEVATION PER ASCE 7: 3.25 FEET ABOVE GROUND (THIS EQUATES TO EL 9.25)

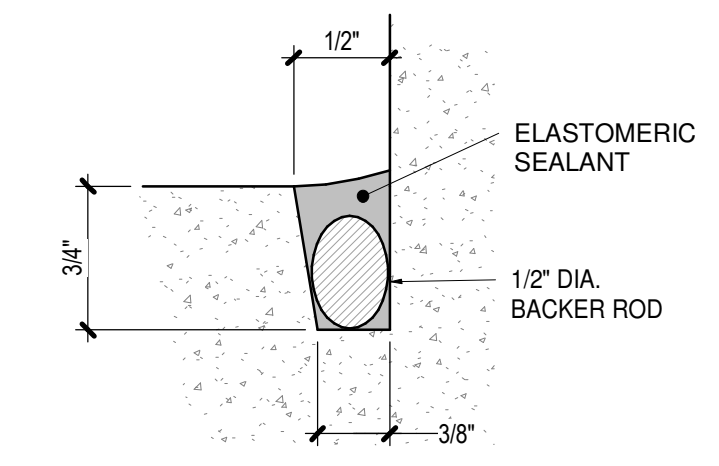
LATERAL EARTH PRESSURE DESIGN DATA

Table with 2 columns: Property, Value. Includes ABOVE GROUNDWATER: 130 PCF, BELOW GROUNDWATER: 70 PCF.

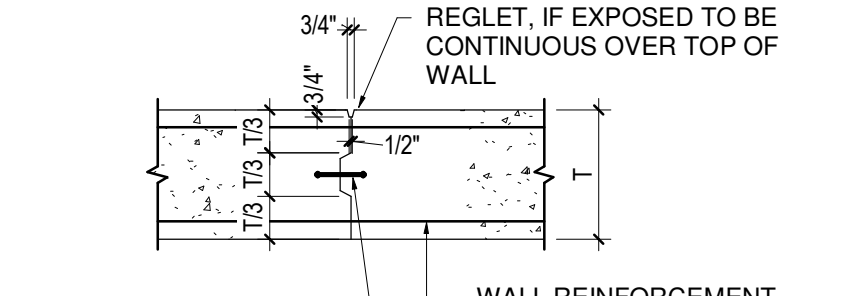
SURCHARGE: 200 PSF



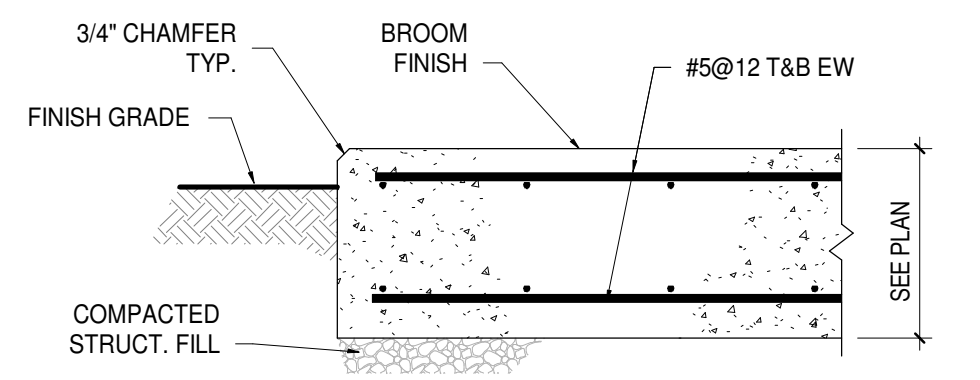
PLAN OF HORIZONTAL REINF. AT CORNERS, INTERSECTIONS, AND ENDS



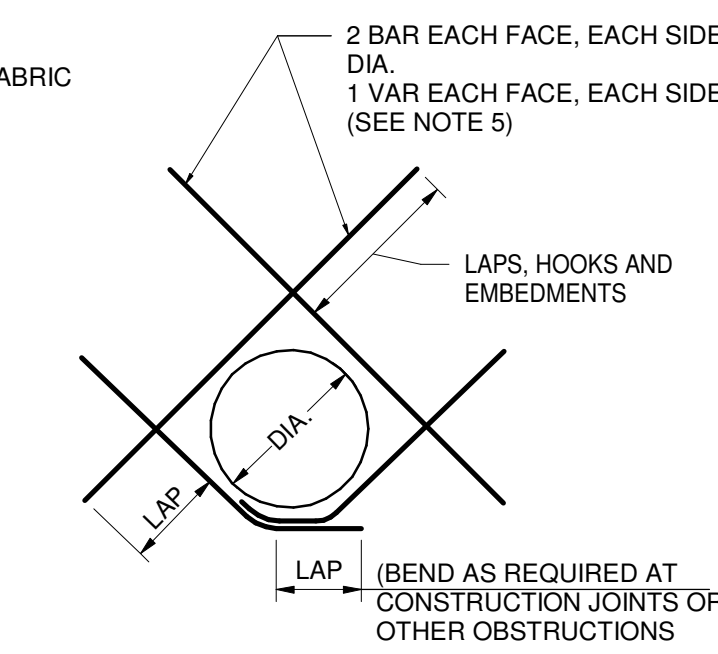
REGLET DETAIL



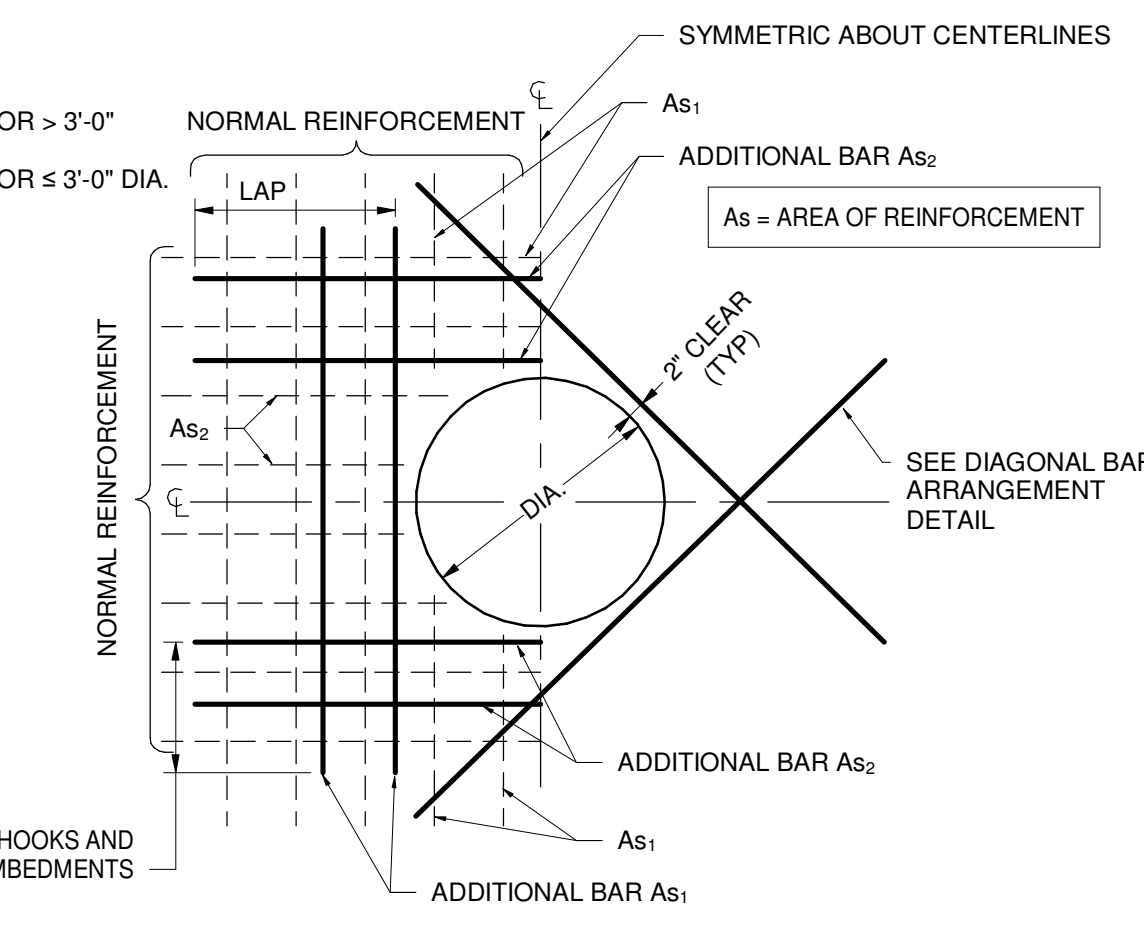
TYP. WALL AND SLAB CONSTRUCTION JOINT



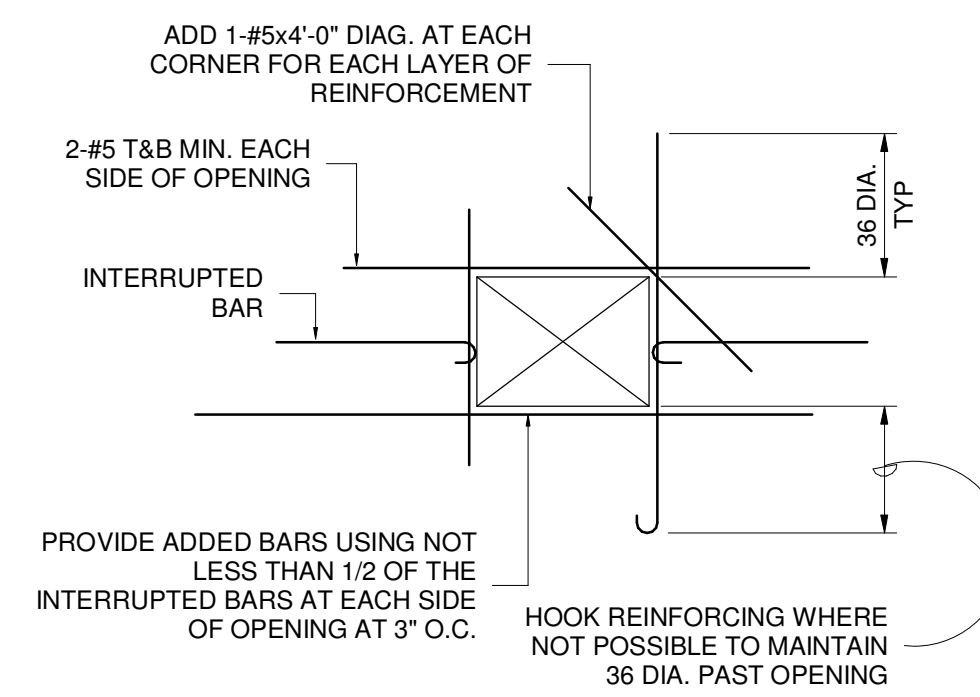
TYP. CONC. PAD ON GROUND



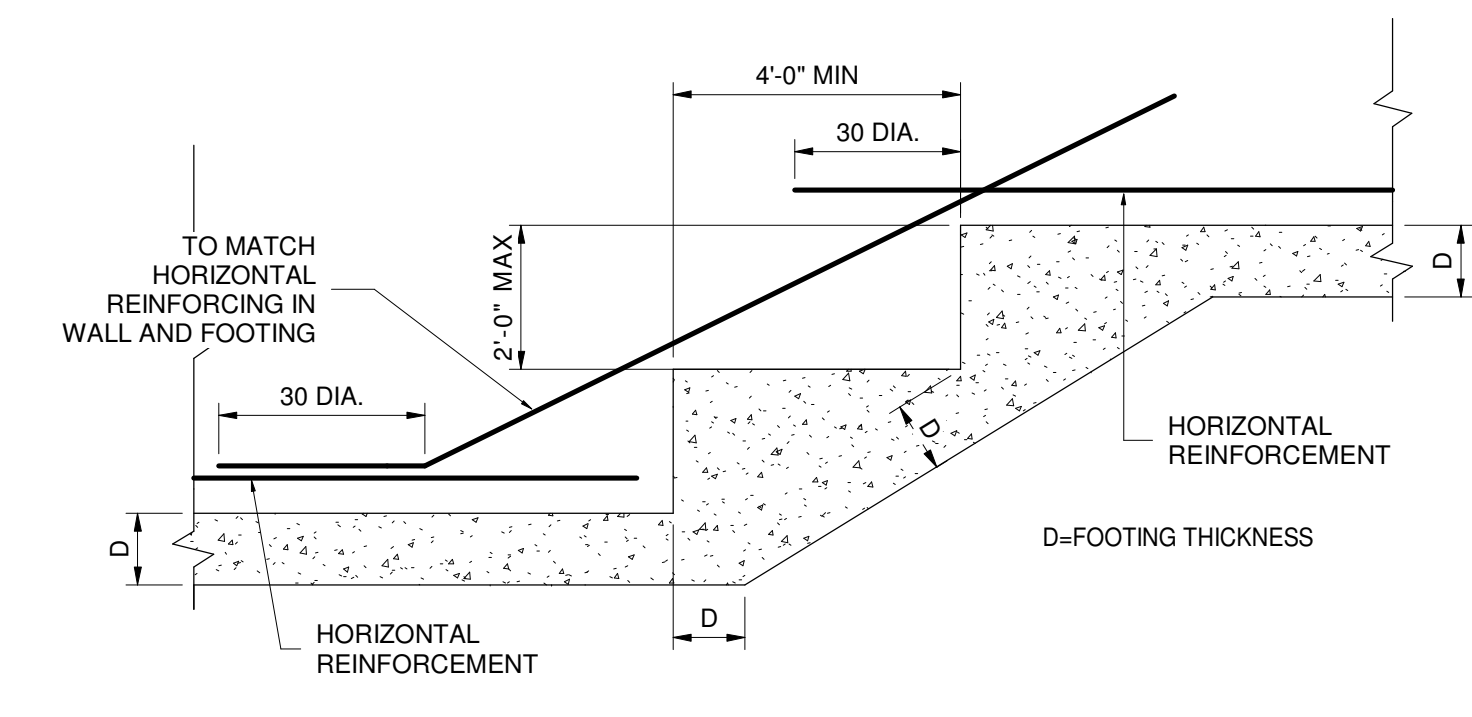
DIAGONAL BAR ARRANGEMENT



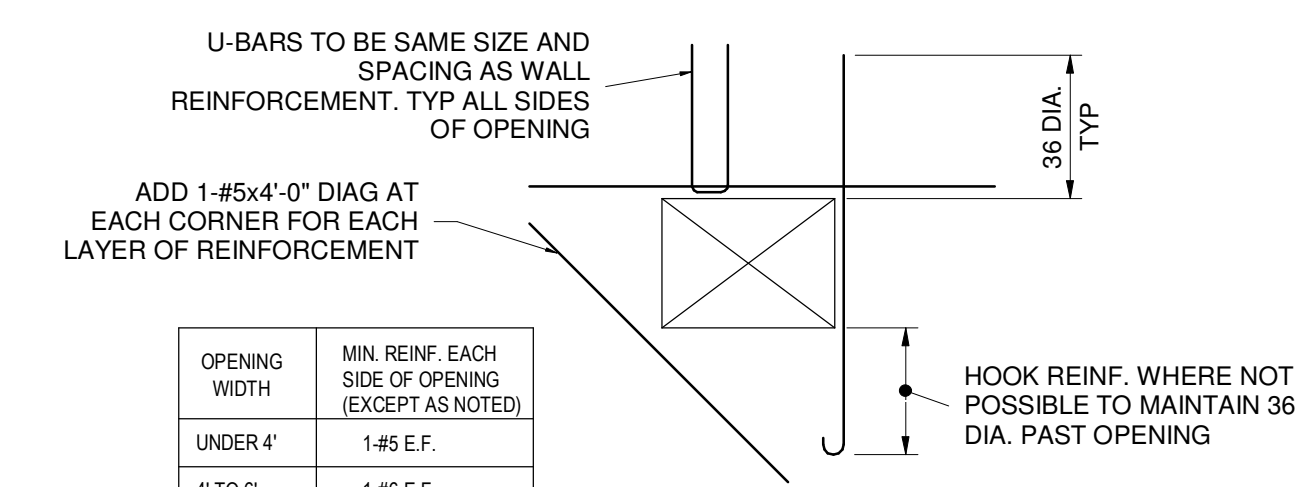
ADDITIONAL REINFORCEMENT AT ROUND OPENINGS



TYP. REINF. AT SLAB OPENINGS



TYP. ELEVATION OF CONT. STEPPED WALL FOOTING



TYP. REINF. AT OPENINGS IN WALLS

Table with 2 columns: Opening Width, Min. Reinf. Each Side of Opening (Except as Noted).

Revision table with columns: No., Description, By, Appd, Date.

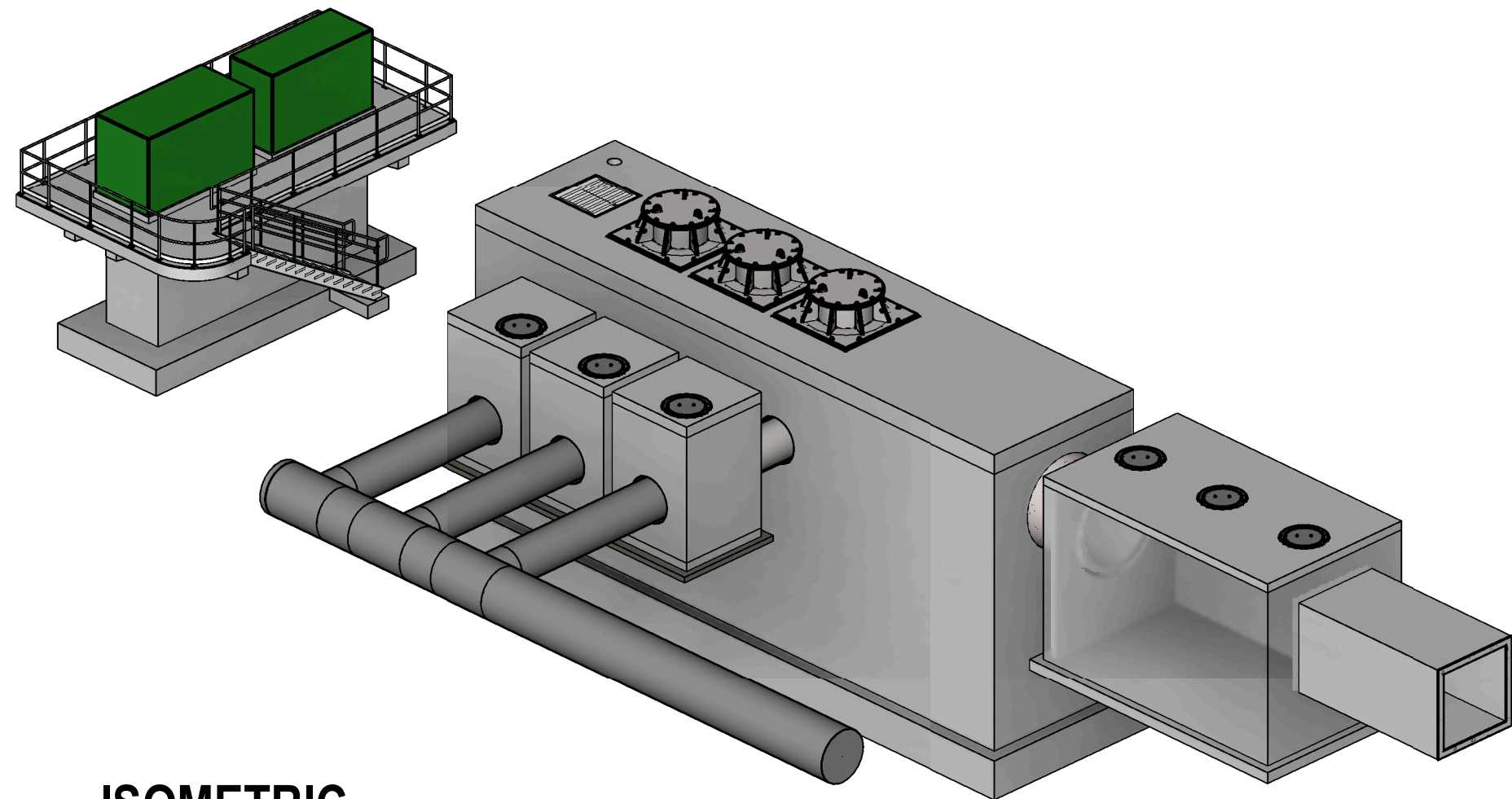
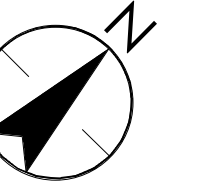
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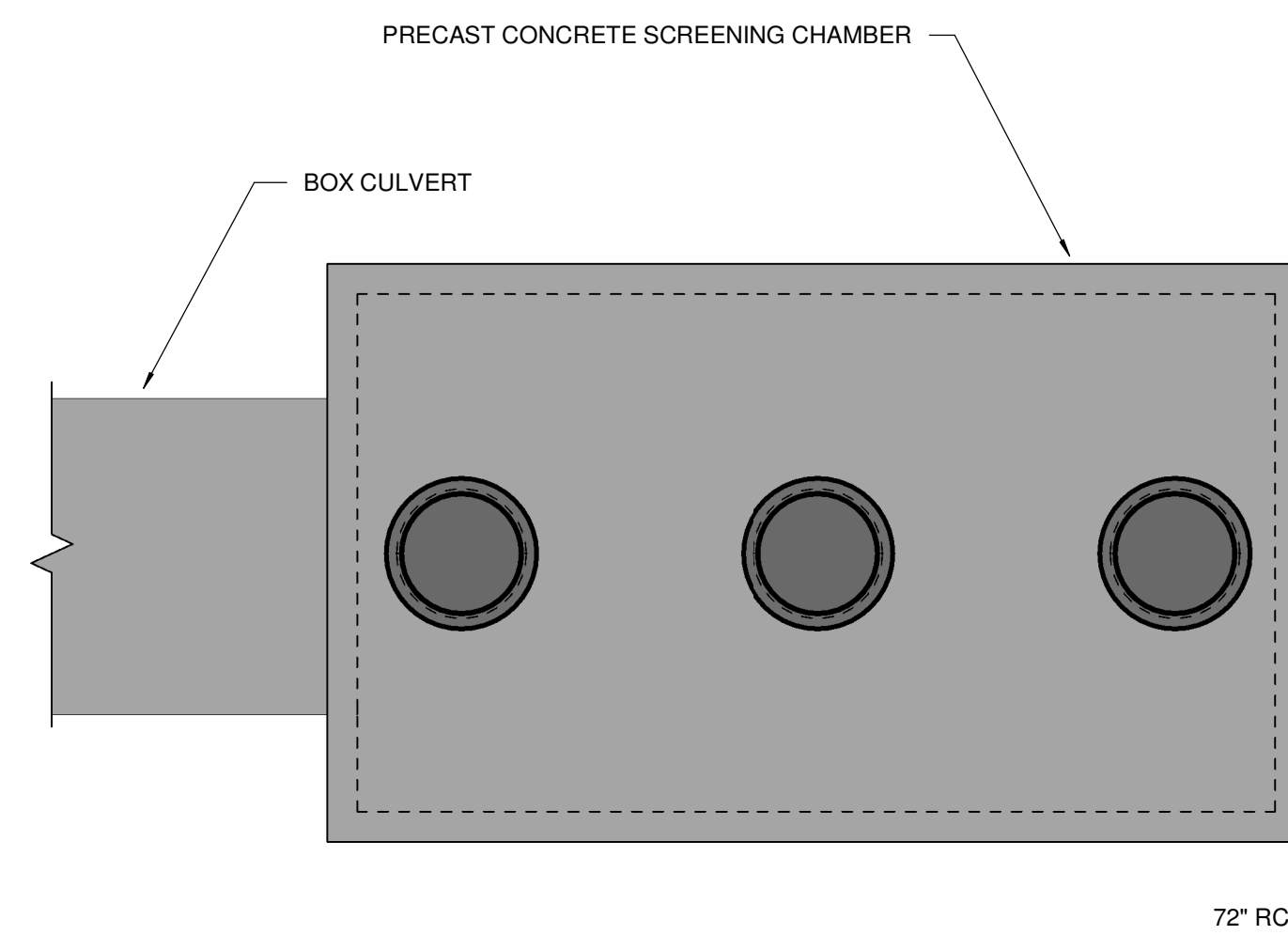
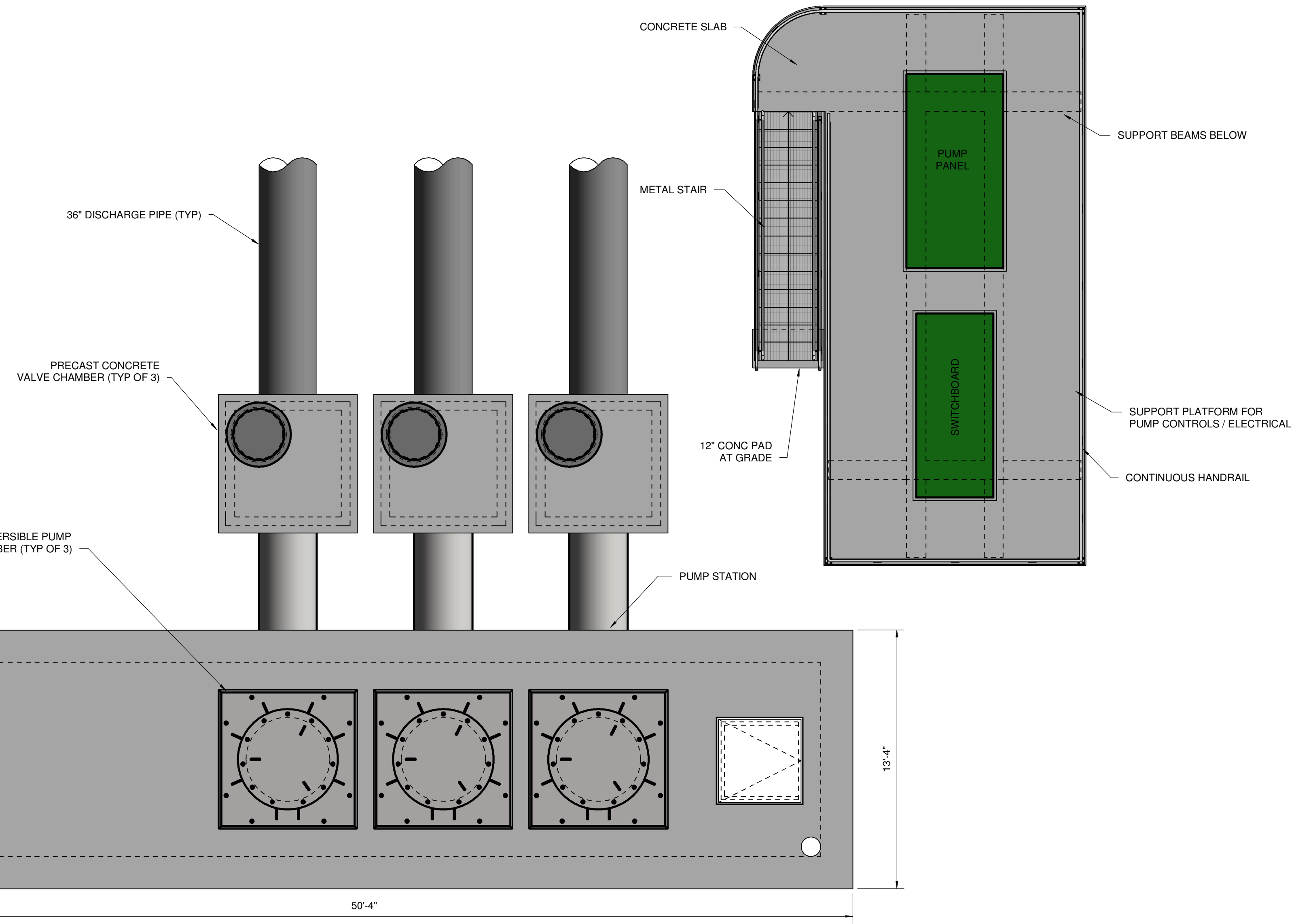
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Title STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS Project No. 177310606 Scale AS SHOWN



ISOMETRIC



PUMP STATION OVERALL PLAN
SCALE: 1/4" = 1'-0"

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Revision	By	Appd	YYYY.MM.DD

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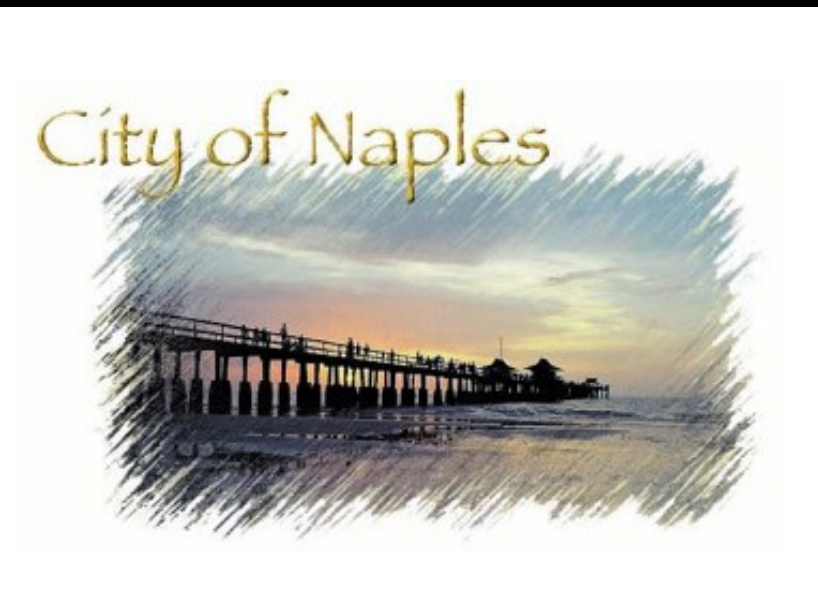
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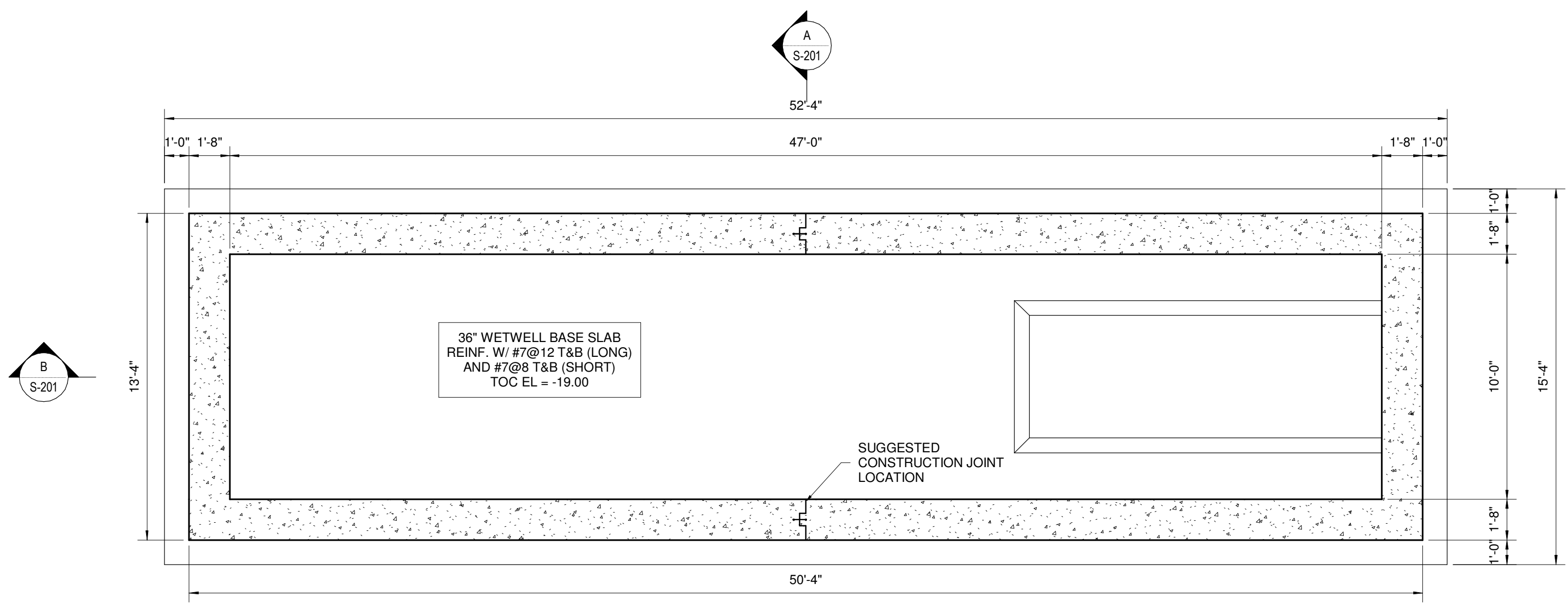
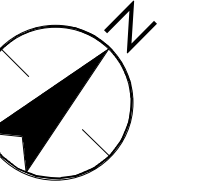
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Dwn.	Chkd.	Dsgn.	YYYY.MM

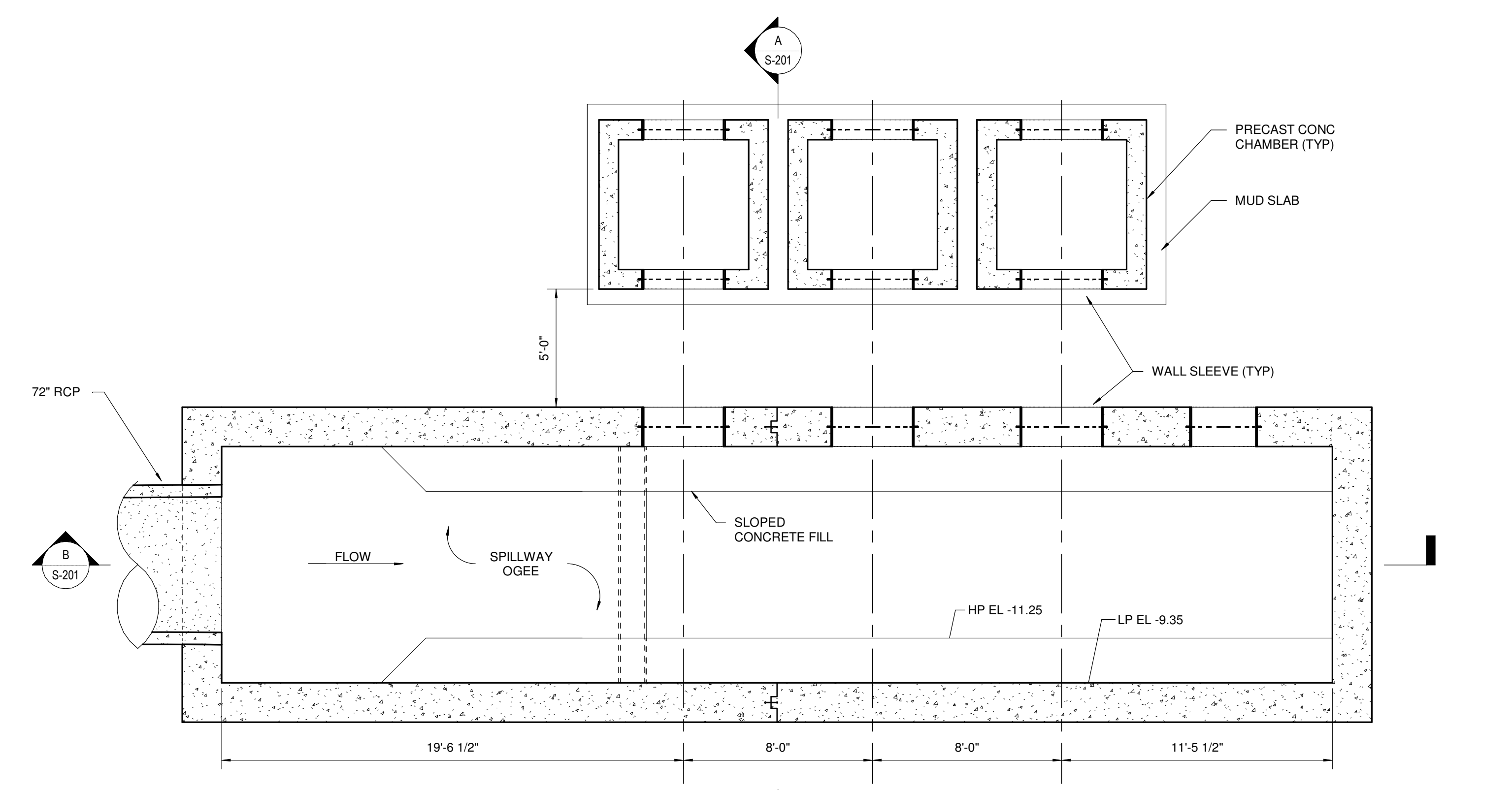


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PUMP STATION OVERALL PLAN		
Project No.	Scale	
177310606	1/4" = 1'-0"	
Revision	Sheet	Drawing No.
	2 of 6	S-101



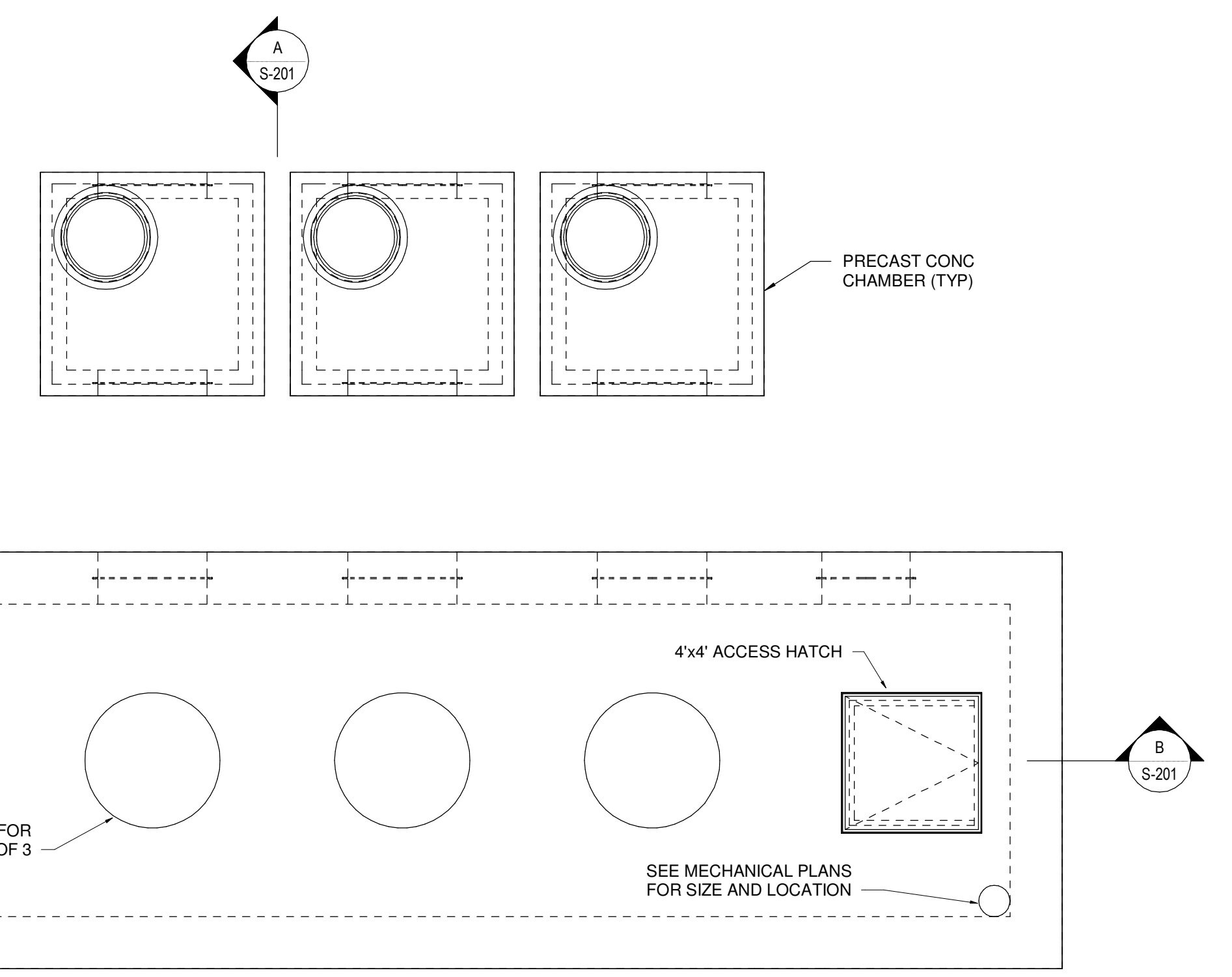
WET WELL FOUNDATION PLAN

1/4" = 1'-0"



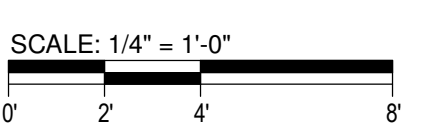
PLAN AT EL. -3.0

1/4" = 1'-0"



PLAN AT GRADE

1/4" = 1'-0"



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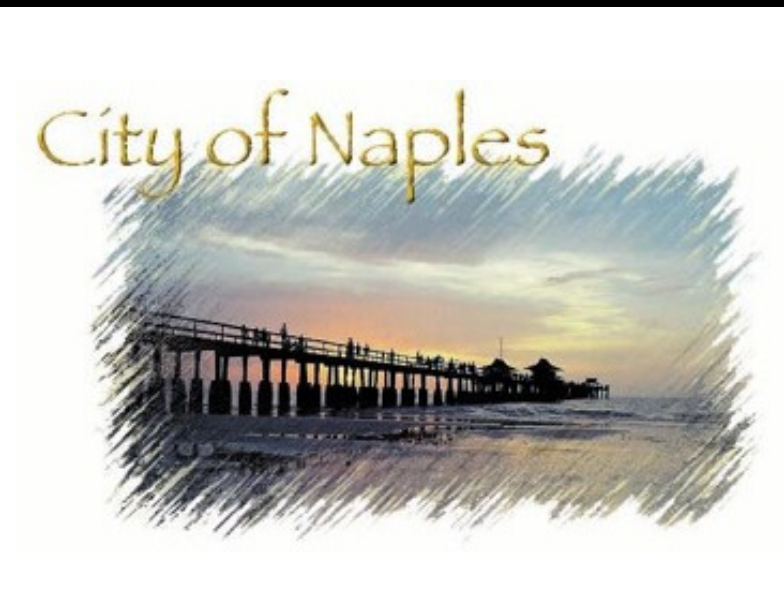
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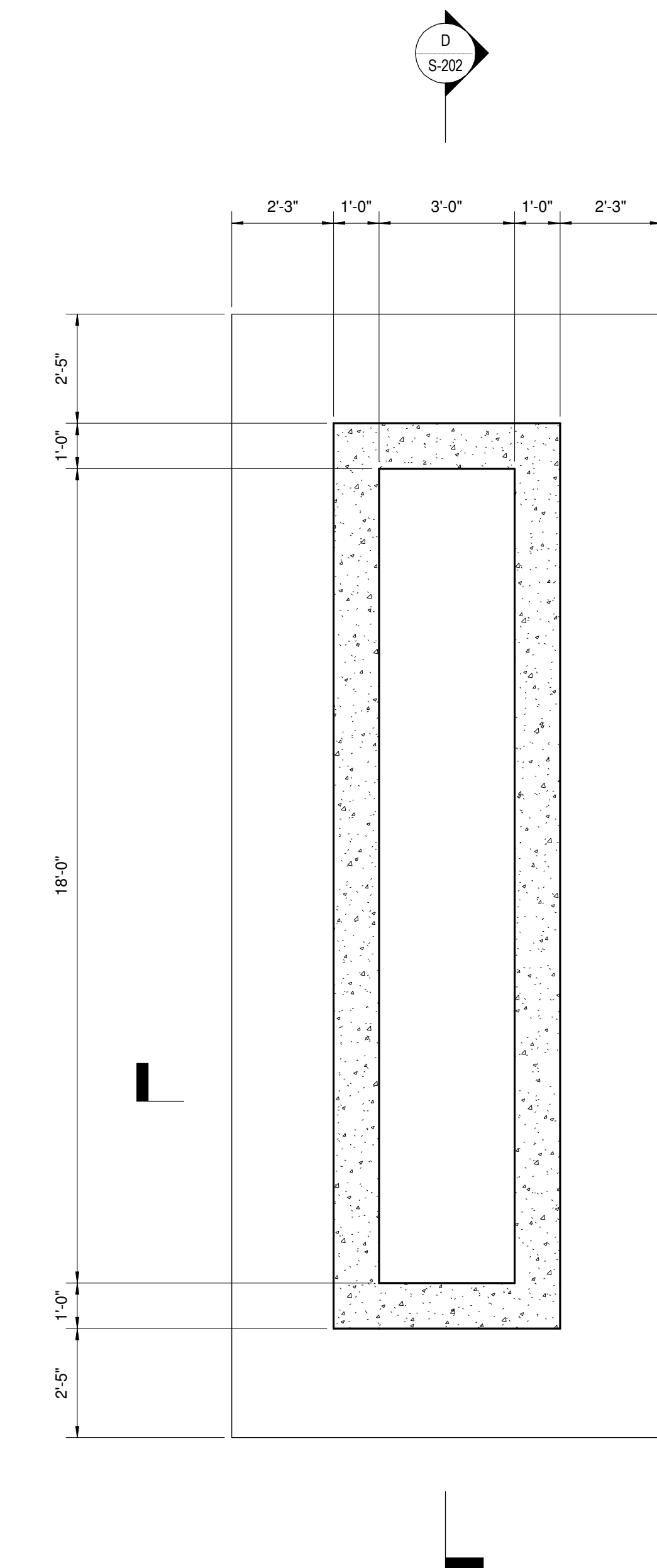
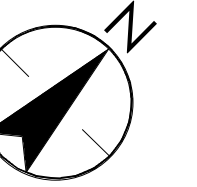
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PUMP STATION PLAN VIEWS

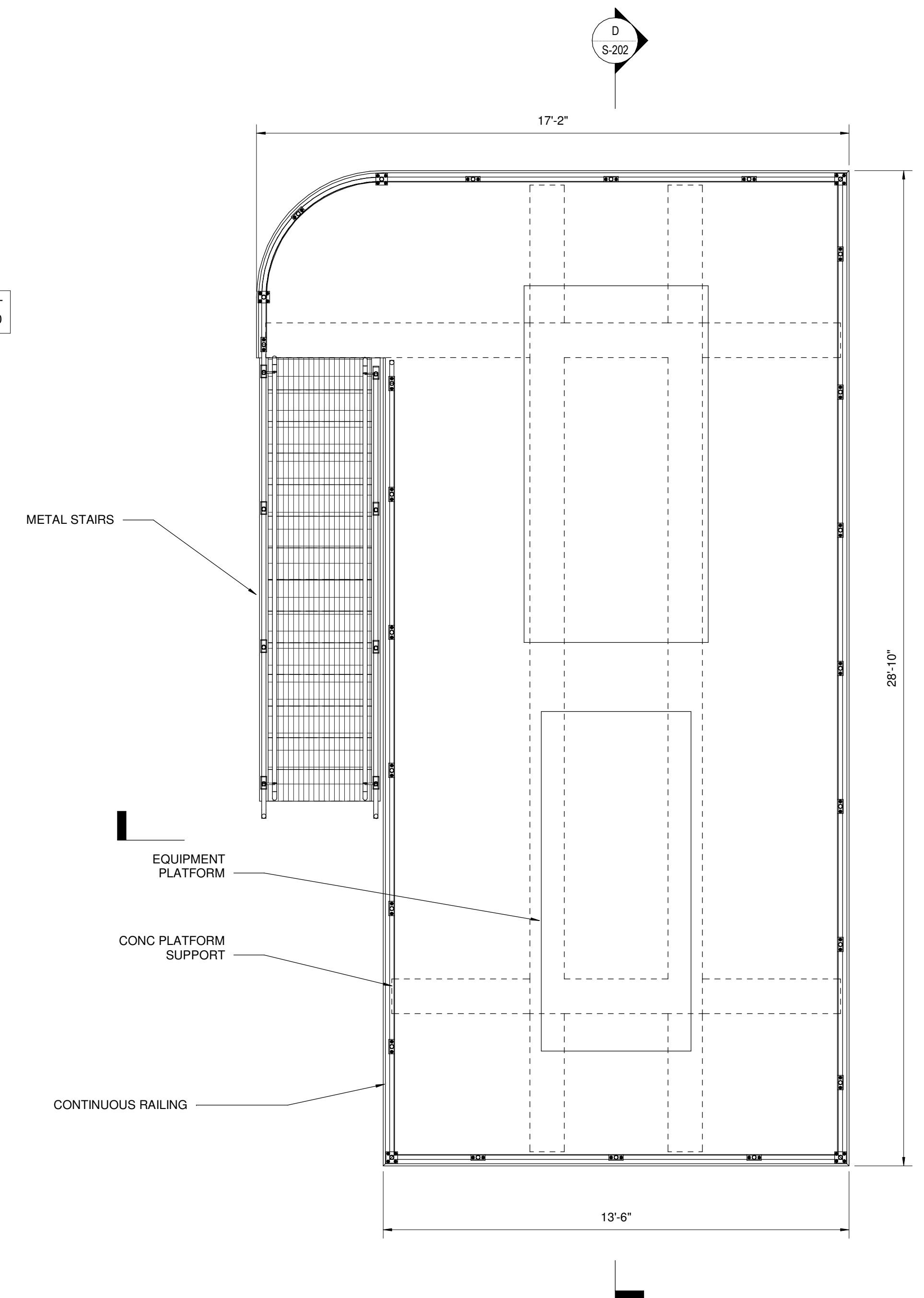
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Scale 1/4" = 1'-0"

Revision Sheet Drawing No.

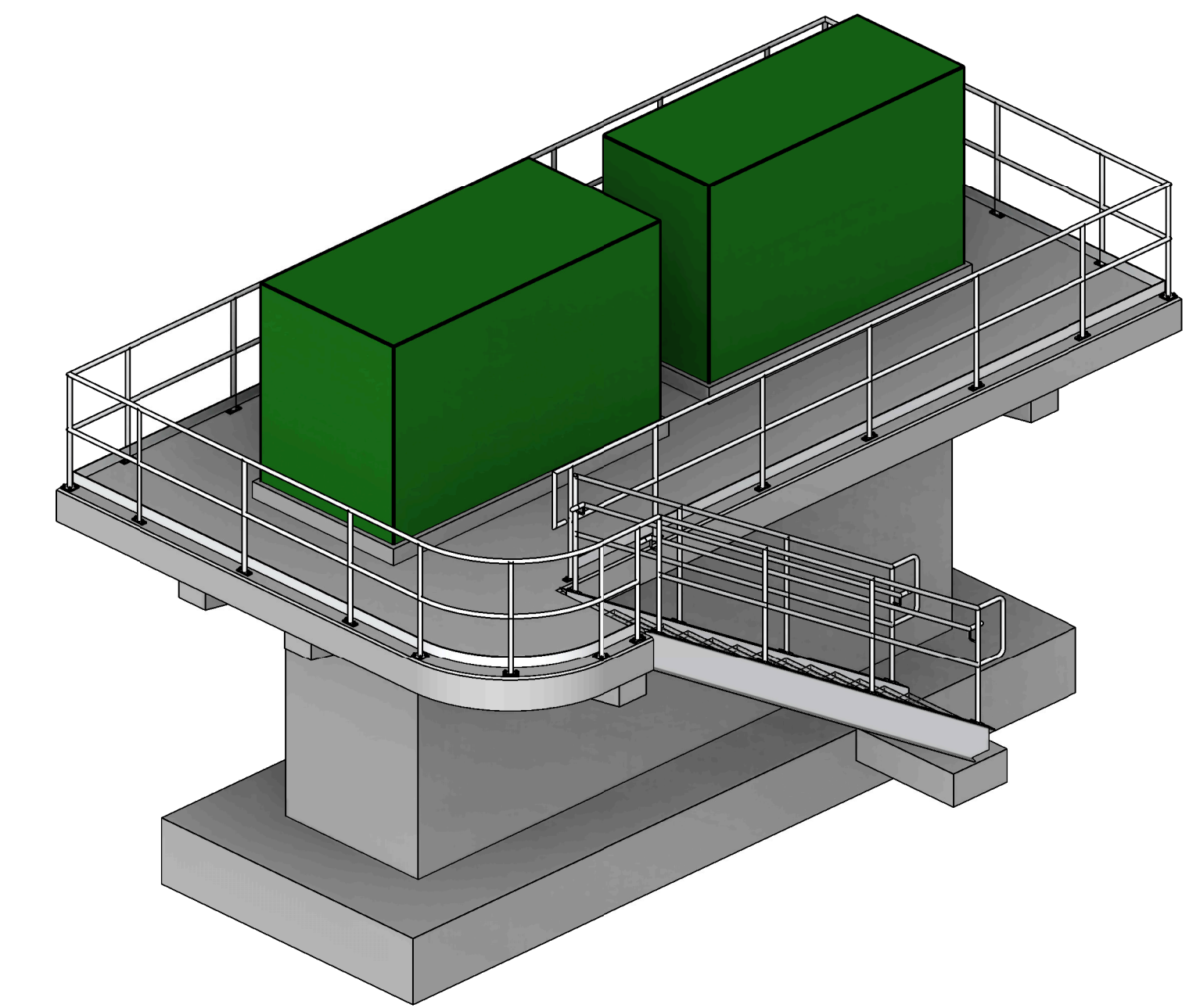
3 of 6 S-102



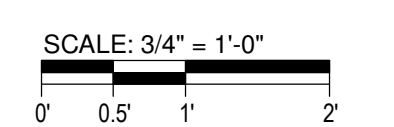
ELECTRICAL PLATFORM FOUNDATION PLAN
3/8" = 1'-0"



PLAN AT ELECTRICAL PLATFORM
3/8" = 1'-0"



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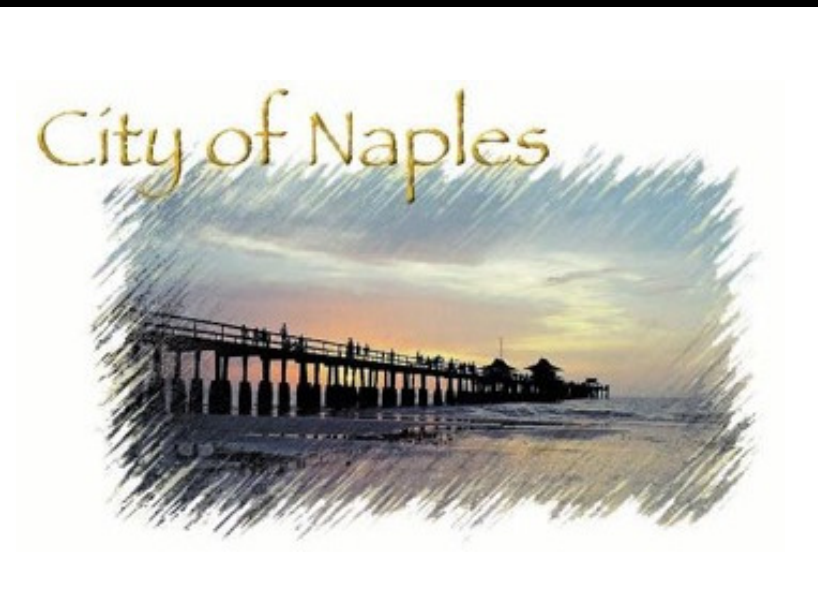
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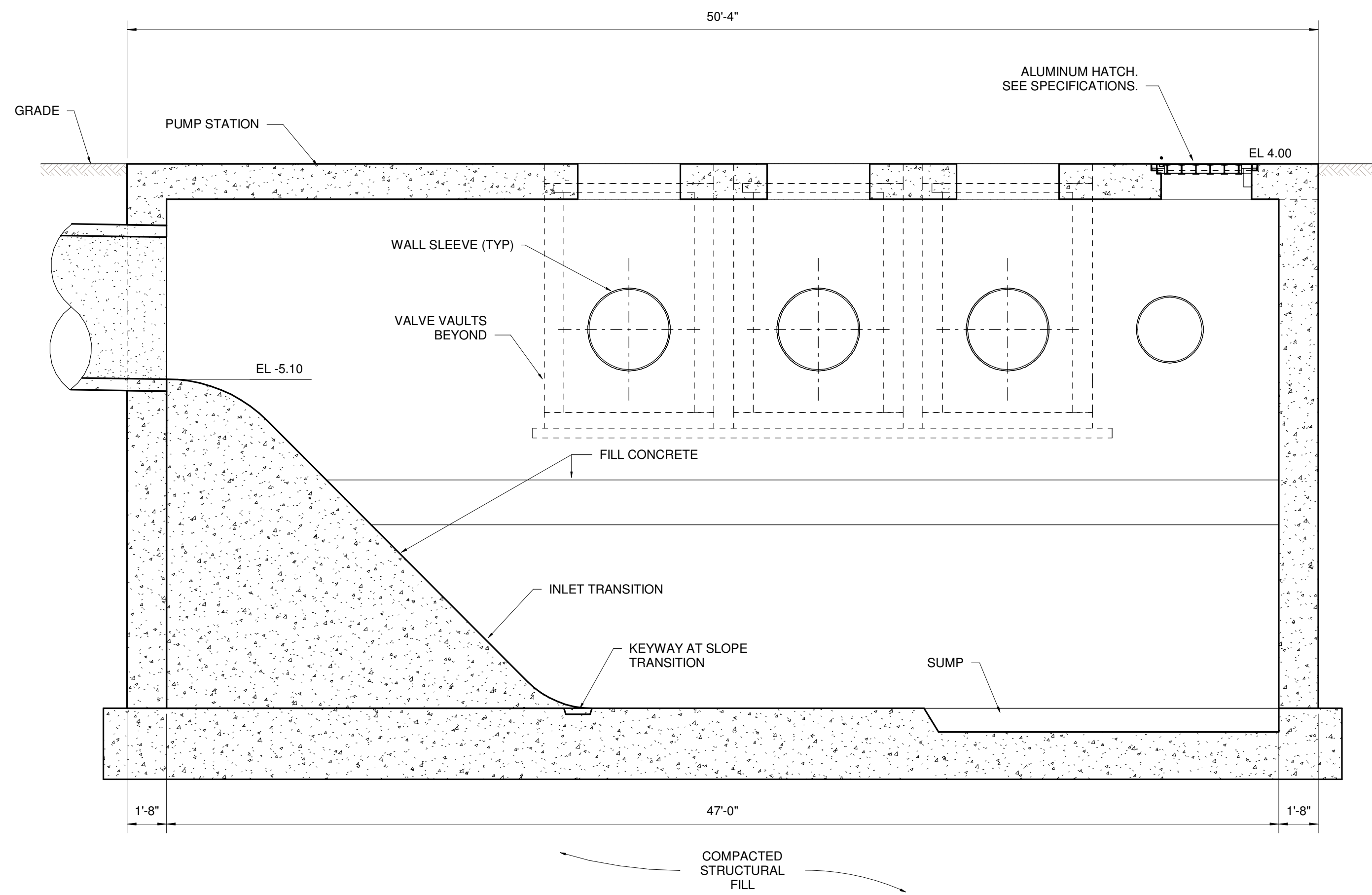
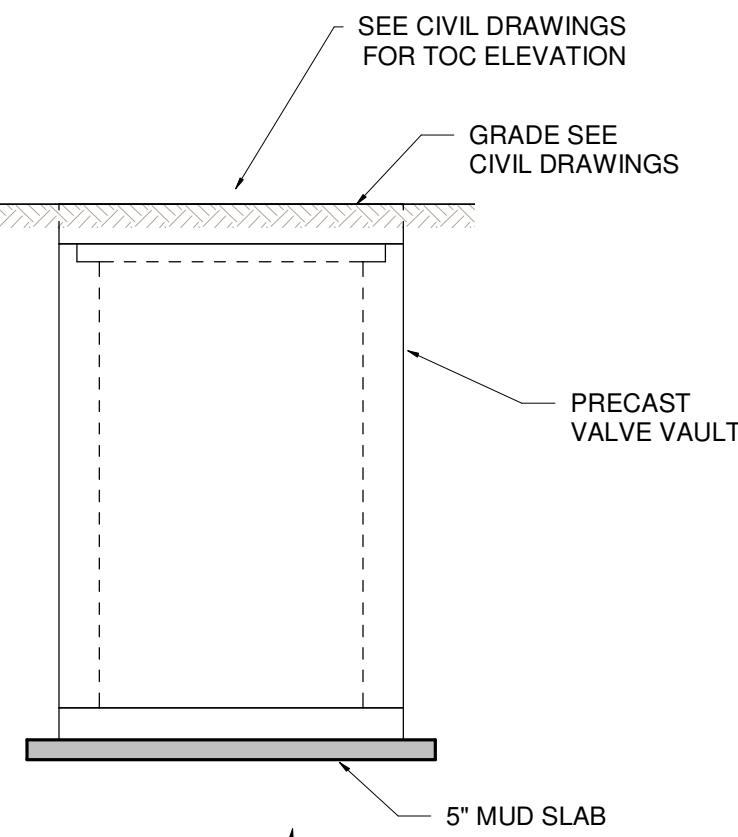
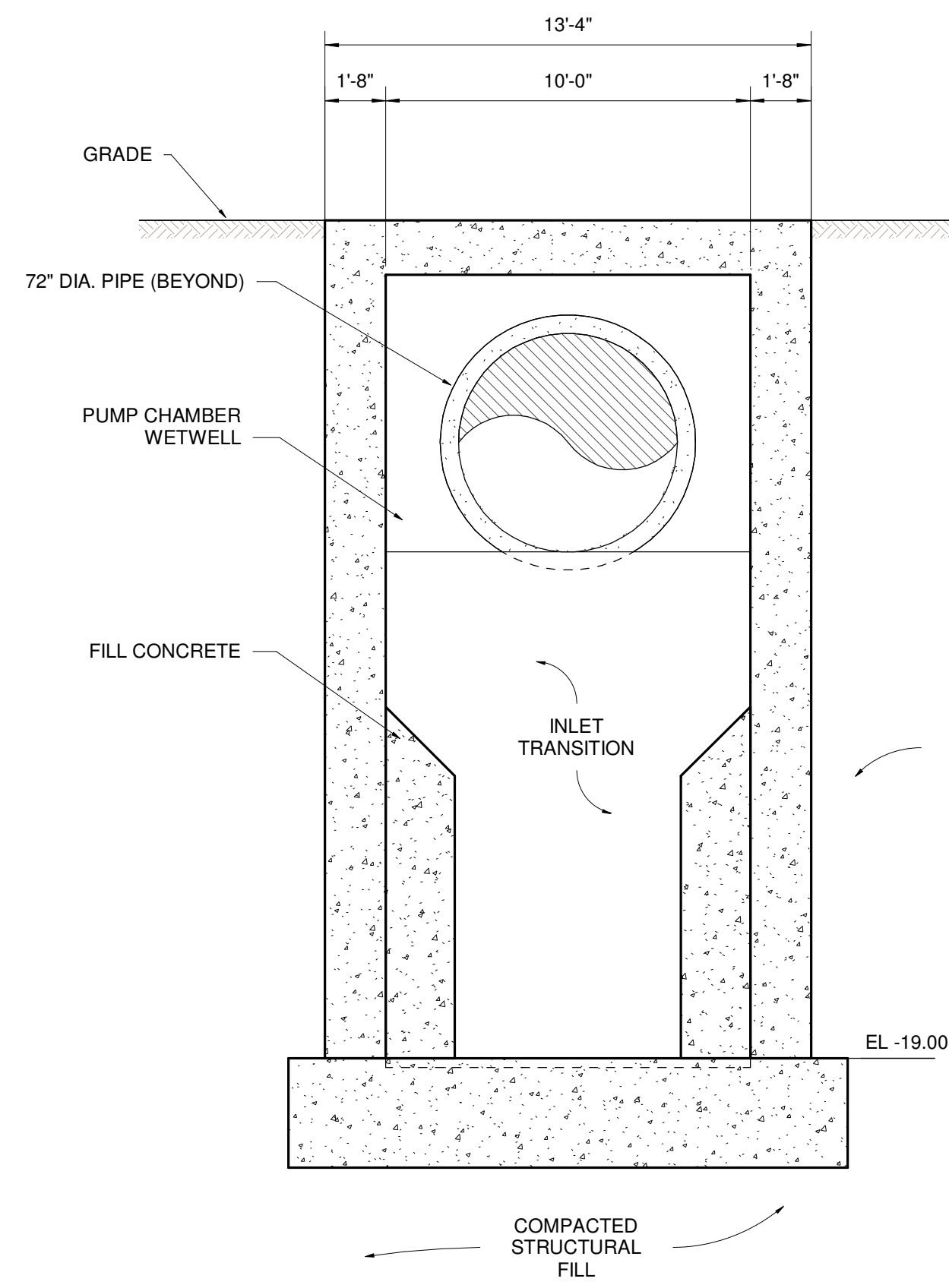
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Title ELECTRICAL PLATFORM		
Project No. 177310606	Scale 3/8" = 1'-0"	Drawing No. S-103
Revision	Sheet	
	4 of 6	



A SECTION
S-102 1/4" = 1'-0"

B SECTION
S-102 1/4" = 1'-0"

NOTE:
REFER TO GEOTECHNICAL REPORT FOR
SUBGRADE PREPARATION REQUIREMENTS.

SCALE: 3/4" = 1'-0"
0' 0.5' 1' 2'

SCALE: 1/4" = 1'-0"
0' 2' 4' 8'


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ORIGINAL SHEET - ANSI D

Revision	By	Appd	YYYY.MM.DD

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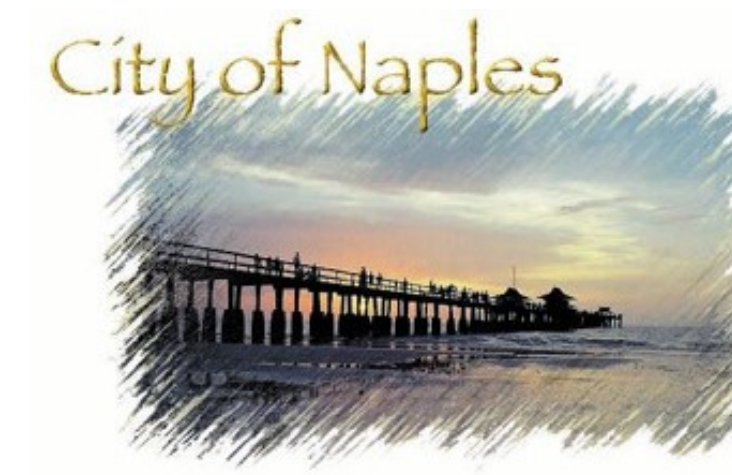


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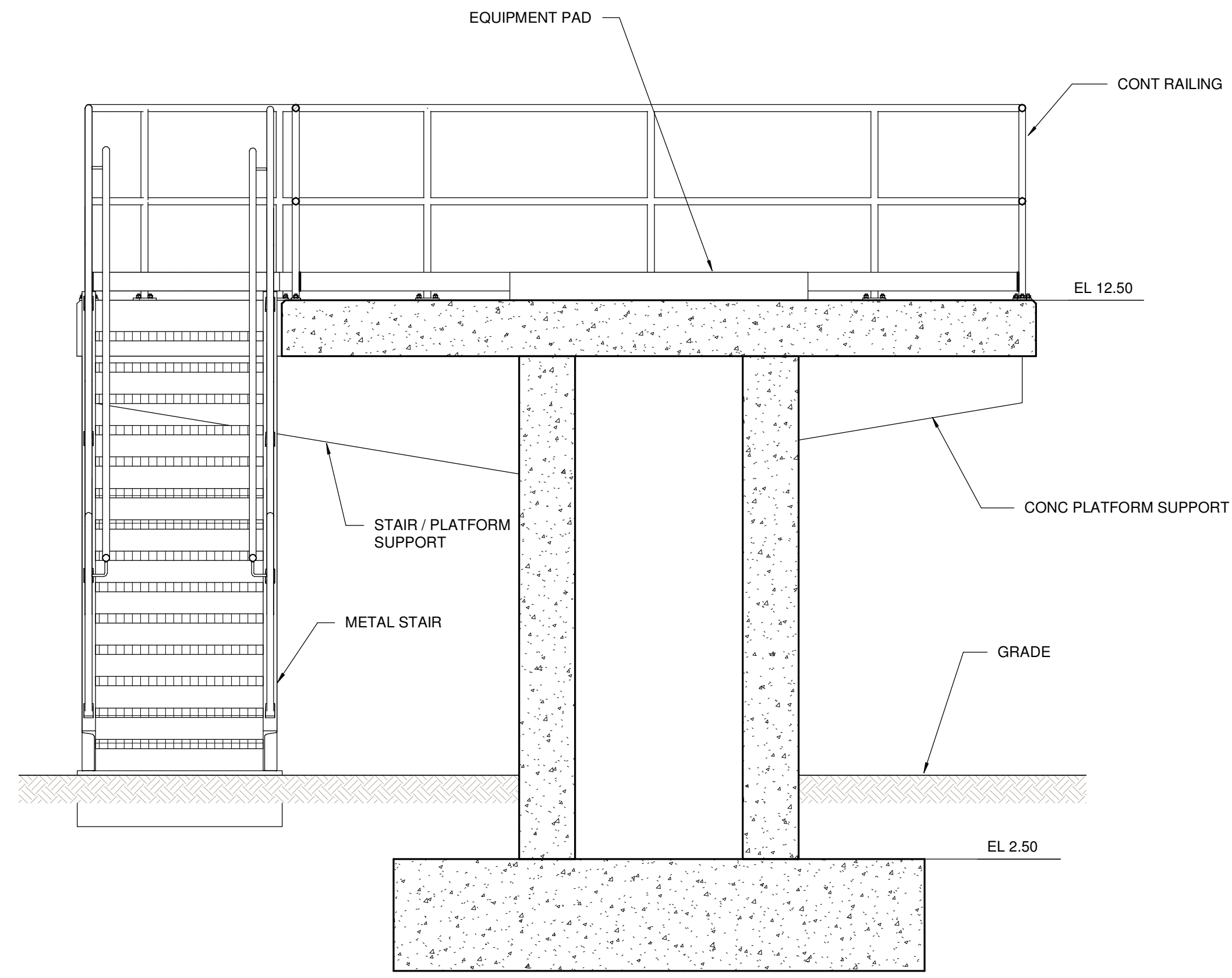
Client/Project
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NAPLES, FL.

Naples Beach Restoration
& Water Quality
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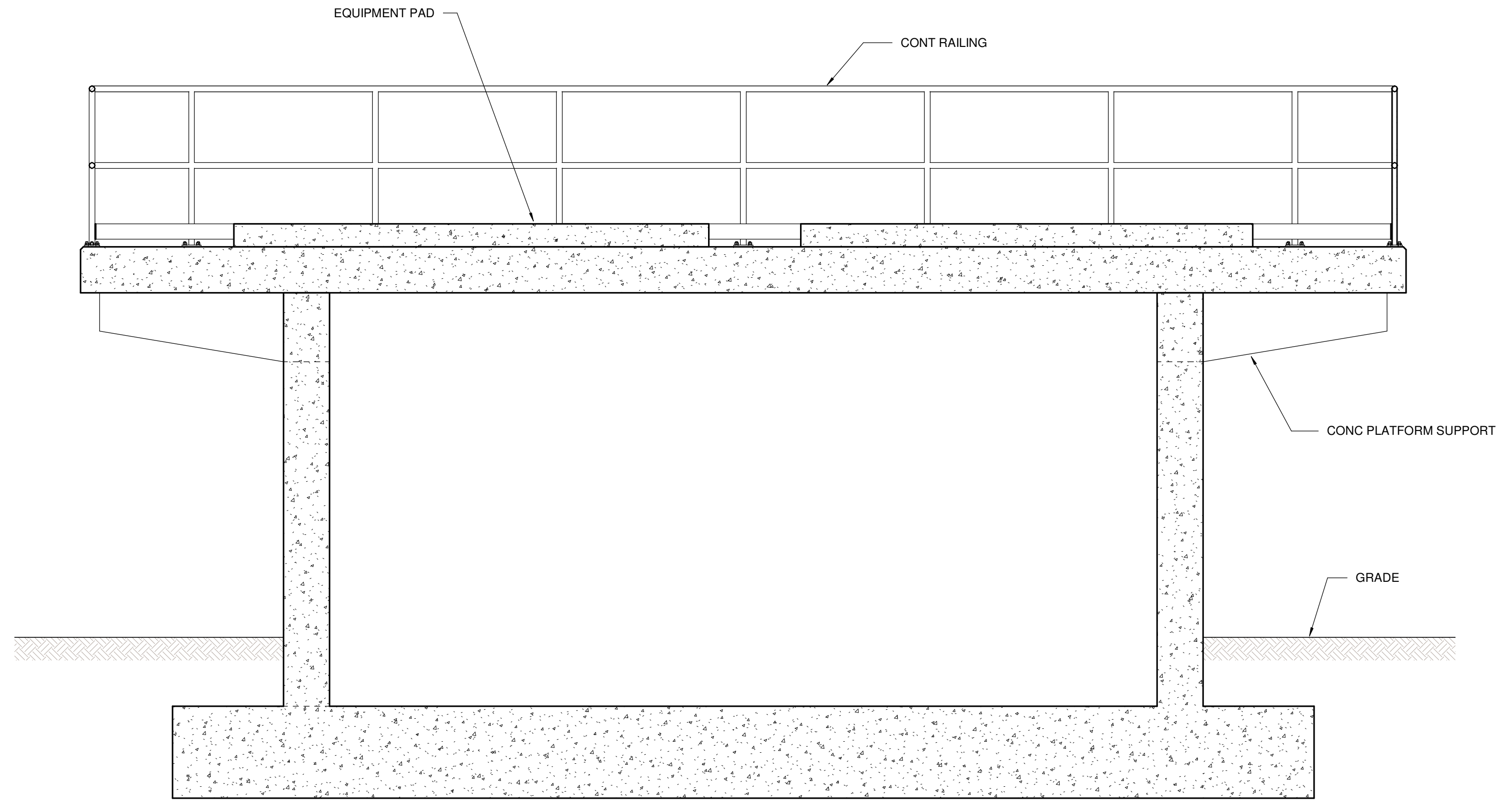


Title
PUMP STATION SECTIONS

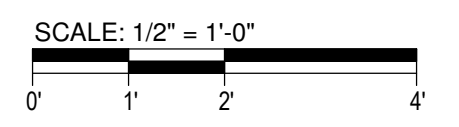
Project No. 177310606	Scale	Drawing No. S-201
Revision	Sheet	5 of 6



C SECTION
S-102 1/2" = 1'-0"



D SECTION
S-103 1/2" = 1'-0"



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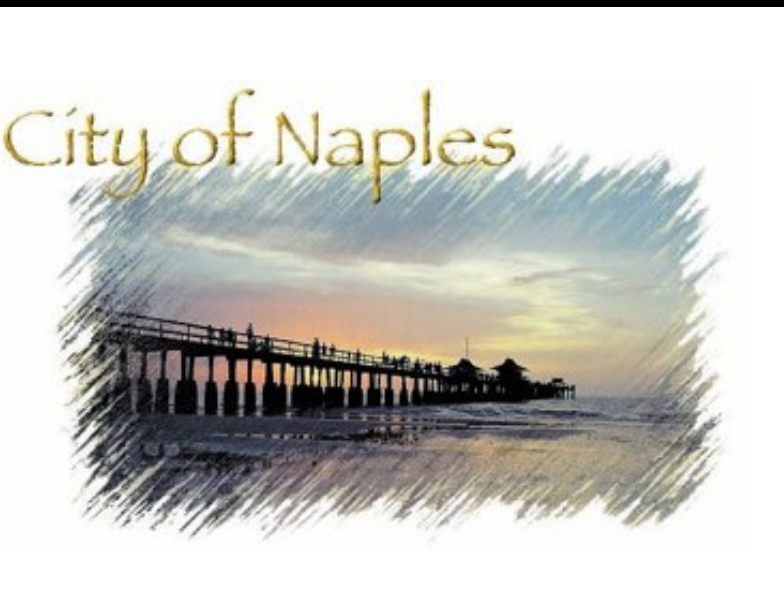
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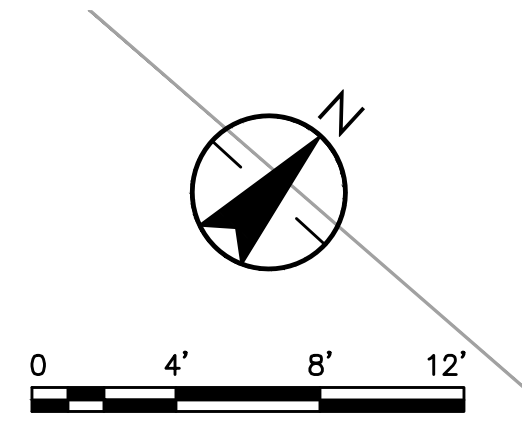
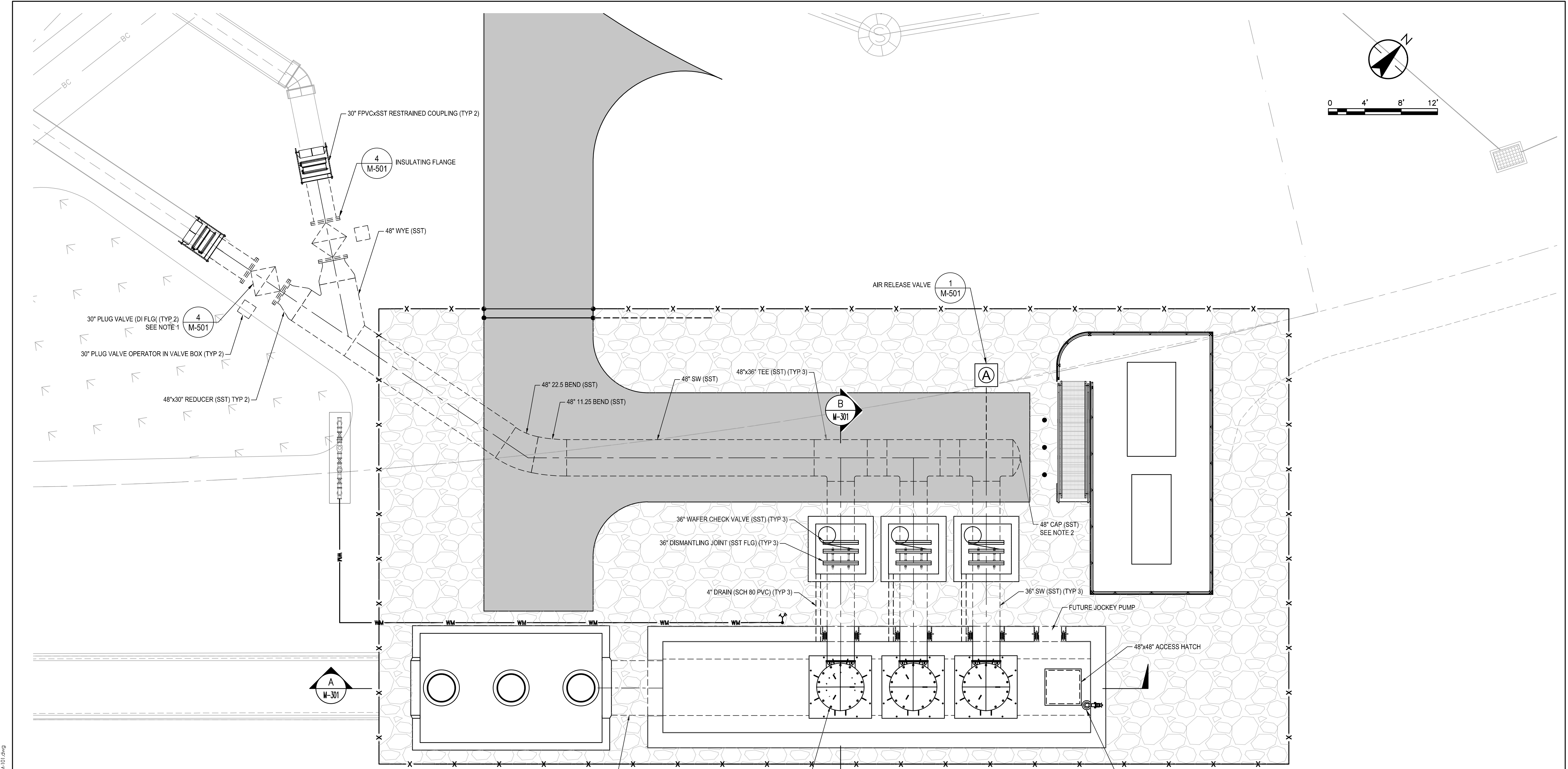
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DMB	Checker	PRD	2021.07
Dwn.	Chkd.	Dsgn.	YYYY.MM



Title		
ELECTRICAL PLATFORM SECTIONS		
Project No.	Scale	
177310606		
Revision	Sheet	Drawing No.
	6 of 6	S-202



- NOTES:**
1. CONTRACTOR SHALL ISOLATE ALL DISSIMILAR METALS AT FLANGE CONNECTIONS USING A FLANGE ISOLATION KIT.
 2. 48" CAP SHALL HAVE A 2" THREADED SST PORT FOR ARV CONNECTION.
 3. ALL SST PIPE SHALL BE WELDED JOINT UNLESS OTHERWISE STATED.

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 2021/07/28 8:32 AM By: Latorre, Mike

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ISSUED 60% DRAFT DRAWINGS	SAH	RC	21.07.30

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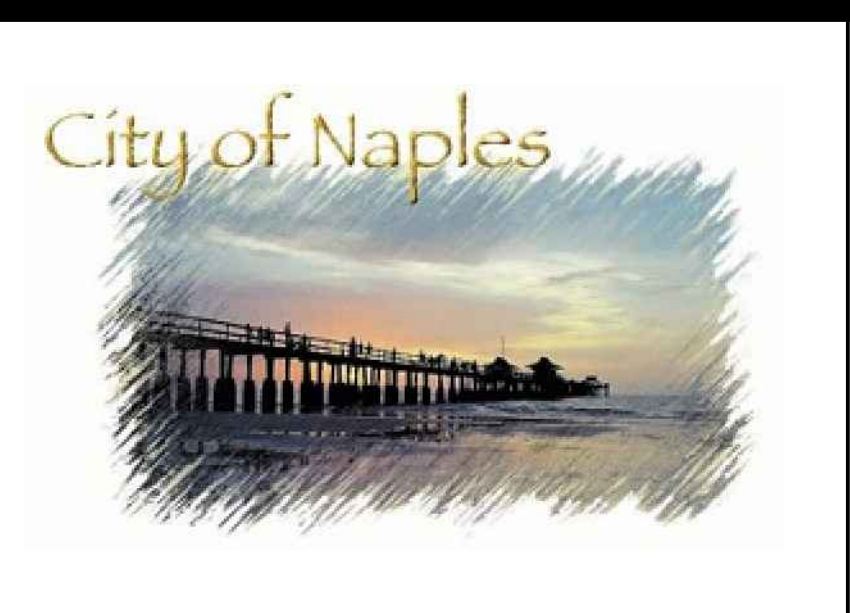
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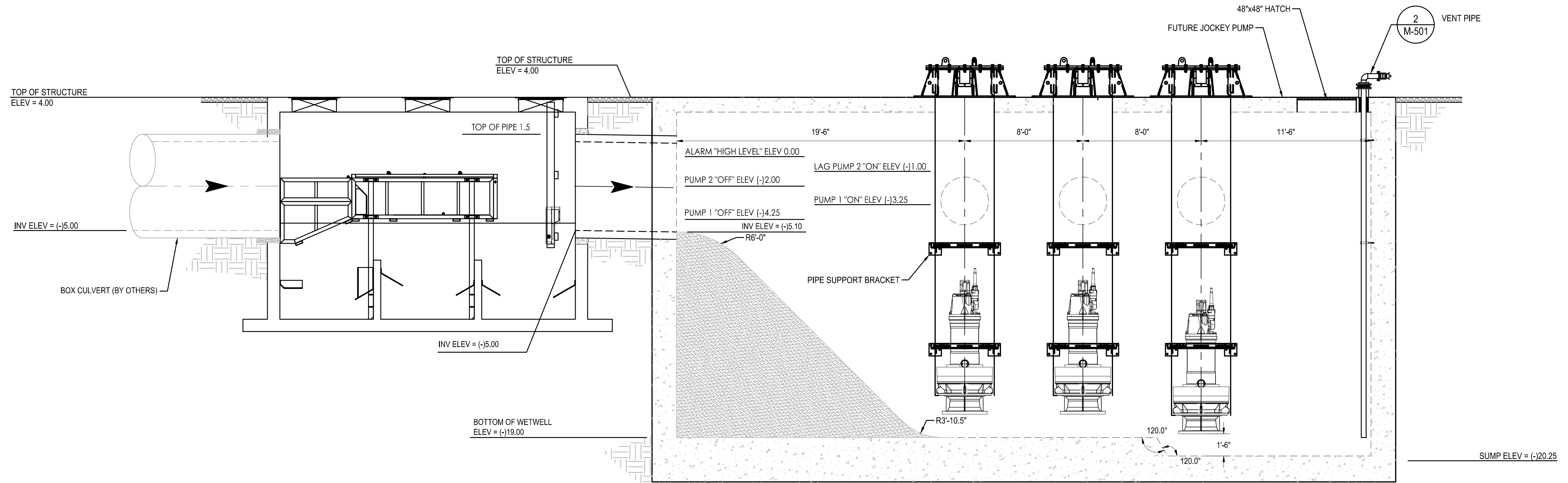
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Title		Project No.		Scale	
PUMP STATION FITTING AND VALVE MECHANICAL PLAN		177310606		AS NOTED	
Revision		Sheet		Drawing No.	
		X of X		M-101	

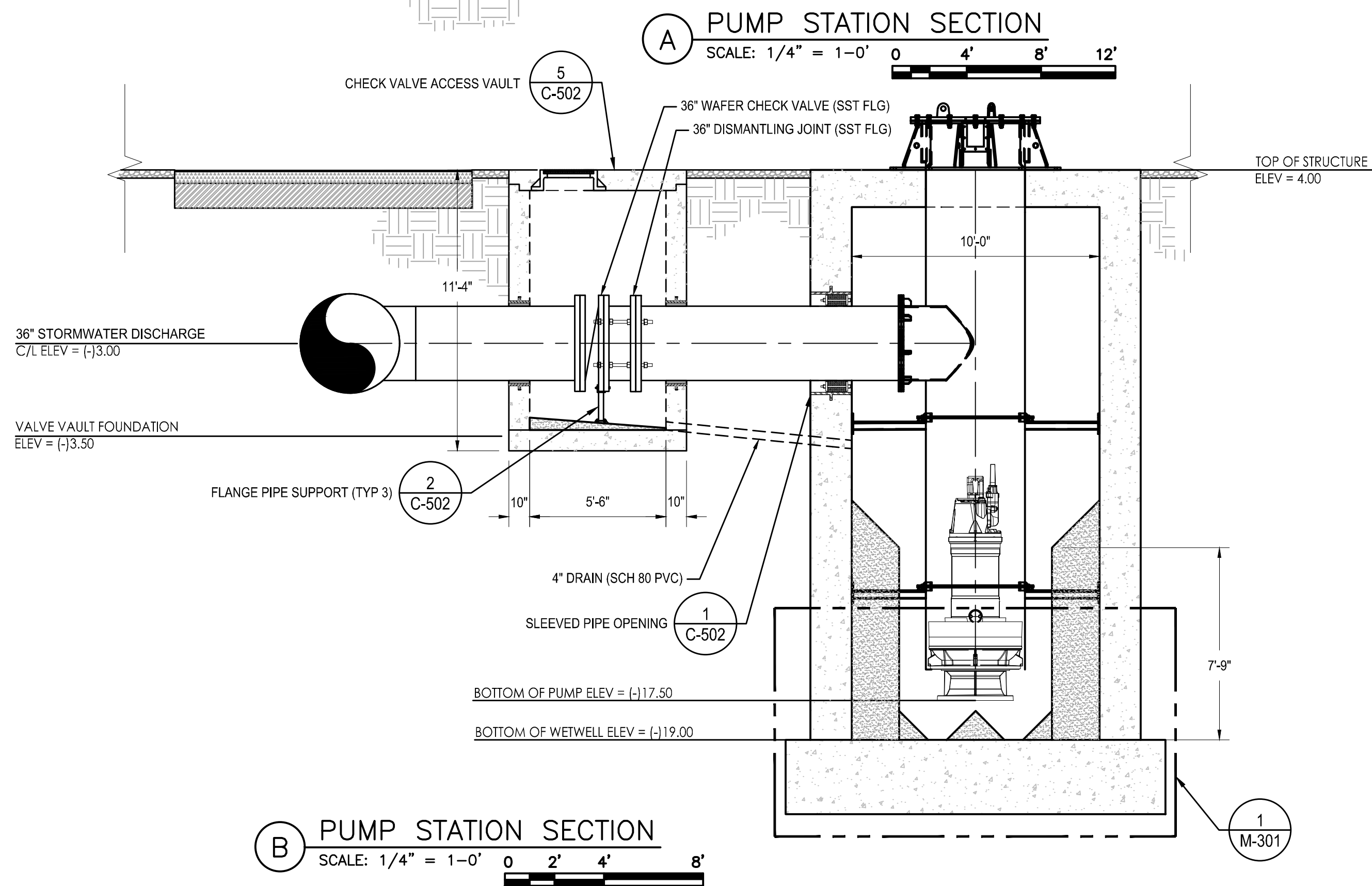


A PUMP STATION SECTION
SCALE: 1/4" = 1'-0" 0 4' 8' 12'

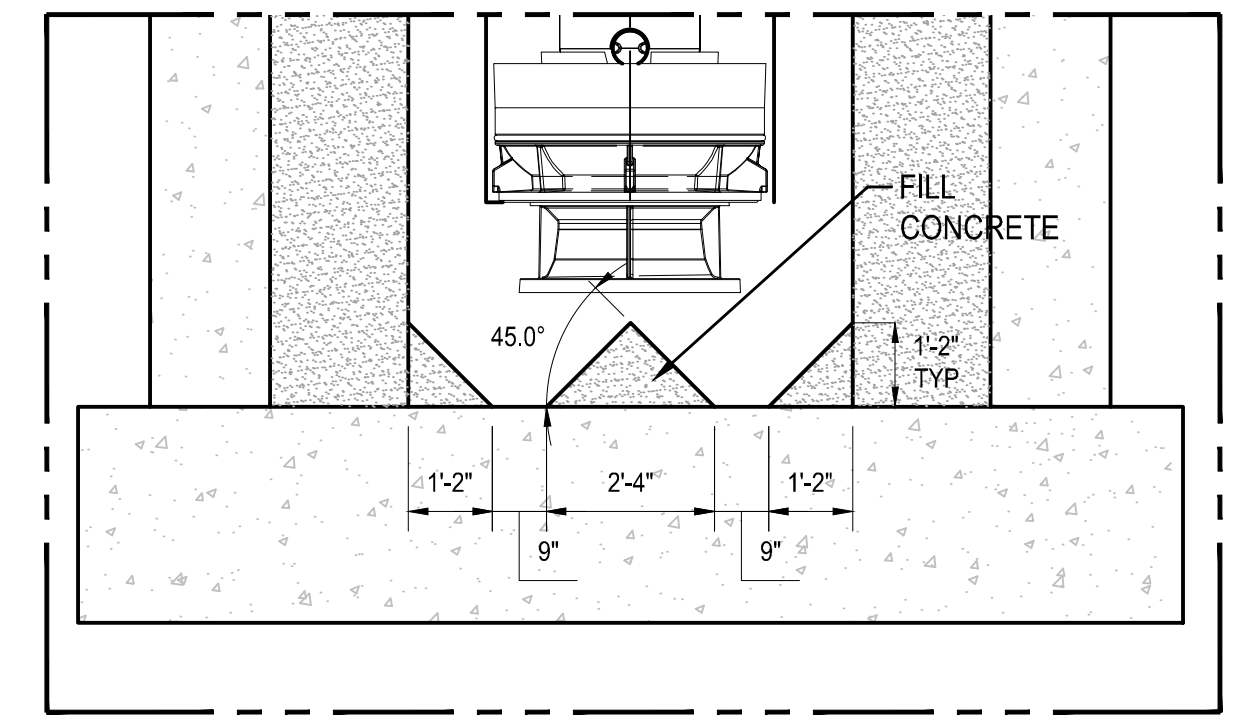
NUMBER OF PUMPS: 3 SERVICE AND 1 STANDBY

PUMP DATA	
PUMP MANUFACTURER	FLYGT
TYPE	MIXED FLOW PROPELLER PUMP
MODEL	LL 3602 / 835 3~ 1240
QUANTITY OF PUMPS	3 (2 PUMPS, 1 STANDBY CAPACITY)
HP	240 / 3 PHASE
AXIAL FLOW TUBE DIA, IN	48" O.D.
DISCHARGE FLANGE, IN	36"
PUMP, FLOW TUBE, WALL BRACKET MATERIAL	316 SS
RATED SPEED	590 RPM
MAXIMUM OPERATING SPEED	590 RPM

- NOTES:**
- REFER TO SPECIFICATIONS FOR STAINLESS STEEL STORMWATER PIPE AND FITTING MATERIAL REQUIREMENTS.
 - ALL STAINLESS STEEL STORMWATER PIPE AND FITTINGS SHALL BE WELDED UNLESS OTHERWISE SHOWN.
 - CONTRACTOR SHALL PROVIDE FLANGE ISOLATION KITS TO ISOLATE DISSIMILAR METALS AS REQUIRED.



B PUMP STATION SECTION
SCALE: 1/4" = 1'-0" 0 2' 4' 8'



1 FLOW SPLITTER AND FILLET SECTION
SCALE: NTS

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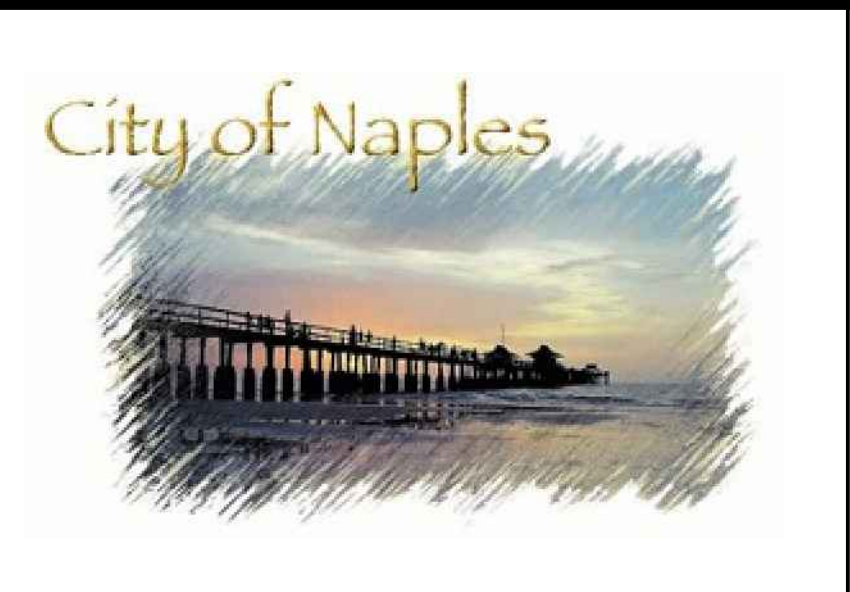
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Dwn.	Chkd.	Dsgn.	YYYY.MM



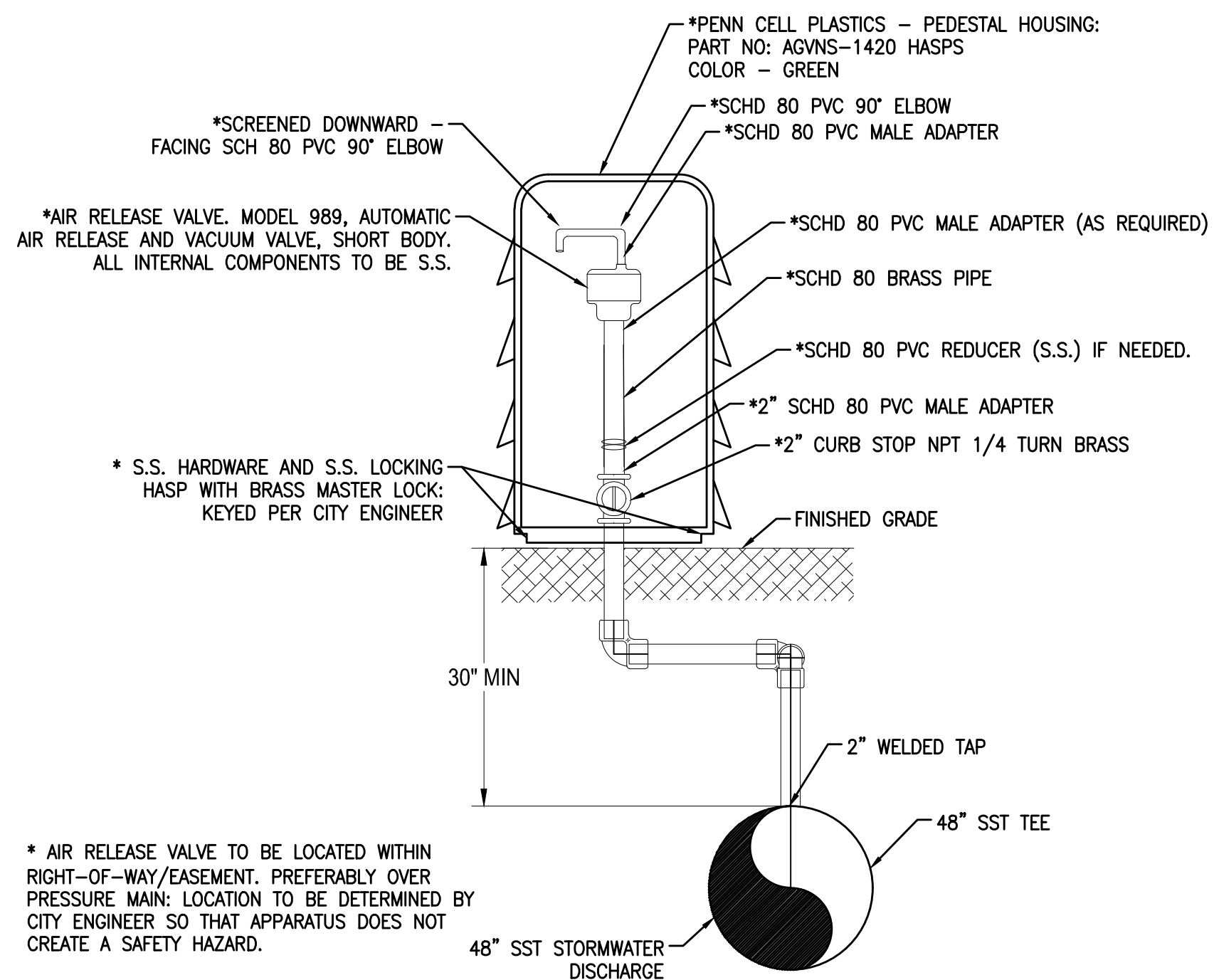
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PUMP STATION MECHANICAL DETAILS

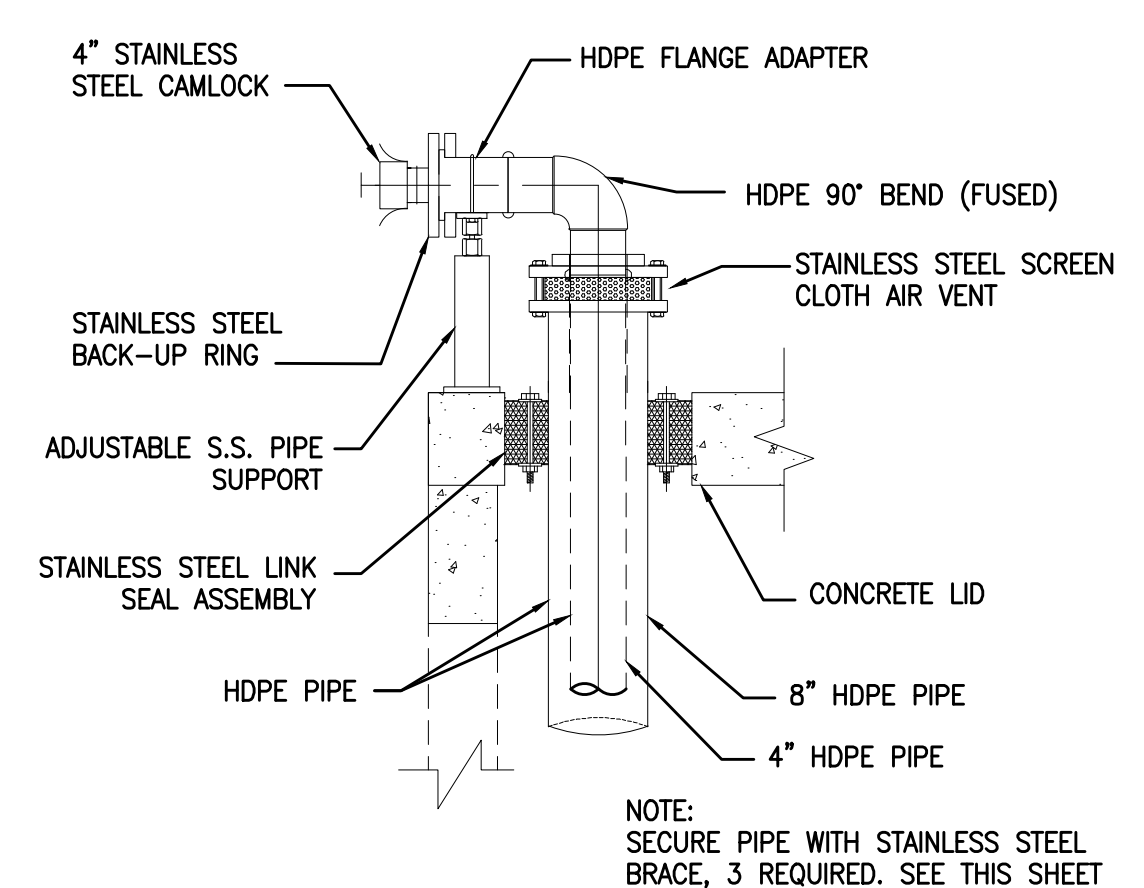
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Revision Sheet Drawing No. M-301

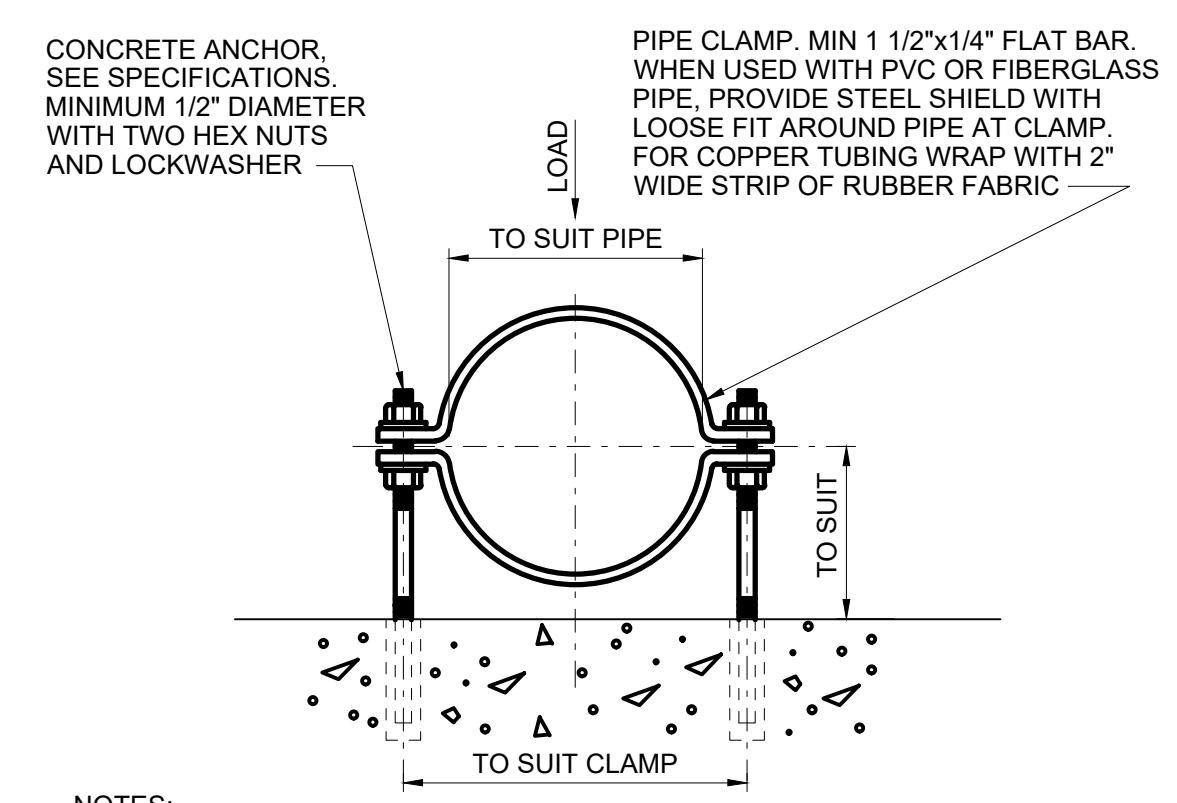
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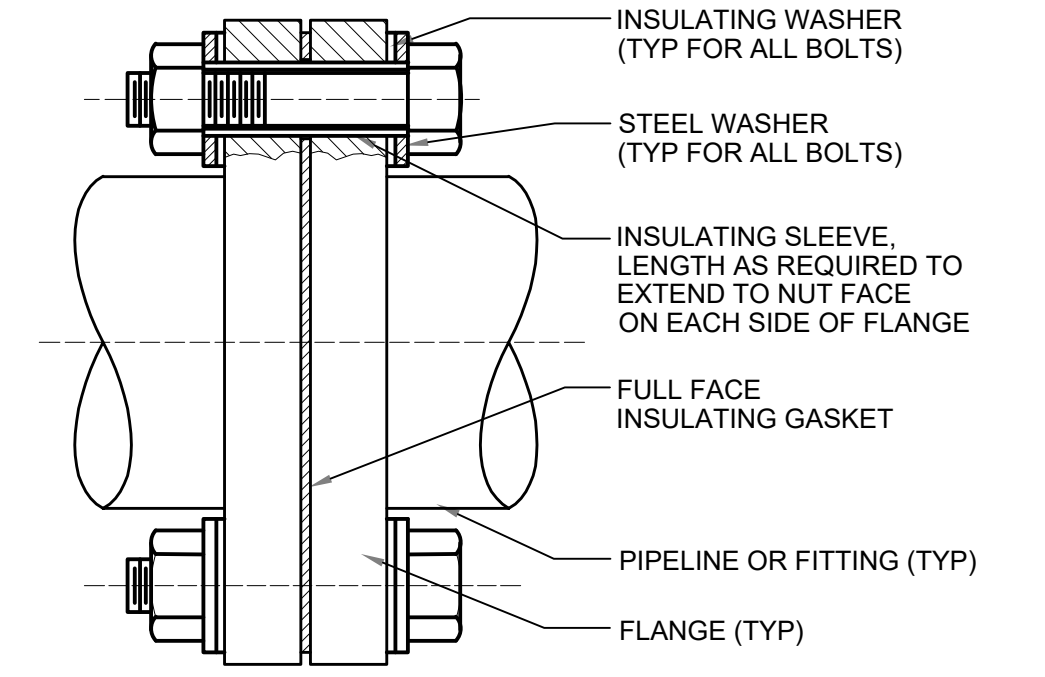
1 AIR RELEASE VALVE DETAIL
SCALE: NTS



2 VENT PIPE DETAIL
SCALE: NTS

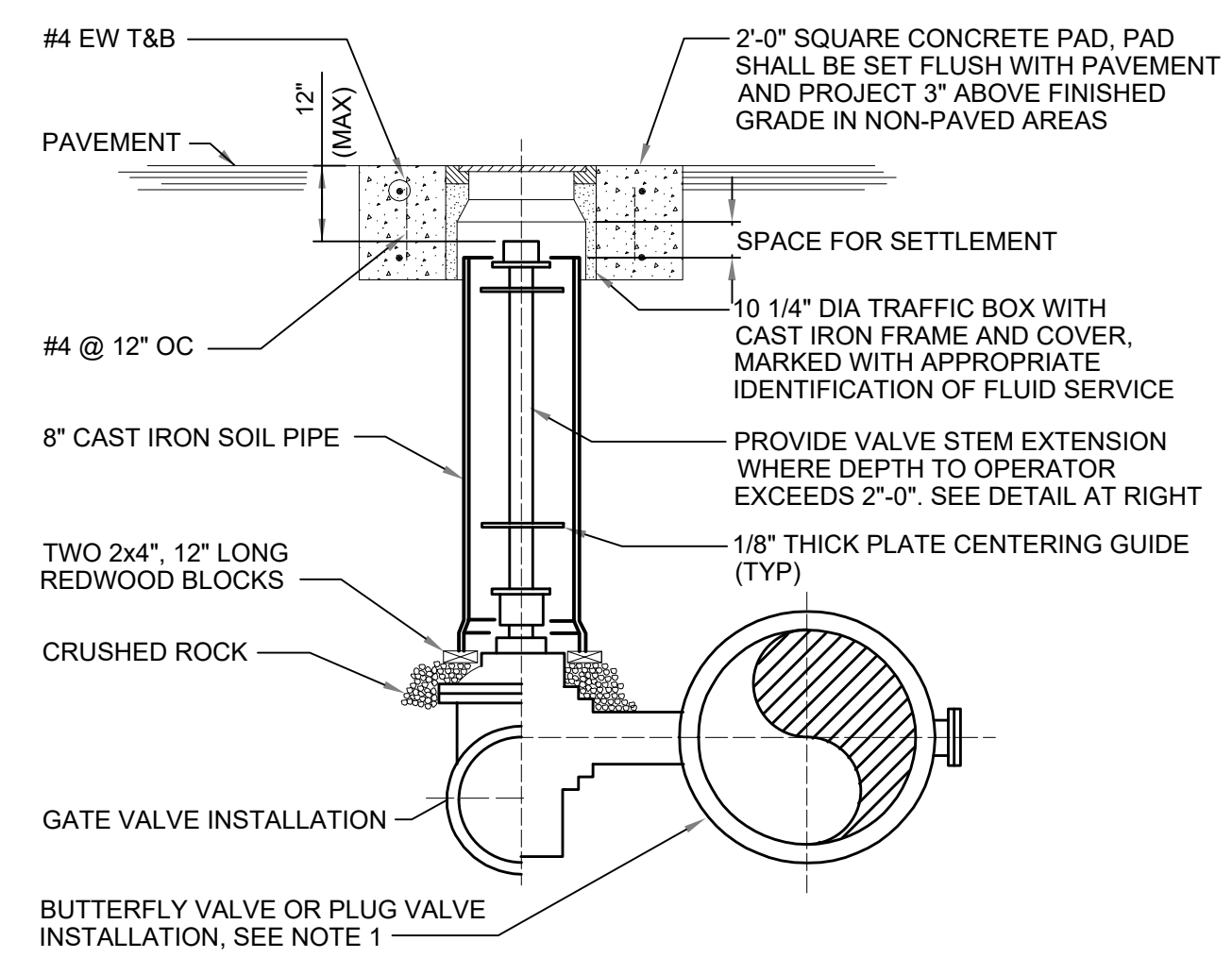


3 PIPE CLAMP (FOR PIPE 4\"/>

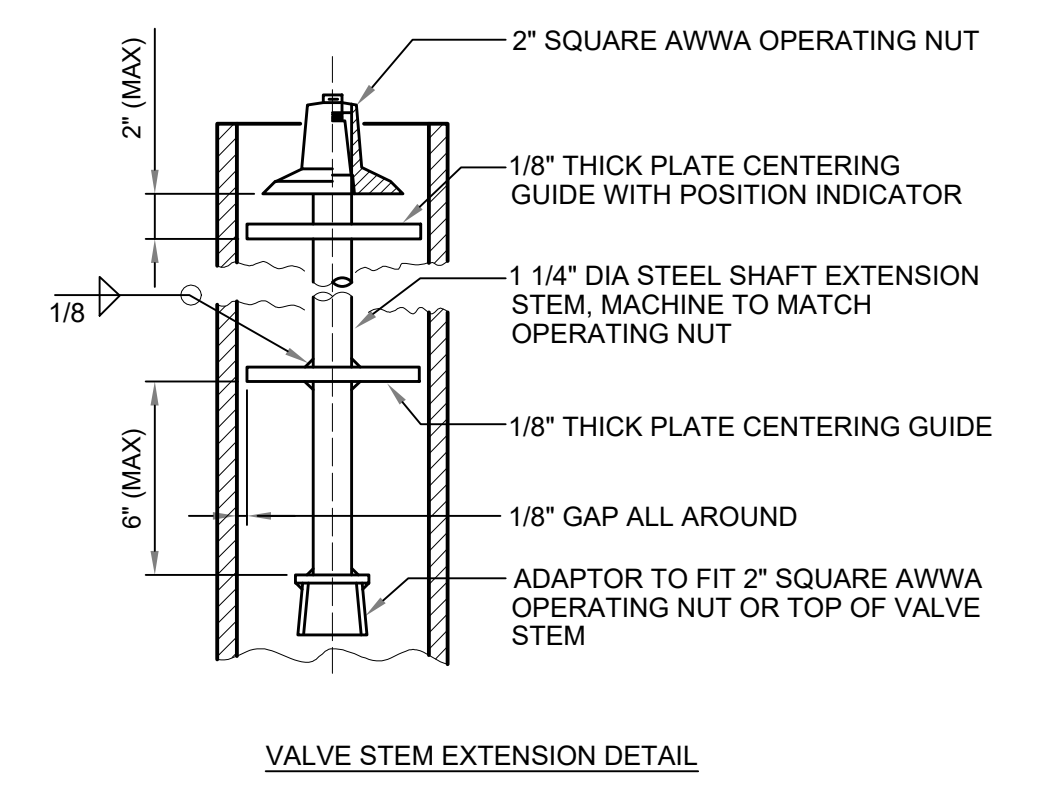


4 INSULATING FLANGE
SCALE: NTS

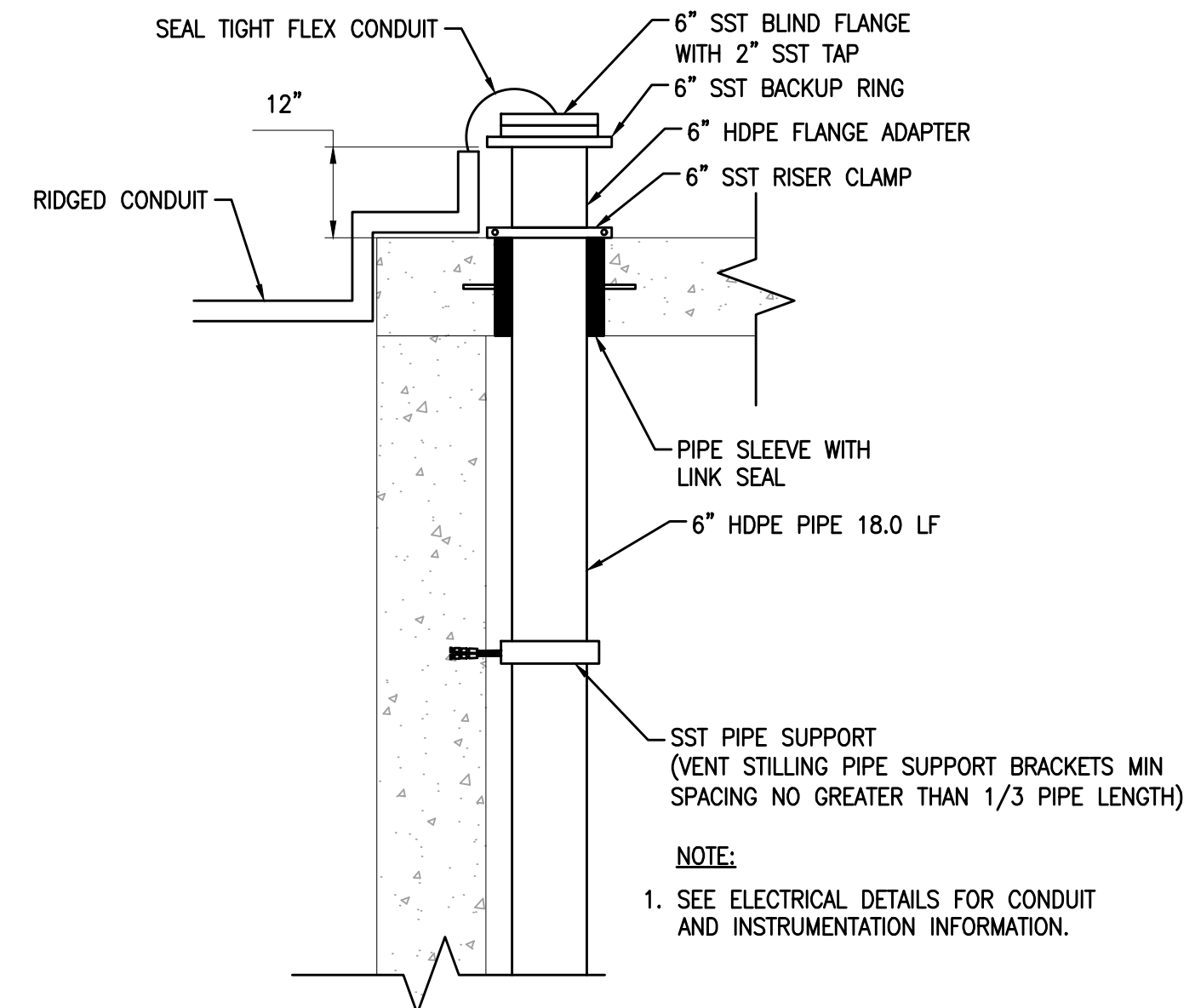
POLY-TUBE AND PIPING COLOR CODE:
 * SANITARY SEWER - GREEN
 * POTABLE WATER - BLUE
 * EFFLUENT (REUSE) - PURPLE



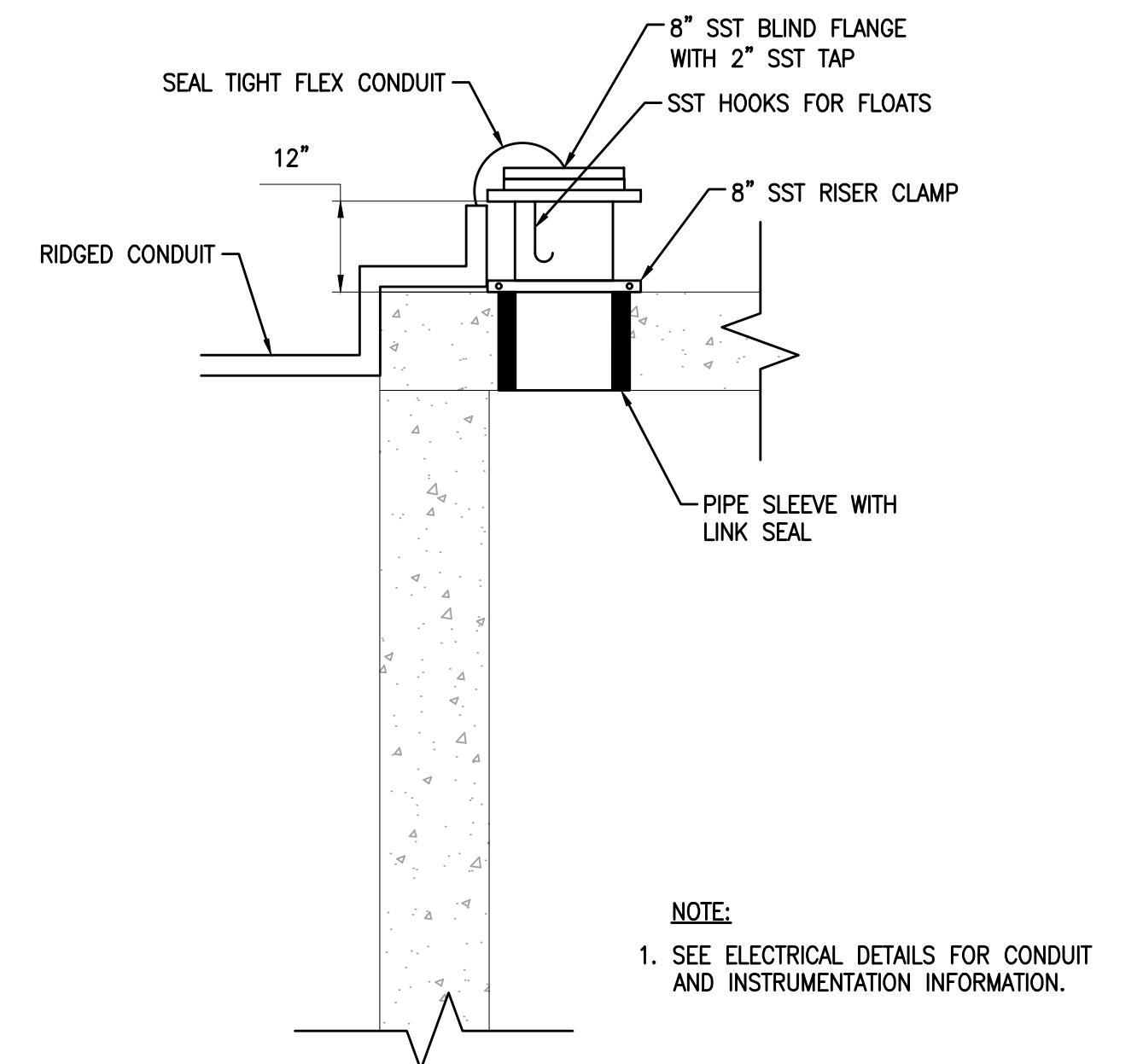
5 BURIED VALVE
SCALE: NTS



6 VALVE STEM EXTENSION DETAIL
NOTE: 1. FOR LUBRICATED PLUG VALVES, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURER'S INSTRUCTIONS.



6 PRESSURE TRANSDUCER STILLING WELL DETAIL
SCALE: NTS



7 BACKUP FLOAT ACCESS DETAIL
SCALE: NTS

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 2017/07/27 9:51 AM By: csterio

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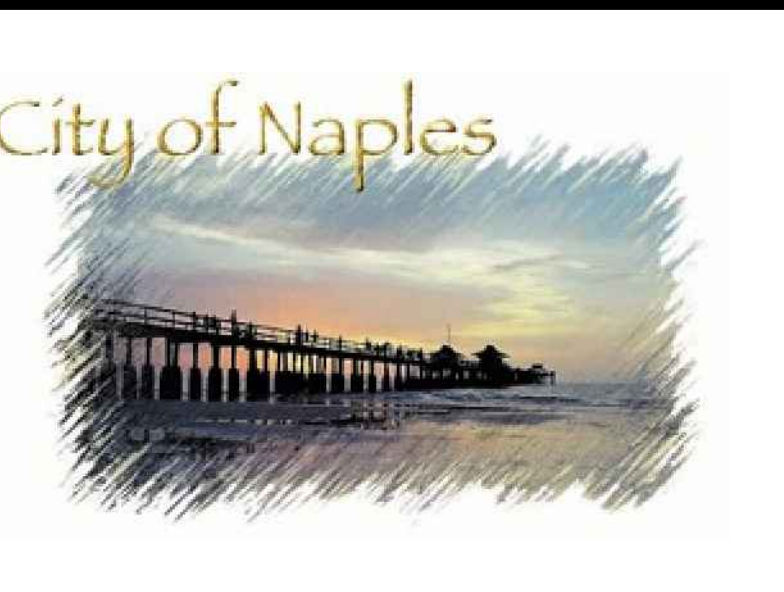
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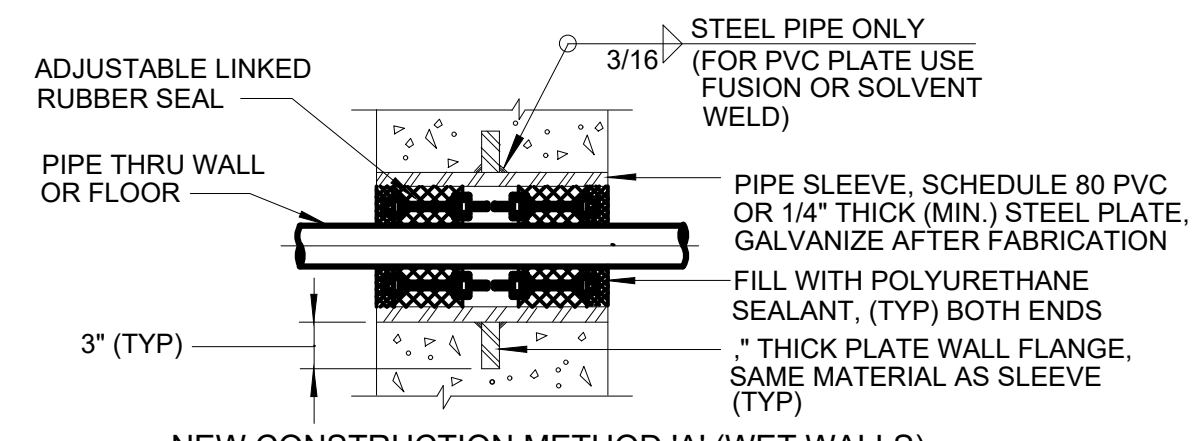
MPL	SAH	SEP	2016.03
Dwn.	Chkd.	Dsgn.	YYYY.MM



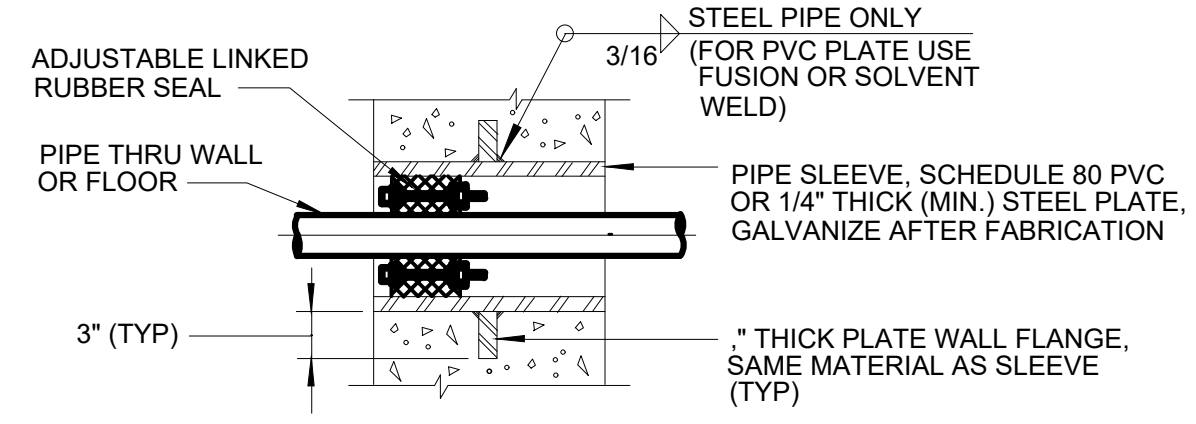
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MECHANICAL DETAILS

Project No. 177310606	Scale AS NOTED
Revision	Sheet X of X
Drawing No. M-501	

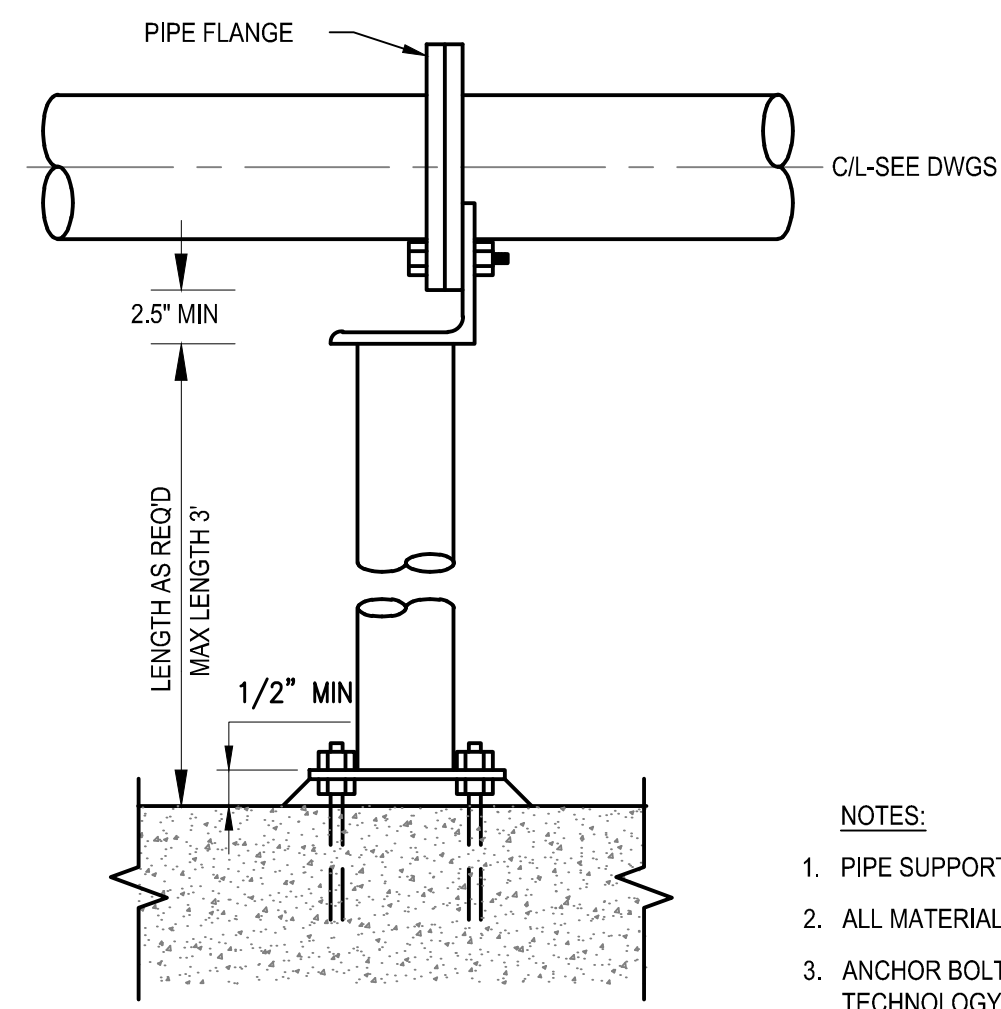


NEW CONSTRUCTION METHOD 'A' (WET WALLS)



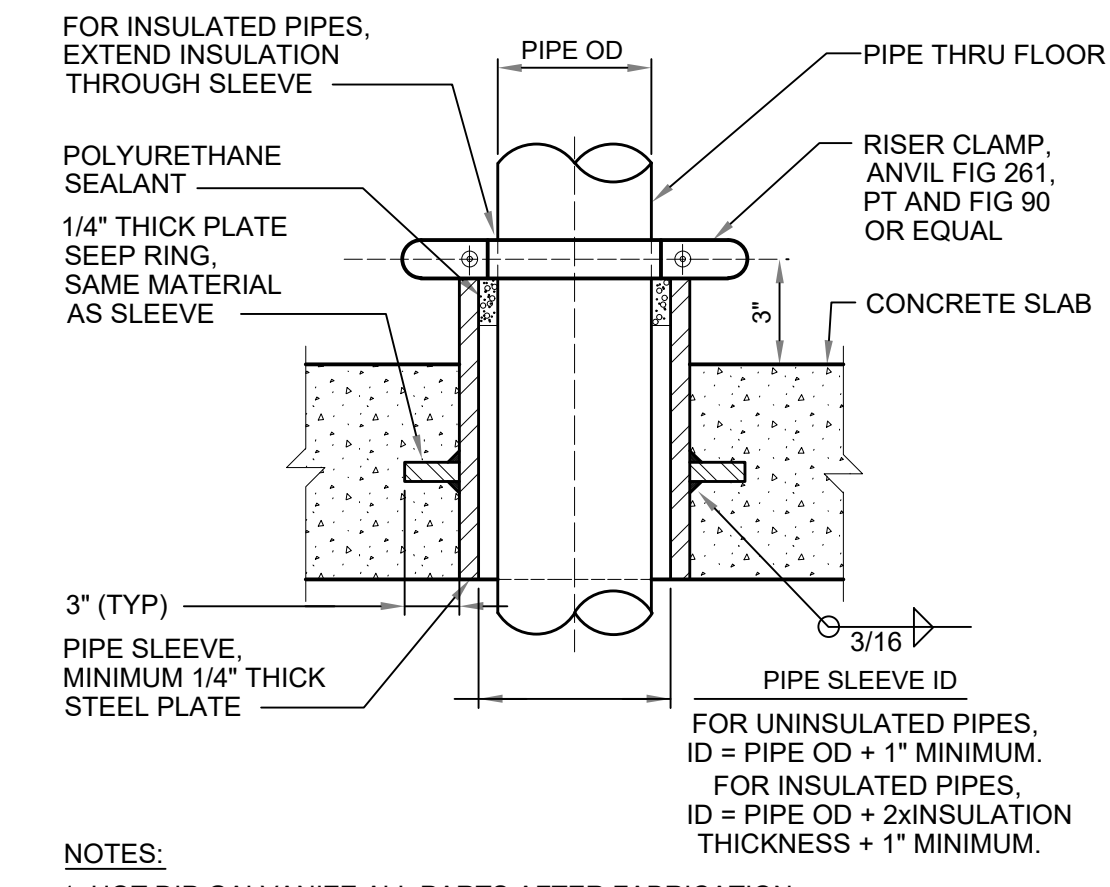
NEW CONSTRUCTION METHOD 'B' (DRY WALLS)

1 SLEEVED PIPE OPENING
SCALE: NTS



2 FLANGE PIPE SUPPORT
SCALE: NTS

- NOTES:
1. PIPE SUPPORT HEIGHT TO BE ADJUSTABLE.
 2. ALL MATERIALS AND HARDWARE TO BE 316 SS.
 3. ANCHOR BOLTS TO BE EPOXIED WITH ULTRA BOND 2 ADHESIVES TECHNOLOGY OR APPROVED EQUAL.



- NOTES:
1. HOT DIP GALVANIZE ALL PARTS AFTER FABRICATION.
 2. THIS SLEEVED PIPE OPENING DETAIL SHALL BE USED IN DRY AREAS ONLY AND SHALL NOT BE USED FOR AREAS WITH WATER ON ONE OR BOTH SIDES.

3 VERTICAL PIPE SUPPORT SLEEVE
SCALE: NTS

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 2016/07/27 9:02:24 AM By: c.terera

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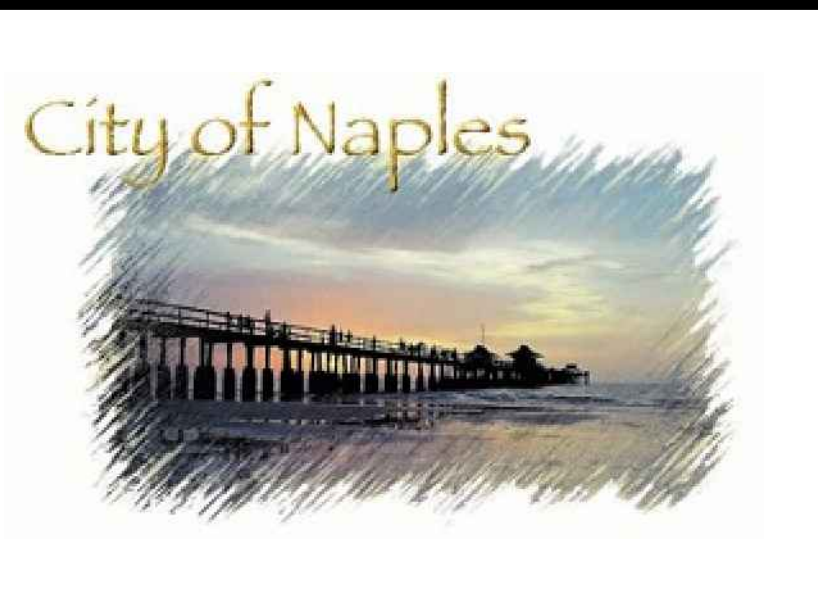
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MECHANICAL DETAILS

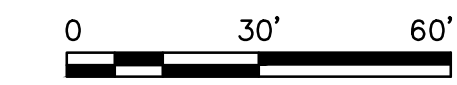
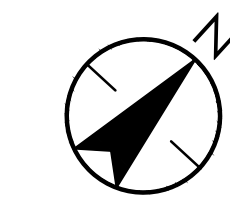
Project No.
177310606

Scale
AS NOTED

Revision
Sheet

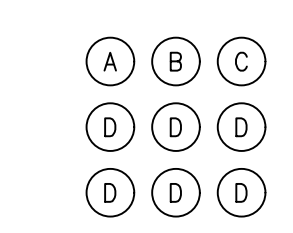
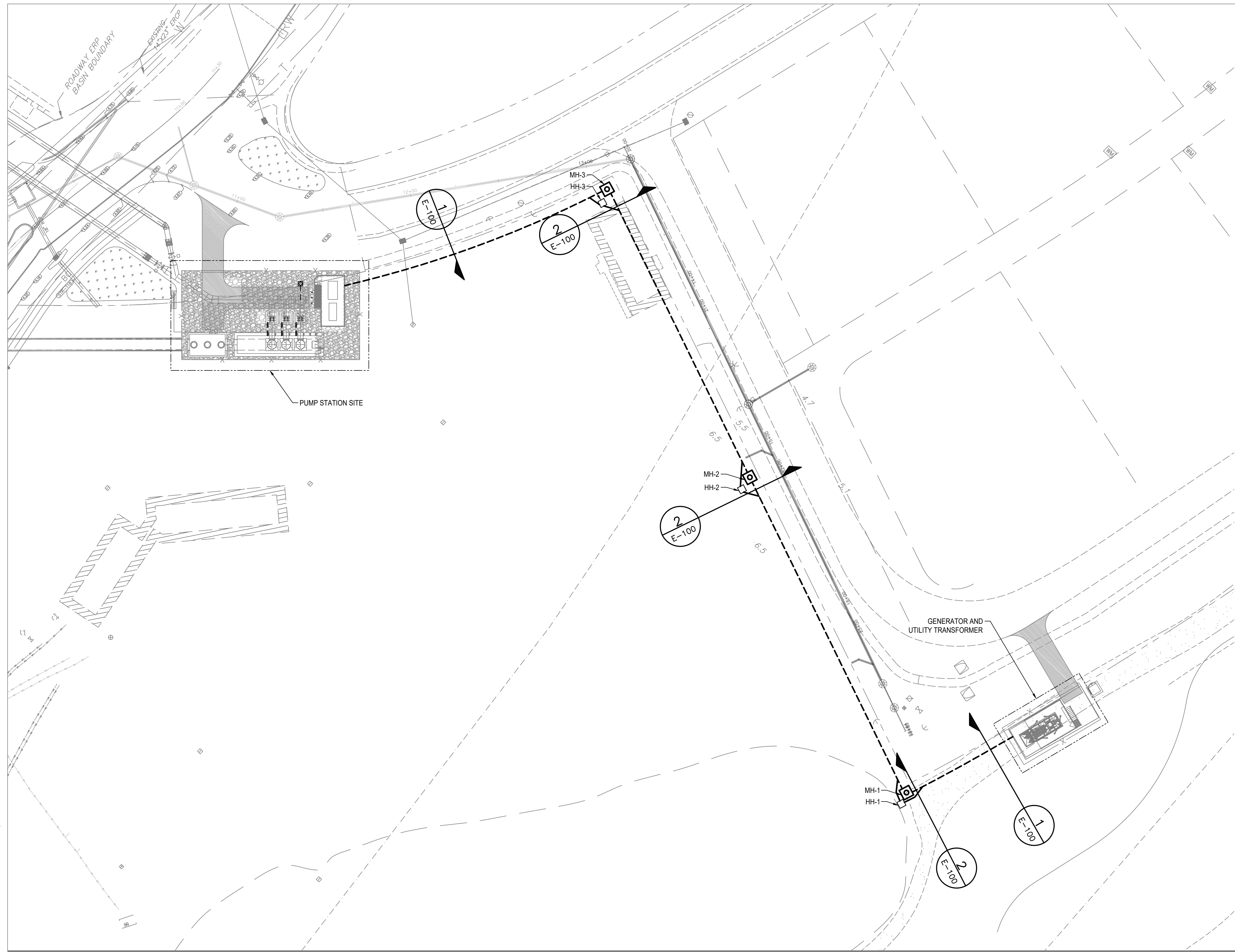
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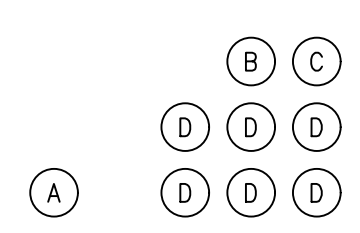


GENERAL NOTES:

- A. ALL MEASURES SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED SHALL BE REPAIRED AT THE CONTRACTOR'S COST.



A=2" (SIGNAL WIRING)
 B=2" (CONTROLS WIRING)
 C=2" (GENSET LOAD CENTER POWER)
 D=5" (SWITCHBOARD POWER WIRING)



A=2" (SIGNAL WIRING)
 B=2" (CONTROLS WIRING)
 C=2" (GENSET LOAD CENTER POWER)
 D=5" (SWITCHBOARD POWER WIRING)

1 DUCTBANK SECTION

2 DUCTBANK SECTION

MANHOLE AND HANDHOLE SCHEDULE

NAME	INTERNAL DIM.	DUTY	LETTERING	
			LINE 1	LINE 2
MH-1	6'X6'X6'	POWER/CONTROLS WIRING	MH-1	ELECTRIC
HH-1	2'X2'X3'	SIGNAL WIRING	HH-1	SIGNAL
MH-2	6'X6'X6'	POWER/CONTROLS WIRING	MH-2	ELECTRIC
HH-2	2'X2'X3'	SIGNAL WIRING	HH-2	SIGNAL
MH-3	6'X6'X6'	POWER/CONTROLS WIRING	MH-3	ELECTRIC
HH-3	2'X2'X3'	SIGNAL WIRING	HH-3	SIGNAL
HH-4	4'X4'X4'	PUMP CABLES	HH-4	ELECTRIC


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 2021/07/27 3:44 AM By: Lewis, Jerrad

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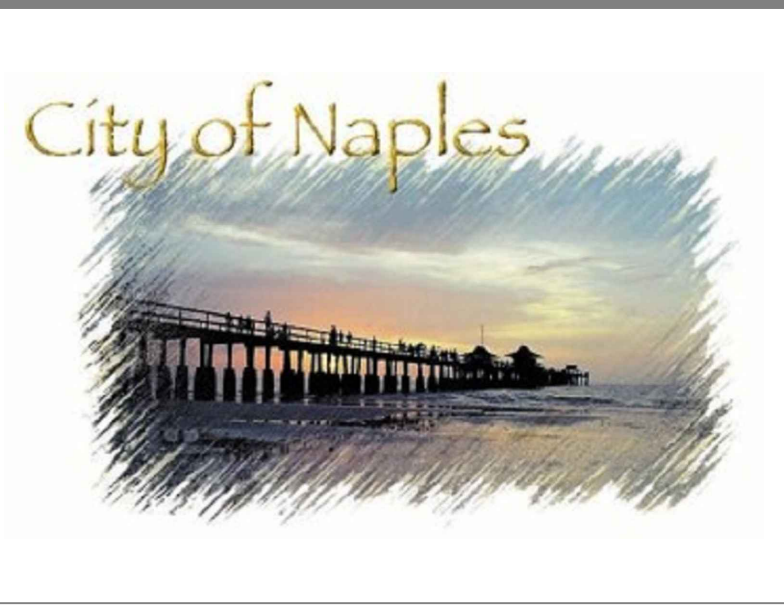
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Title

ELECTRICAL OVERALL SITE PLAN

Project No.
177310606

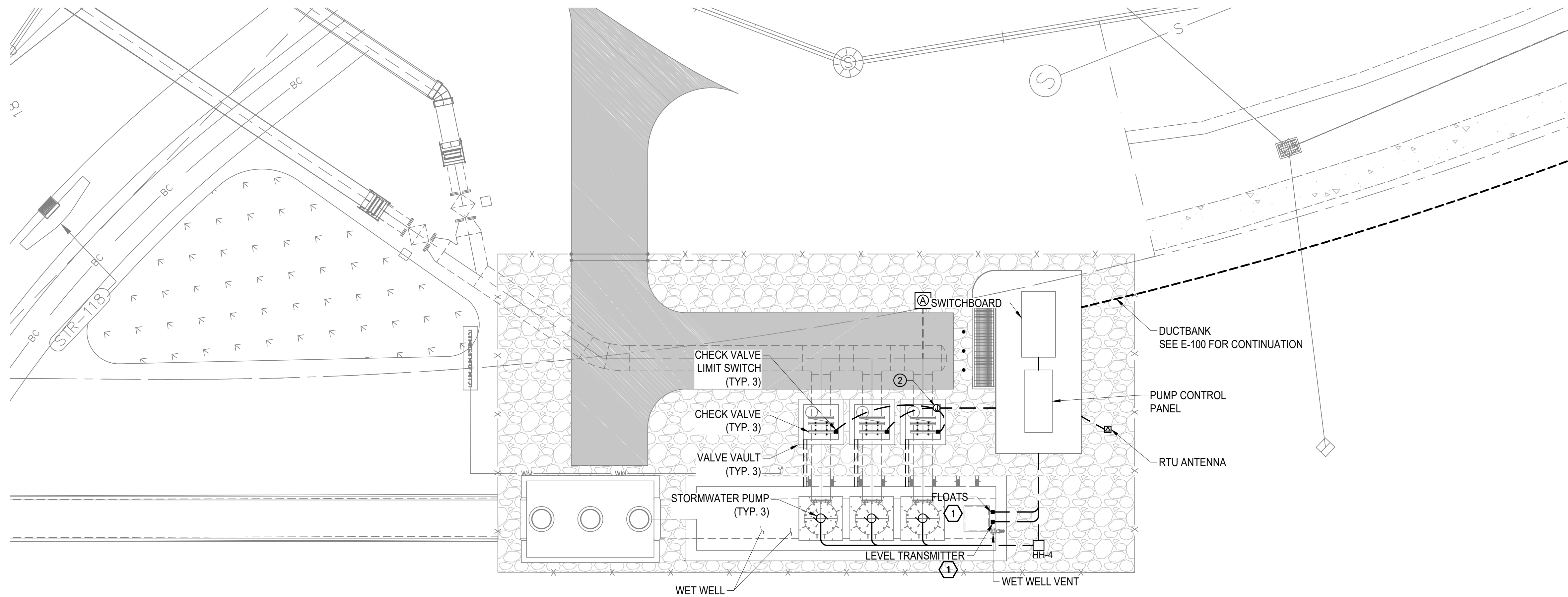
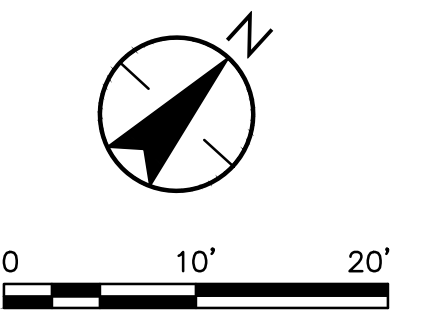
Scale
1" = 30'

Revision

Sheet

Drawing No.
E-100

X of X



GENERAL NOTES:

- A. THIS DRAWING IS DIAGRAMMATIC IN NATURE TO CONVEY DESIGN INTENT. MULTIPLE CONDUITS IN THE SAME TRENCH/DUCTBANK ARE REPRESENTED AS SINGLE LINE. COORDINATE REQUIREMENTS WITH ONE-LINE AND INSTRUMENTATION DIAGRAMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO ENSURE NO CONFLICTS BEFORE INSTALLING CONDUIT.
- B. CONDUITS INSTALLED UNDER ROADWAYS AND DRIVEWAYS SHALL BE ENCASED IN CONCRETE.
- C. USE APPROPRIATE MATERIALS AND WIRING METHODS FOR ALL WORK IN CLASSIFIED AREAS.

KEYED NOTES:

- 1. REFER TO CIVIL DETAIL FOR INSTRUMENT PORT.
- 2. FURNISH AND INSTALL WALL MOUNTED JUNCTION BOX IN VALVE VAULT. JUNCTION BOX SHALL BE RATED FOR SUBMERSION.

HAZARDOUS AREA CLASSIFICATION:

HAZARDOUS AREA CLASSIFICATIONS HAVE BEEN ASSIGNED AS LISTED BELOW IN ACCORDANCE WITH 2020 NFPA 820.

CLASS 1, DIVISION 1, GROUP D:
- NOT APPLICABLE

CLASS 1, DIVISION 2, GROUP D:
- ENTIRE WET WELL INTERIOR SPACE (TABLE 4.2.2, ROW 4)
- VALVE VAULT INTERIOR SPACE (TABLE 4.2.2, ROW 29, LINE a)
- 3-FOOT RADIUS AROUND WET WELL VENT (FIGURE A.4.2(a))

UNCLASSIFIED:
- ALL LOCATIONS NOT COVERED ABOVE.

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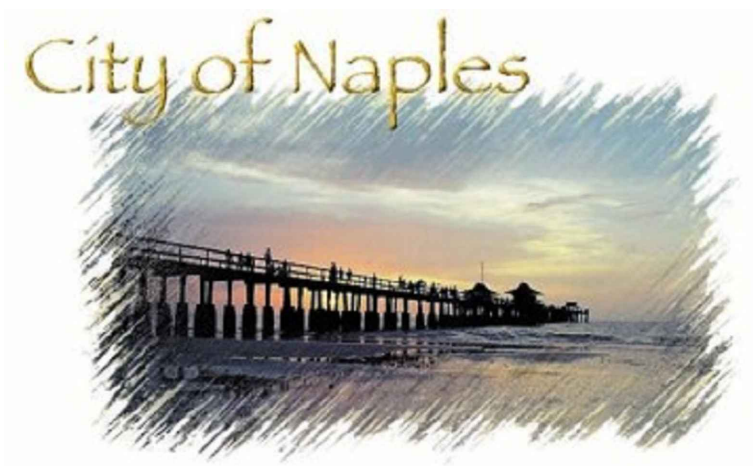
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Title
**ELECTRICAL
 PUMP STATION SITE PLAN**

Project No.
177310606

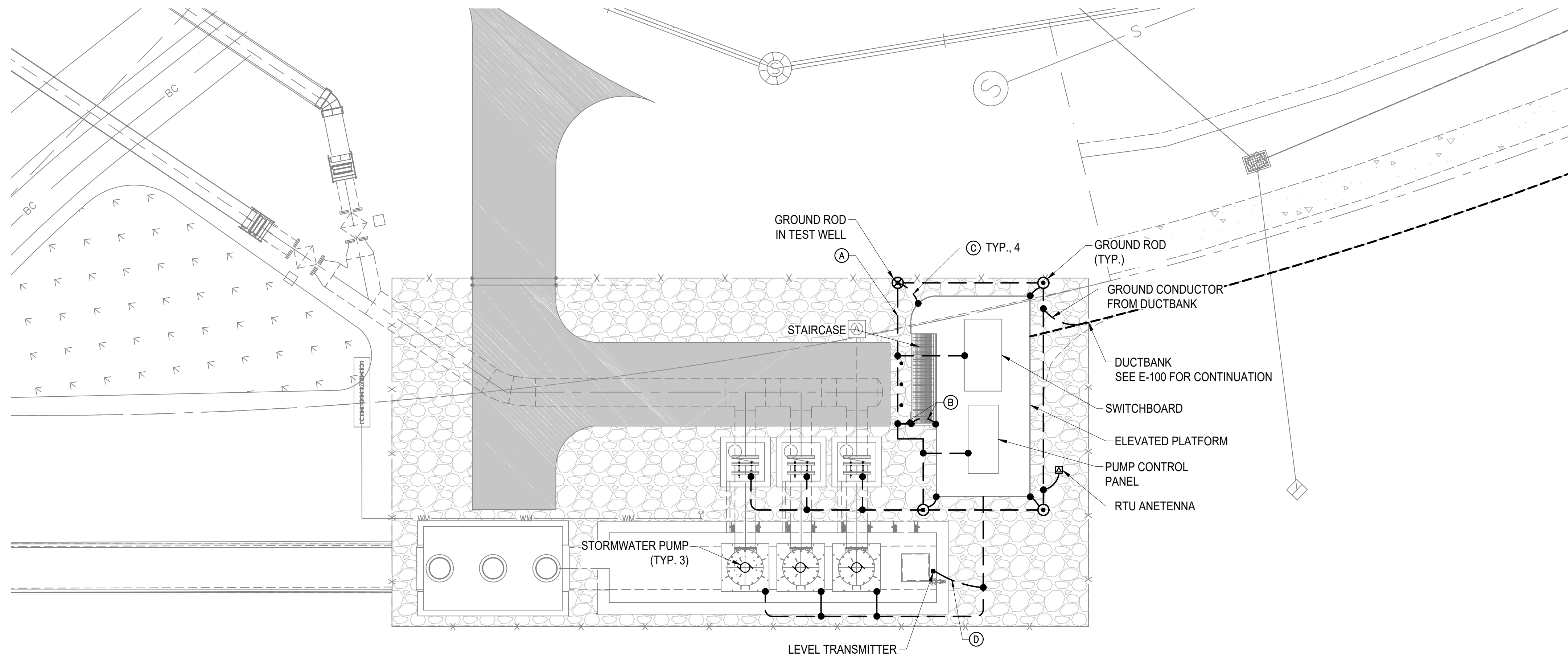
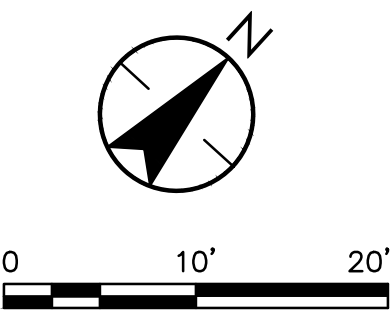
Revision

Scale
1" = 10'

Sheet

Drawing No.
E-101

X of X



GENERAL NOTES

1. ALL METALLIC PARTS SHALL BE BONDED TO GROUND IN ACCORDANCE WITH THE NEC.
2. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #2/0 AWG BARE, STRANDED, THINNED COPPER WIRE UNLESS OTHERWISE INDICATED.
3. CONCRETE-EMBEDDED PORTIONS OF ALL GROUND CONNECTIONS SHALL BE ROUTED IN 1" PVC CONDUIT.

KEYED NOTES

- A. #2/0 AWG GROUNDING RING. INSTALL 30" BELOW GRADE, MIN.
- B. GROUND STAIRCASE AS SHOWN. PROVIDE BONDING JUMPERS AT DISCONTINUITIES IN THE STAIRCASE RAILING SYSTEM AS REQUIRED FOR A COMPLETELY BONDED STAIRCASE/RAILING INSTALLATION.
- C. GROUNDING CONNECTION TO LOWERMOST REBAR IN PLATFORM FOOTER. USE EXOTHERMIC CONNECTION.
- D. #6 AWG GROUNDING CONNECTION.

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 2021/07/27 3:42 AM By: Jrcad

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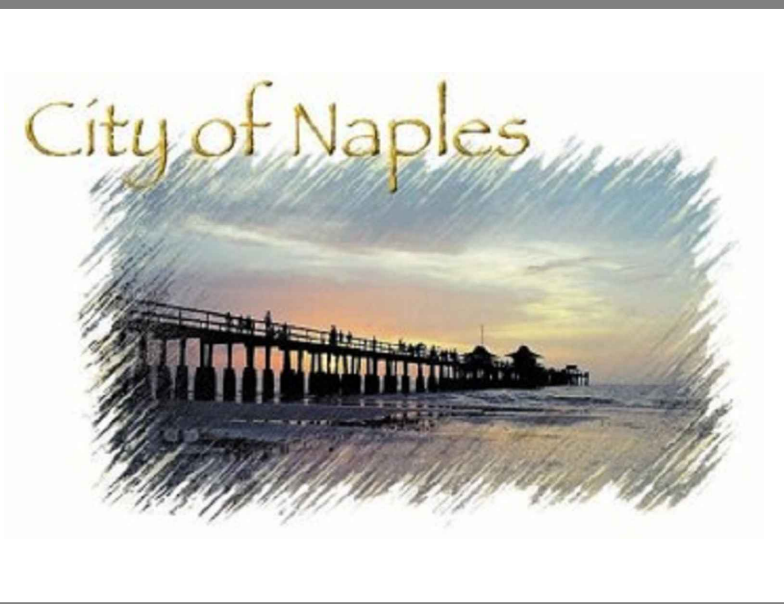
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Naples Beach Restoration
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File Name: 10606_E-102.dwg



Title

**ELECTRICAL
PUMP STATION GROUNDING PLAN**

Project No.
177310606

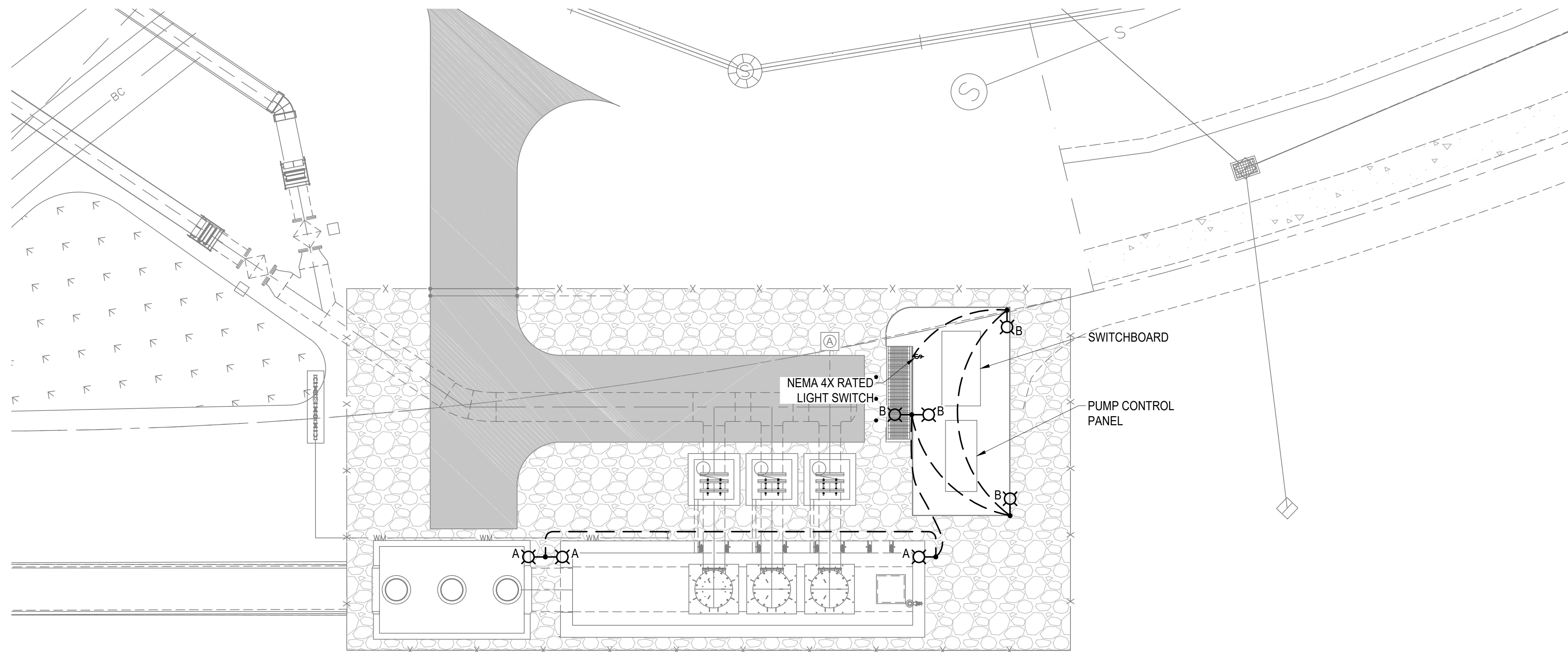
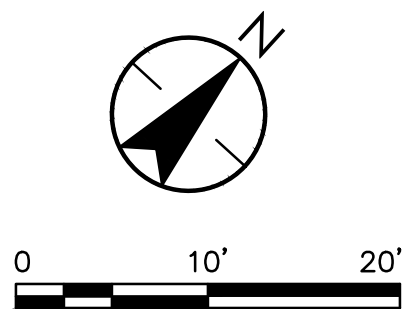
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1" = 10'

Revision

Sheet

Drawing No.
E-102

X of X



LUMINAIRE SCHEDULE

TAG	MAKE	MODEL	POWER	MOUNTING	NOTES
A	LITHONIA	DSX2 LED P8 40K TFTM MVOLT HS DDBXD	448W	15' SQUARE POLE, DIRECT-BURIED	LIGHT POLE COLOR SHALL MATCH THAT OF FIXTURE
B	LITHONIA	DSX0 LED P7 40K TFTM MVOLT HS DDBXD	166W	10' SQUARE POLE WITH SQUARE MOUNTING BASE	LIGHT POLE COLOR SHALL MATCH THAT OF FIXTURE

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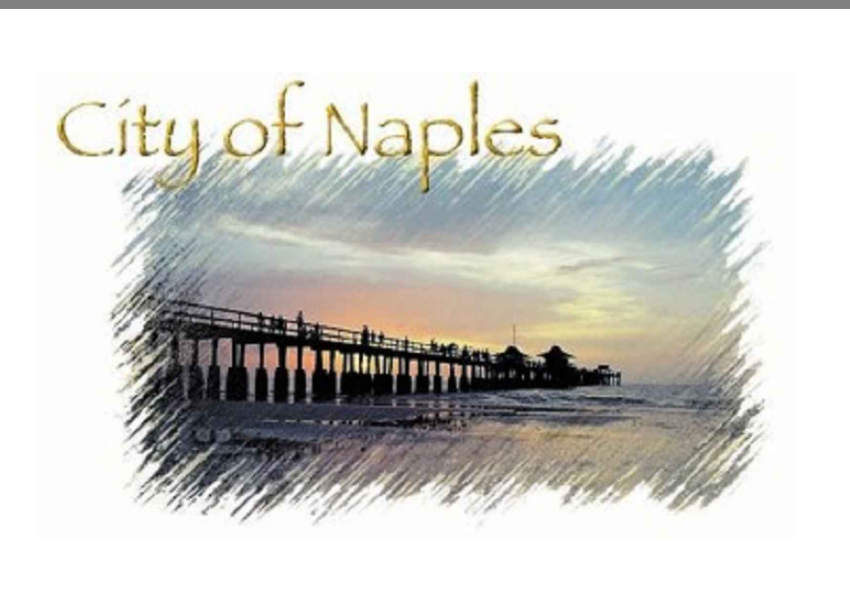
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File Name: 10606_E-103.dwg



Title

**ELECTRICAL
PUMP STATION LIGHTING PLAN**

Project No.
177310606

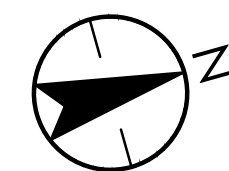
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Revision

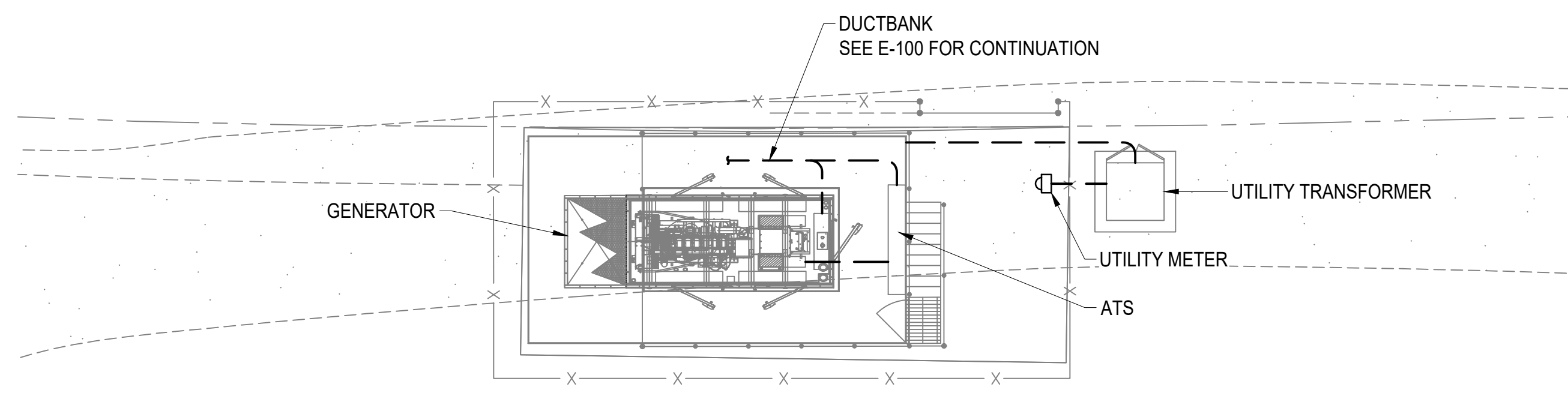
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Drawing No.
E-103

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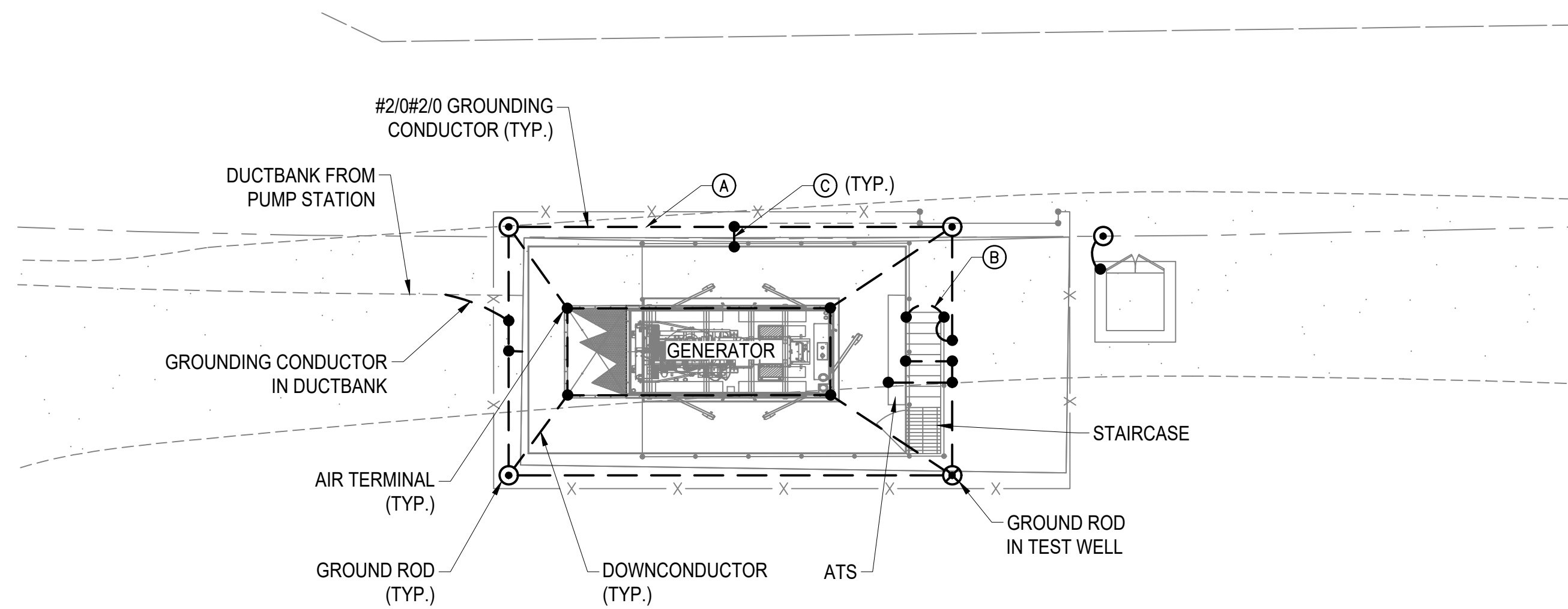
0 10' 20'



POWER PLAN

GENERAL NOTES:

- A. THIS DRAWING IS DIAGRAMMATIC IN NATURE TO CONVEY DESIGN INTENT. MULTIPLE CONDUITS IN THE SAME TRENCH/DUCTBANK ARE REPRESENTED AS SINGLE LINE. COORDINATE REQUIREMENTS WITH ONE-LINE, AND INSTRUMENTATION DIAGRAMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO ENSURE NO CONFLICTS BEFORE INSTALLING CONDUIT.
- B. FURNISH AND INSTALL PRIMARY ELECTRICAL CONDUIT IN ACCORDANCE WITH FP&L STANDARDS. FP&L WILL FURNISH, INSTALL, AND TERMINATE PRIMARY CABLES.
- C. FP&L WILL FURNISH TRANSFORMER PAD FOR CONTRACTOR TO INSTALL. FP&L WILL FURNISH AND INSTALL TRANSFORMER.



GROUNDING PLAN

GENERAL NOTES

- 1. FURNISH AND INSTALL LIGHTNING PROTECTION SYSTEM, PER SPECIFICATIONS.
- 2. ALL METALLIC PARTS SHALL BE BONDED TO GROUND IN ACCORDANCE WITH THE NEC.
- 3. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE #2/0 AWG BARE, STRANDED, THINNED COPPER WIRE UNLESS OTHERWISE INDICATED.
- 4. CONCRETE-EMBEDDED PORTIONS OF ALL GROUND CONNECTIONS SHALL BE ROUTED IN 1" PVC CONDUIT.

KEYED NOTES

- A. #2/0 AWG GROUNDING RING. INSTALL 30" BELOW GRADE, MIN.
- B. GROUND STAIRCASE AS SHOWN. PROVIDE BONDING JUMPERS AT DISCONTINUITIES IN THE STAIRCASE RAILING SYSTEM AS REQUIRED FOR A COMPLETELY BONDED STAIRCASE/RAILING INSTALLATION.
- C. GROUNDING CONNECTION TO LOWERMOST REBAR IN PLATFORM FOOTER. USE EXOTHERMIC CONNECTION.

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 2021/07/27 3:57 AM By: Lewis, Jerrad

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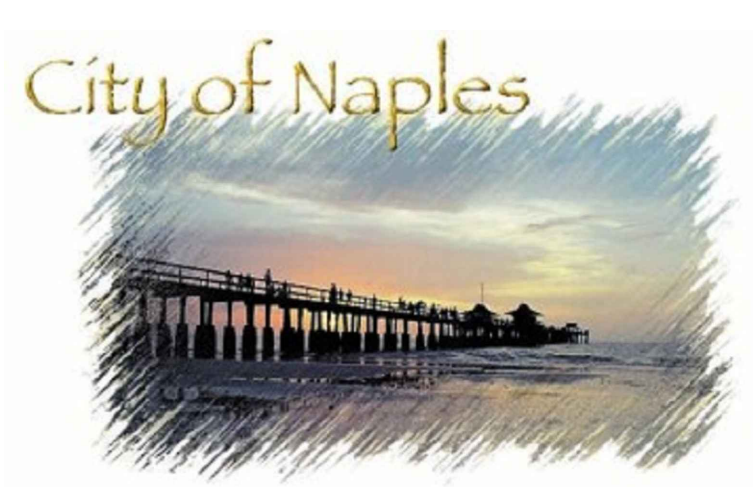
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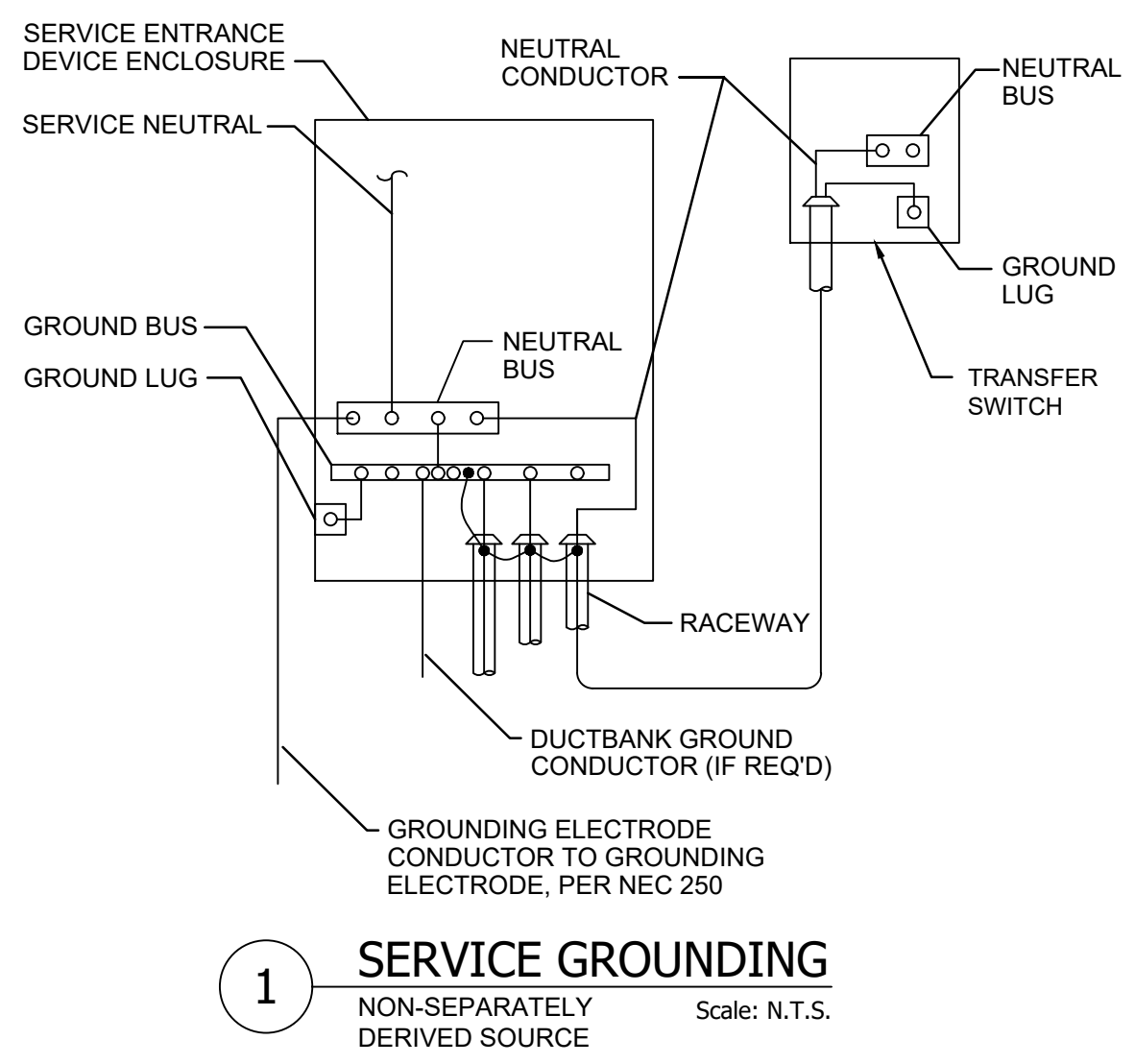


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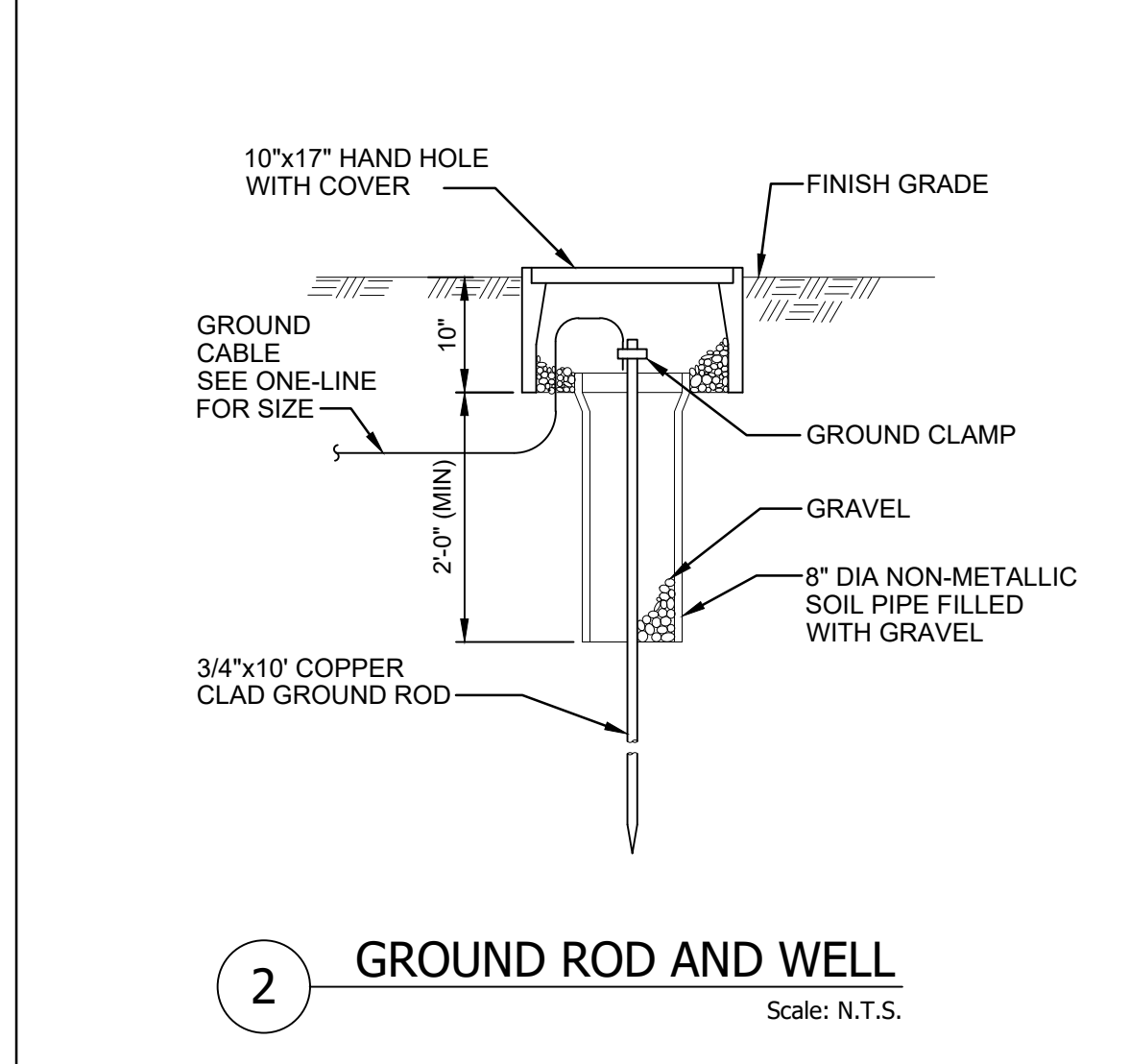
**ELECTRICAL
GENERATOR SITE PLAN**

Project No. 177310606	Scale 1" = 10'
Revision	Sheet
	X of X

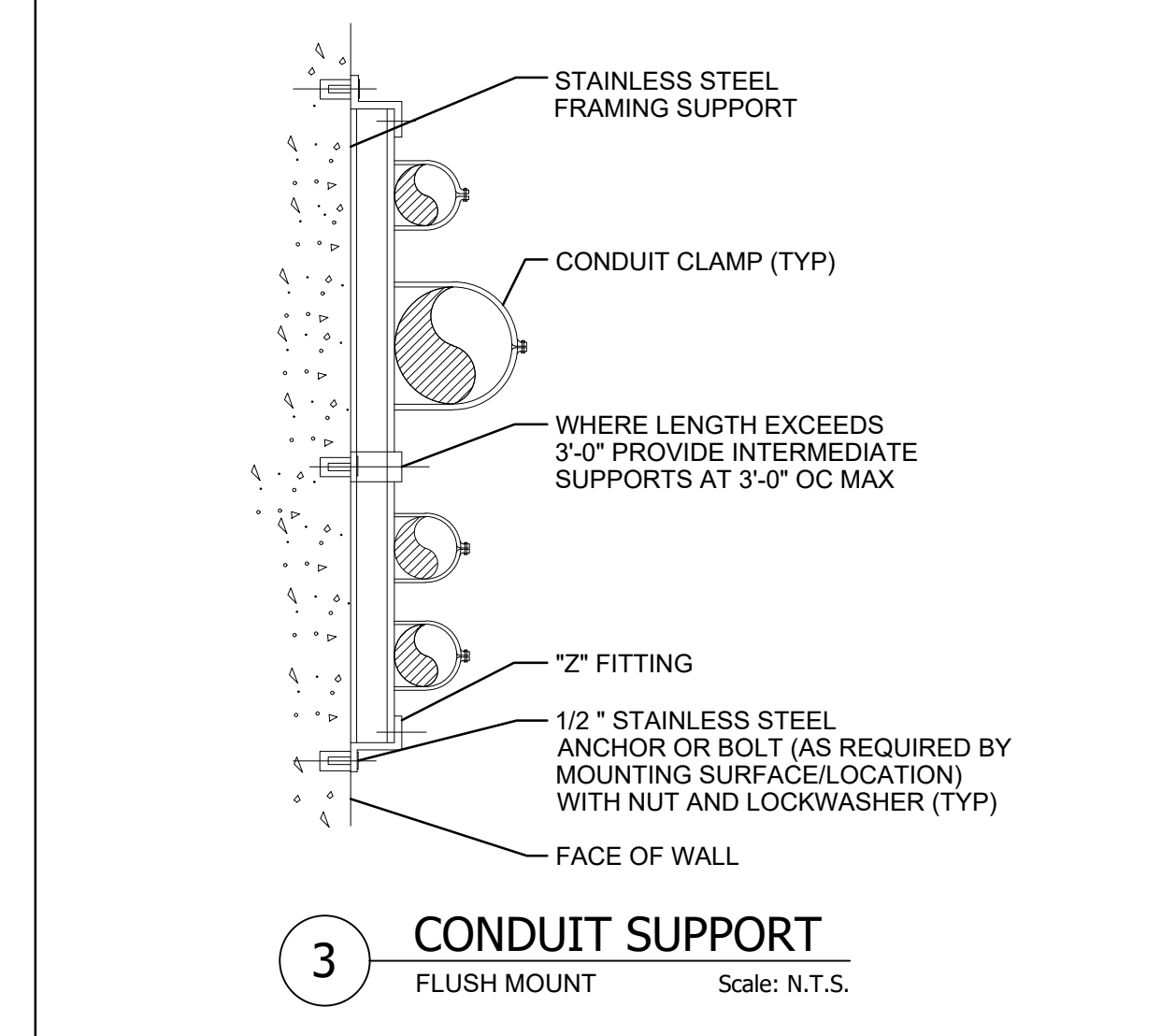
Drawing No.
E-104



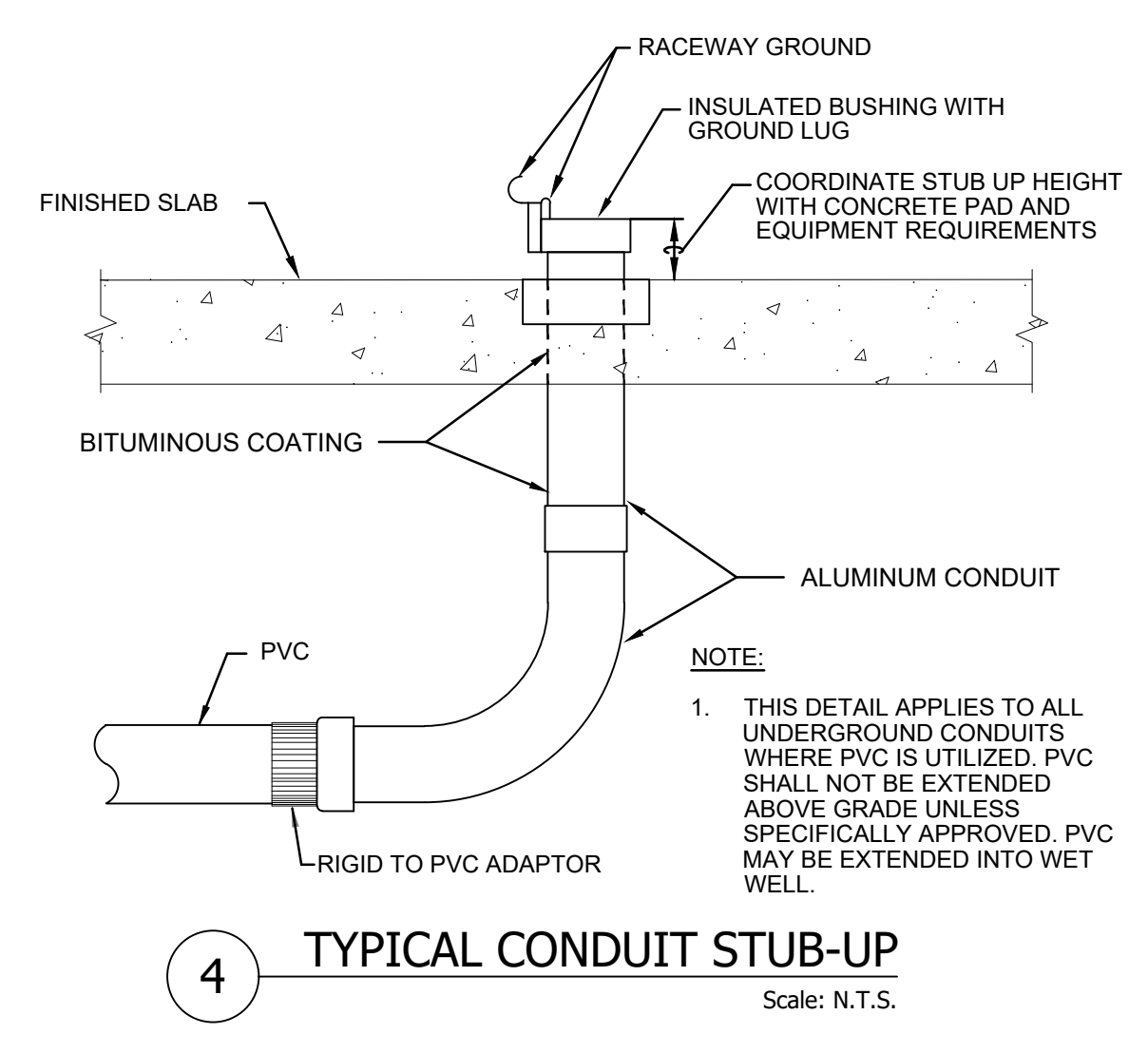
1 SERVICE GROUNDING
NON-SEPARATELY DERIVED SOURCE
Scale: N.T.S.



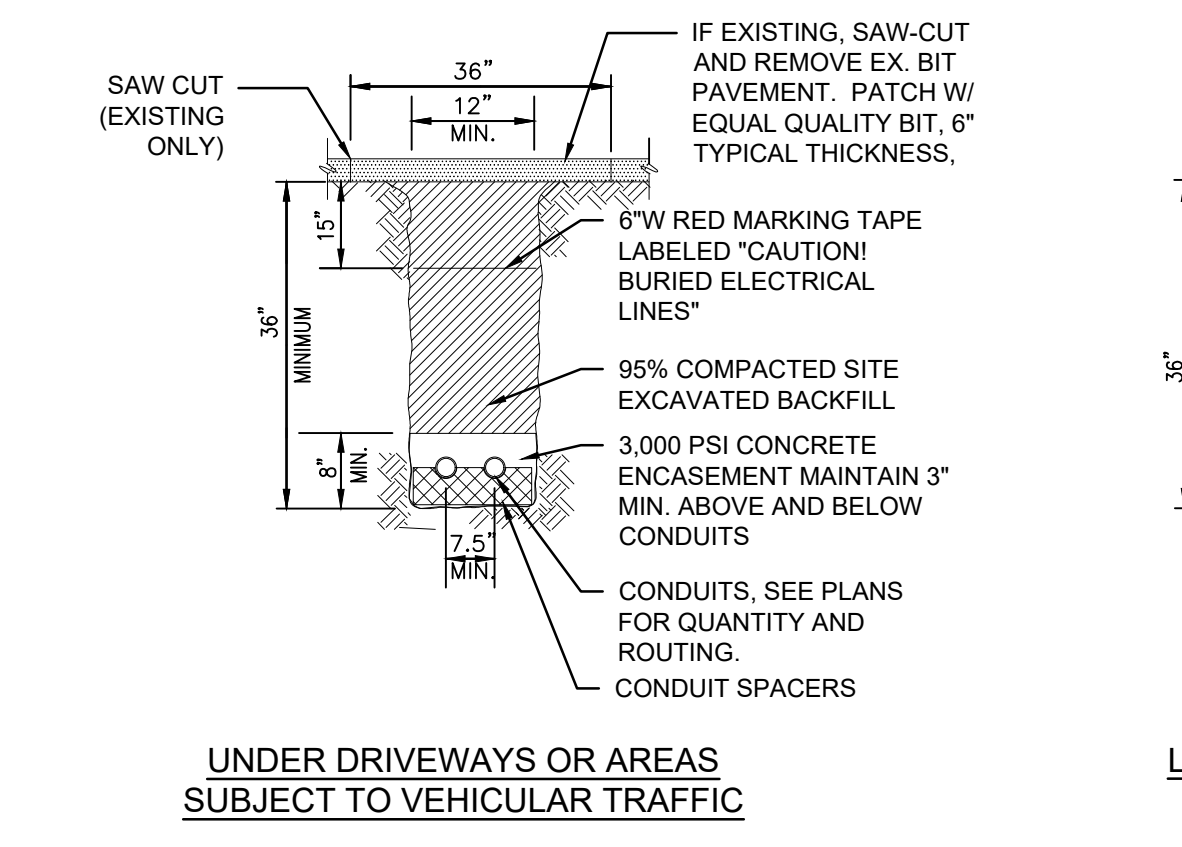
2 GROUND ROD AND WELL
Scale: N.T.S.



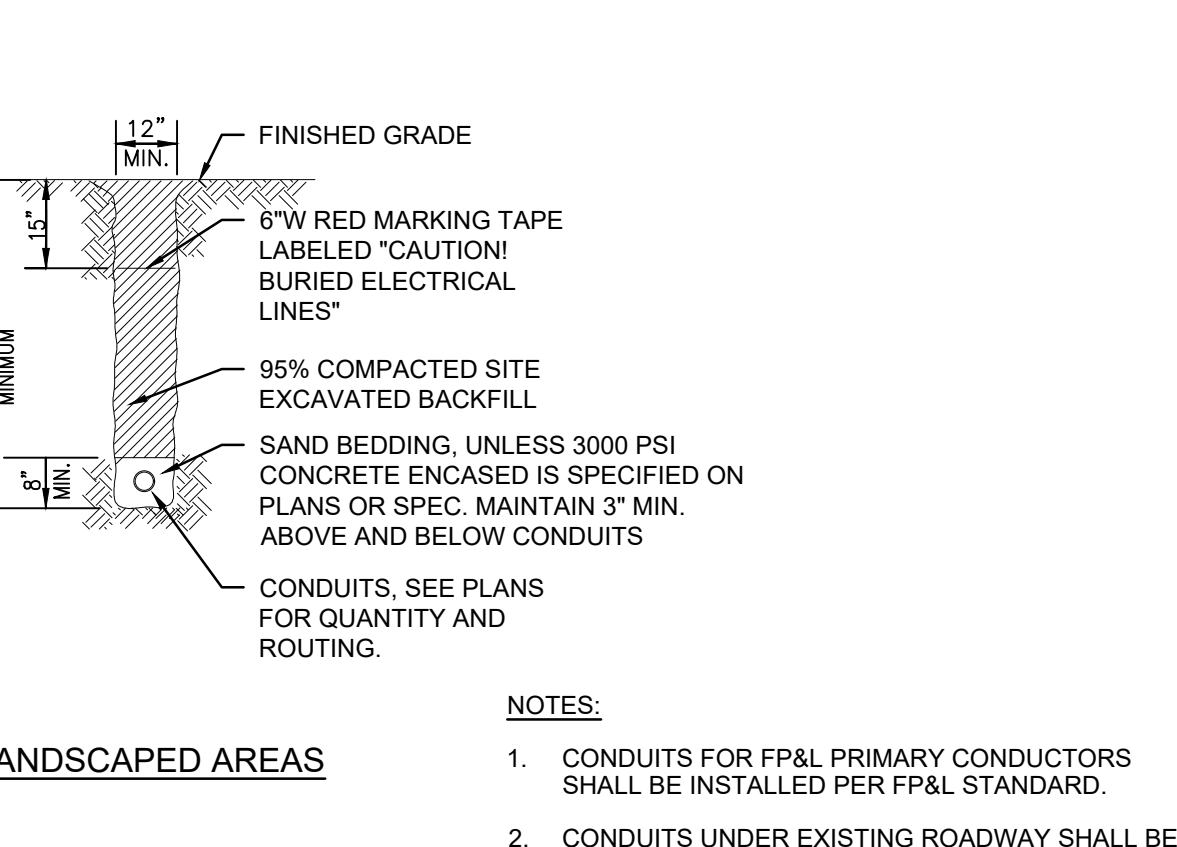
3 CONDUIT SUPPORT
FLUSH MOUNT
Scale: N.T.S.



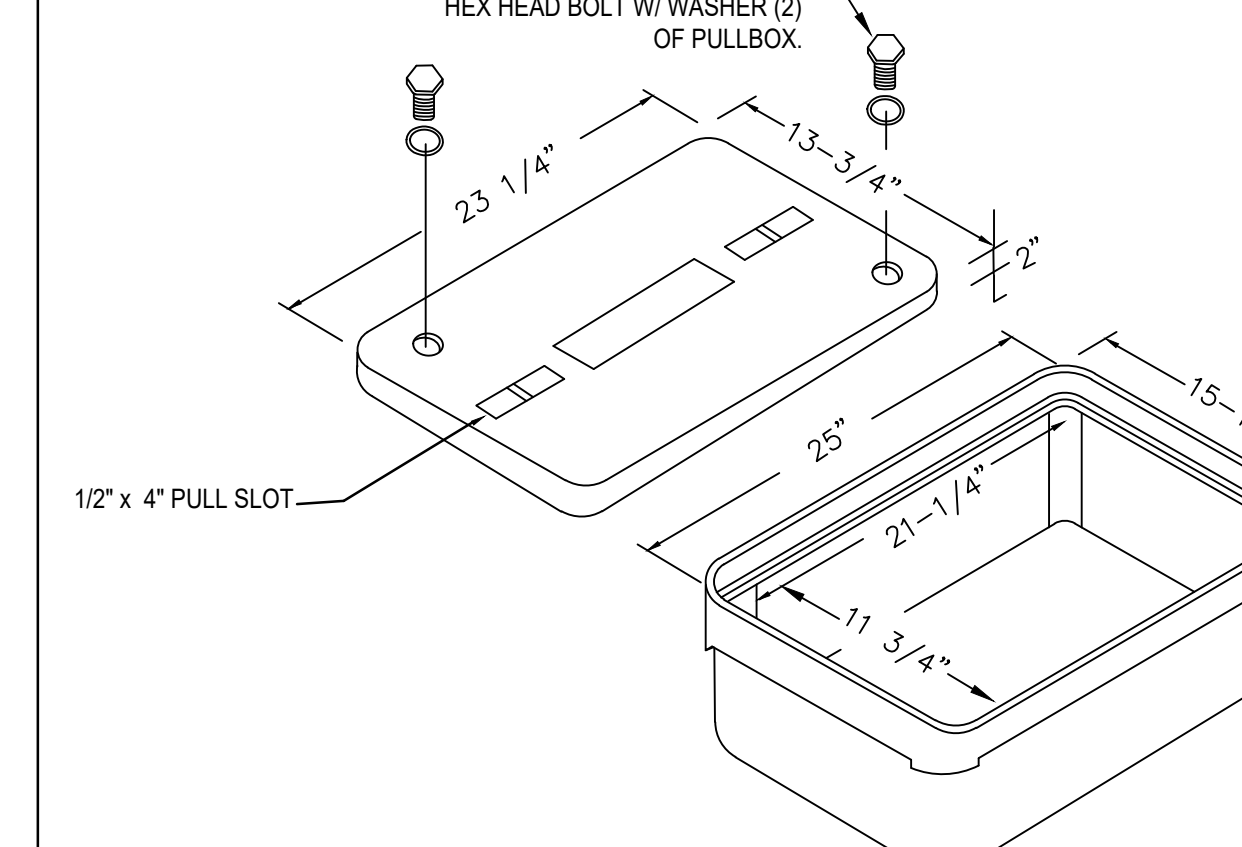
4 TYPICAL CONDUIT STUB-UP
Scale: N.T.S.



5 TYPICAL CONDUIT TRENCH
Scale: N.T.S.

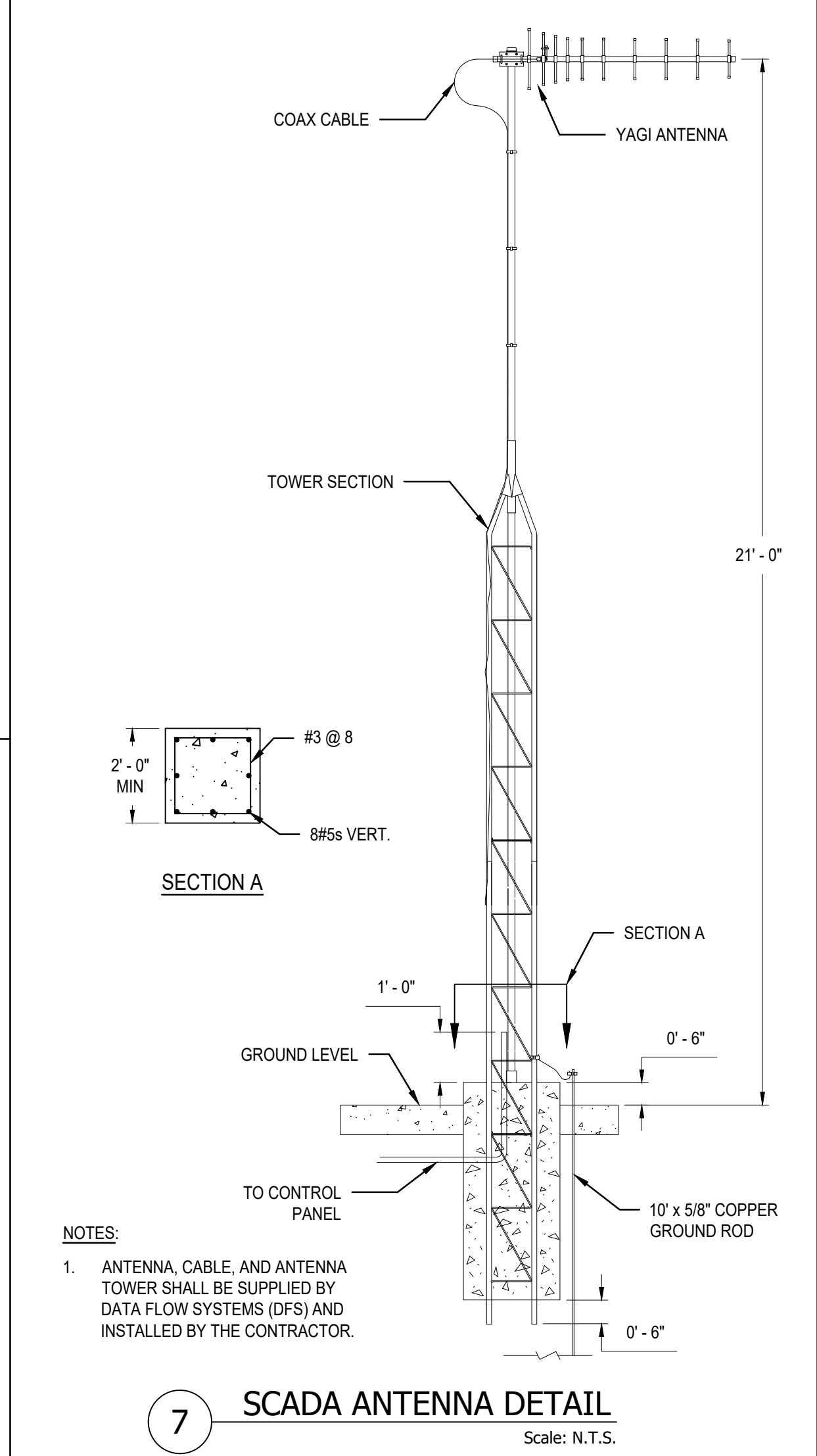


5 TYPICAL CONDUIT TRENCH
Scale: N.T.S.

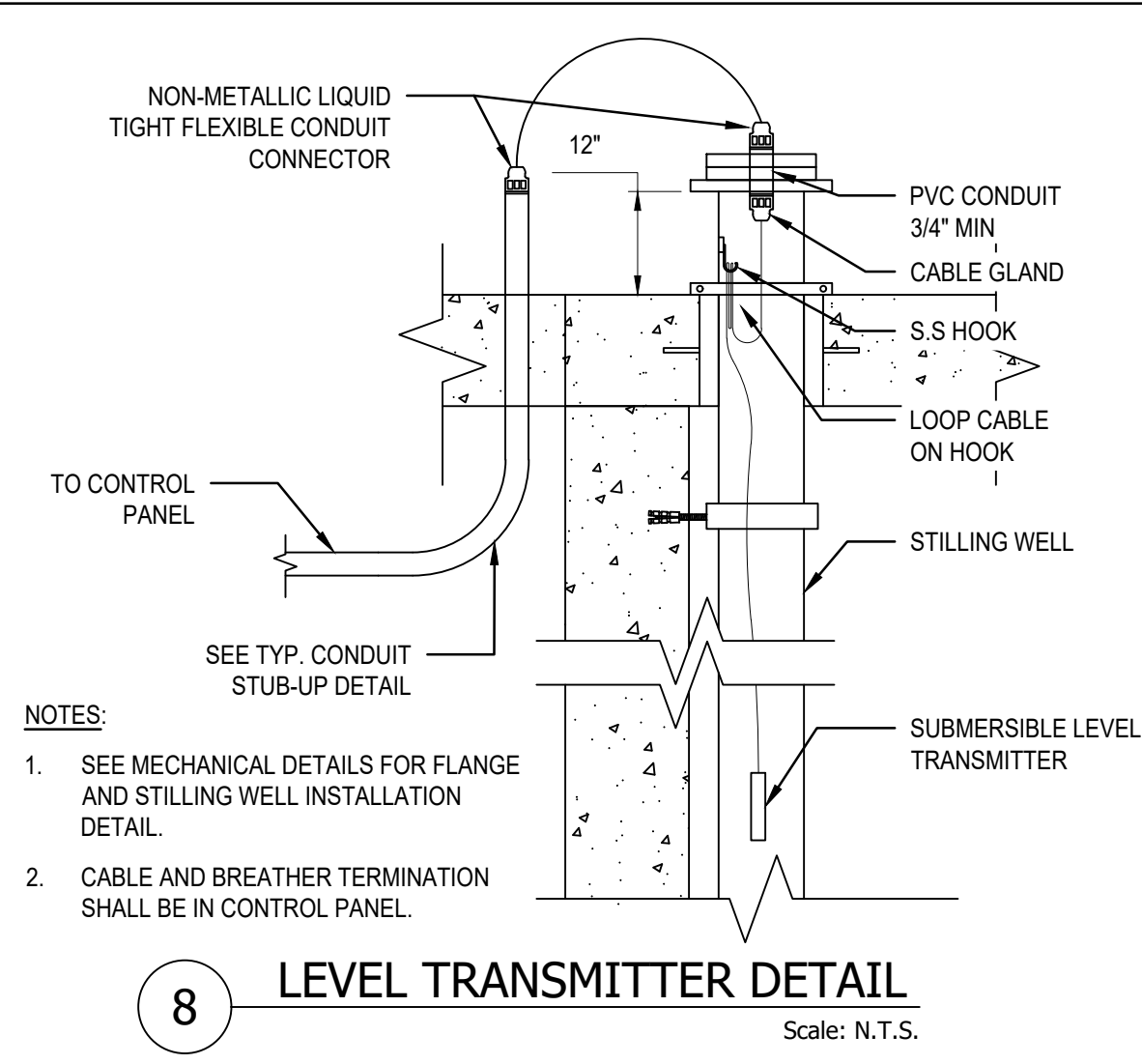


6 TYPICAL PULL BOX \ HAND HOLE DETAIL
Scale: N.T.S.

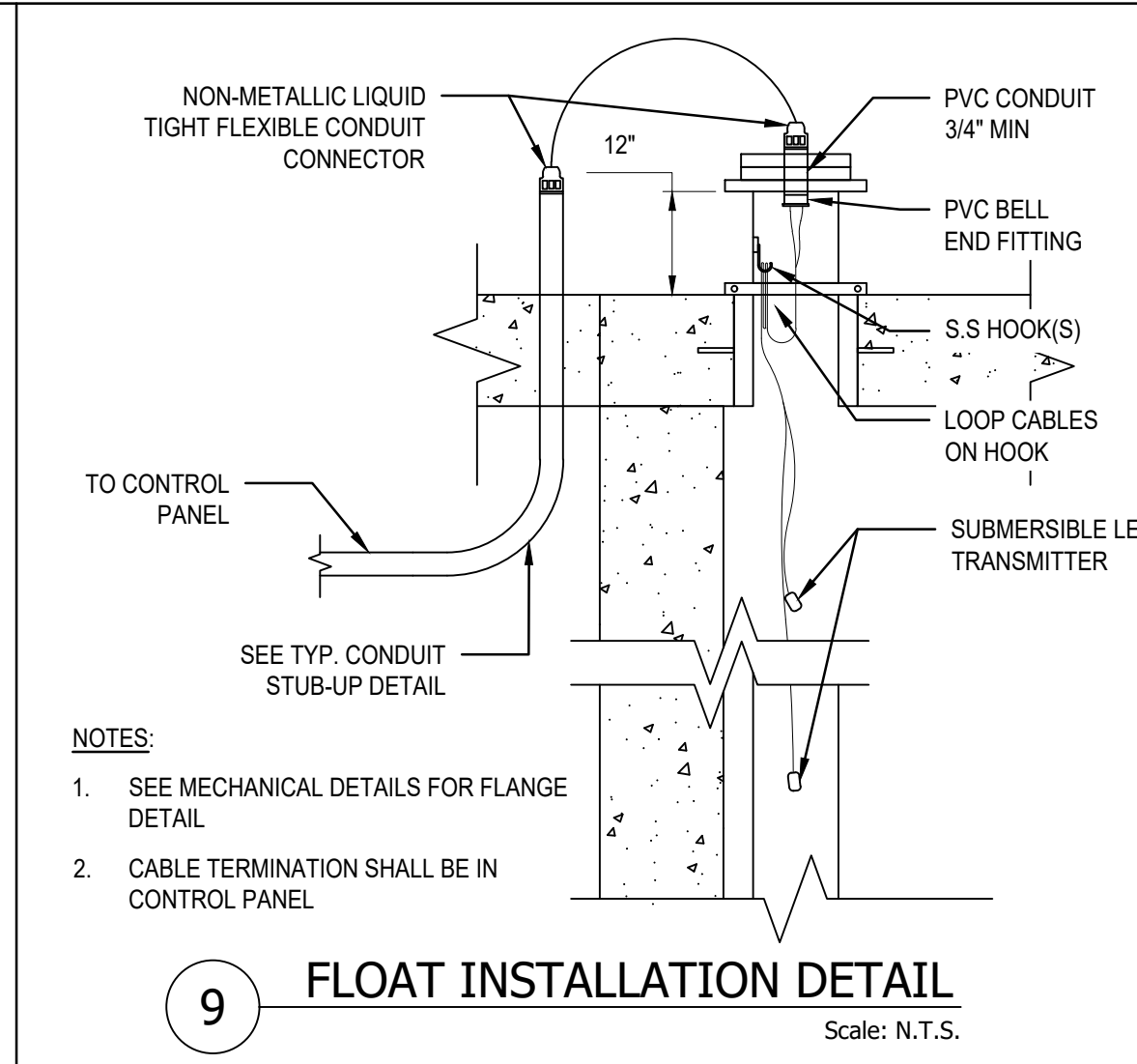
- NOTES:**
1. THE DIMENSIONS HEREIN ARE TYPICAL. PULL BOXES SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314, BASED ON THE QUANTITY, SIZE AND CONFIGURATION OF CONDUITS ENTERING THE BOX.
 2. ALL PULL BOXES SHALL HAVE AN OPEN-BOTTOM, QUAZITE POLYMER CONCRETE DESIGN WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY EIGHT (28) DAYS. POLYMER CONCRETE PULL BOX SHALL BE QUAZITE PRODUCT NO. PG1324BA12 OR APPROVED EQUIVALENT.
 3. ALL PULL BOX COVERS FURNISHED AND INSTALLED SHALL BE POLYMER CONCRETE QUAZITE PRODUCT NO. PG1324HH00 TIER 22, OR APPROVED EQUIVALENT.
 4. PULL BOXES, JUNCTION BOXES, AND ALL ELECTRICAL WORK MUST CONFORM TO N.E.C. (LATEST REQUIREMENTS), AND THE NATIONAL ELECTRICAL SAFETY CODE.
 5. PULL BOXES FOR FP&L SERVICE CONDUCTORS SHALL BE IN ACCORDANCE WITH FP&L STANDARDS



7 SCADA ANTENNA DETAIL
Scale: N.T.S.



8 LEVEL TRANSMITTER DETAIL
Scale: N.T.S.



9 FLOAT INSTALLATION DETAIL
Scale: N.T.S.

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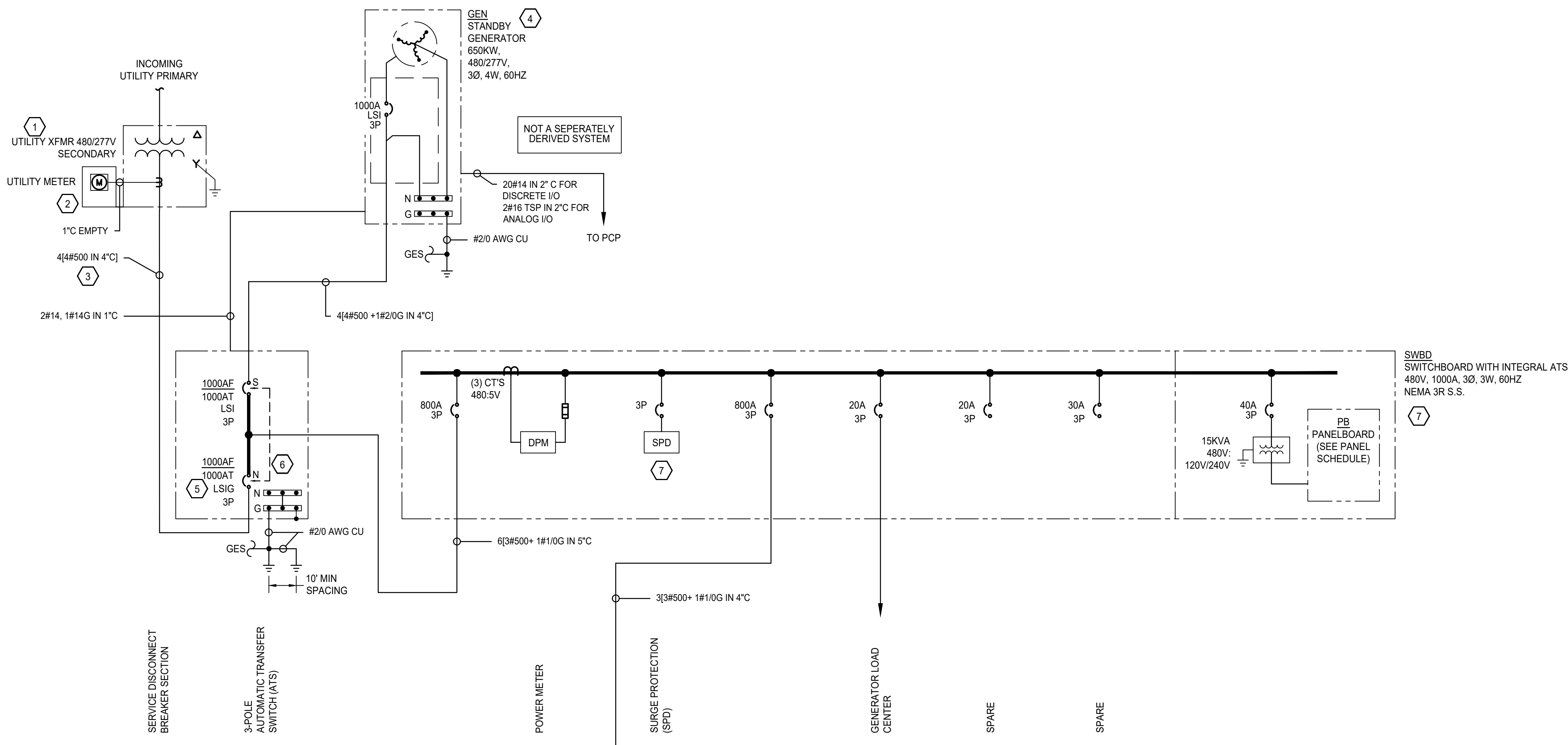
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File Name: 10606_E-501.dwg

DLS	JN	BCB	2018.03
Dwn.	Chkd.	Dsgn.	YYYY.MM

Title		
ELECTRICAL DETAILS		

Project No. 177310606	Scale N.T.S.	
Revision	Sheet	Drawing No. E-501
X of		



GENERAL NOTES:

- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES SEE DRAWING E-001.
- ONE-LINE DRAWING IS INTENDED ONLY TO REPRESENT CONNECTED LOADS. CONTRACTOR SHALL REFER TO PANELBOARDS SCHEDULES FOR CIRCUIT BREAKER DESIGNATION AND RATINGS.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE AND LOCAL CODES, WITH COUNTY AMENDMENTS.
- ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE LISTED AND LABELED AS INDICATED WITHIN THEIR RESPECTIVE SPECIFICATION AND AS DEFINED IN ARTICLE 100 OF THE NEC CODE.
- CONTRACTOR TO VERIFY MAXIMUM OVER CURRENT PROTECTION DEVICE SETTINGS WITH ACTUAL EQUIPMENT TO BE INSTALLED. INFORMATION MAY VARY PENDING FINAL SELECTION AND APPROVAL OF MECHANICAL AND PROCESS EQUIPMENT (PUMPS, MIXERS, MOTORS, UNIT HEATERS).
- ALL FEEDERS SHALL BE NEW AND WITHOUT SPLICES.

KEY NOTES:

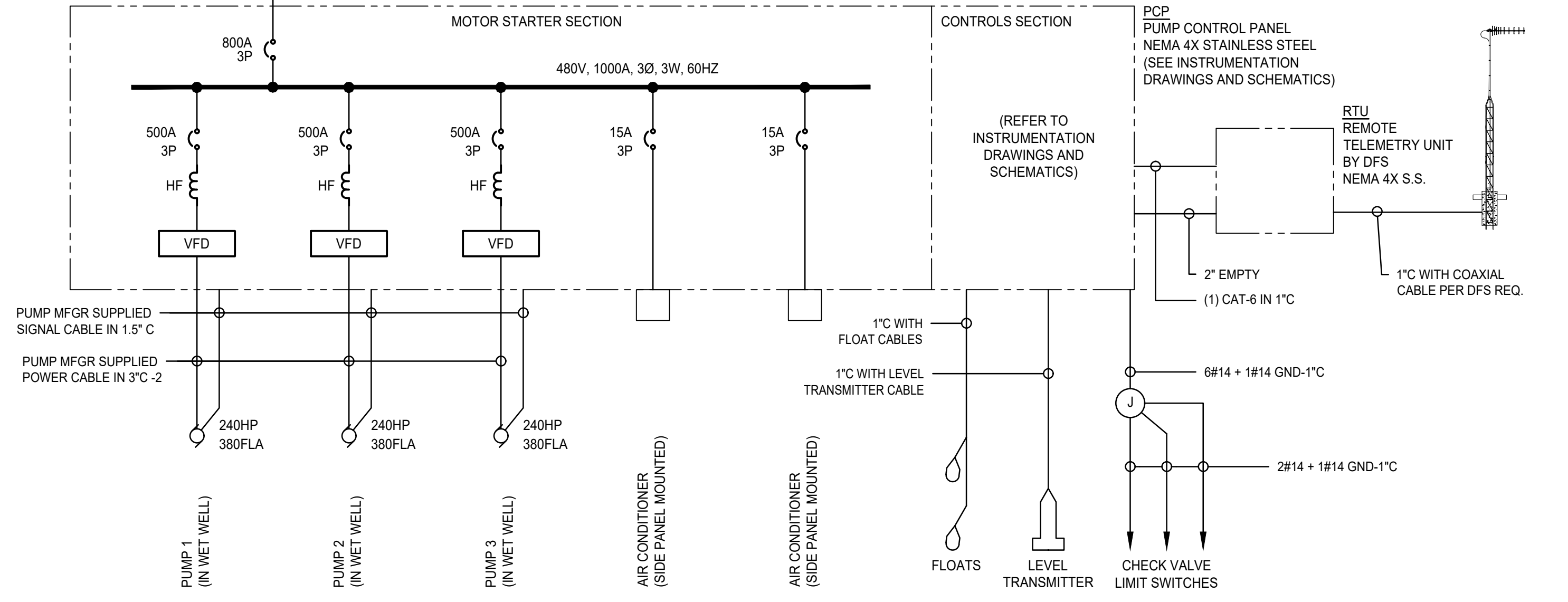
- UTILITY TRANSFORMER, PAD AND TRANSFORMER GROUNDING TO BE PROVIDED BY UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH AND INSTALL METER SOCKET PROVIDE METER SOCKET COORDINATE ALL WORK WITH UTILITY COMPANY.
- SERVICE FEEDER. CONTRACTOR SHALL PROVIDE SECONDARY CONDUIT AND CONDUCTORS. UTILITY TO TERMINATE CONDUCTORS IN TRANSFORMER.
- FURNISH AND INSTALLED GENERATOR IN SOUND ATTENUATED ENCLOSURE.
- BREAKER SHALL INCLUDE GROUND FAULT PROTECTION FOR AND MAINTENANCE MODE FOR FAULT CURRENT REDUCTION.
- MECHANICAL INTERLOCK BETWEEN NORMAL AND STANDBY CIRCUIT BREAKERS IN ATS.
- SWITCHBOARD LINE-UP, AUTOMATIC TRANSFER SWITCH AND PUMP CONTROL PANEL SHALL BE RATED NEMA 3R (MIN), CONSTRUCTED OF STAINLESS STEEL. ASSEMBLIES BE CAPABLE OF WITHSTANDING HURRICANE FORCE WINDS AS REQUIRED BY RISK CATEGORY IV STRUCTURES, PER 2020 FLORIDA BUILDING CODE.

SWBD-1 LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
PCP-1 PUMP CONTROL PANEL	715
PB-1 PANELBOARD	8
TOTAL	723
AMPS@480VAC = 870	

PCP LOAD CALCULATION

DESCRIPTION	HP	LOAD (KVA)
P-101 - PUMP #1	240	312
P-201 - PUMP #2	240	312
P-301 - PUMP #3	240	0
AIR CONDITIONER	-	6
AIR CONDITIONER	-	6
MISC	-	1
25 PERCENT LARGEST MOTOR	-	78
TOTAL		715
AMPS@480VAC = 860		



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Revision	By	Appd.	Y.Y.MM.DD
1	CITY OF NAPLES COMMENTS	BCB	APPROVED 21.06.21

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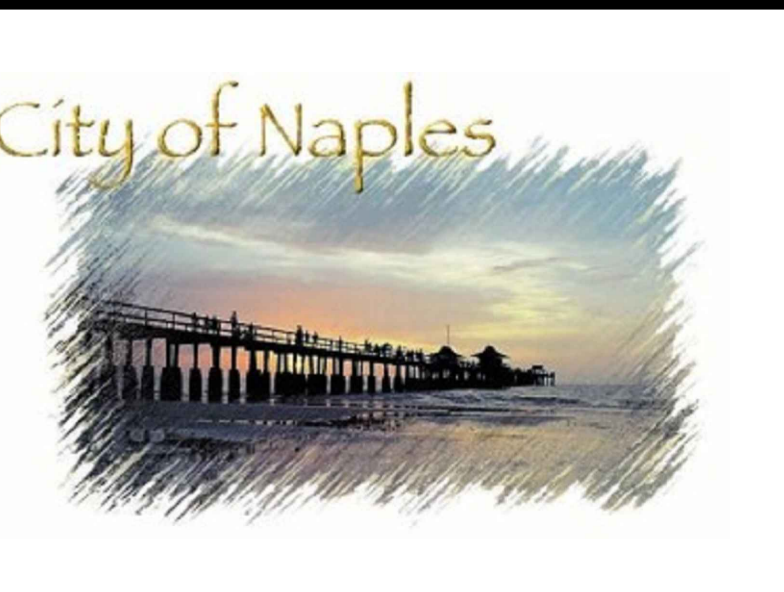
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Dwn.	Chkd.	Dsgn.	YYYY.MM



Title

ELECTRICAL ONE-LINE DIAGRAM

Project No. 177310606	Scale NO SCALE	
Revision	Sheet	Drawing No. E-601

X of

