

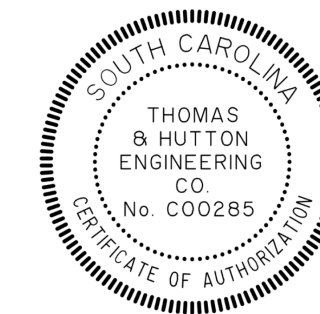


PREPARED FOR:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

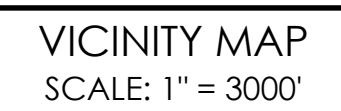
8/19/2024

J-27091.00001

PREPARED BY:



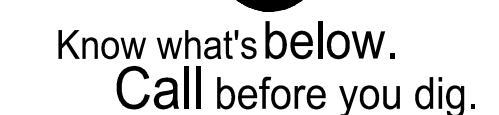
NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

J-Z/091.0001
MULTI-BASIN DRAINAGE IMPROVEMENT

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C2.1FM	PLAN & PROFILE STORMWATER FORECMAIN
C2.2FM	PLAN & PROFILE STORMWATER FORECMAIN
C2.3FM	PLAN & PROFILE STORMWATER FORECMAIN

REVISION HISTORY			
REV. NO.	REVISION	BY	DATE

SUBMITTAL HISTORY	
SUBMITTED TO	DATE



OVERALL SITE PLAN

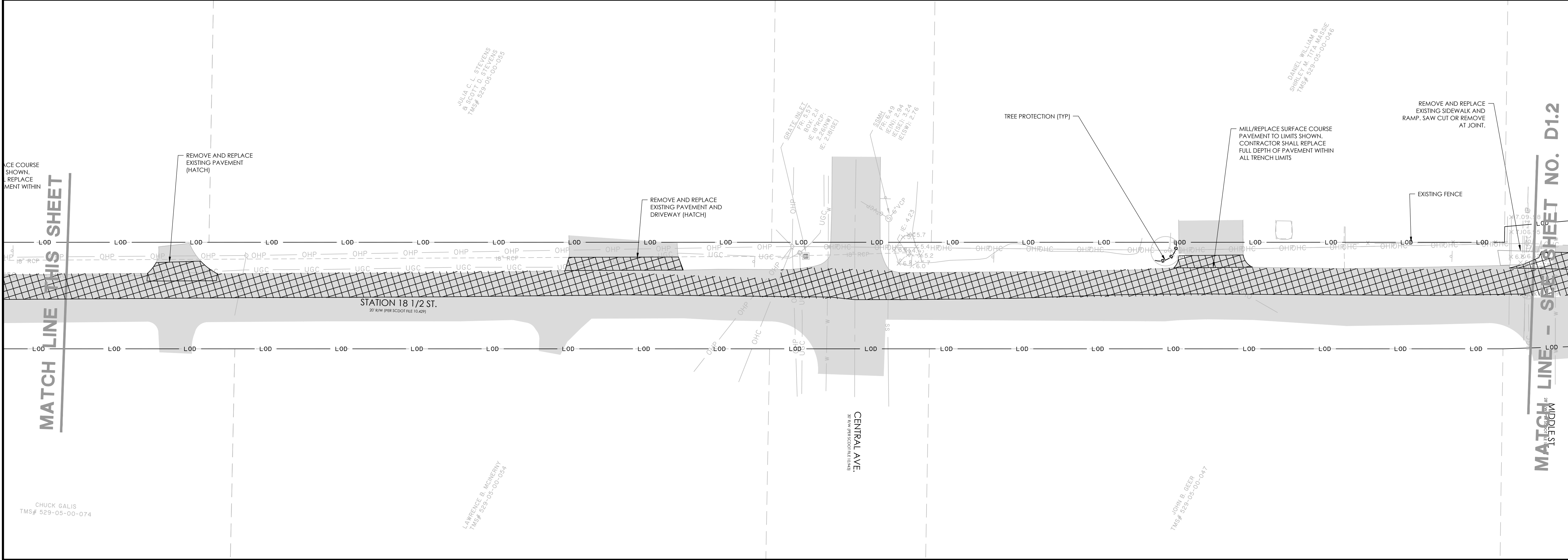
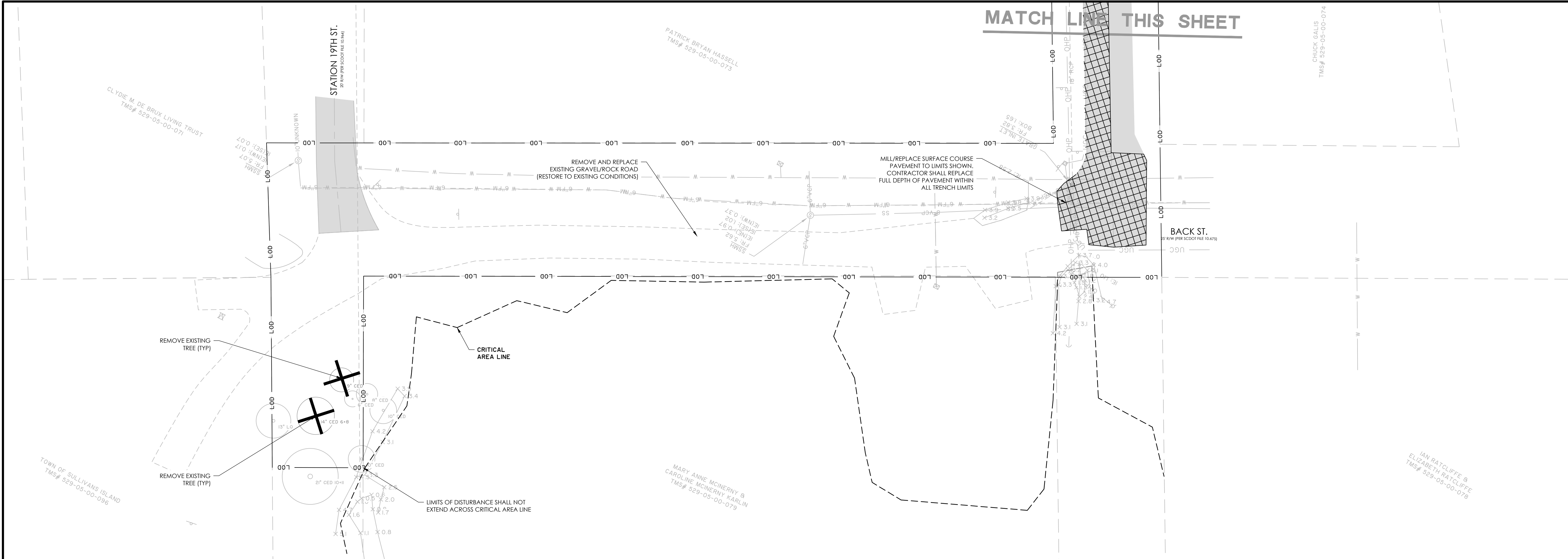
MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



2:37PM 12/29/2020 10:48:00 AM C:\PROJECTS\2020\27091\DWG\27091.DWG, 12/29/2020, 2:37 PM



LEGEND

MILL/REPLACE SURFACE COURSE PAVEMENT

REMOVE AND REPLACE LANDSCAPING, PLANTINGS, AND VEGETATION

TREE REMOVAL

REMOVE EXISTING DRAINAGE PIPE

NO.	REVISIONS	BY	DATE

THOMAS & HUTTON ENGINEERING CO. No. 000285

THOMAS & HUTTON ENGINEERING CO. No. 000285

THOMAS & HUTTON

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Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

DEMOLITION PLAN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN ISLAND
2150 MIDDLE ST
SULLIVAN ISLAND, SC 29482

GRAPHIC SCALE: 1 INCH = 20 FEET

GRAPHIC SCALE: 1 INCH = 20 FEET

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001

DATE: 12/29/2020

DRAWN: AES

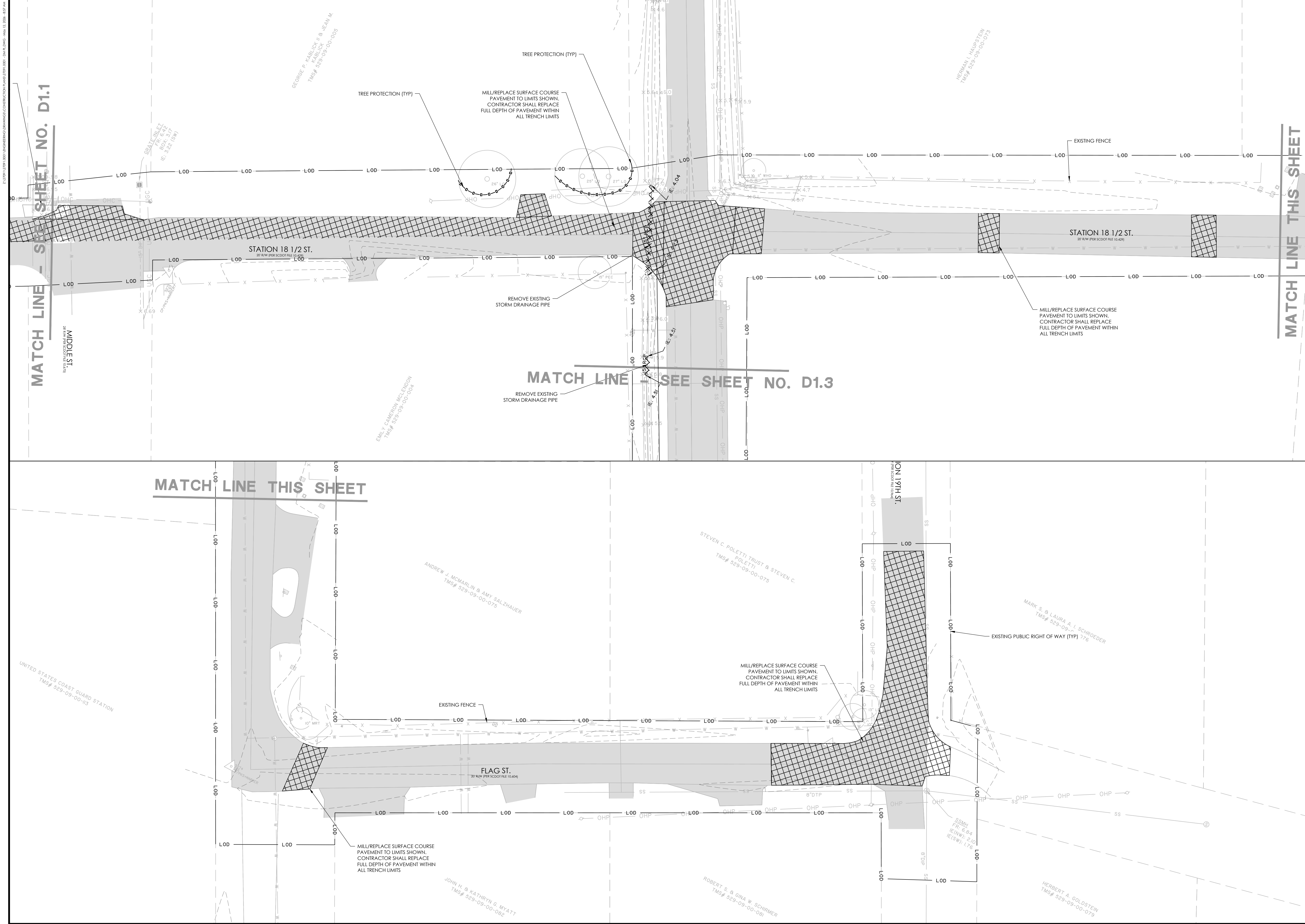
DESIGNED: AES

REVIEWED: RPK

APPROVED: RPK

SCALE: SEE SCALE BAR

D1.1



LEGEND

REMOVE AND REPLACE PAVEMENT

REMOVE AND REPLACE LANDSCAPING, PLANTINGS, AND VEGETATION

TREE REMOVAL

REMOVE EXISTING DRAINAGE PIPE

NO.	REVISIONS	BY	DATE

THOMAS & HUTTON

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DEMOLITION PLAN

MULTI-BASIN DRAINAGE IMPROVEMENT

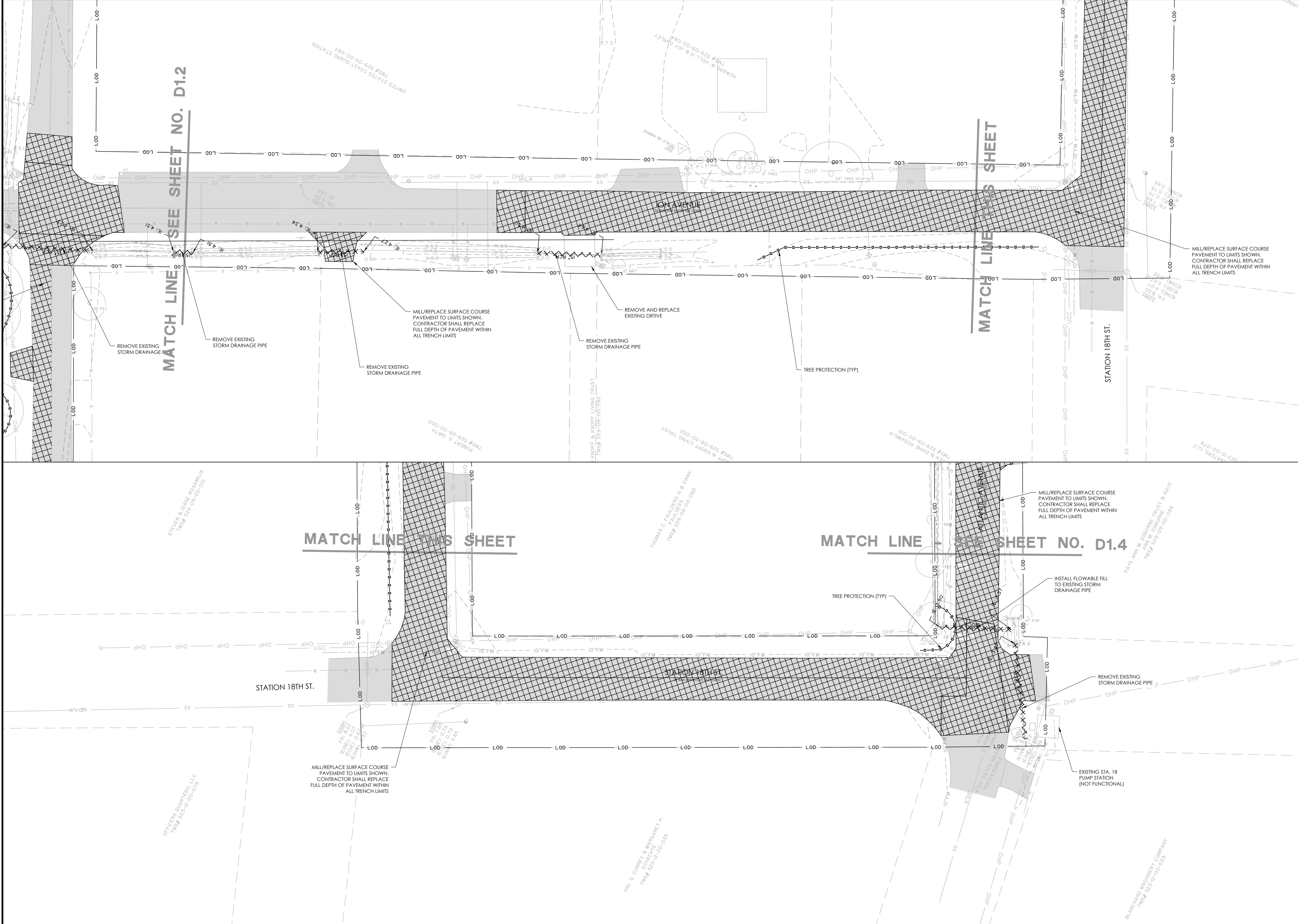
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SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

D1.2



LEGEND

REMOVE AND REPLACE PAVEMENT

REMOVE AND REPLACE LANDSCAPING, PLANTINGS, AND VEGETATION

TREE REMOVAL

REMOVE EXISTING DRAINAGE PIPE

NO.	REVISIONS	BY	DATE

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DEMOLITION PLAN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

GRAPHIC SCALE: 1 INCH = 20 FEET

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JOB NO: 27091.0001

DATE: 4/8/2024

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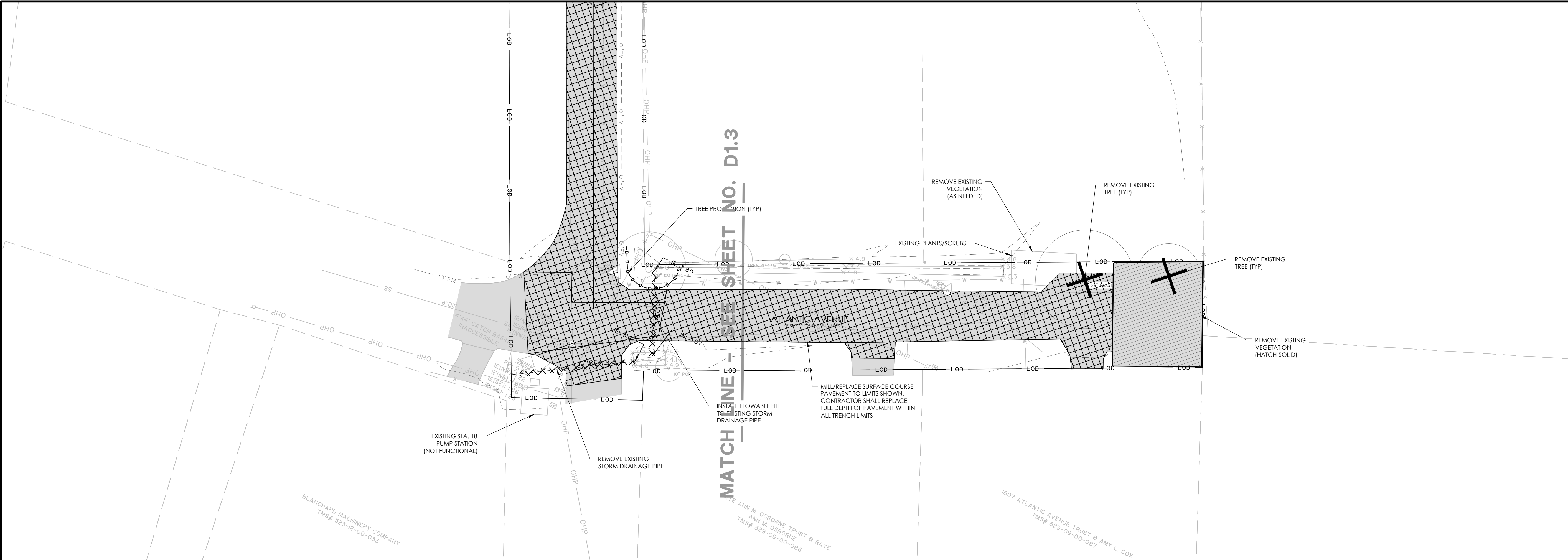
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LEGEND

REMOVE AND REPLACE PAVEMENT

REMOVE AND REPLACE LANDSCAPING, PLANTINGS, AND VEGETATION

TREE REMOVAL

REMOVE EXISTING DRAINAGE PIPE

NO.	REVISIONS	BY	DATE

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DEMOLITION PLAN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

GRAPHIC SCALE:
1 INCH = 20 FEET

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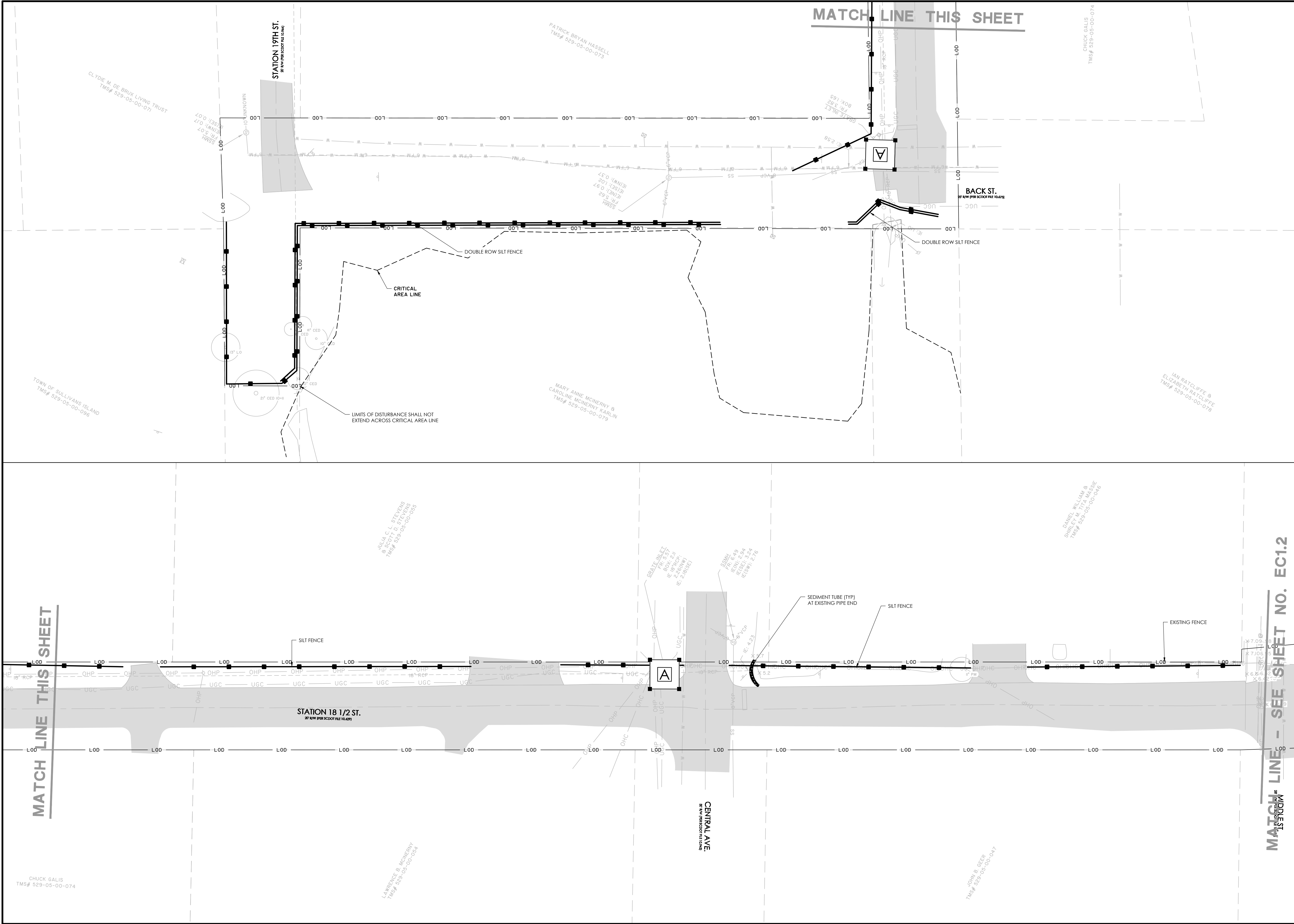
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NO.	REVISIONS	BY	DATE

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SWPPP - INITIAL

MULTI-BASIN DRAINAGE IMPROVEMENT

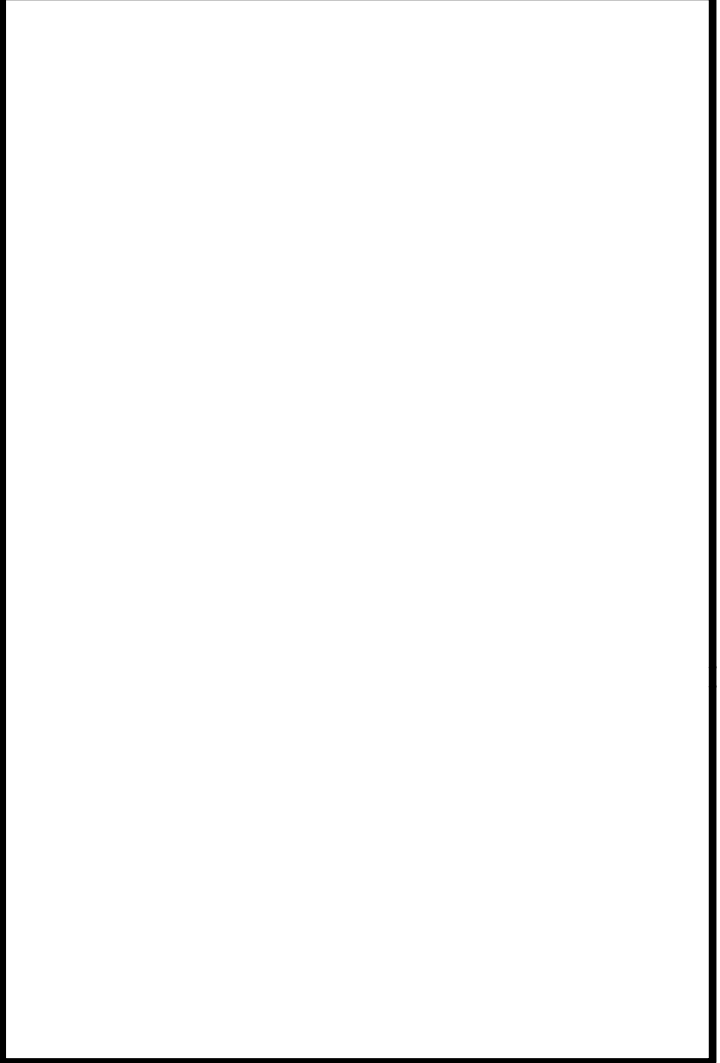
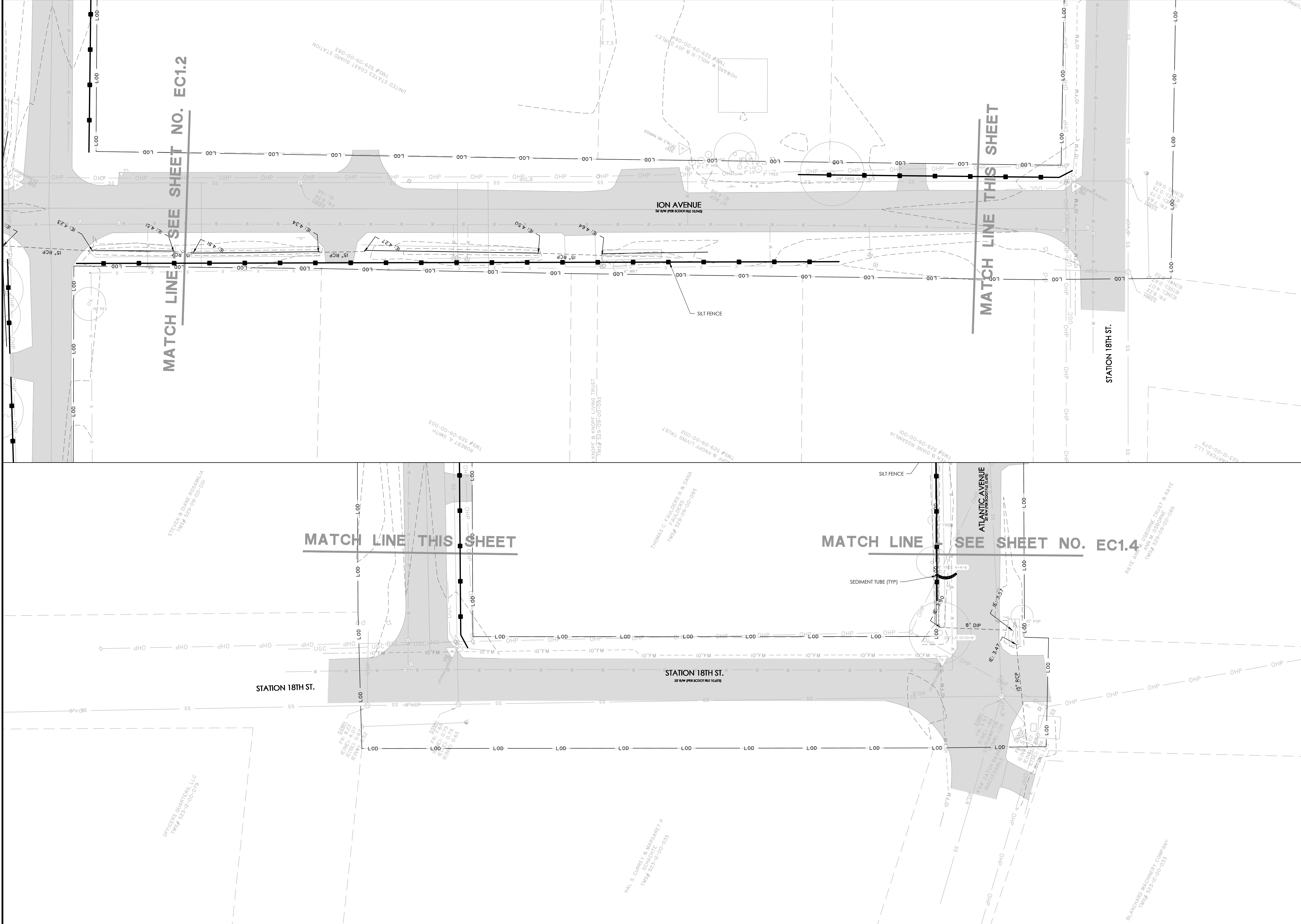
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SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

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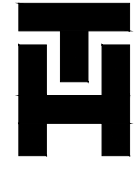
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APPROVED: RPK
SCALE: SEE SCALE BAR

EC1.1



NO.	REVISIONS	BY	DATE





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SWPPP - INITIAL

MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



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GRAPHIC SCALE:
1 INCH = 20 FEET



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GRAPHIC SCALE:
1 INCH = 20 FEET

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001

DATE:

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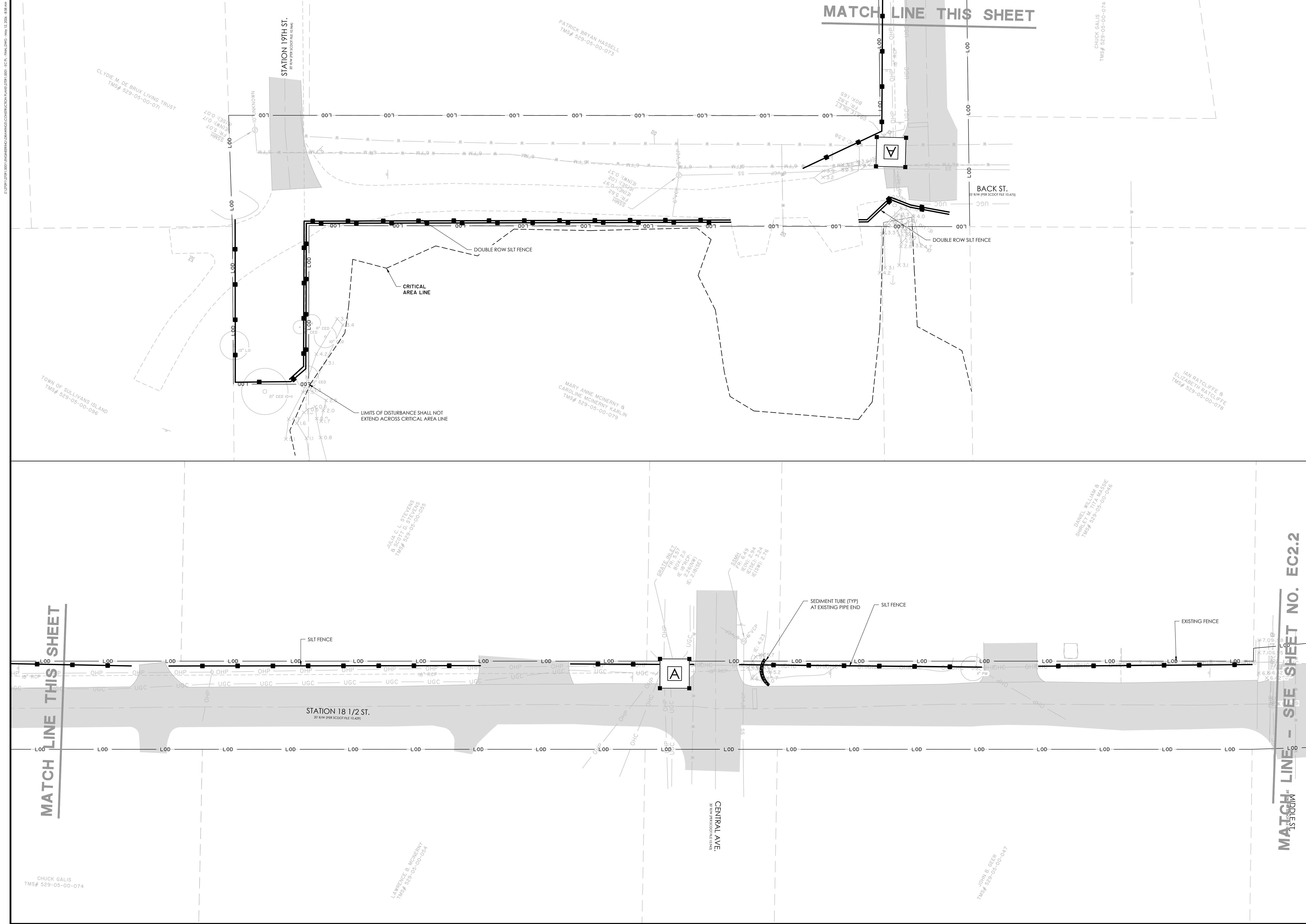
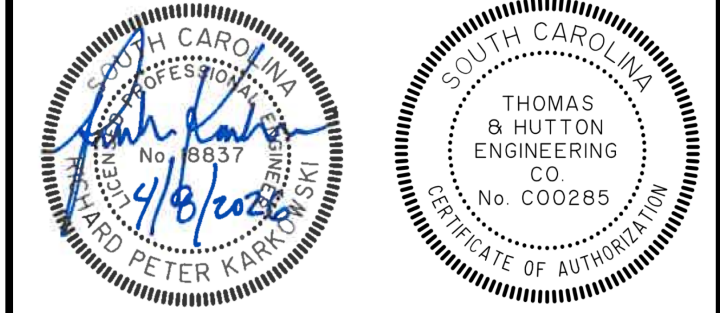
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APPROVED:

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EC1.3

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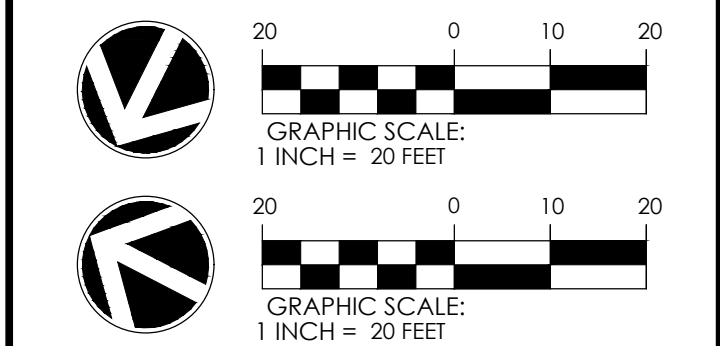
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SWPPP - FINAL

MULTI-BASIN DRAINAGE
IMPROVEMENT

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SULLIVAN'S ISLAND, SC

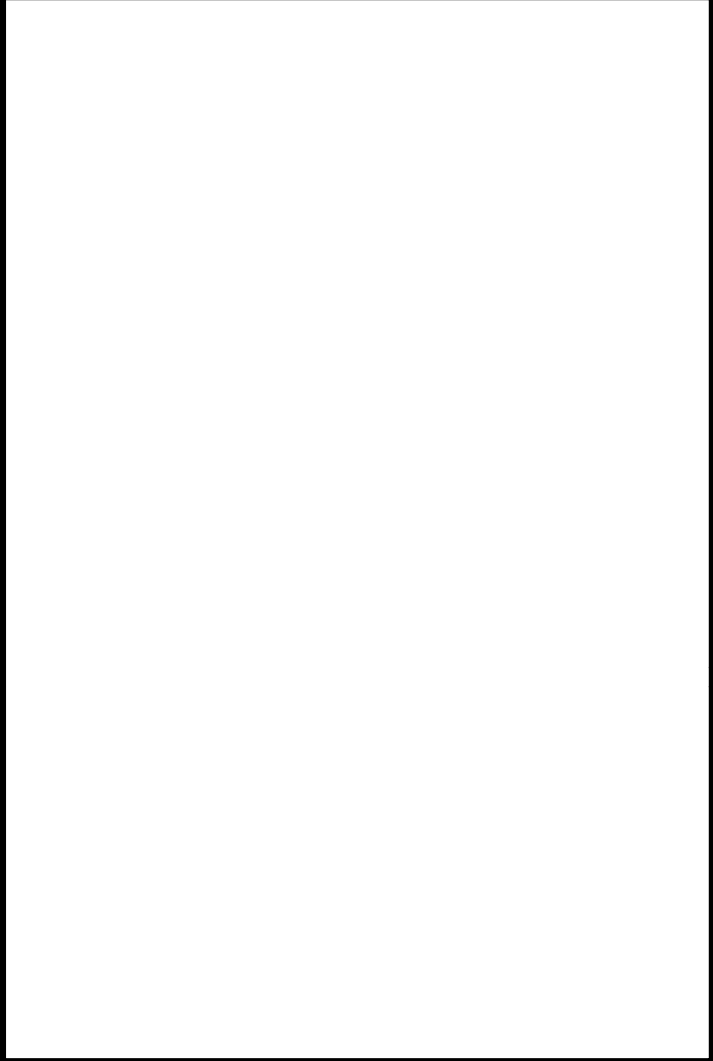
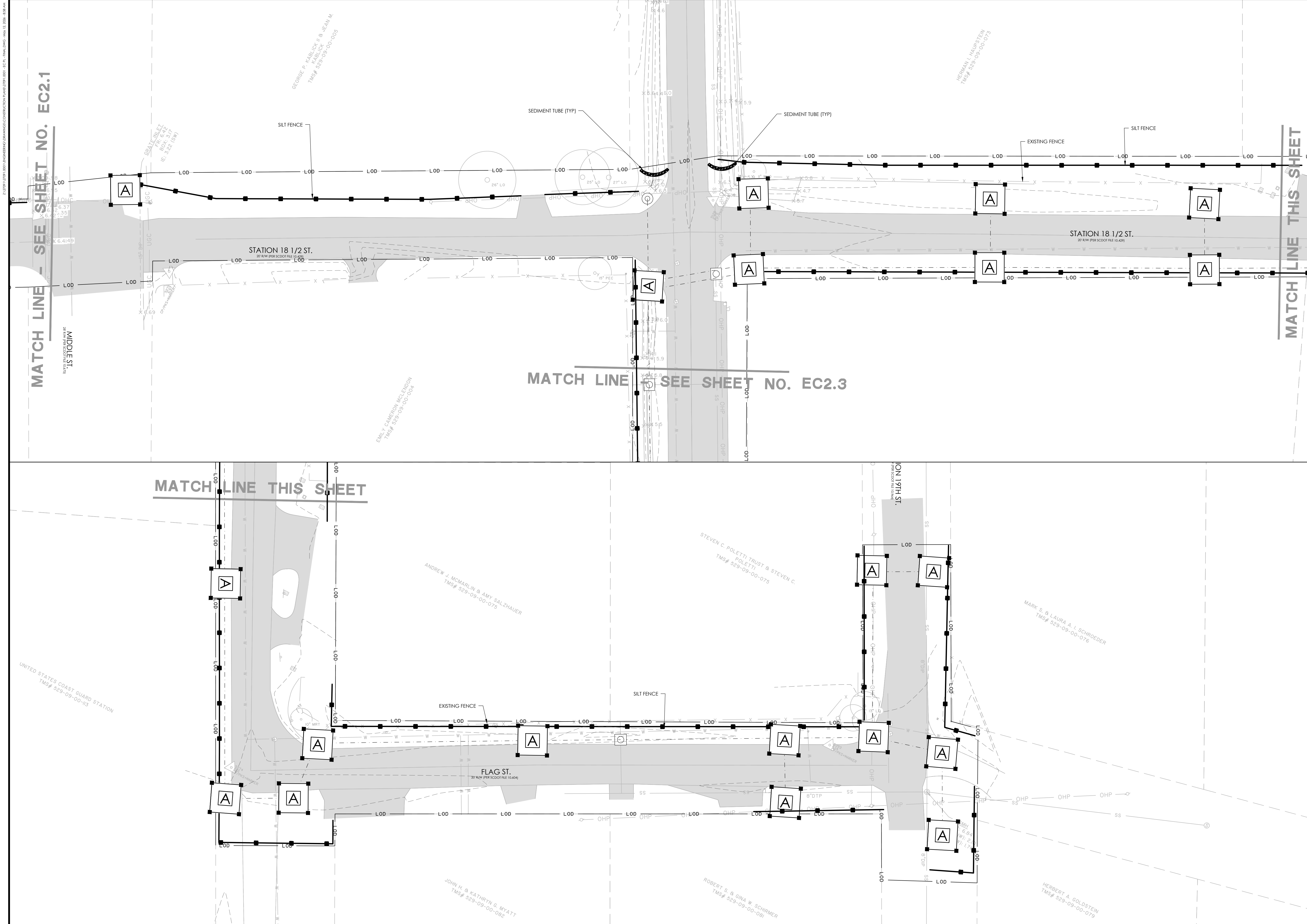
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



DATUM: HORIZ.: NAD 83	VERT.: NAVD 88
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JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

EC2.1



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SWPPP - FINAL

MULTI-BASIN DRAINAGE IMPROVEMENT

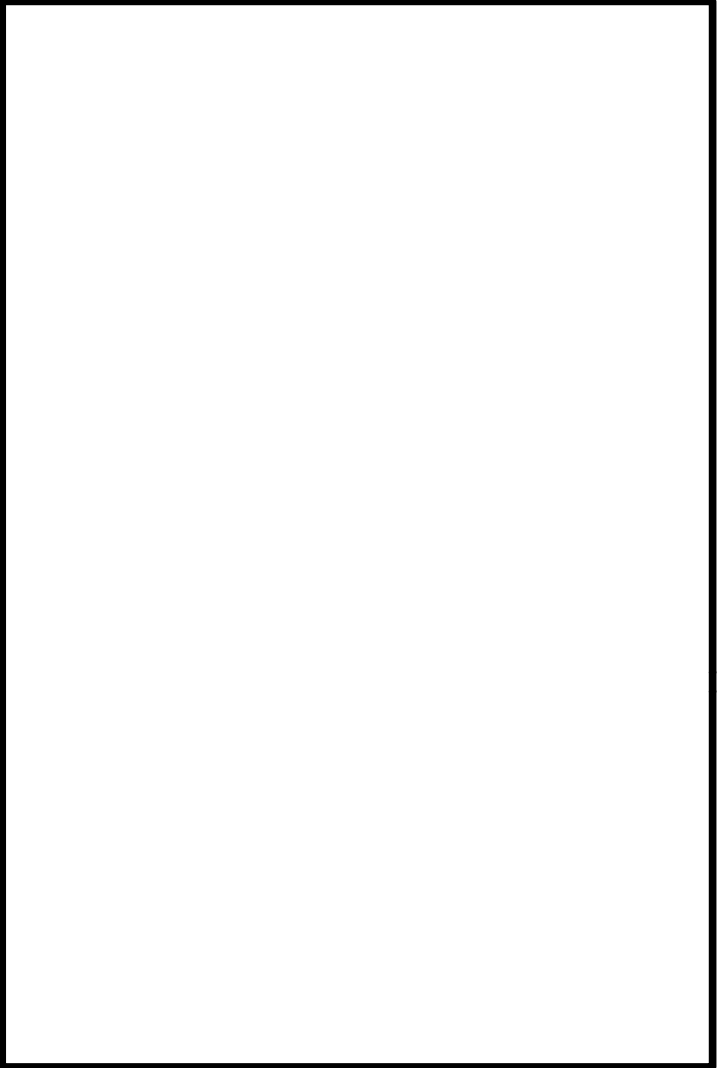
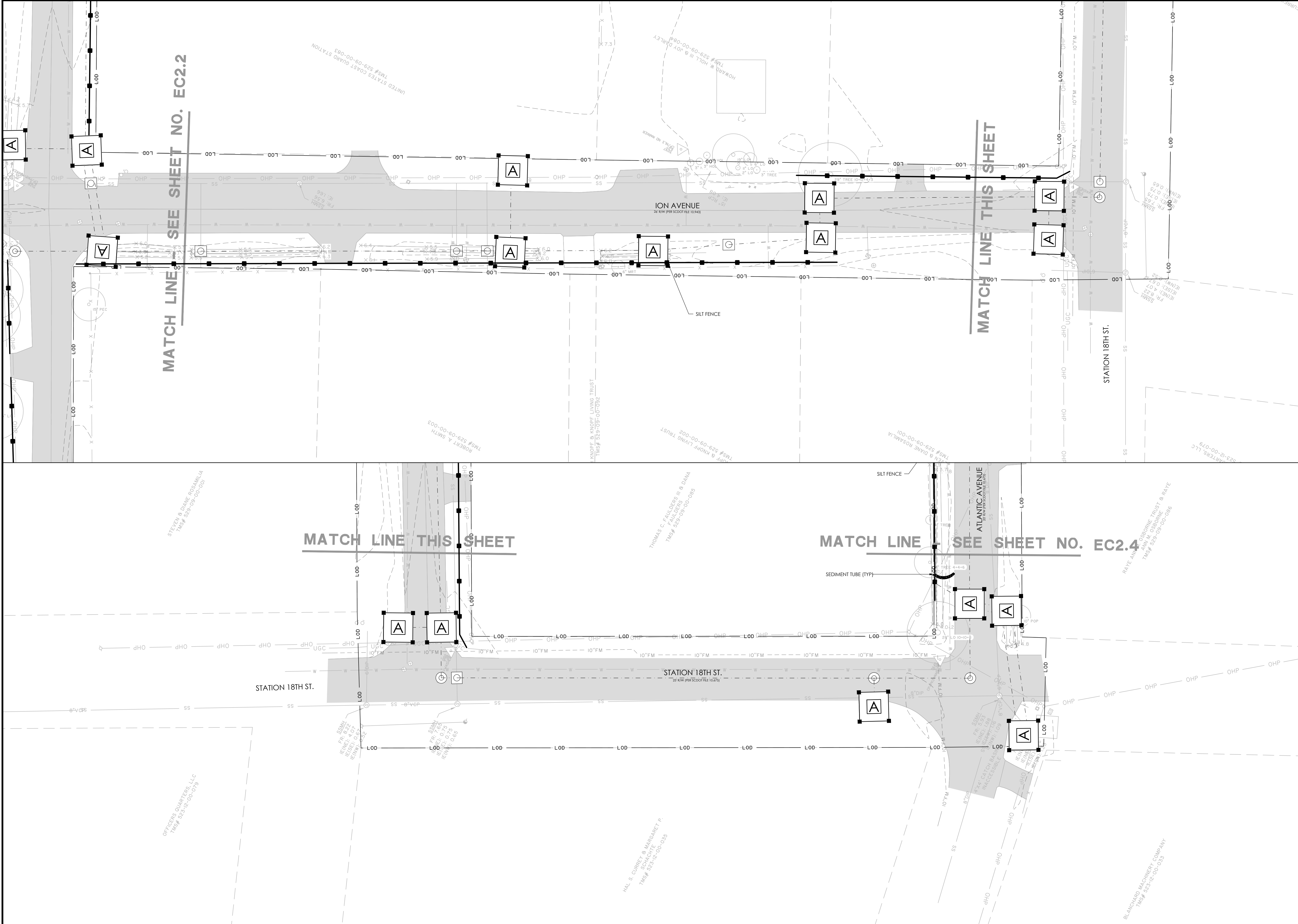
PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

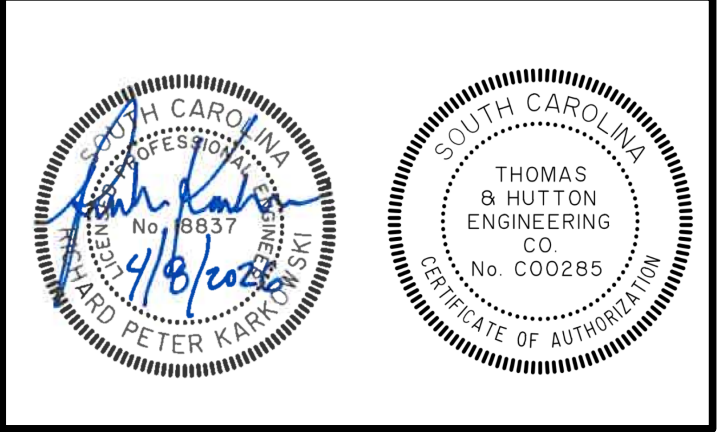
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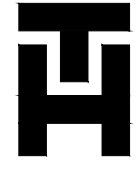
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DATE: 4/8/2026
DRAWN: AES
DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: SEE SCALE BAR

EC2.2



NO.	REVISIONS	BY	DATE





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SWPPP - FINAL

MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



20 0 10 20
GRAPHIC SCALE:
1 INCH = 20 FEET



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GRAPHIC SCALE:
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DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001

DATE: _____

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DESIGNED: AES

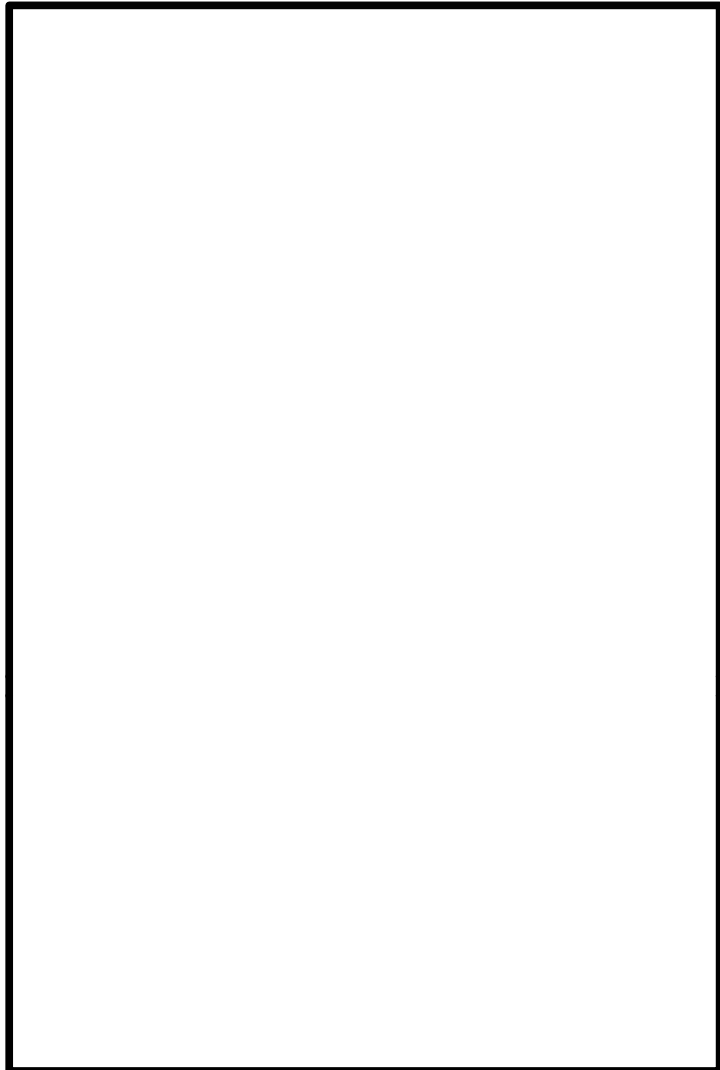
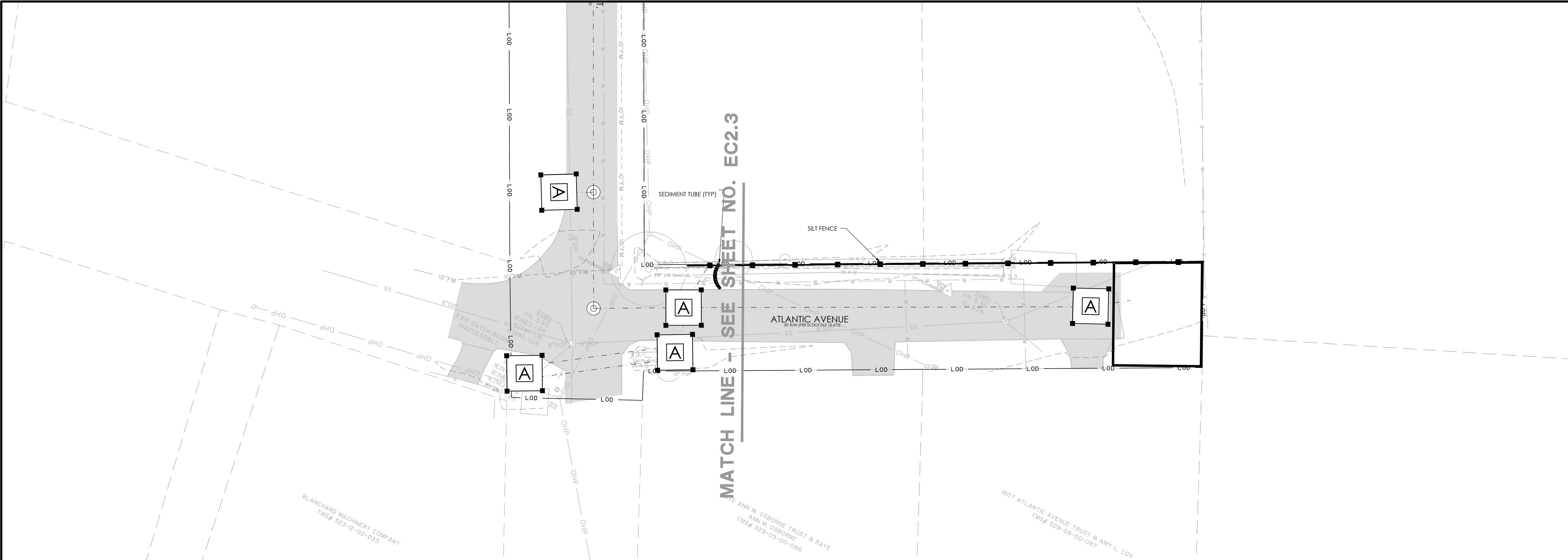
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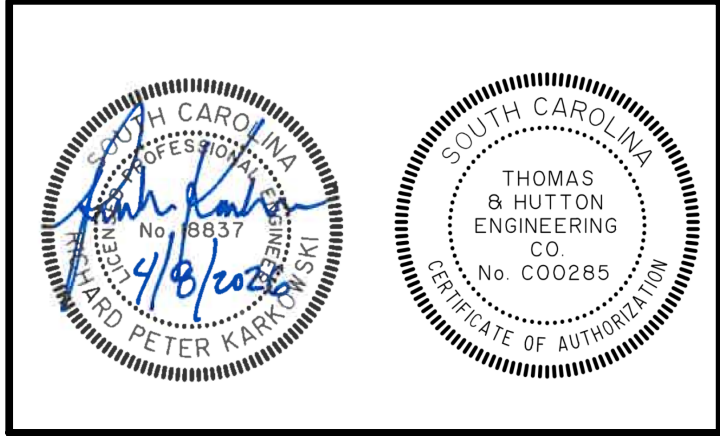
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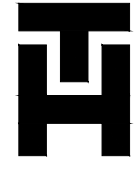
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2:2791.02791.0001 (THOMAS & HUTTON) CONSTRUCTION PLANS (2791.0001) - EC2.4 - FINAL.DWG - Nov 12, 2024, 4:58 AM



NO.	REVISIONS	BY	DATE



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HUTTON**

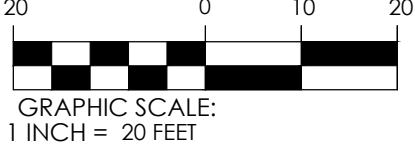
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SWPPP - FINAL

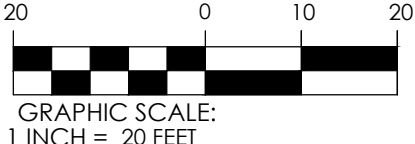
MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



GRAPHIC SCALE:
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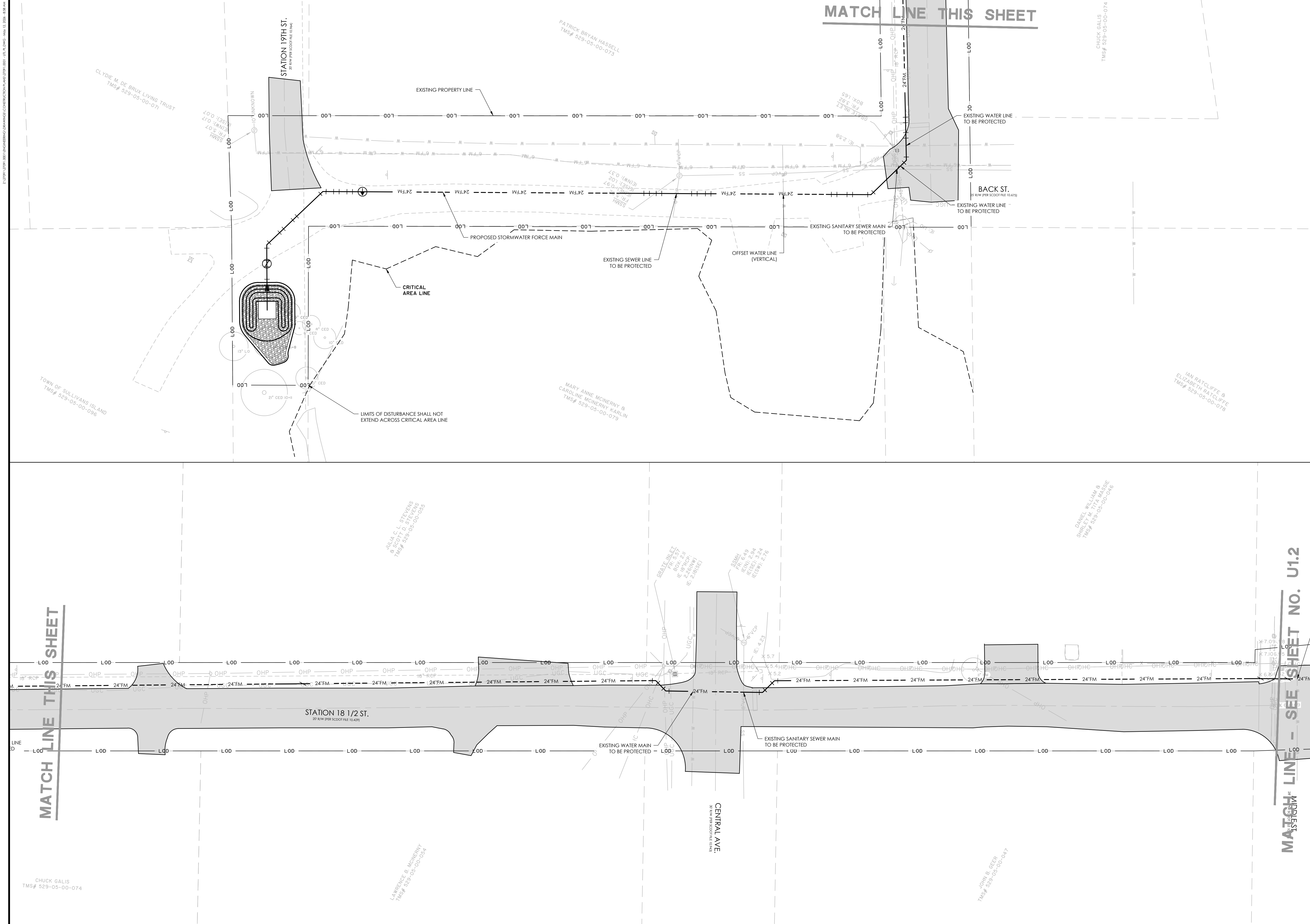


GRAPHIC SCALE:
1 INCH = 20 FEET

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

EC2.4



NO.	REVISIONS	BY	DATE

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UTILITY RELOCATION PLAN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

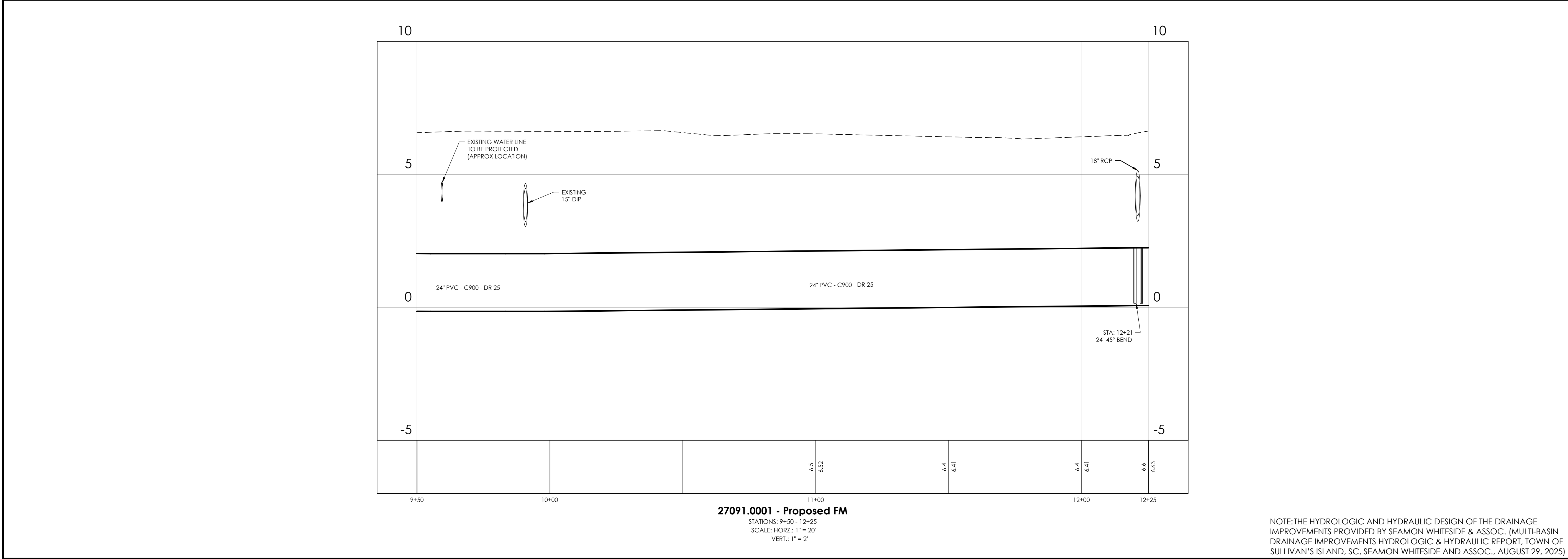
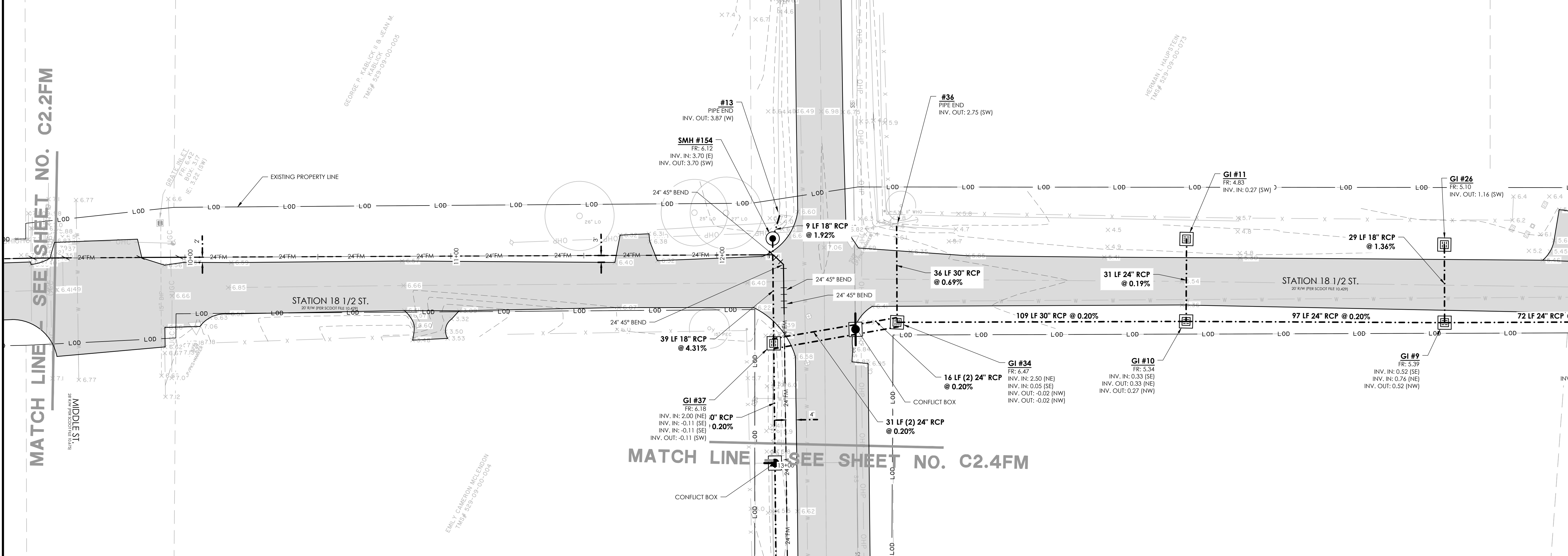
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001
DATE: 4/8/2026
DRAWN: AES
DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: SEE SCALE BAR

U1.1

27091.0001.DWG (SULLIVAN ISLAND) CONSTRUCTION PLANS (27091.0001) - PLANS PROFILE FORCEMAIN.DWG - Nov 12, 2024, 8:39 AM



NO. REVISIONS BY DATE

THOMAS & HUTTON ENGINEERING CO. No. 8837 4/8/2026

THOMAS & HUTTON ENGINEERING CO. No. 000285

THOMAS & HUTTON

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PLAN & PROFILE STORMWATER FORCEMAIN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

20 0 10 20

GRAPHIC SCALE:
1 INCH = 20 FEET

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GRAPHIC SCALE:
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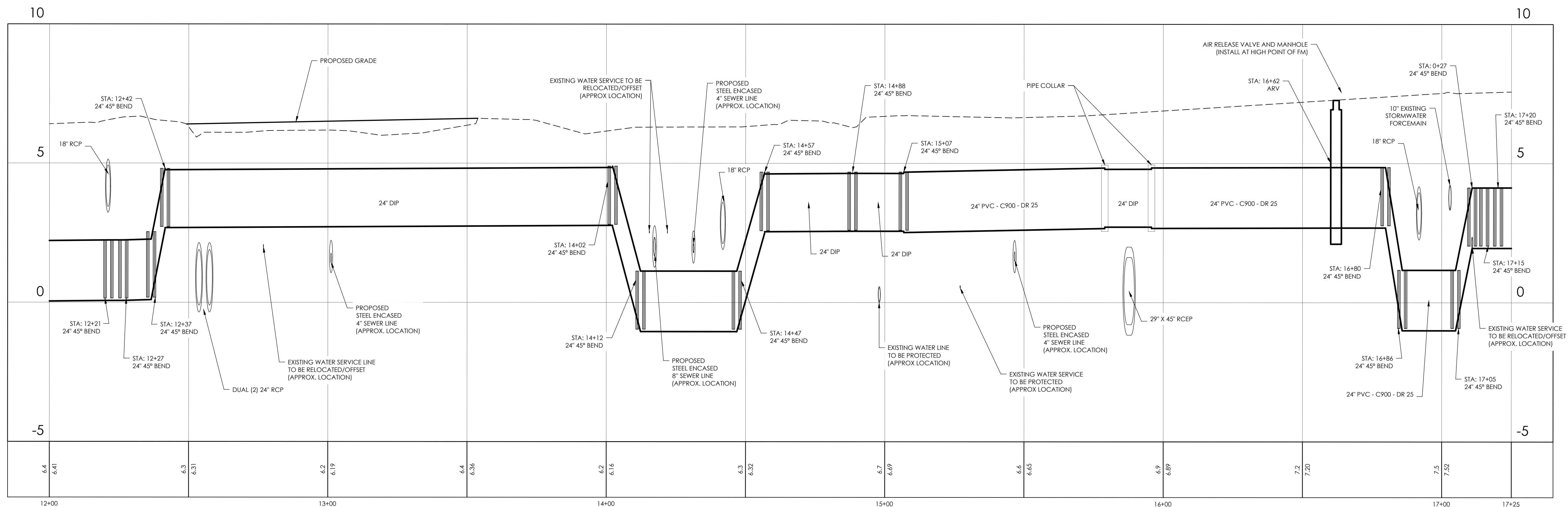
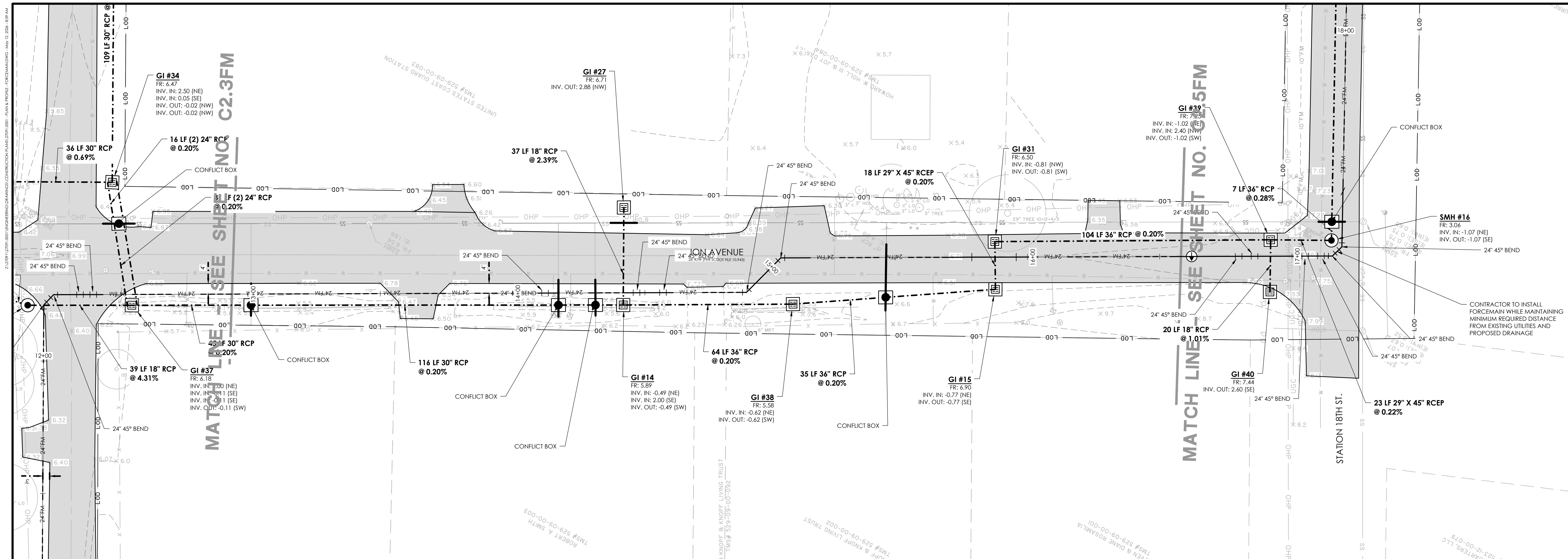
REVIEWED: RPK

APPROVED: RPK

SCALE: SEE SCALE BAR

C2.3FM

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)



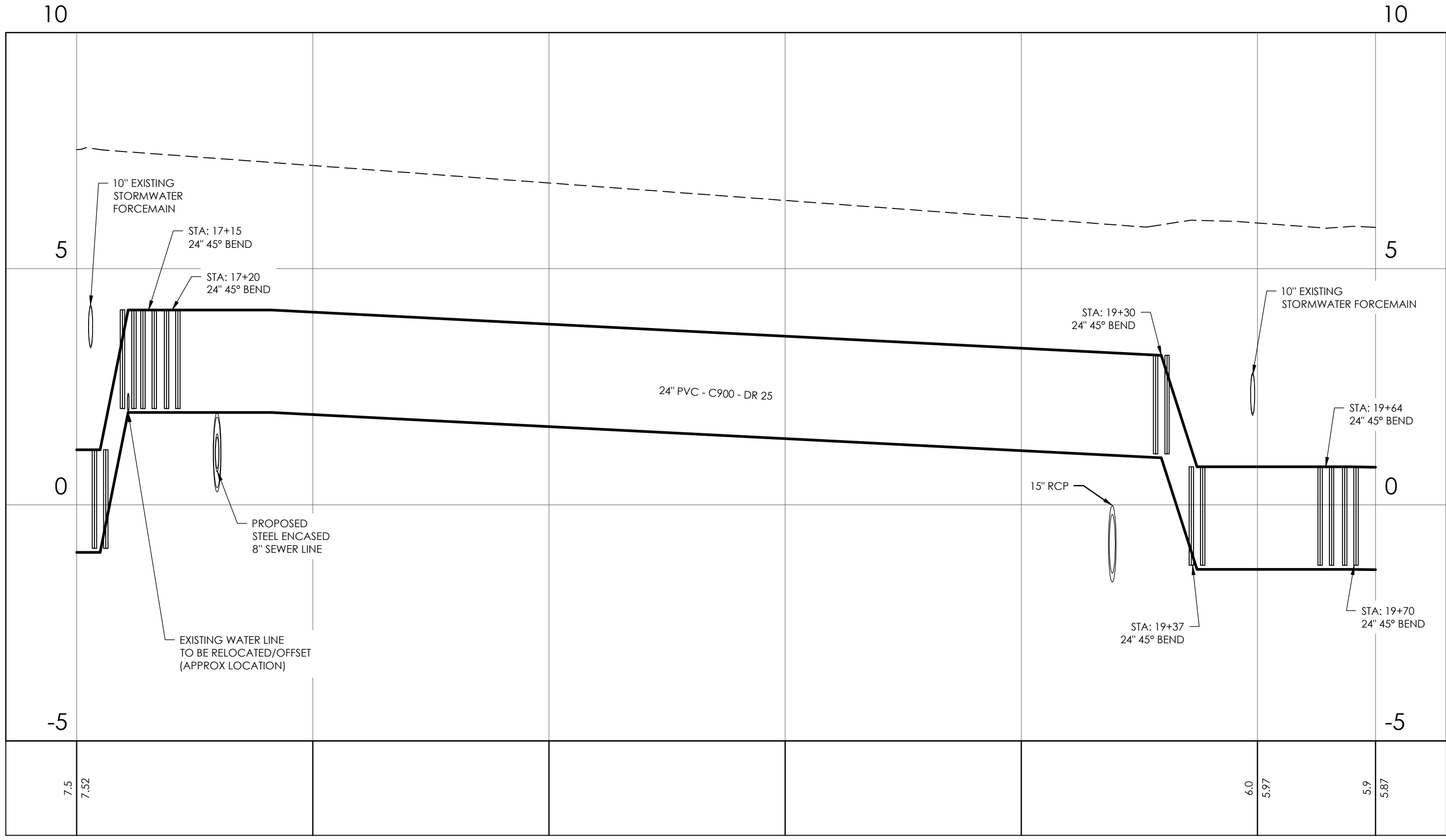
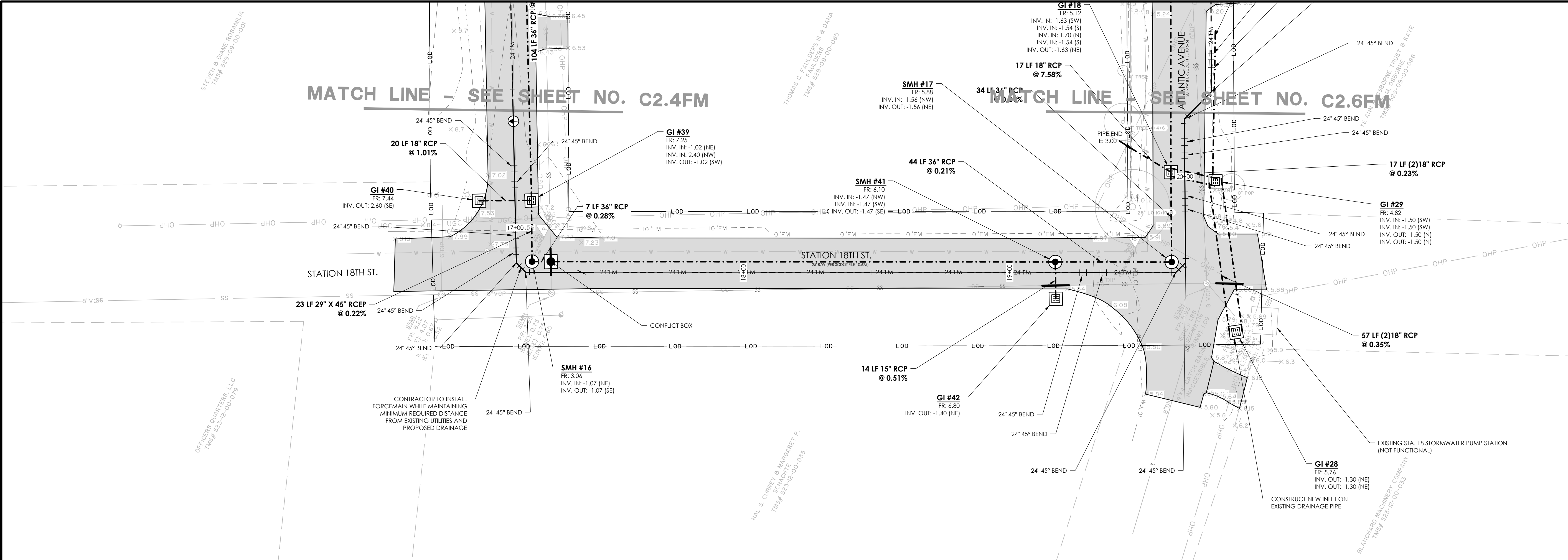
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STATIONS: 12+00 - 17+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

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DRAWN:	AES
DESIGNED:	AES
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APPROVED:	RPK
SCALE:	SEE SCALE BAR

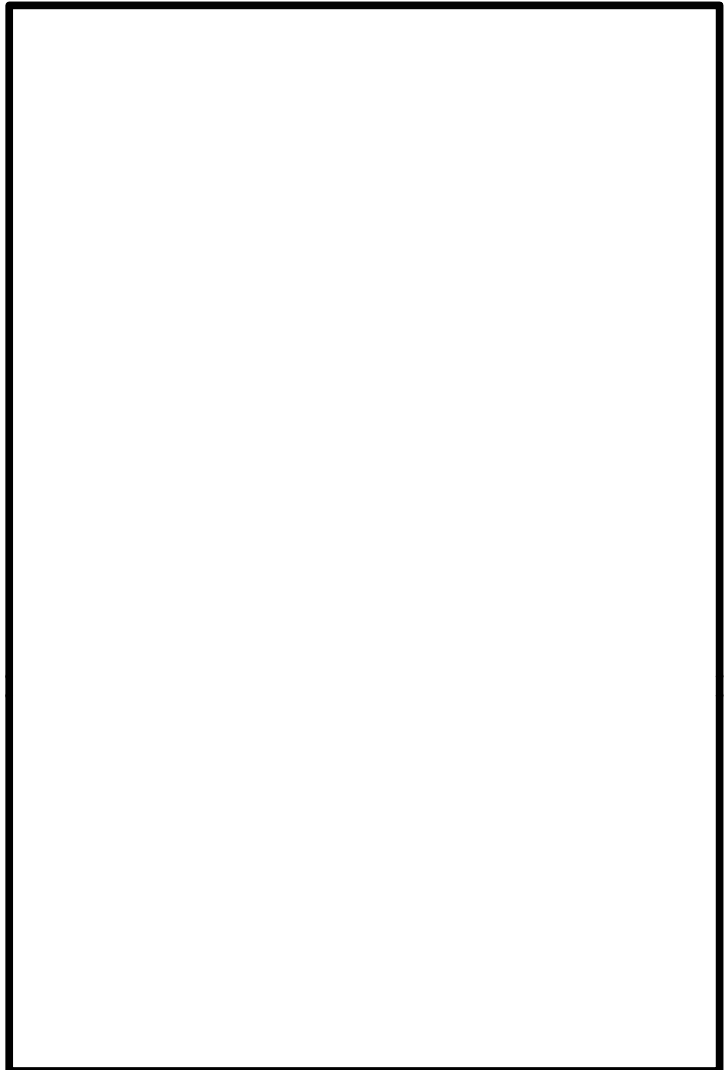
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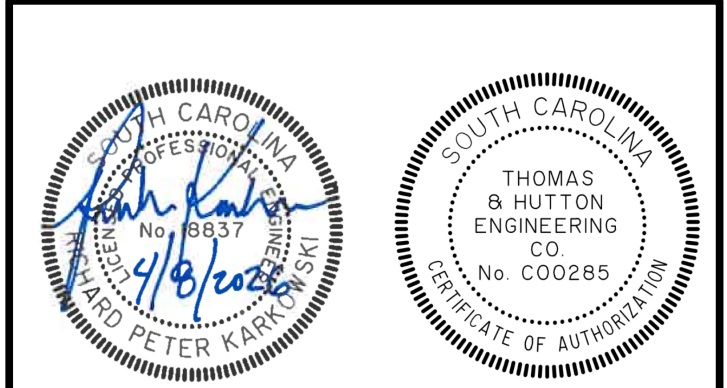


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STATIONS: 17+00 - 19+75
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NO.	REVISIONS	BY	DATE



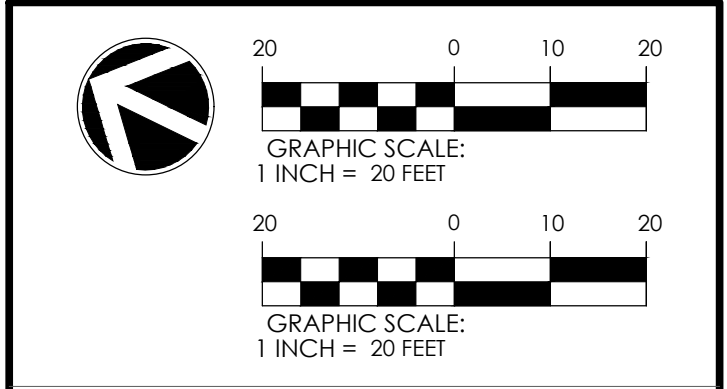
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
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PLAN & PROFILE STORMWATER FORCEMAIN

MULTI-BASIN DRAINAGE IMPROVEMENT

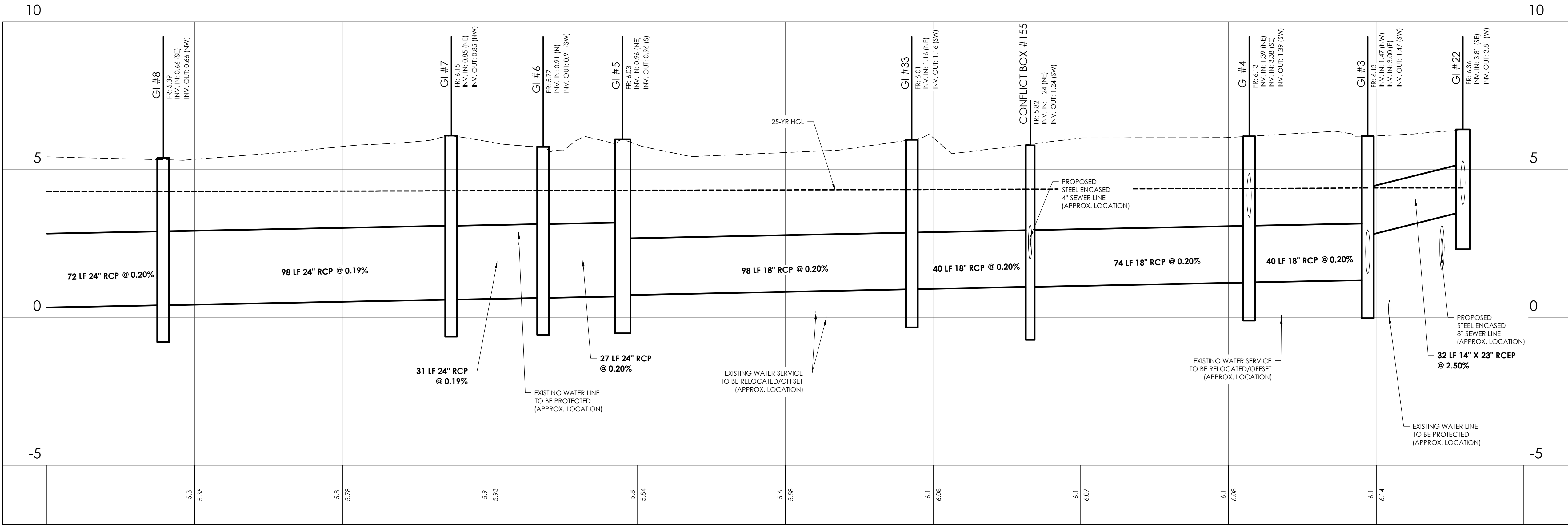
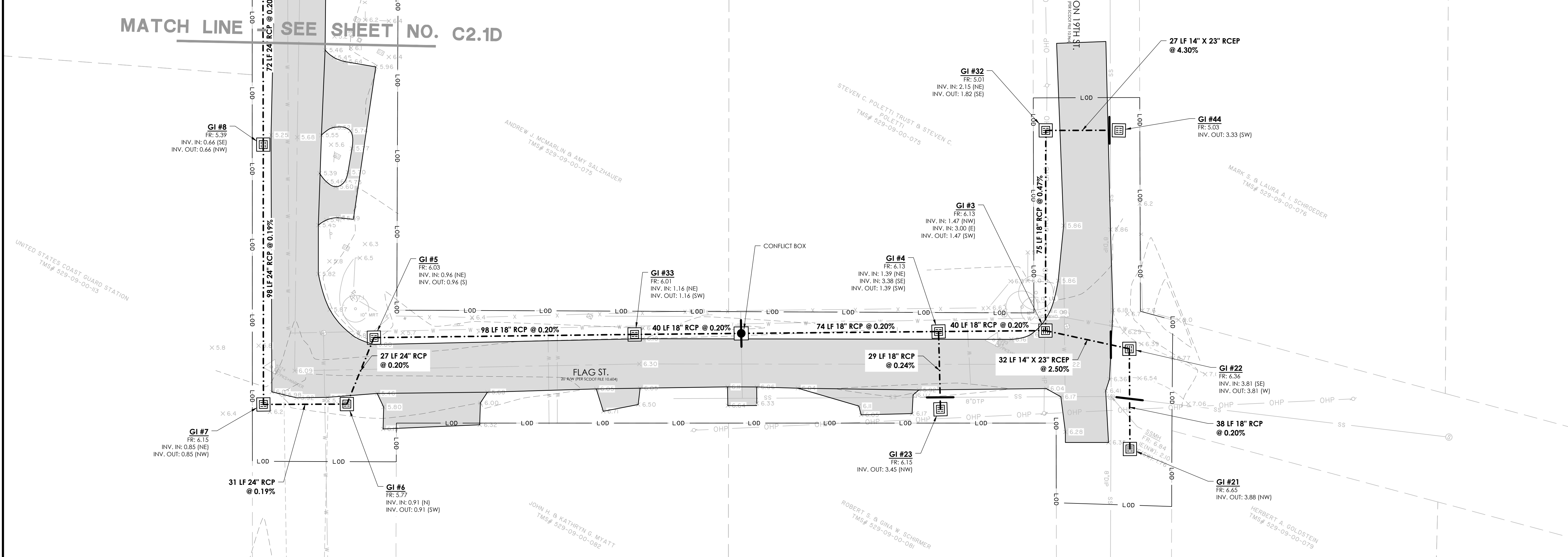
PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

C2.5FM



27091.0001 - DRAINAGE - FLAG ST. (1) & STA 18.5

STATIONS: 0+00 - 5+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

NO.	REVISIONS	BY	DATE

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PLAN & PROFILE DRAINAGE

MULTI-BASIN DRAINAGE IMPROVEMENT

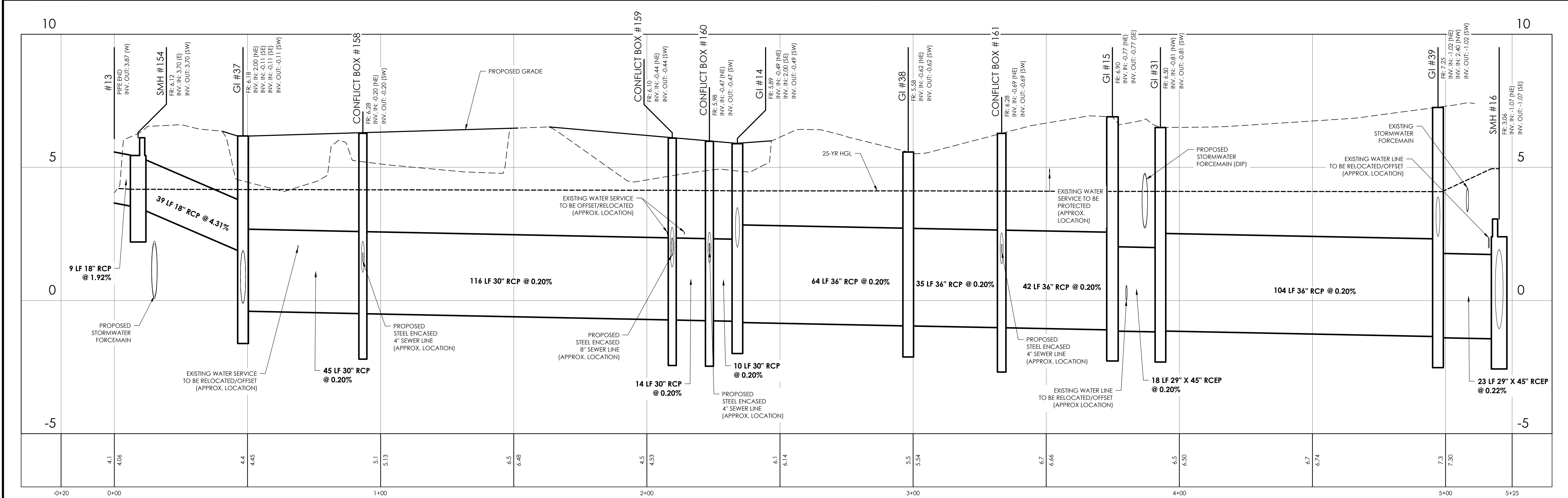
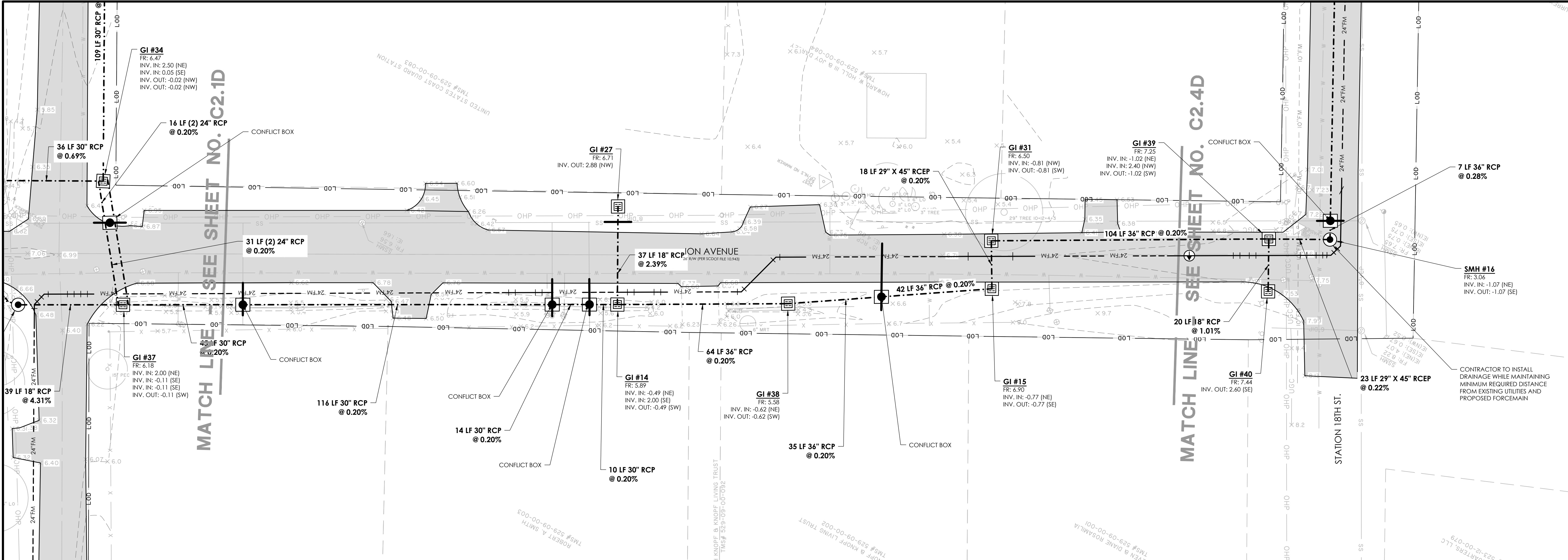
PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

C2.2D



27091.0001 - DRAINAGE - ION AVE. (1)
STATIONS: -0+20 - 5+25
SCALE: HOR.: 1" = 20'
VERT.: 1" = 2'

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

NO.	REVISIONS	BY	DATE

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PLAN & PROFILE DRAINAGE

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
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2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

GRAPHIC SCALE:
1 INCH = 20 FEET

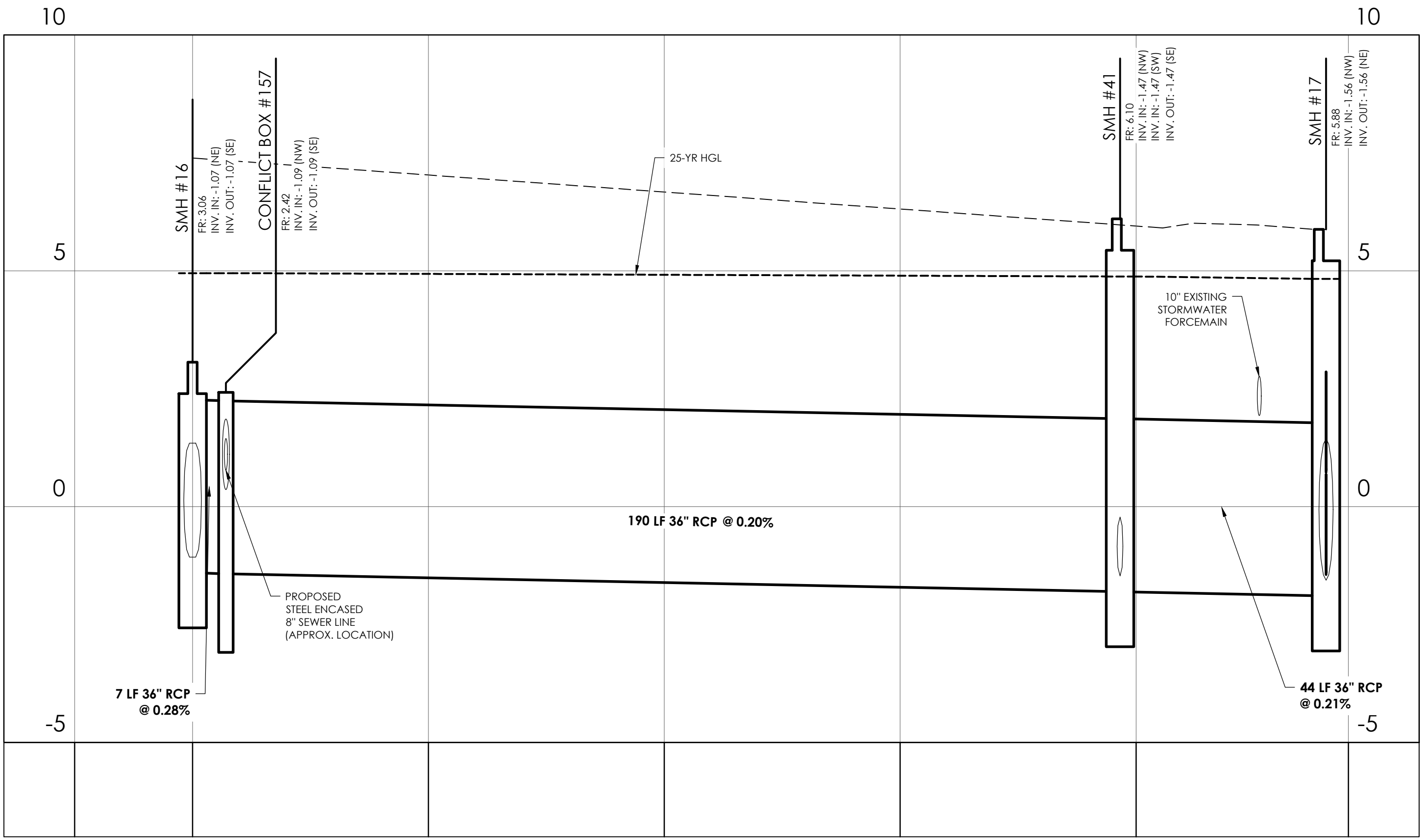
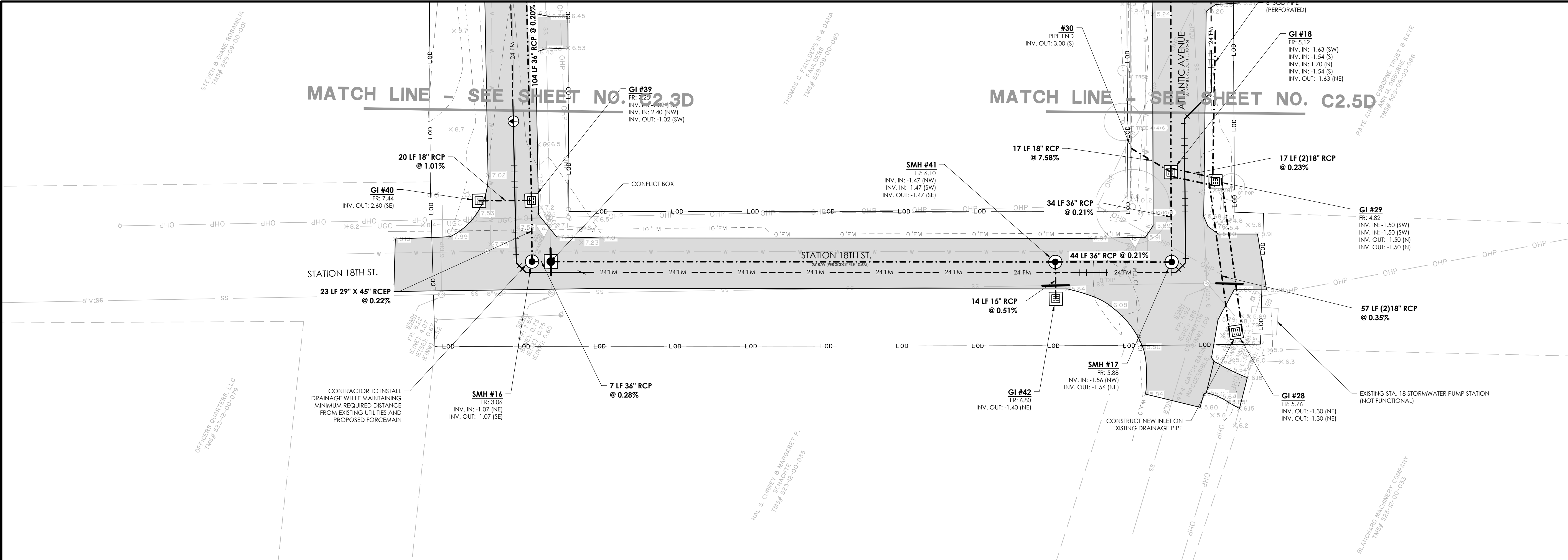
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1 INCH = 20 FEET

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO.: 27091.0001
DATE: DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: SEE SCALE BAR

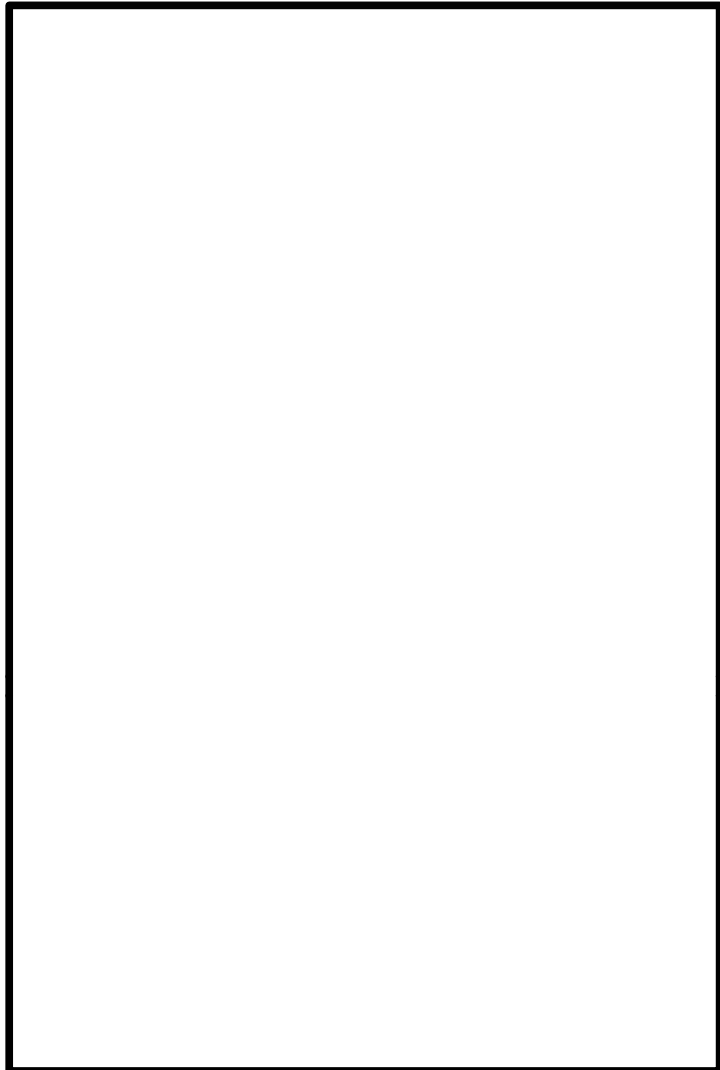
C2.3D

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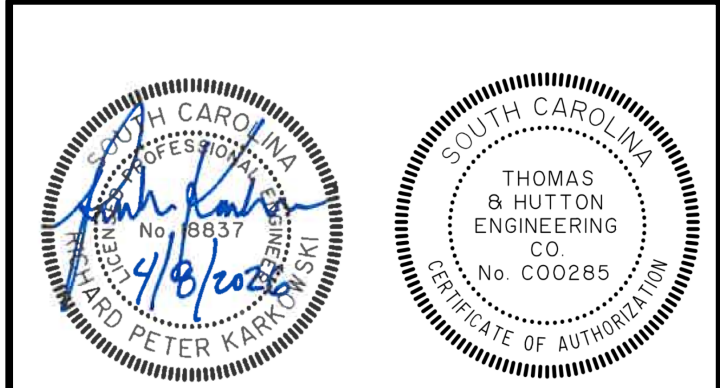


27091.0001 - DRAINAGE - STATION 18 ST. (1)
STATIONS: 0+25 - 2+45
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 2'

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)



NO.	REVISIONS	BY	DATE



THOMAS & HUTTON

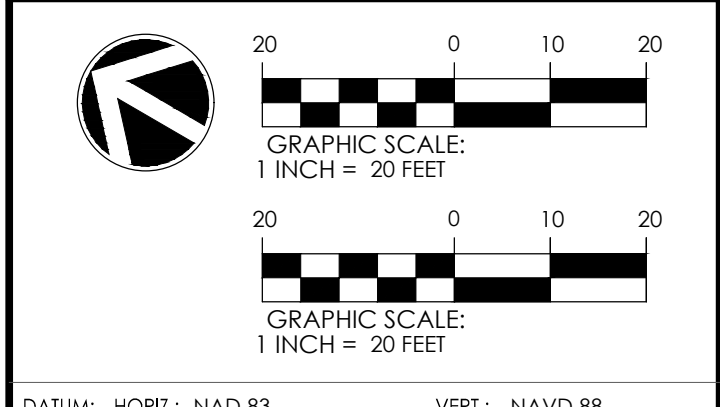
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
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PLAN & PROFILE DRAINAGE

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

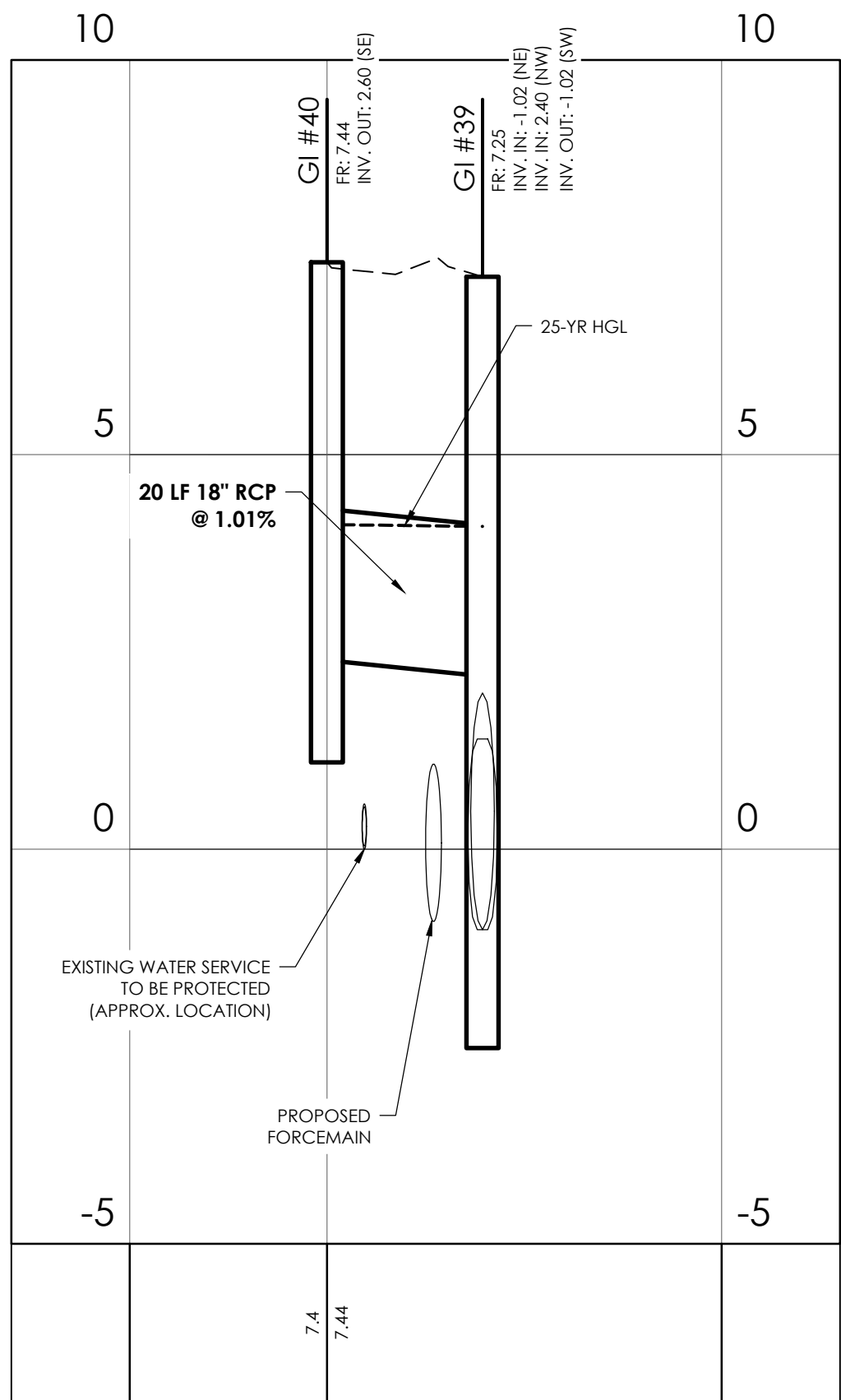
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	SEE SCALE BAR

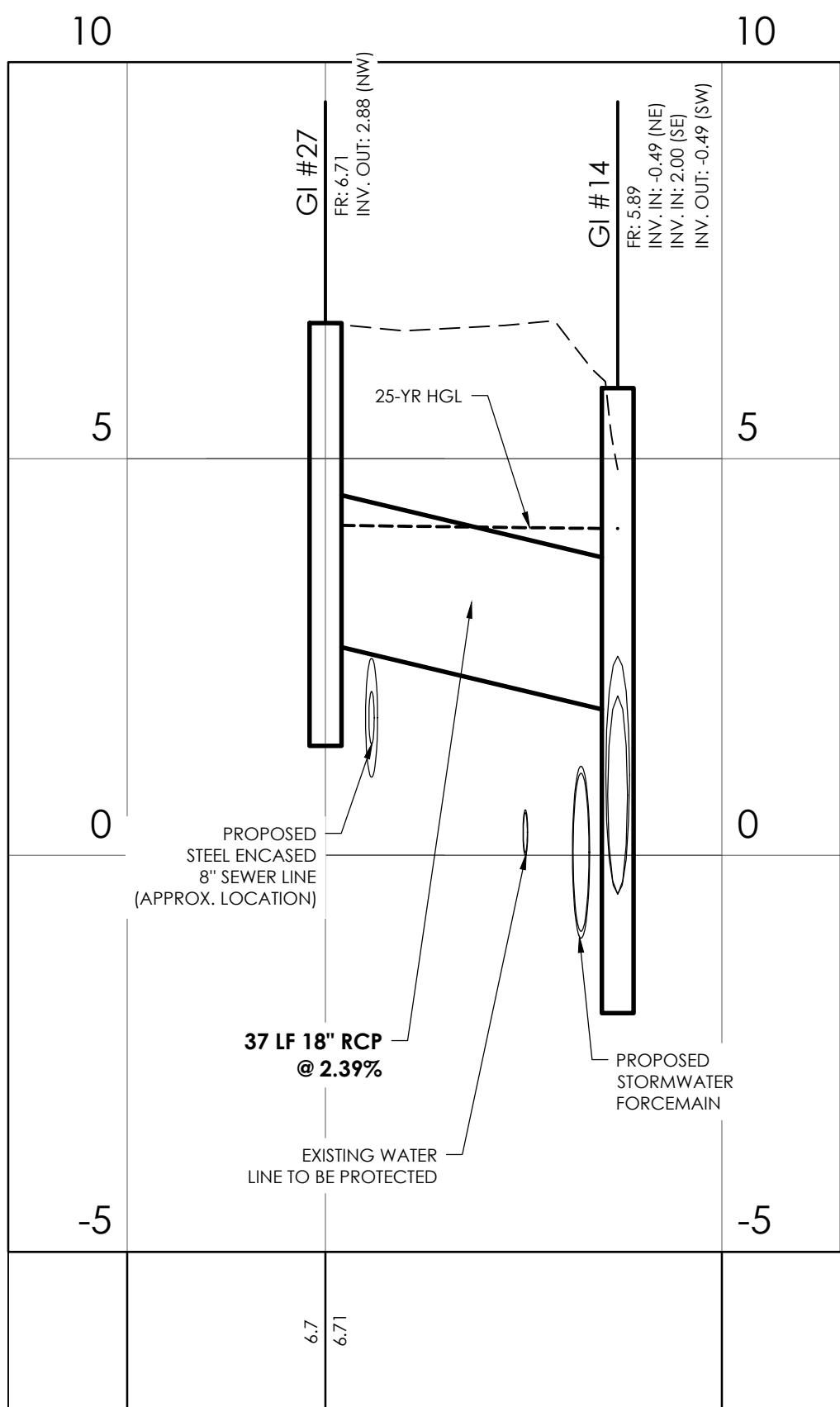
C2.4D

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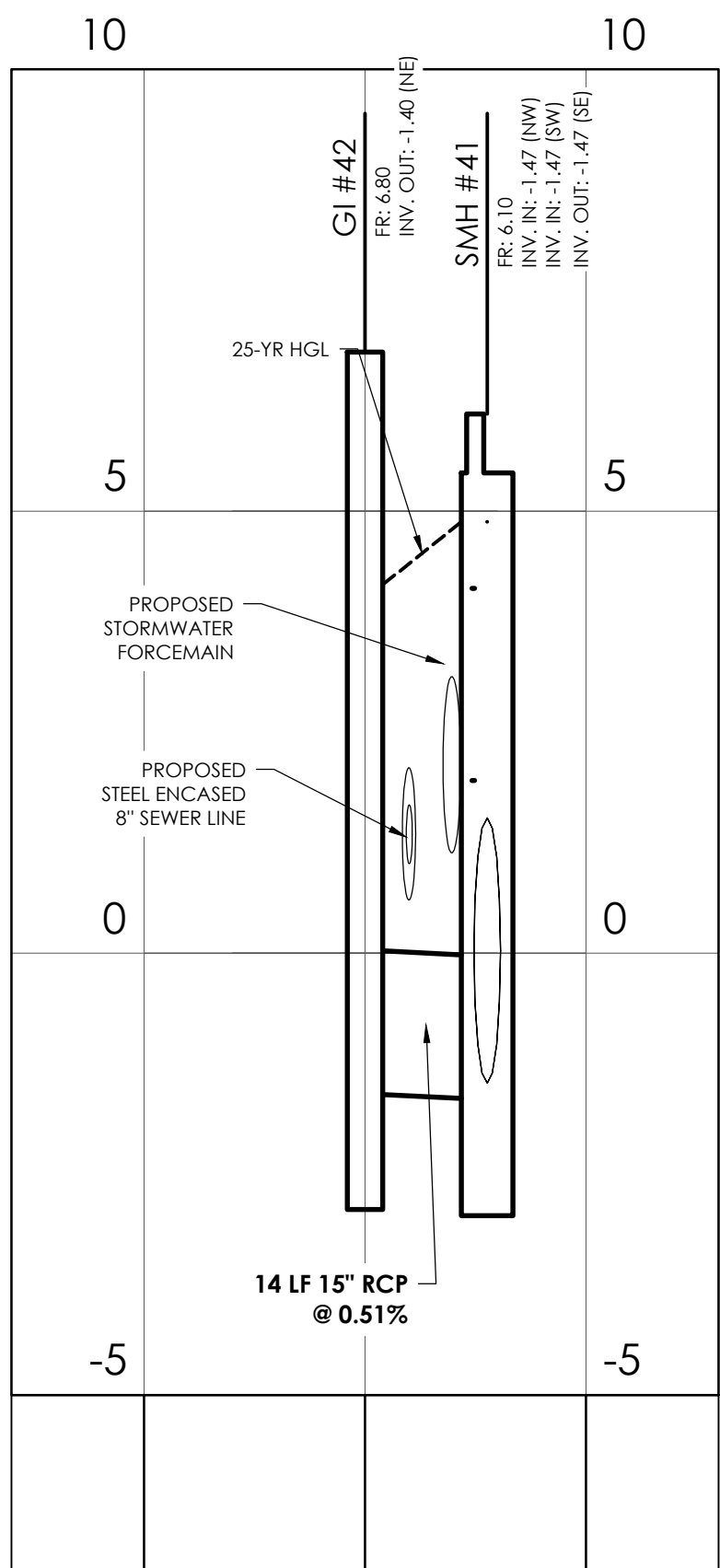
27091.0001 - DRAINAGE - ION AVE. (2)

STATIONS: -0+25 - 0+50
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



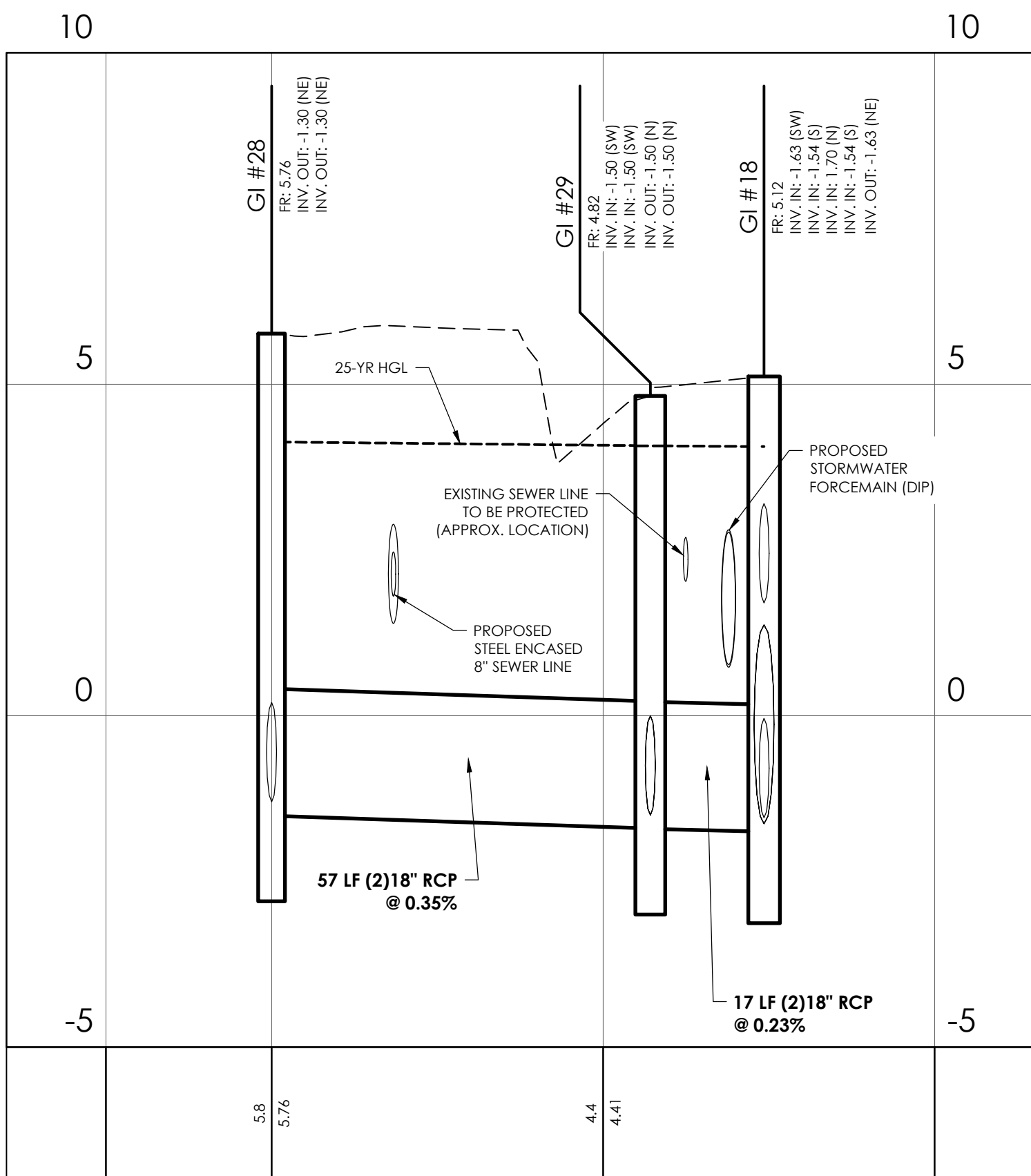
27091.0001 - DRAINAGE - ION AVE. (3)

STATIONS: -0+25 - 0+50
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



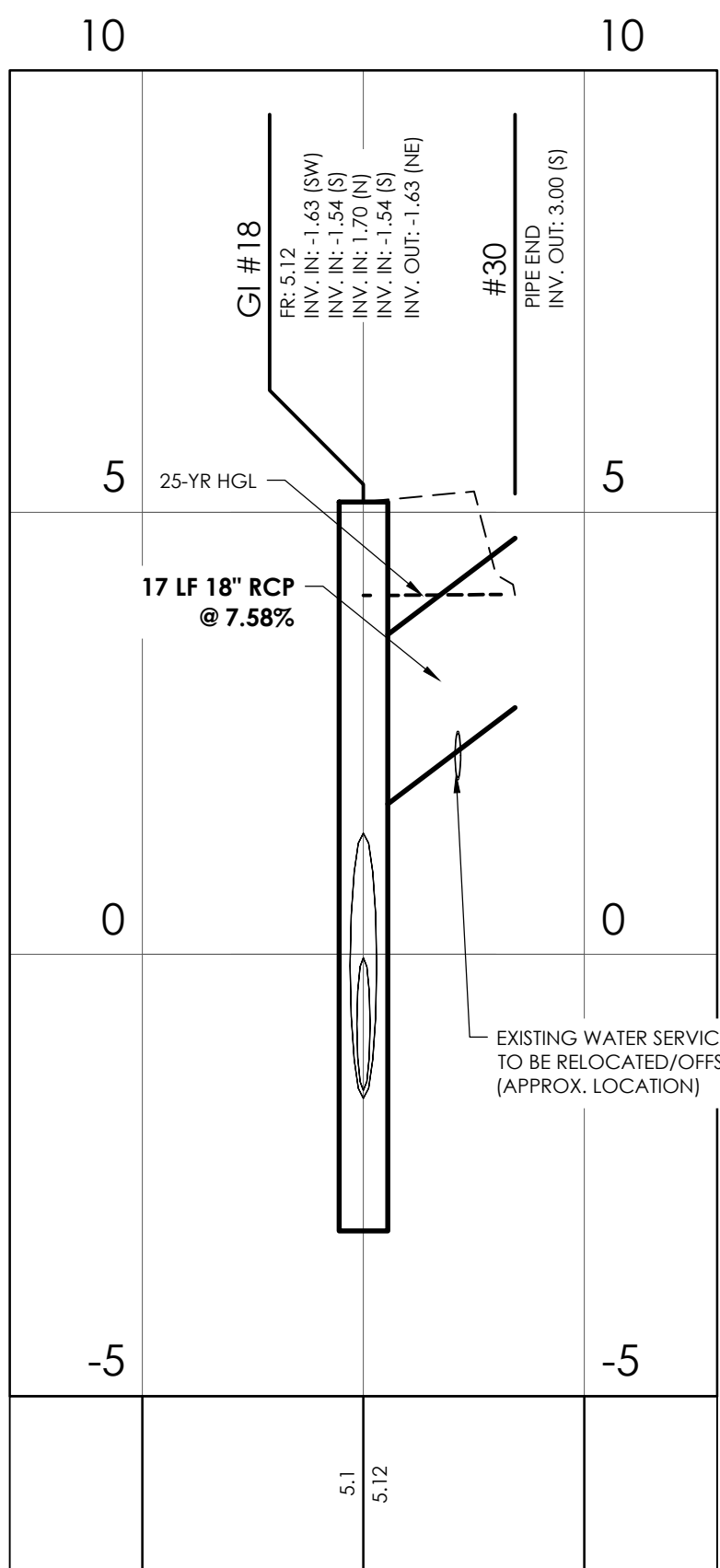
27091.0001 - DRAINAGE - STATION 18 ST. (2)

STATIONS: -0+25 - 0+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



27091.0001 - DRAINAGE - ATLANTIC AVE. (2)

STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

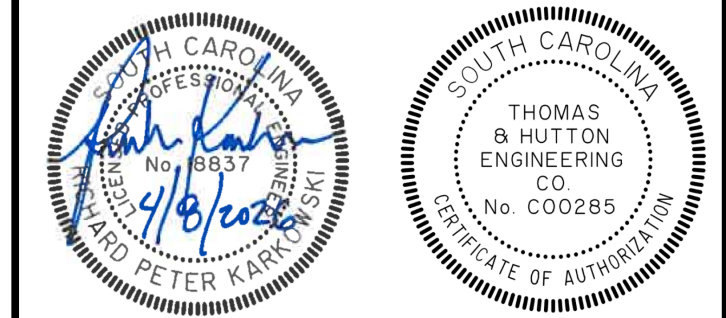


27091.0001 - DRAINAGE - ATLANTIC AVE. (3)

STATIONS: -0+25 - 0+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

NO.	REVISIONS	BY	DATE



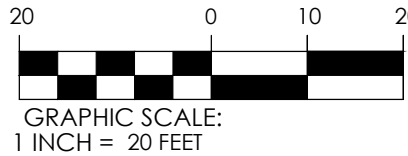
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www.thomasandhutton.com

DRAINAGE PROFILES

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



GRAPHIC SCALE:
1 INCH = 20 FEET

DATUM: HORZ.: NAD 83

VERT.: NAVD 88

JOB NO: 27091.0001
DATE:
DRAWN: AES
DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: 1" = 20'

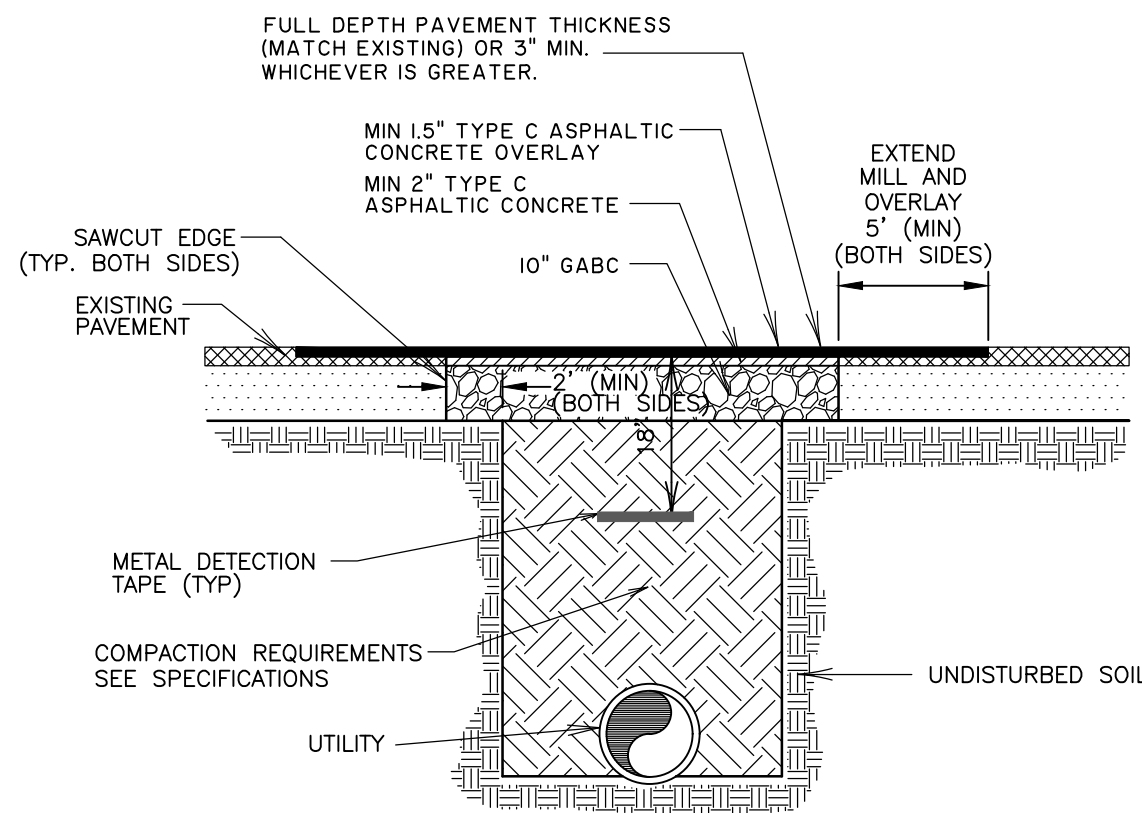
C2.7D

1. ALL WORK TO BE IN ACCORDANCE WITH THE SOUTH CAROLINA STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
2. EXISTING CRACKS AND DEFICIENCIES TO BE CORRECTED.

1

C3.1

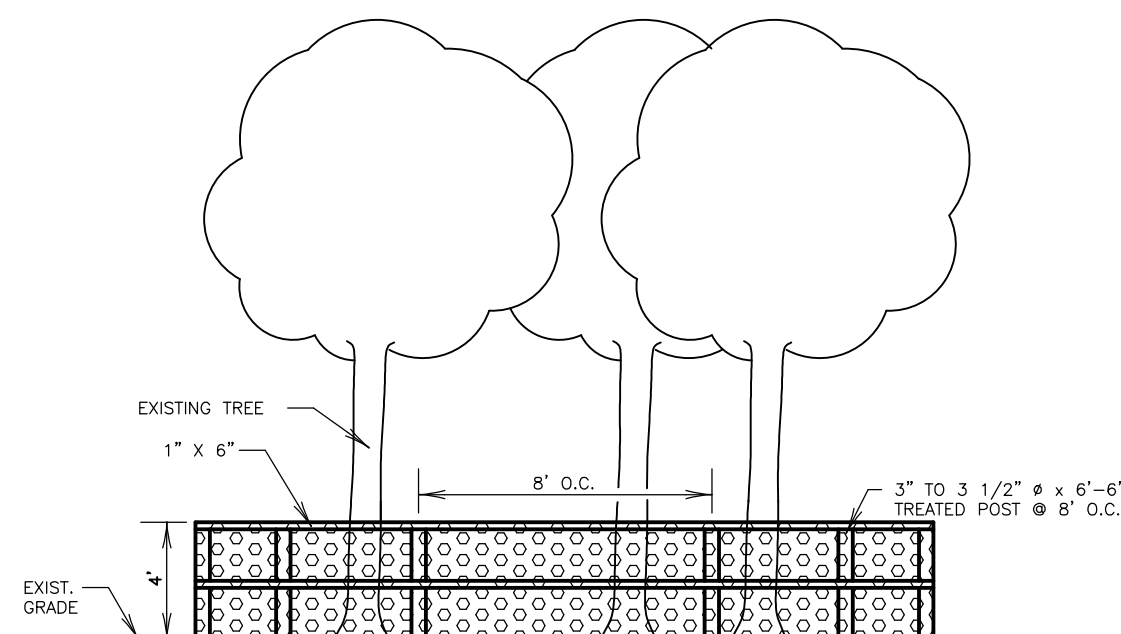
NOT TO SCALE



2

C3

NOT TO SCALE



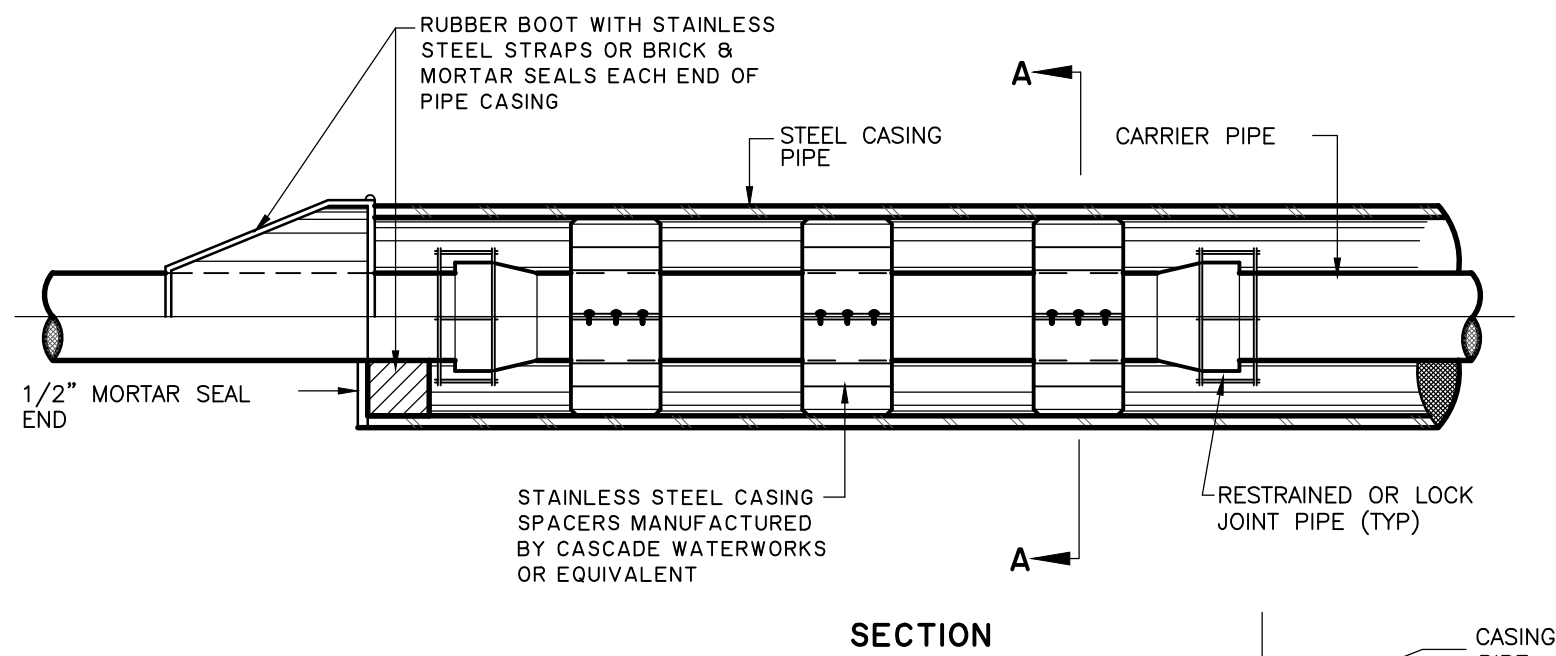
1. CONTRACTOR TO PROTECT AND SAVE TREE. INSTALL 4' HIGH WOODEN RAIL FENCE AROUND TREE. FENCE TO BE CONSTRUCTED OF TREATED LUMBER.
2. ATTACH RAILS TO POST WITH GALVANIZED NAILS..

3

C3.1

NOT TO SCALE

STEEL CASING PIPE SIZE REQUIREMENTS FOR ASTM A139 GRADE B		
RESTRAINED JOINT DIP. CARRIER PIPE SIZE (INCHES)	MINIMUM CASING SIZE(INCHES)	MINIMUM CASING THICKNESS (INCHES)
4	14	0.250
6	16	0.281
8	18	0.312
10	20	0.375
12	24	0.375
14	26	0.438
16	30	0.469
18	32	0.500
20	36	0.532



NOTES:

1. CASING SPACERS SHALL BE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. ALL HIGHWAY CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH SC D.O.T. REGULATIONS & PERMIT REQUIREMENTS.

SECTION A-A

4

C3.1

NOT TO SCALE

NOTES:

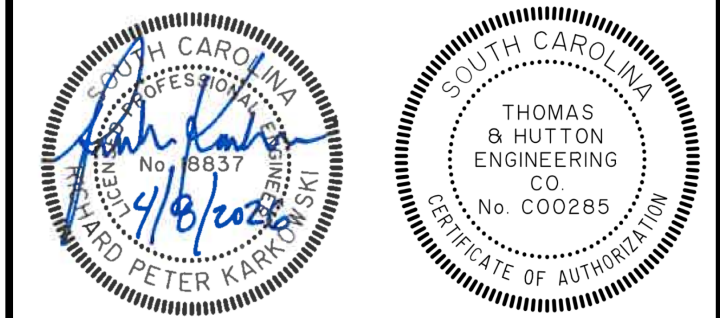
1. ALL ABANDONED LINES SHOULD BE FILLED WITH FLOWABLE FILL. PER SCDOT REQUIREMENTS.
2. FLOWABLE FILL SHALL BE USED AS BACK FILL MATERIAL FOR ALL ROADWAY CROSSINGS AND FOR EXCAVATION WITHIN 5 FEET FROM EDGE OF PAVEMENT FOR HIGH VOLUME ROADWAYS AND/OR WITHIN 3 FEET OF EDGE OF PAVEMENT FOR LOW VOLUME ROADWAYS.
3. ALL UTILITY LINES CROSSING UNDER STATE ROADWAYS MUST BE AT A MINIMUM DEPTH OF 48".
4. ALL WATER METERS, AIR VALVES, ELECTRIC TRANSFORMERS, CATV CONNECTION BOXES, TELEPHONE PEDESTALS, AND/OR OTHER UTILITY/SPLICE BOXES SHALL BE PLACED AT THE RIGHT OF WAY LINE.
5. THE DEPTH OF THE UTILITY LINE MUST MEET THE MINIMUM REQUIREMENTS PER THE UAM: 42" BELOW THE LOWEST POINT OF THE ROADWAY CROSS SECTION. THE ROADWAY CROSS SECTION INCLUDES ANY DRAINAGE STRUCTURE AND/OR DITCHES OR SWALES.
6. IF THERE IS ANY DIGGING, EXCAVATING, TRENCHING, BORING, ETC. WITHIN 1 MILE OF A SIGNALIZED INTERSECTION, THE PERMITEE IS RESPONSIBLE FOR CONTACTING THE SCDOT TRAFFIC SIGNAL SHOP AT 843-740-1668 BEFORE WORK BEGINS.
7. DRIVEWAYS THAT ARE IMPACTED BY OPEN CUT INSTALLATION METHOD, SHALL BE OVERLAID FOR THE FULL WIDTH WITHIN THE RIGHT OF WAY LIMITS WITH LIKE MATERIAL.
8. FINAL MILL AND OVERLAY SHALL BE 5' ON EACH SIDE OF ROAD CUT AND EXTEND THE FULL LANE WIDTH. IF CUT ENCLOSES ON MORE THAN ONE LANE, THEN FINAL MILL AND OVERLAY WILL EXTEND THE FULL WIDTH OF SECOND LANE. IF ROAD CUT IS IN THE INTERSECTION, THE ENTIRE INTERSECTION SHALL BE MILLED AND OVERLAID RADIUS TO RADIUS.
9. FIRE HYDRANTS SHALL BE PLACED A MINIMUM OF 10' FROM THE EDGE OF THE PAVEMENT AND/OR BEHIND DITCH LINES.
10. ANY AND ALL VENTS INSTALLED FOR CASING PIPE MUST BE LOCATED AT THE RIGHT OF WAY LINE.

SCDOT DETAIL REFERENCE

NOTE: CONTRACTOR TO REFER TO MOST CURRENT EDITION OF THE SCDOT STANDARD DRAWINGS
WEBSITE FOR CURRENT DETAILS:

<https://www.scdot.org/business/standard-drawings.html>

DETAIL #	DETAIL NAME
203-000-00	EXCAVATION
601-205-01	PROTECTION OF EXCAVATIONS ADJACENT TO ROADWAY
602-005-00	CONSTRUCTION SIGNING TEMP PORTABLE SIGN SUPPORTS INSTALLATION
610-005-00	FLAGGING OPERATIONS TWO-LANE TWO-WAY PRIMARY & SECONDARY ROUTES
610-005-10	FLAGGING OPERATION TWO-LANE TWO-WAY ROADWAYS WITHOUT INTERSECTIONS
610-005-20	FLAGGING OPERATION WORK ZONE THRU STOP STOP SIGN CONTROLLED SIDE ROADS
610-005-30	FLAGGING OPERATIONS WORK ZONES CONTINUING THROUGH STOP SIGN CONTROLLED INTERSECTIONS
610-010-00	LANE CLOSURE DAYTIME URBAN LOW SPEED < / = 35 MPH
610-205-00	RIGHT SHOULDER CLOSURE (CASE 1 & CASE 2) PRIMARY ROUTES
610-605-00	DETOUR SIGNING FOR PRIMARY & INTERSTATE ROUTES
610-610-00	DETOUR SIGNING FOR SECONDARY ROUTES
625-105-00	PAVEMENT EDGE MARKING AND STOP LIMITS
625-305-00	INTERSECTIONS STANDARD MARKINGS FOR INTERSECTIONS
625-305-01	STANDARD MARKINGS FOR INTERSECTIONS
630-205-00	PAVEMENT MARKING TYPICAL LINE PATTERNS & RAISED MARKER PLACEMENT
650-110-02	INSTALLATION GUIDE
651-110-00	FLAT SHEET MOUNTING DETAILS
714-005-00	PIPE CULVERTS
714-105-00	PIPE CULVERTS RIGID PIPE COMPLETED TRENCH
719-000-01	DRAINAGE STRUCTURE GENERAL NOTES
719-000-02	DRAINAGE STRUCTURE GENERAL NOTES
719-000-03	DRAINAGE STRUCTURE GENERAL NOTES
719-000-04	DRAINAGE STRUCTURE GENERAL NOTES
719-110-01	DROP INLET (24" X 36") DETAILS
719-305-00	DRAINAGE SUBSTRUCTURE RECTANGULAR (PRECAST SOLID WALL BOX)
719-610-00	DRAINAGE END TREATMENT (RCP BEVELED END)
720-155-00	SIDEWALK WITH GRASS STRIP ADJACENT TO CURB
720-901-01	PEDESTRIAN RAMPS GENERAL NOTES & DEFINITIONS
720-901-02	PEDESTRIAN RAMPS GENERAL NOTES & DEFINITIONS
720-901-03	PEDESTRIAN RAMPS GENERAL NOTES & DEFINITIONS
720-910-01	DETECTABLE WARNING SURFACE WET INSET MECHANICAL ANCHORS & THREADED INSERTS RAMP
720-920-05	PEDESTRIAN RAMP INTERSECTION

[illegible]

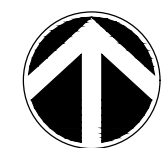
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Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

DETAILS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



1 0 .5
GRAPHIC SCALE:
1 INCH = 1 FEET

DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

JOB NO: 27091.0001

DATE: _____

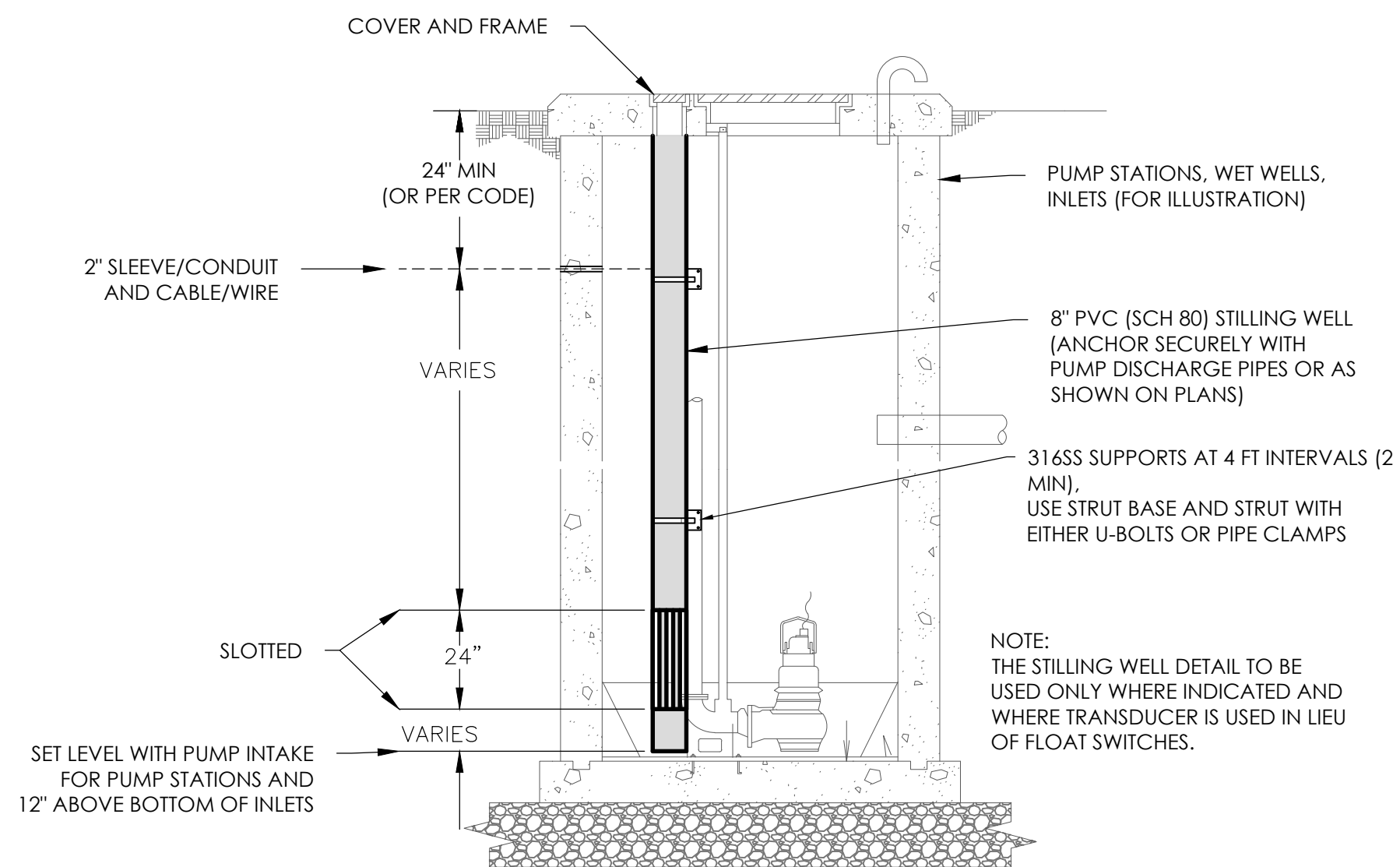
DRAWN:	AES
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DESIGNED: AES

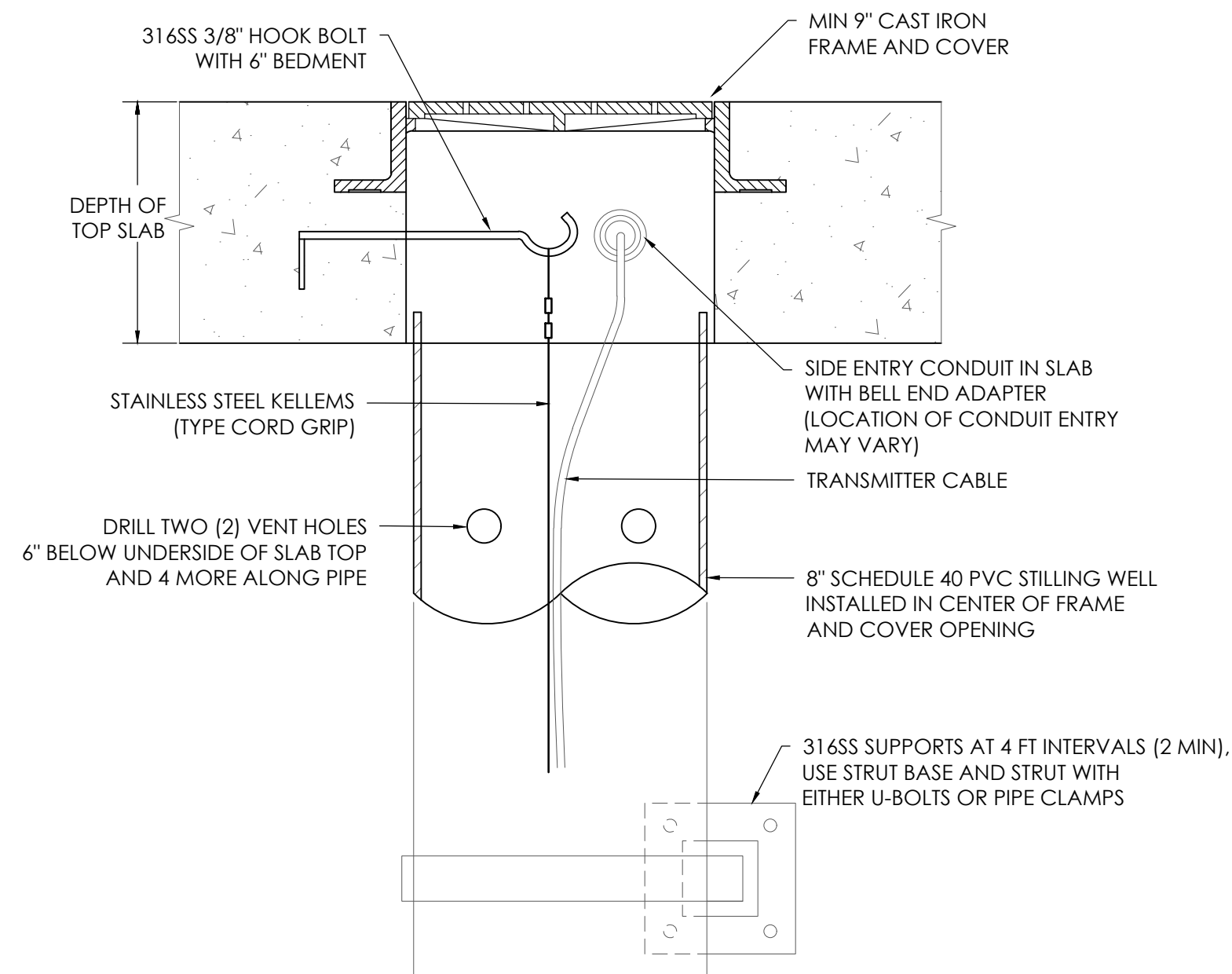
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APPROVED:	RPK

APPROVED: RPK

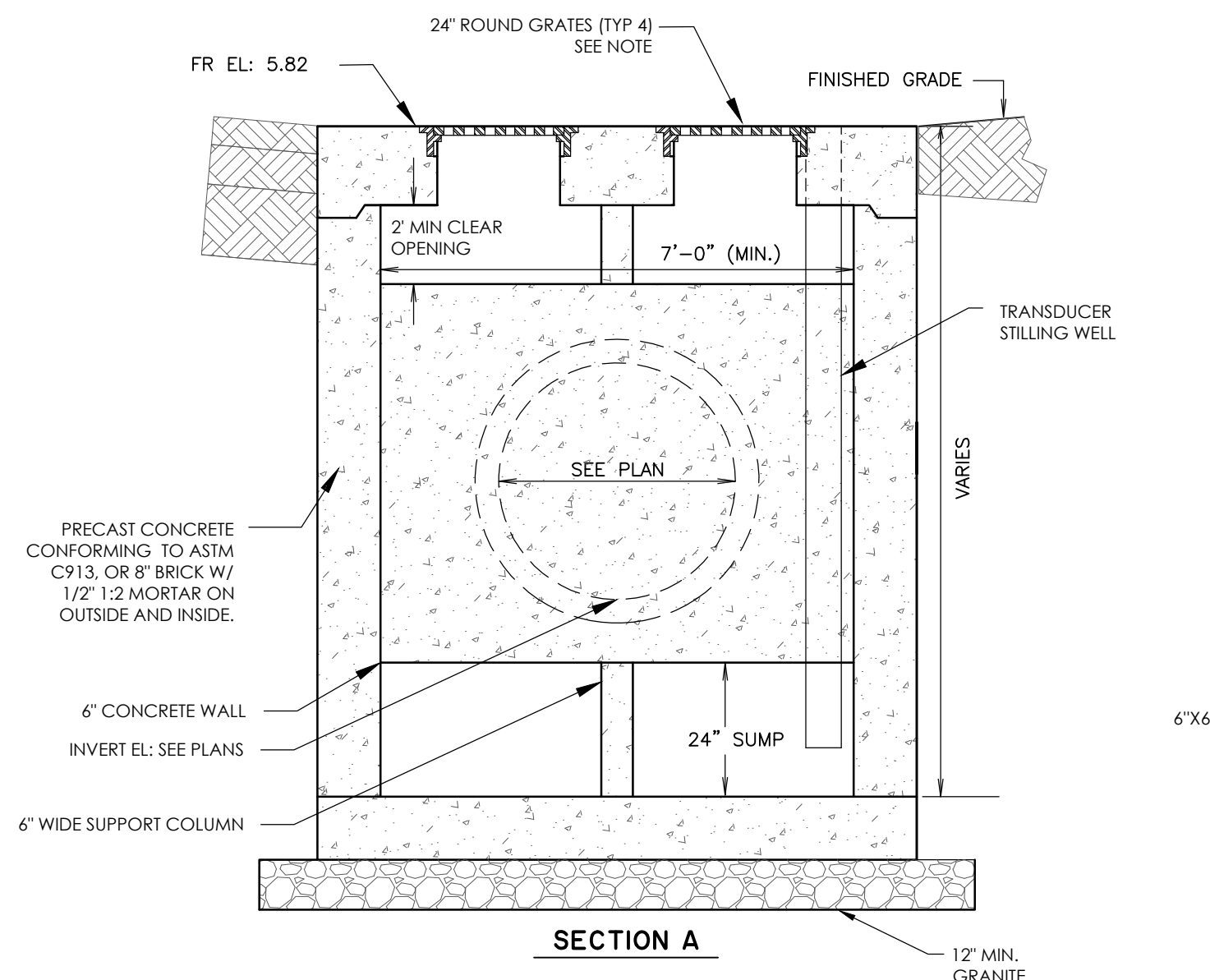
C3.1



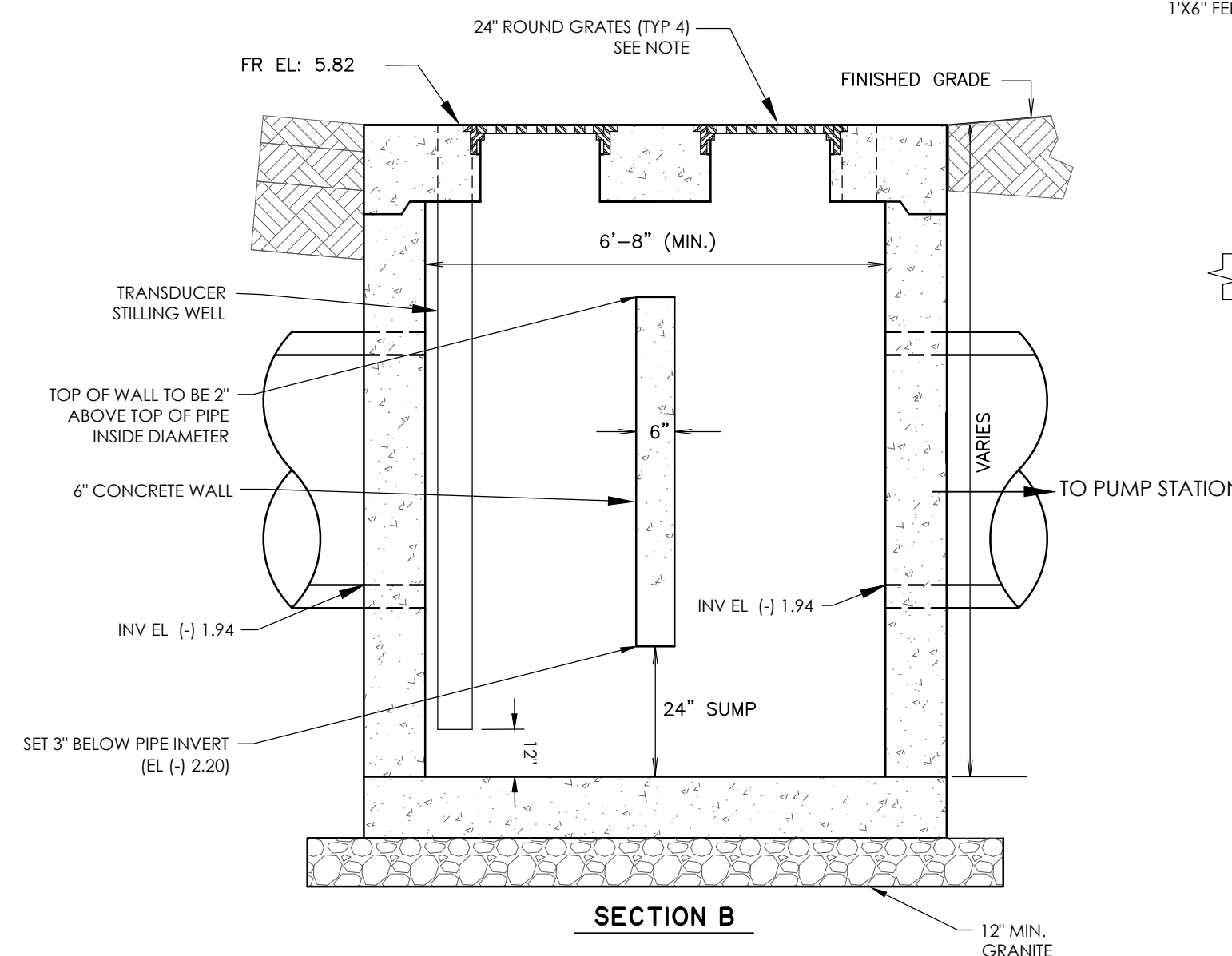
3 C3.2 TRANSDUCER/TRANSMITTER STILLING WELL NOT TO SCALE



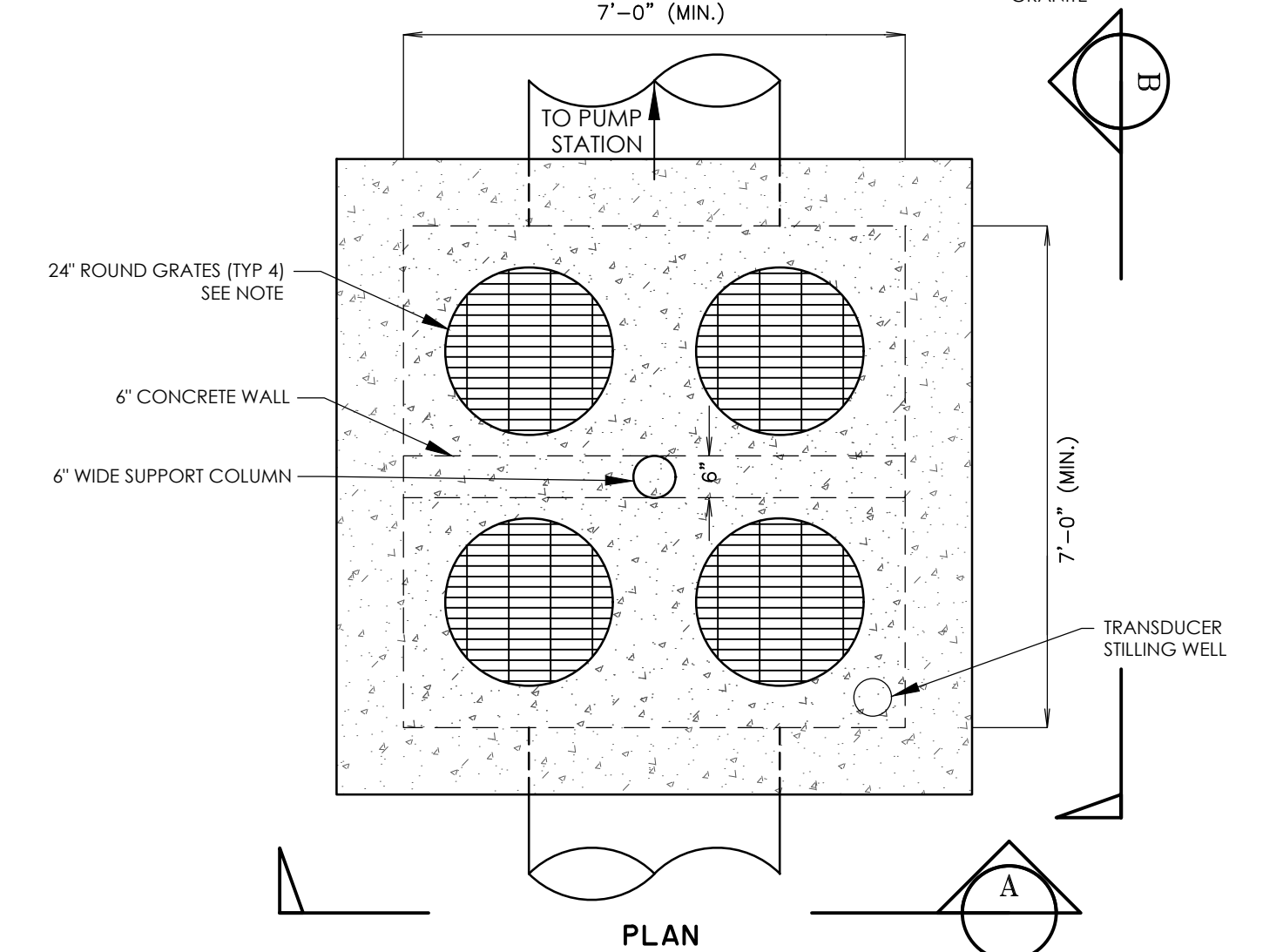
4 SUBMERSIBLE LIQUID LEVEL TRANSMITTER (STILLING WELL)



SECTION A



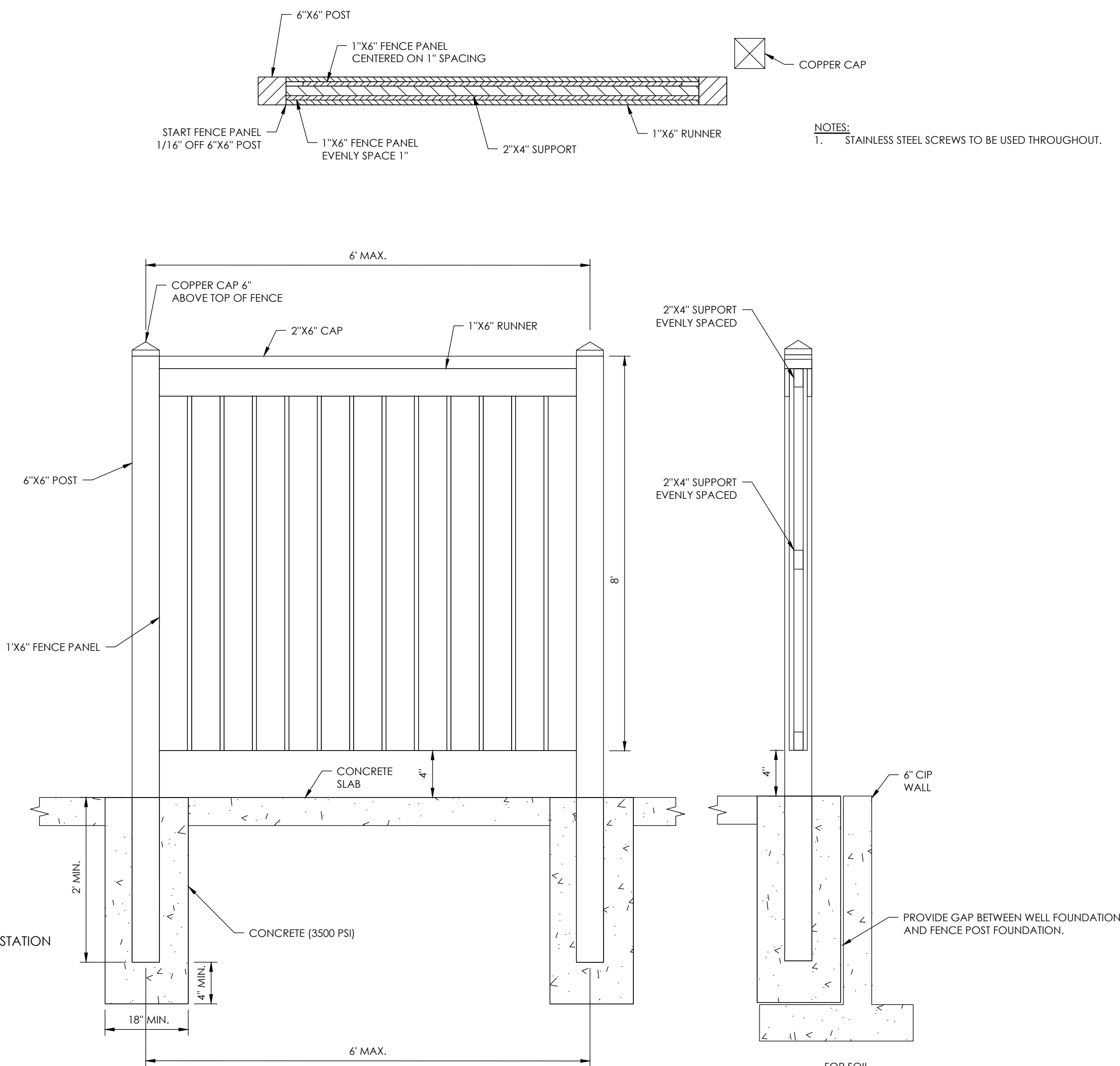
SECTION B



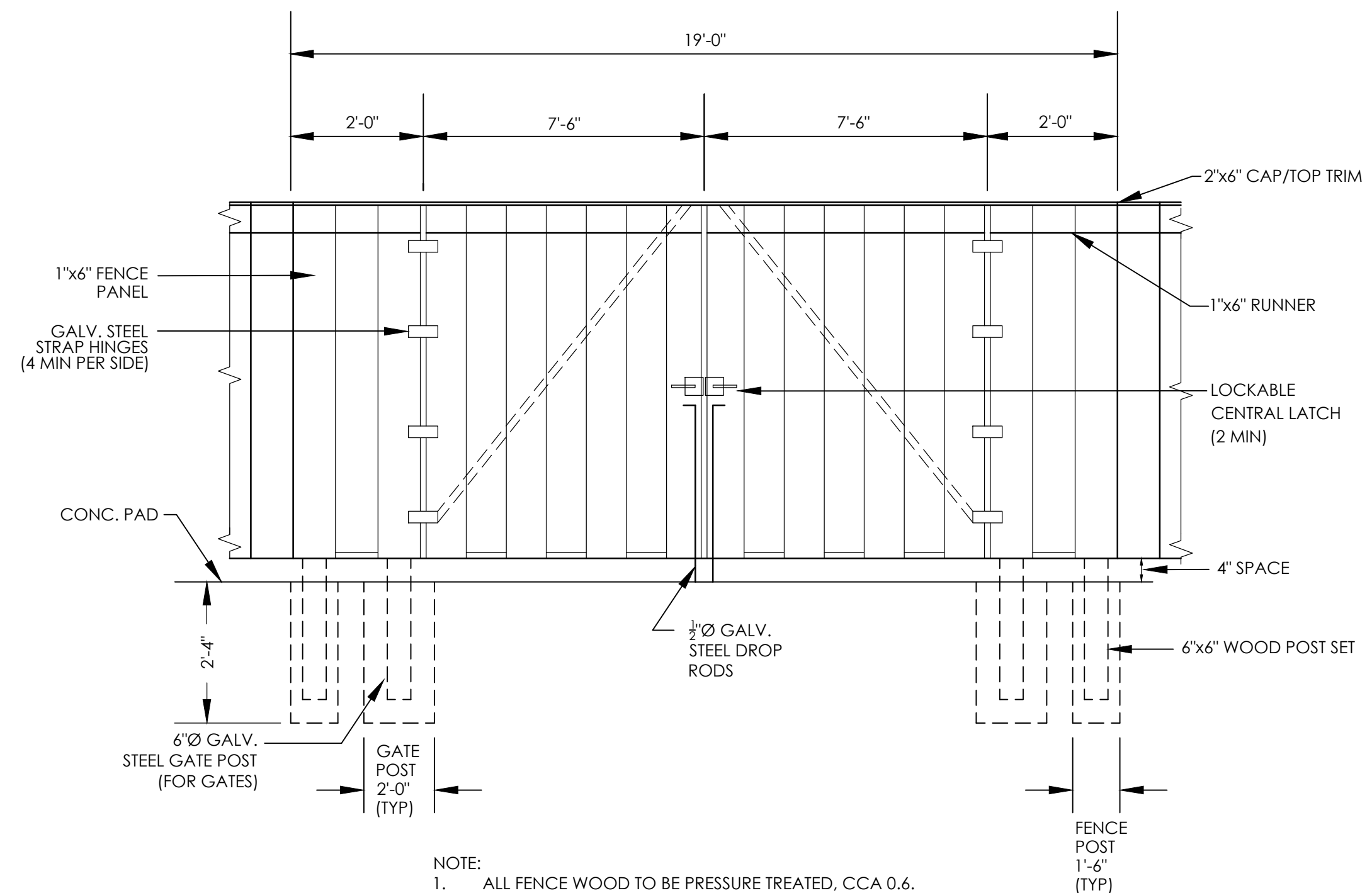
PLAN

- NOTE:
1. SEDIMENT INLETS SHOWN IN PLAN SHEETS, GI#1 AND JB#24.
 2. HEAVY DUTY FRAME (AASHTO HL-93 TRAFFIC RATED) W/ ROUND GRATES US FOUNDARY, OR APPROVED EQUAL
 3. COAT INSIDE OF STRUCTURE WITH TNEC SERIES 431, RAVEN 405 OR EQUIVALENT. COATING THICKNESS SHALL BE 80 MIL (MIN).

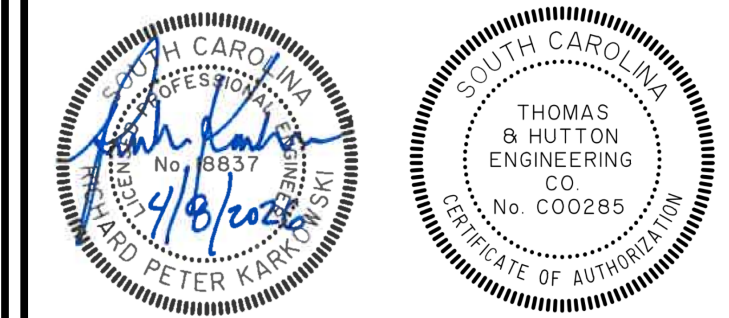
2 SEDIMENT INLET
C3.2 NOT TO SCALE



1 WOOD PRIVACY FENCE
C3.2 NOT TO SCALE



- NOTE:
1. ALL FENCE WOOD TO BE PRESSURE TREATED, CCA 0.6.
 2. ALL GALVANIZED COMPONENTS SHALL BE HOT DIP GALVANIZED.
 3. FENCE DETAIL PROVIDED BY THE TOWN OF SULLIVAN'S ISLAND.
 4. MATERIALS OTHER THAN WOOD WILL BE CONSIDERED FOR THE DOUBLE GATE.
 5. FENCE TO BE STAINED COLOR SELECTED BY OWNER.

[illegible]

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DETAILS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

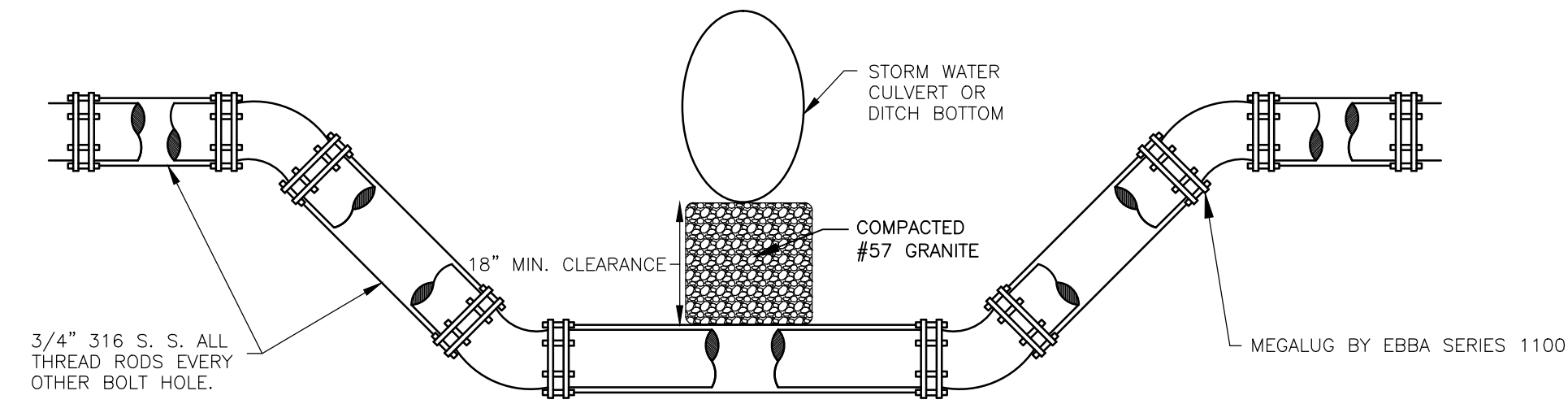
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	AES
DESIGNED:	AES
REVIEWED:	RPK
APPROVED:	RPK
SCALE:	AS NOTED

C3.2

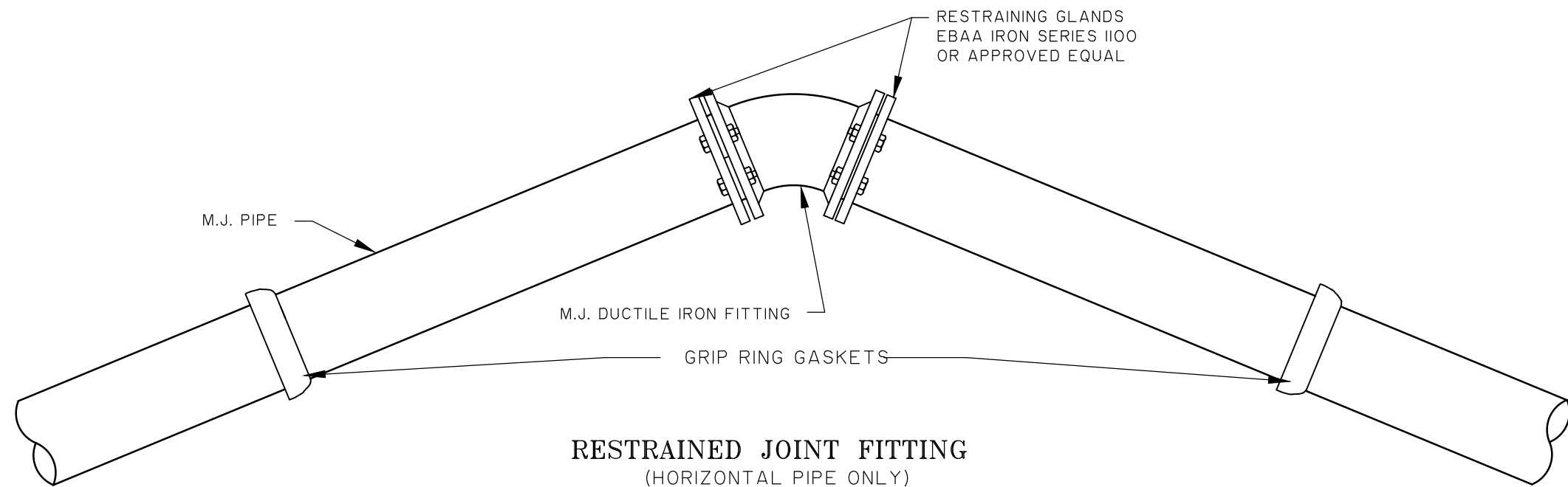
2/2/2019 12:00 PM UNREGISTERED DRAFTER/CONSTRUCTION PLANS/SPW/001 - DETAILS.DWG - Nov 12, 2008 - 9:02 AM



DUCTILE IRON MEGALUG SHALL CONFORM TO ASTM A536-80 SPECIFICATIONS.

1 VERTICAL OFFSET DETAIL

C3.3 NOT TO SCALE



NOTES:

- THE FOLLOWING CONDITIONS WERE USED TO CALCULATE THE RESTRAINED LENGTHS:
LAYING CONDITION IS TYPE 3;
SOIL DESIGNATED AS SAND-SILT;
DEPTH IS 3 FT.;
DESIGN PRESSURE (TEST) IS 150 PSI;
SAFETY FACTOR IS 1.5.

FOR THE TEE BRANCH AND REDUCER, LENGTHS IN THE TABLE BELOW ARE BASED ON BRANCHING AND REDUCING FROM THE NEXT LARGER SIZE IN THE TABLE. DEVIATIONS FROM THESE CONDITIONS MUST BE BASED ON THE ABOVE PARAMETERS.

- JOINT RESTRAINT SHALL BE:
FOR PVC (4'-12') : EBAA SERIES 1500 RESTRAINT HARNESS OR APPROVED EQUIVALENT
FOR DIP : EBAA SERIES 1700 RESTRAINT HARNESS OR APPROVED EQUIVALENT

RESTRAINED JOINT TABLE								
LENGTH OF RESTRAINED JOINT REQUIRED (IN L.F. EACH SIDE OF THE BEND)								
SIZE	11	1/4"	22	1/2"	45°	90°	TEE BRANCH	DEAD END
4"	2	5	10	24	37	60	44	60
6"	3	7	14	33	64	85	46	85
8"	4	9	18	43	90	110	46	110
10"	5	10	21	51	113	133	50	133
12"	10	20	30	60	140	160	60	160

2 RESTRAINED JOINT FITTING

C3.3 NOT TO SCALE

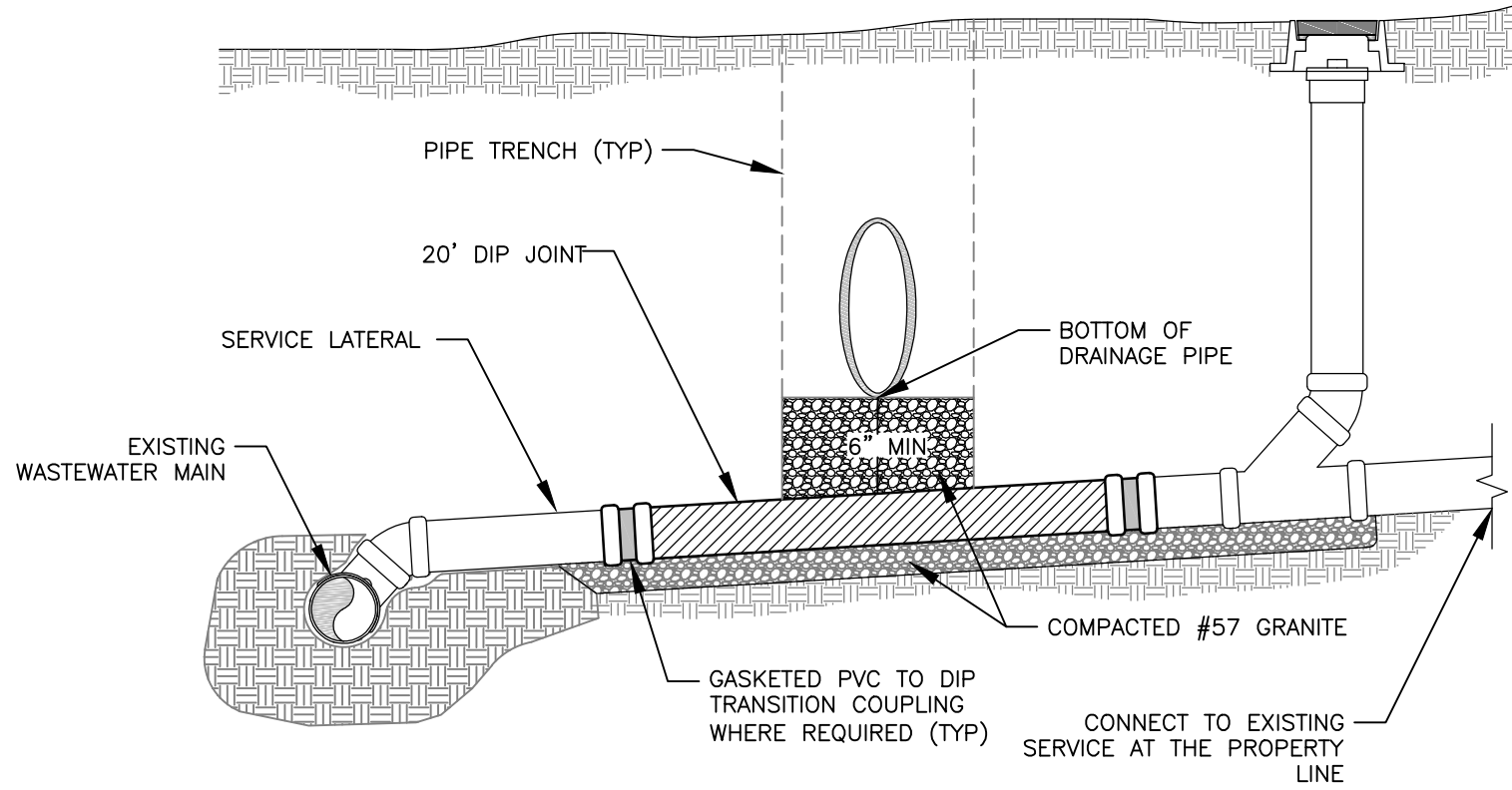
- THE CONTRACTOR MUST CALL TOWN OF SULLIVAN'S ISLAND WATER & SEWER DEPARTMENT, 72 HOURS PRIOR TO TAPPING THE MAIN WATER LINE, PERFORMING A PRESSURE TEST, OR CONDUCTING BACTERIOLOGICAL TESTS. TOWN OF SULLIVAN'S ISLAND WATER & SEWER DEPARTMENT WILL HAVE A REPRESENTATIVE ON SITE FOR EACH OF THESE EVENTS. TOWN OF SULLIVAN'S ISLAND WATER & SEWER DEPARTMENT MUST ALSO BE NOTIFIED AND PRESENT FOR THE INSPECTION OF ALL WATER AND SEWER INSTALLATIONS PRIOR TO THEM BEING COVERED.

- AFTER A SUCCESSFUL PRESSURE TEST, THE CONTRACTOR MUST CONDUCT BACTERIOLOGICAL TESTS ACCORDING TO SC DES (FORMERLY SC DHEC) REGULATIONS. TWO SAMPLES MUST SHOW NEGATIVE BACTERIOLOGICAL RESULTS OR THE PROCESS MUST BE REPEATED. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF ALL TESTING, INCLUDING WATER USED IN FLUSHING.

- TOWN OF SULLIVAN'S ISLAND WATER & SEWER DEPARTMENT SHALL HAVE THE RIGHT OF ENTRY TO THE CONSTRUCTION SITE TO OBSERVE AND VERIFY THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND TO WITNESS TESTING OF THE SYSTEM.

3 GENERAL NOTES

C3.3 NOT TO SCALE

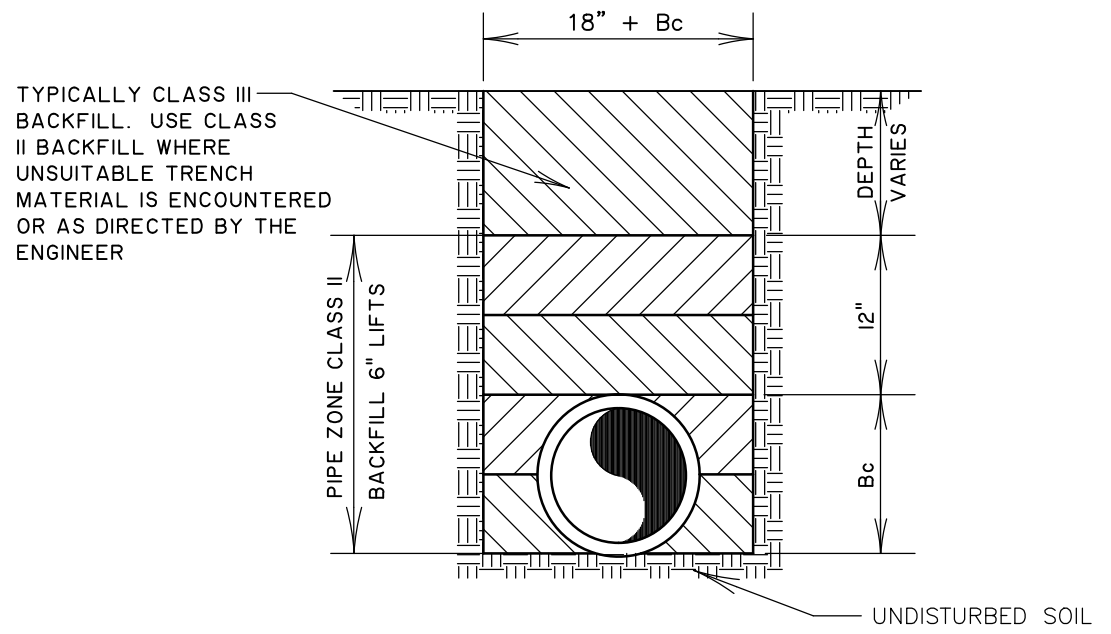


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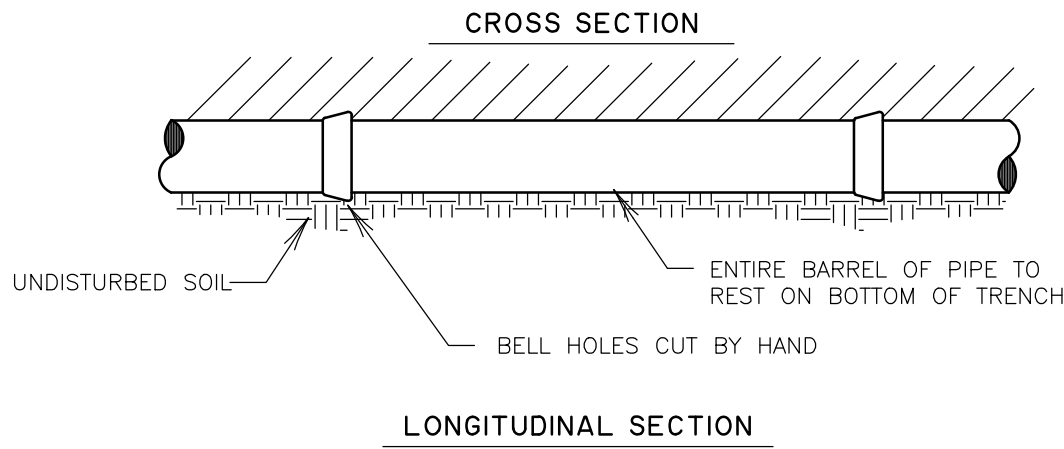
- IF 18" OF COVER IS NOT POSSIBLE UNDER CROSSING, USE DUCTILE IRON PIPE LINED WITH PROTECTO 401 WITH MIN THICKNESS OF 40 MILS.
- TRANSITION FROM PVC TO DIP USING GASKETED PVC SLIP-ON TRANSITION COUPLINGS (NO FERNCO OR MJ COUPLINGS) WHERE REQUIRED.
- THIS DETAIL ALSO APPLIES TO UN-PIPED DITCH CROSSINGS OR SWALES WITH LESS THAN 36" OF COVER.
- SERVICE LATERAL (SANITARY SEWER) SHALL HAVE 1.0% MIN GRADE/SLOPE.

4 LATERAL CROSSING DETAIL (EXISTING SANITARY SEWER SERVICE/LATERAL)

C3.3 NOT TO SCALE

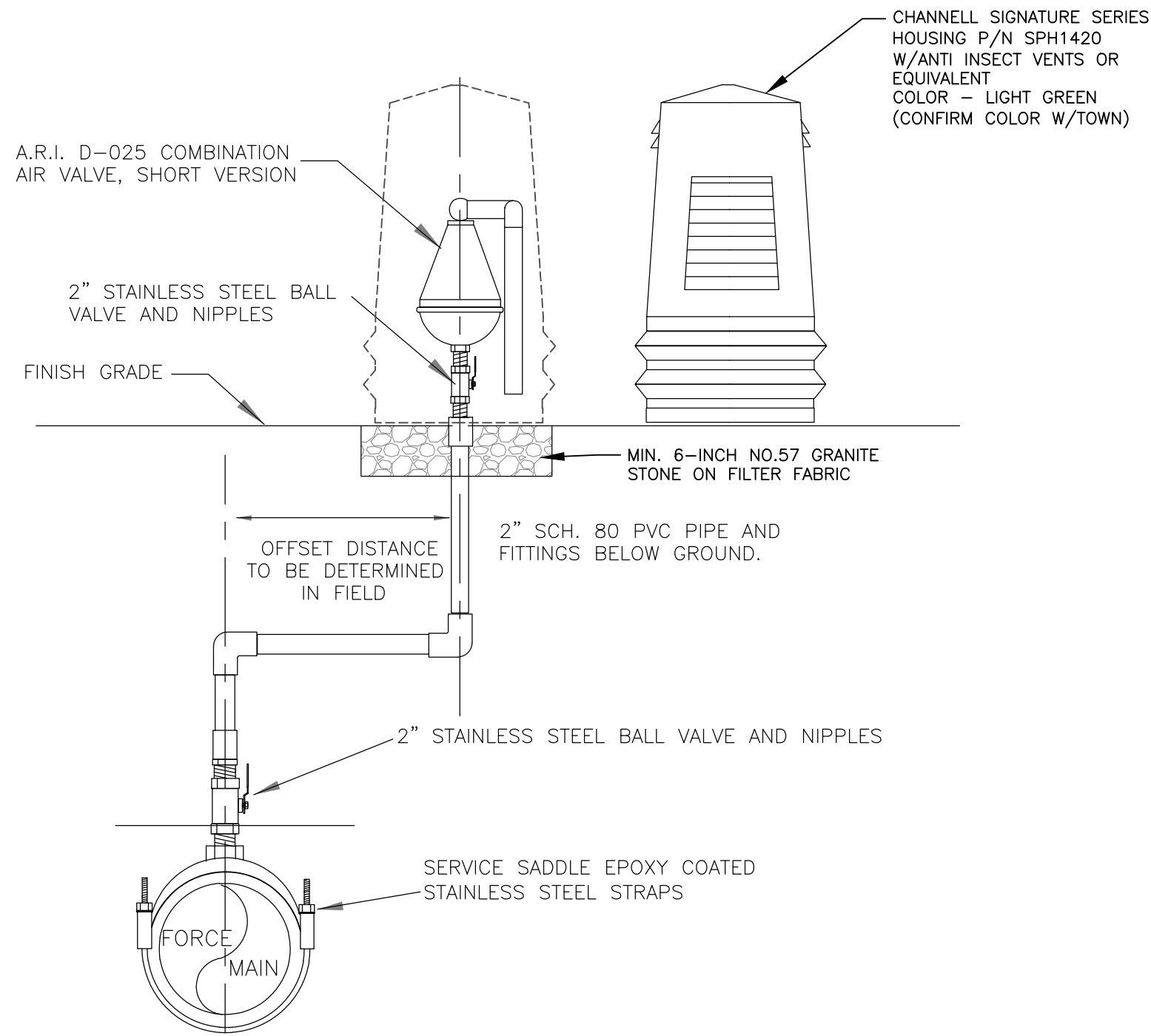


- INSTALL APPROVED METAL DETECTION TAPE 18" FROM FINISHED GRADE.
- ALL DUCTILE IRON PIPE WATER MAIN SHALL BE ENCASED IN 8 MIL. MINIMUM POLYETHYLENE FILM IN TUBE FORM.



5 WATER MAIN BEDDING DETAIL

C3.3 NOT TO SCALE

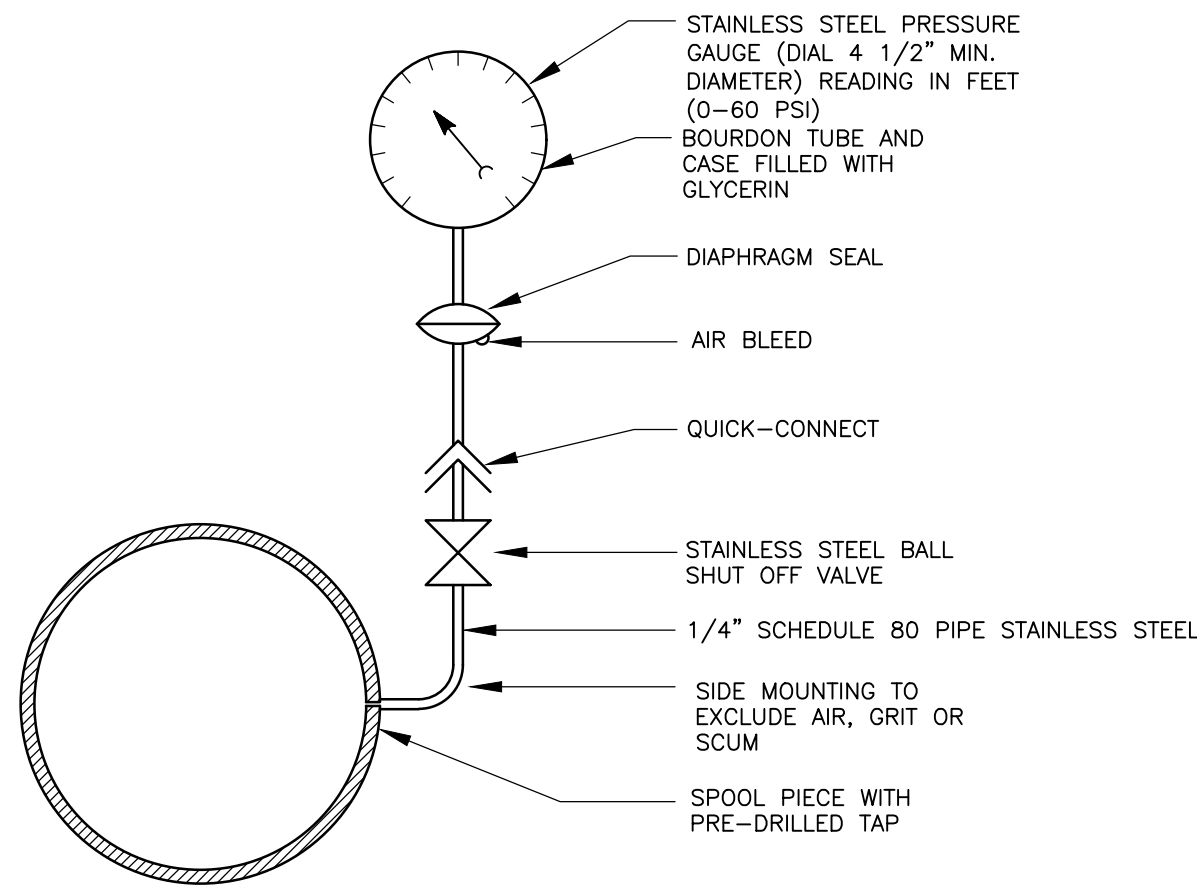


NOTES:

- AIR RELEASE VALVES ARE REQUIRED ON 4" AND LARGER FORCE MAINS.
- WHERE POSSIBLE ARV IS TO BE MOUNTED ABOVE GROUND.
- ARV TO BE SIZED ACCORDING TO MANUFACTURE'S RECOMMENDATION FOR FORCE MAIN SIZE.
- LOCATE/SITE ARV WITH OWNER PRIOR TO SETTING ABOVE GROUND VALVE AND BOX.

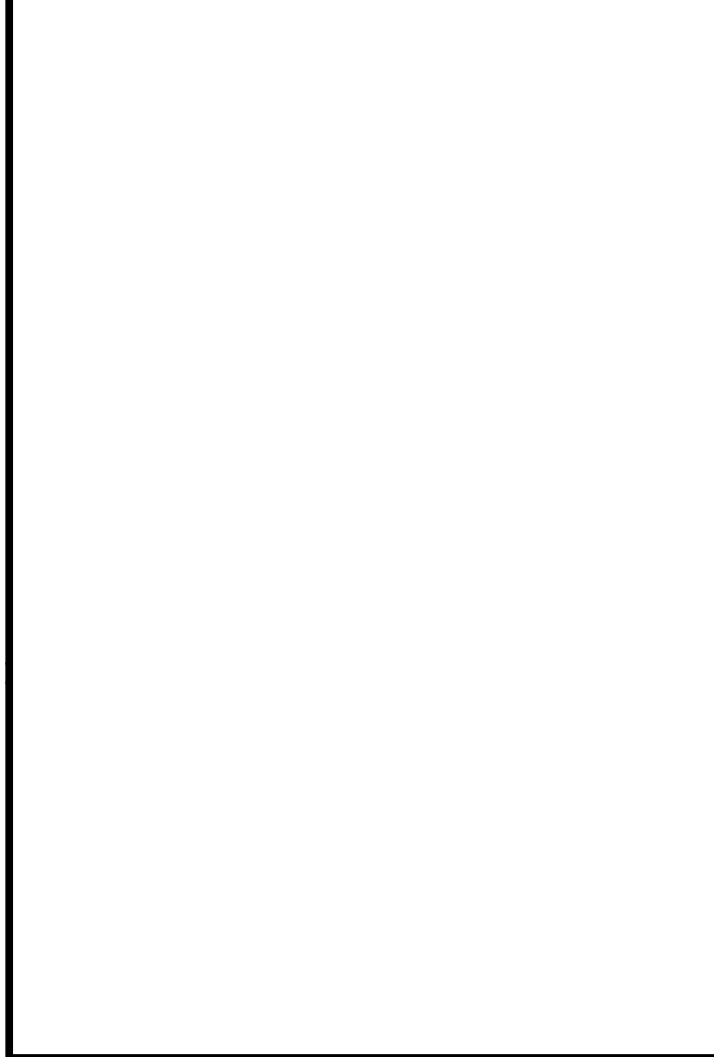
6 FORCE MAIN AIR RELEASE VALVE

C3.3 NOT TO SCALE



7 PRESSURE GAUGE INSTALLATION DETAIL

C3.3 NOT TO SCALE



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DETAILS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

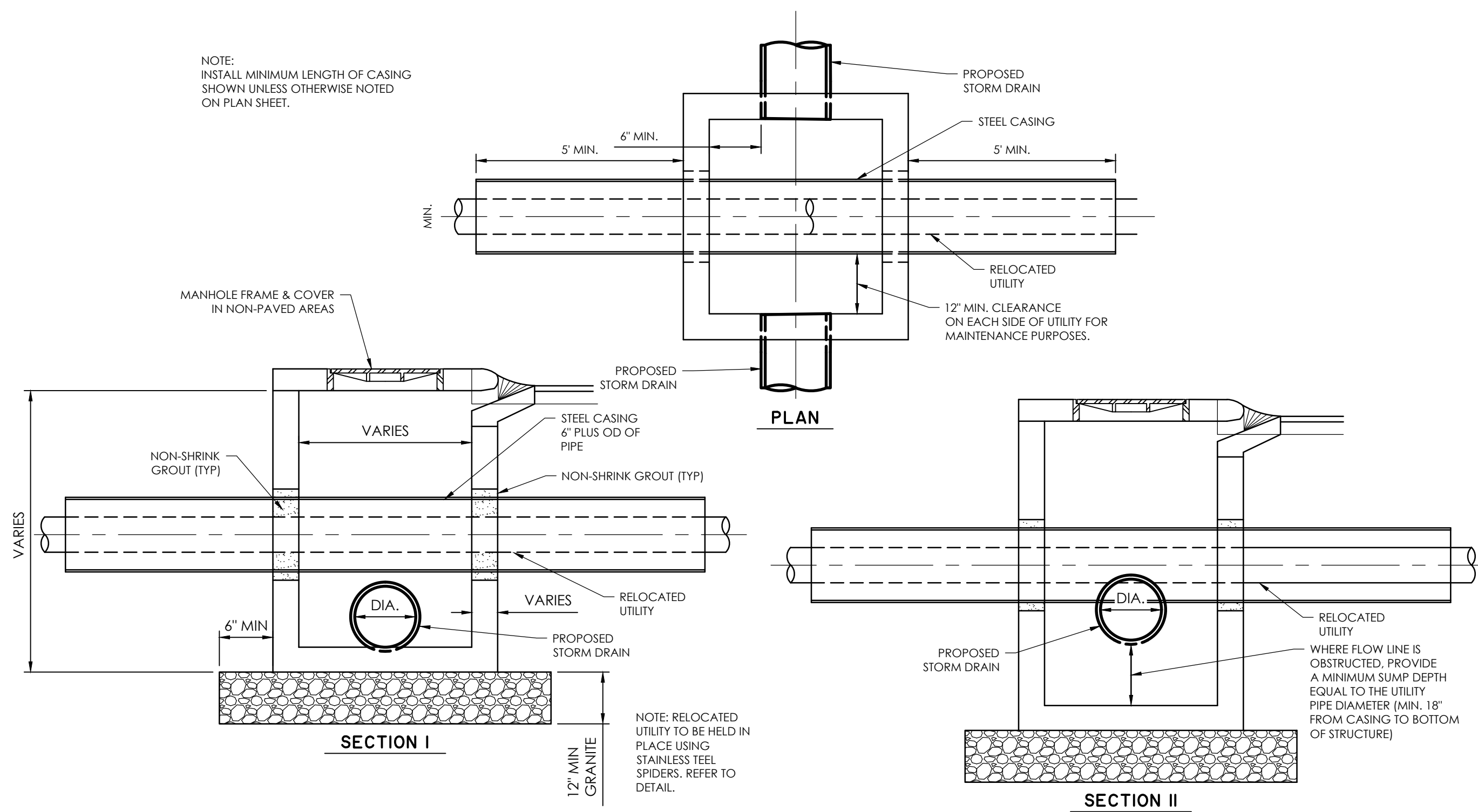
GRAPHIC SCALE:
1 INCH = 1 FEET

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001
DATE: _____
DRAWN: _____
DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: 1" = 1'

C3.3

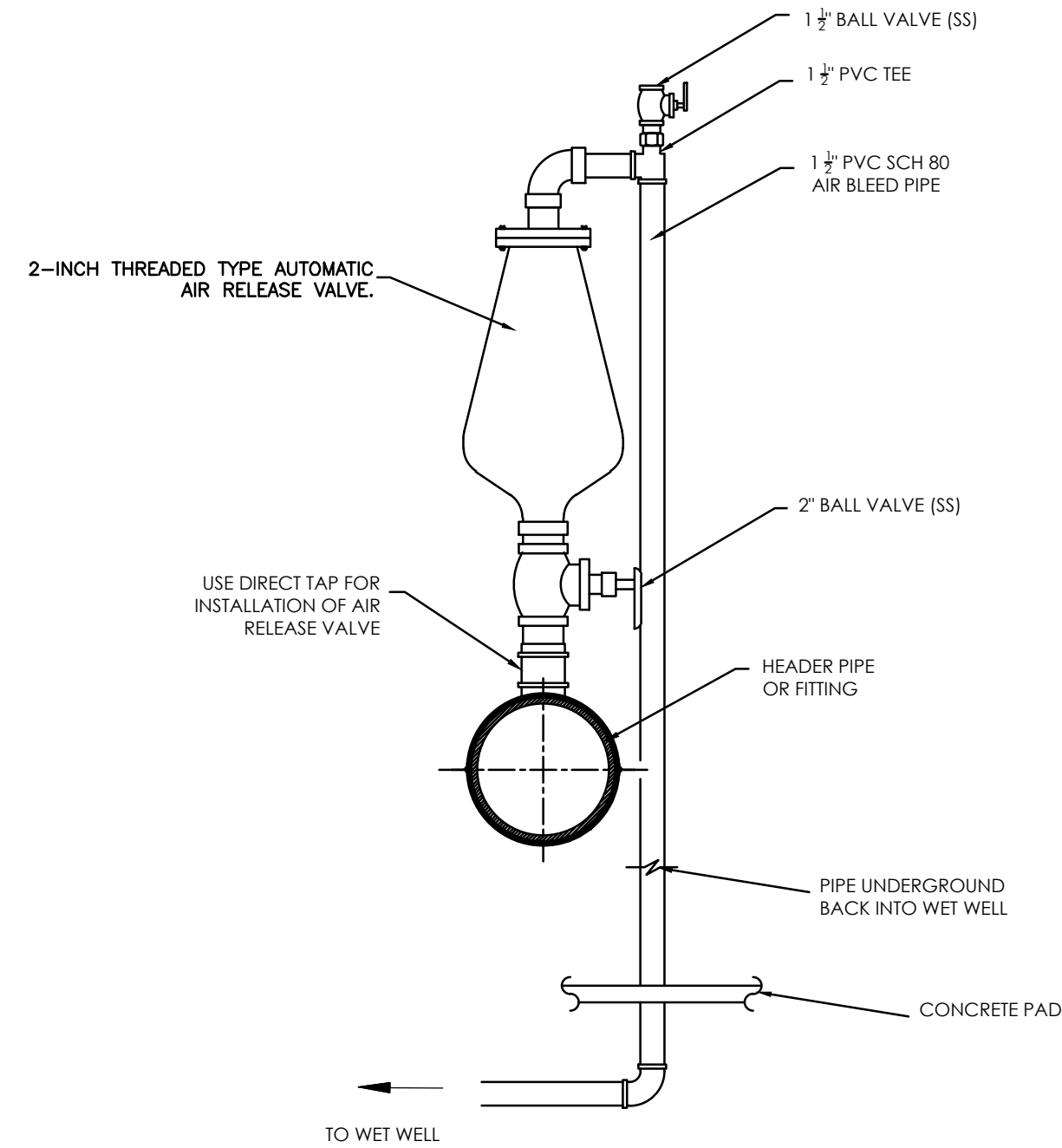
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4
C3.4

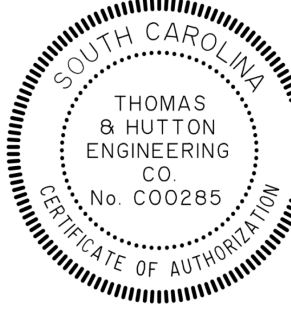
CONFLICT BOX DETAIL

NOT TO SCALE



**AIR RELEASE VALVE INSTALLATION
DETAIL AT HEADER**

NOT TO SCALE



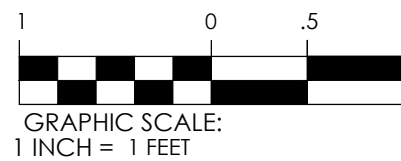
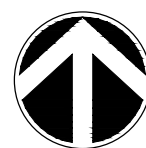
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DETAILS

MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



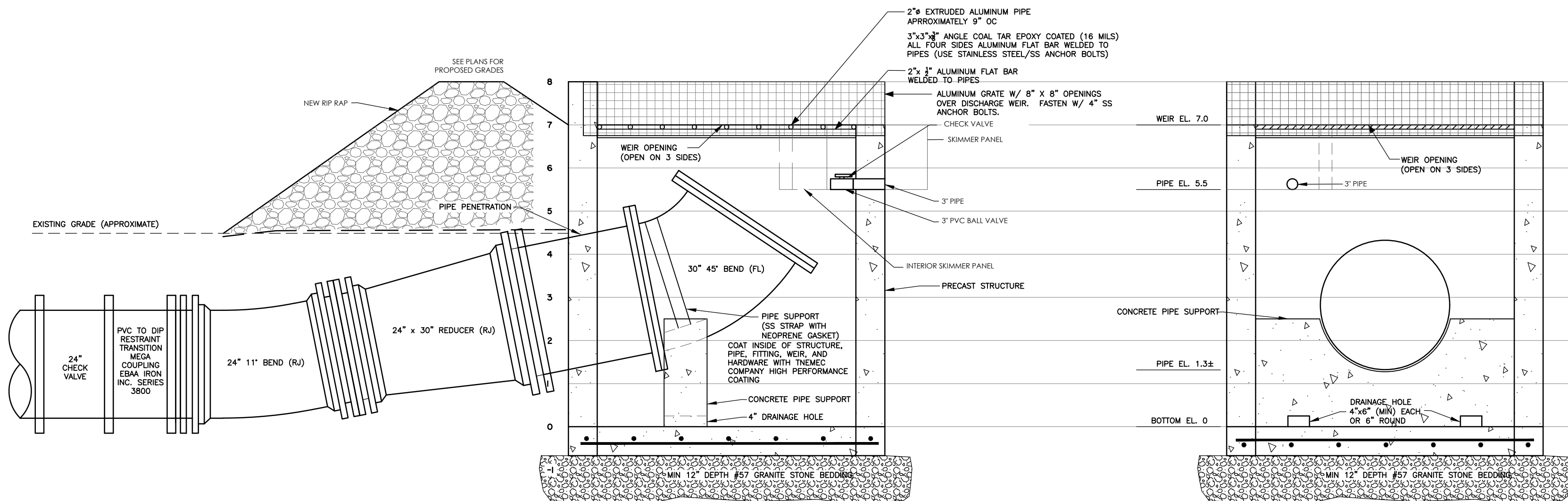
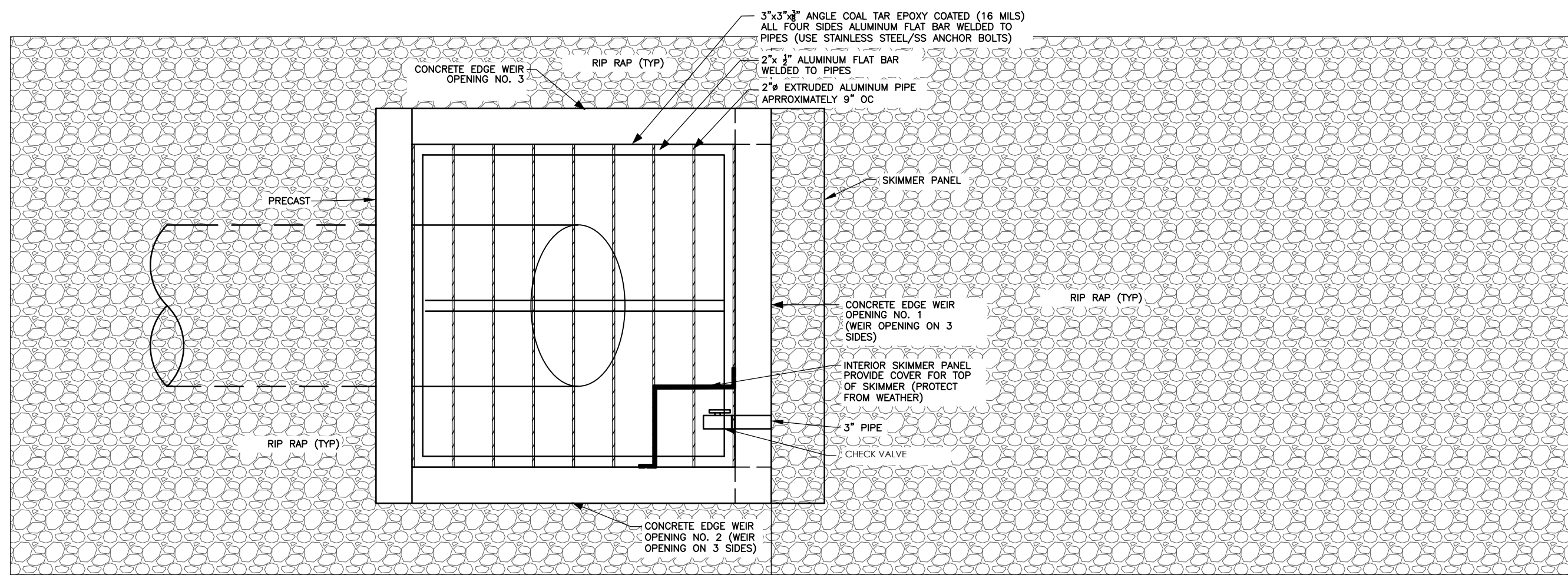
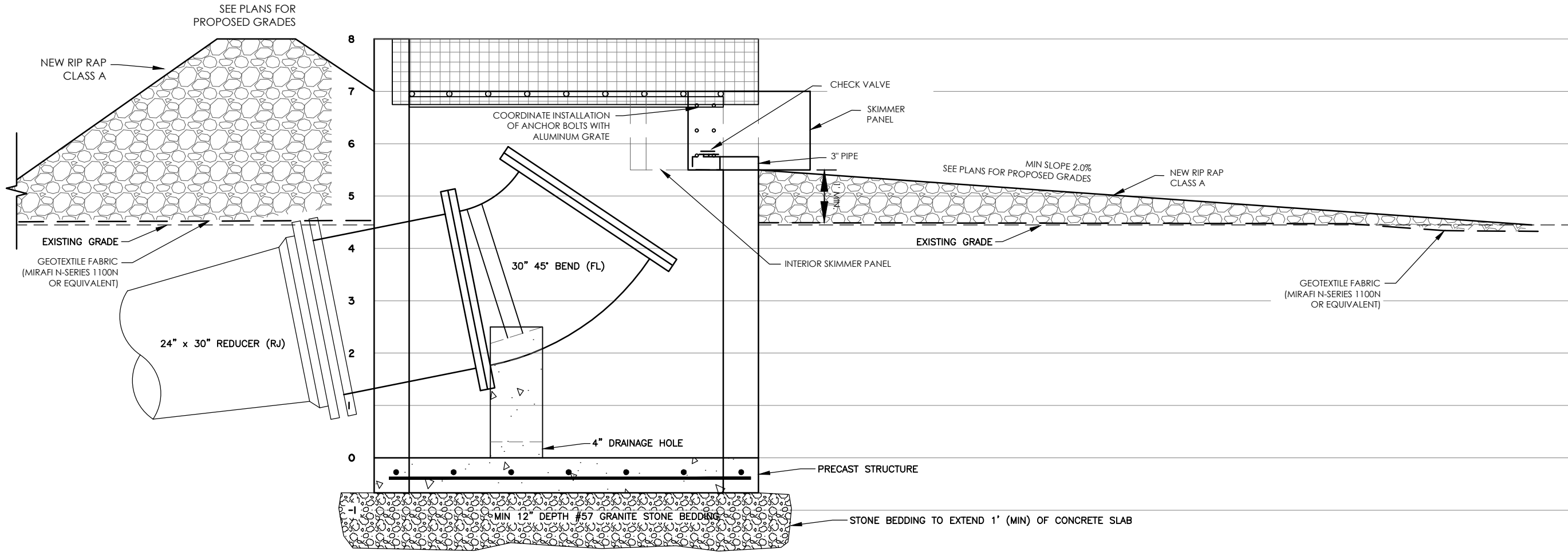
DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

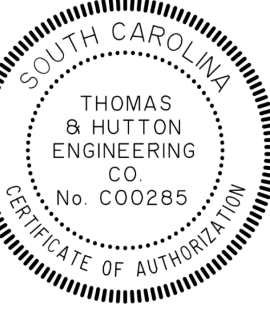
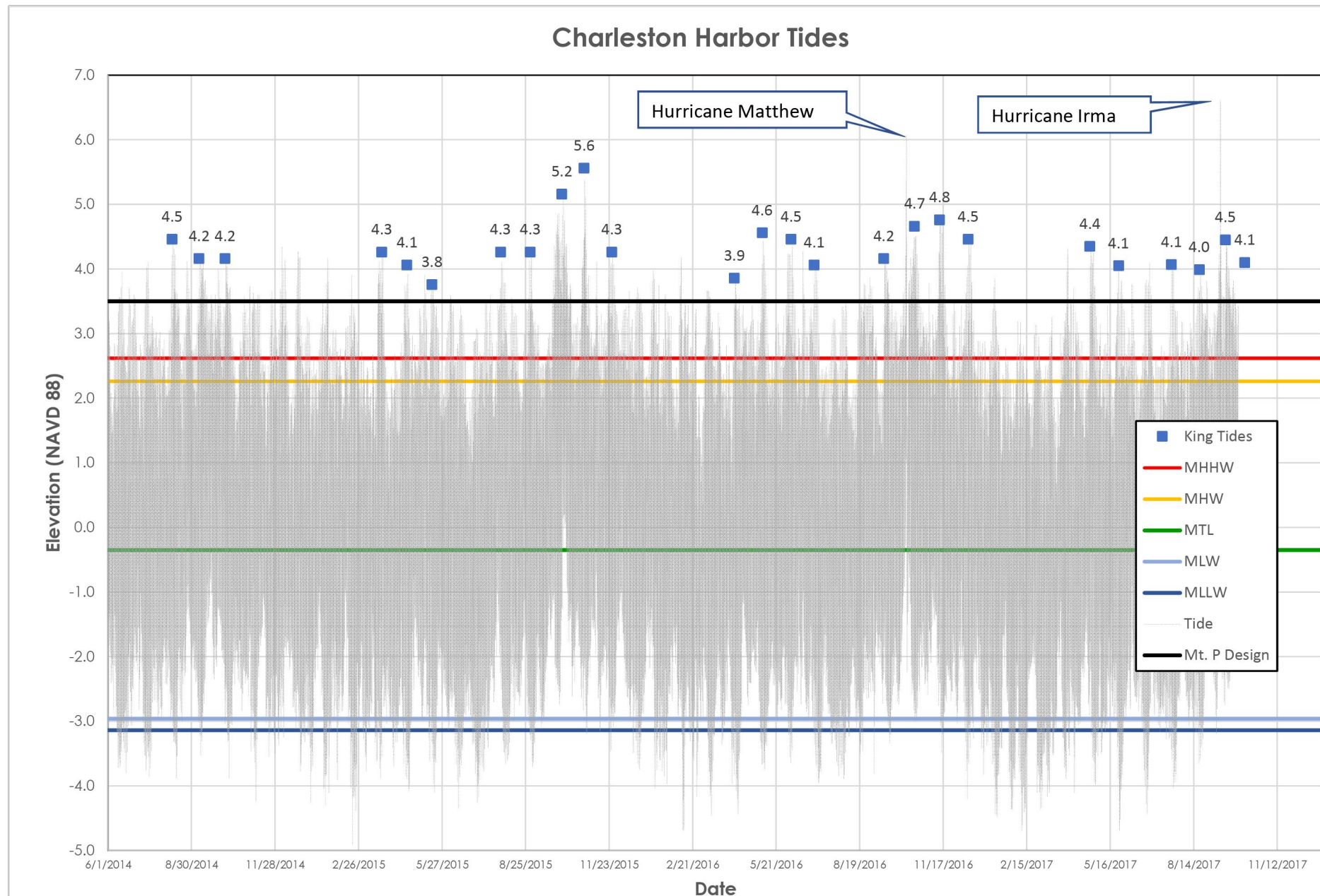
JOB NO: 27091.0001
DATE:
DRAWN: AES
DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: 1" = 1'

C3.4

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- NOTES:
- ALL JOINTS TO BE SEALED BY 4000 PSI CONCRETE.
 - ALL ANCHOR, KEY, AND TOE-IN DETAILS PER MANUFACTURER RECOMMENDATIONS.
 - GEOTEXTILE AND FILTER FABRIC SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
 - SUBGRADE PREPARATION PER MANUFACTURER RECOMMENDATIONS. STABLE SUBGRADE WITH 95% STANDARD PROCTOR COMPACTION.
 - ALL BOLTS, NUTS, AND FASTENERS SHALL BE GRADE 316 SS (STAINLESS STEEL).
 - PIPE SUPPORTS OF DISSIMILAR METALS THAN PIPE SHALL BE INSULATED AND SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATION AND/OR BUILDING/PIPING CODES.
 - RIP RAP SHALL BE A MINIMUM 1.0-FT DIAMETER GRANITE.



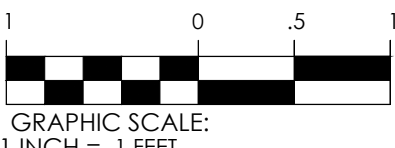
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DETAILS - OUTFALL STRUCTURE

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

JOB NO: 27091.0001

DATE:

DRAWN: AES

DESIGNED: AES

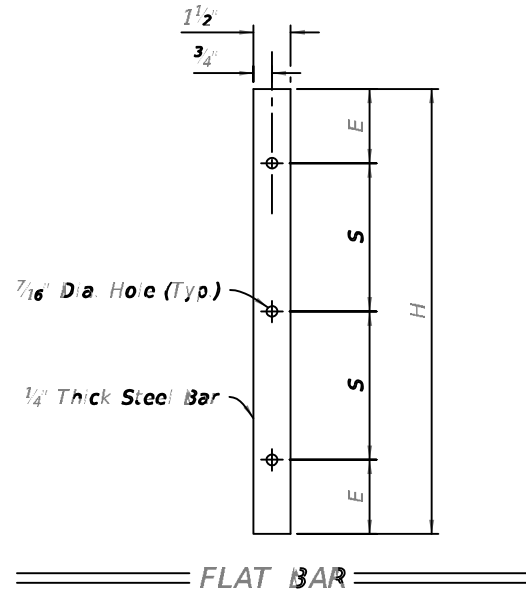
REVIEWED: RPK

APPROVED: RPK

SCALE: 1" = 1'

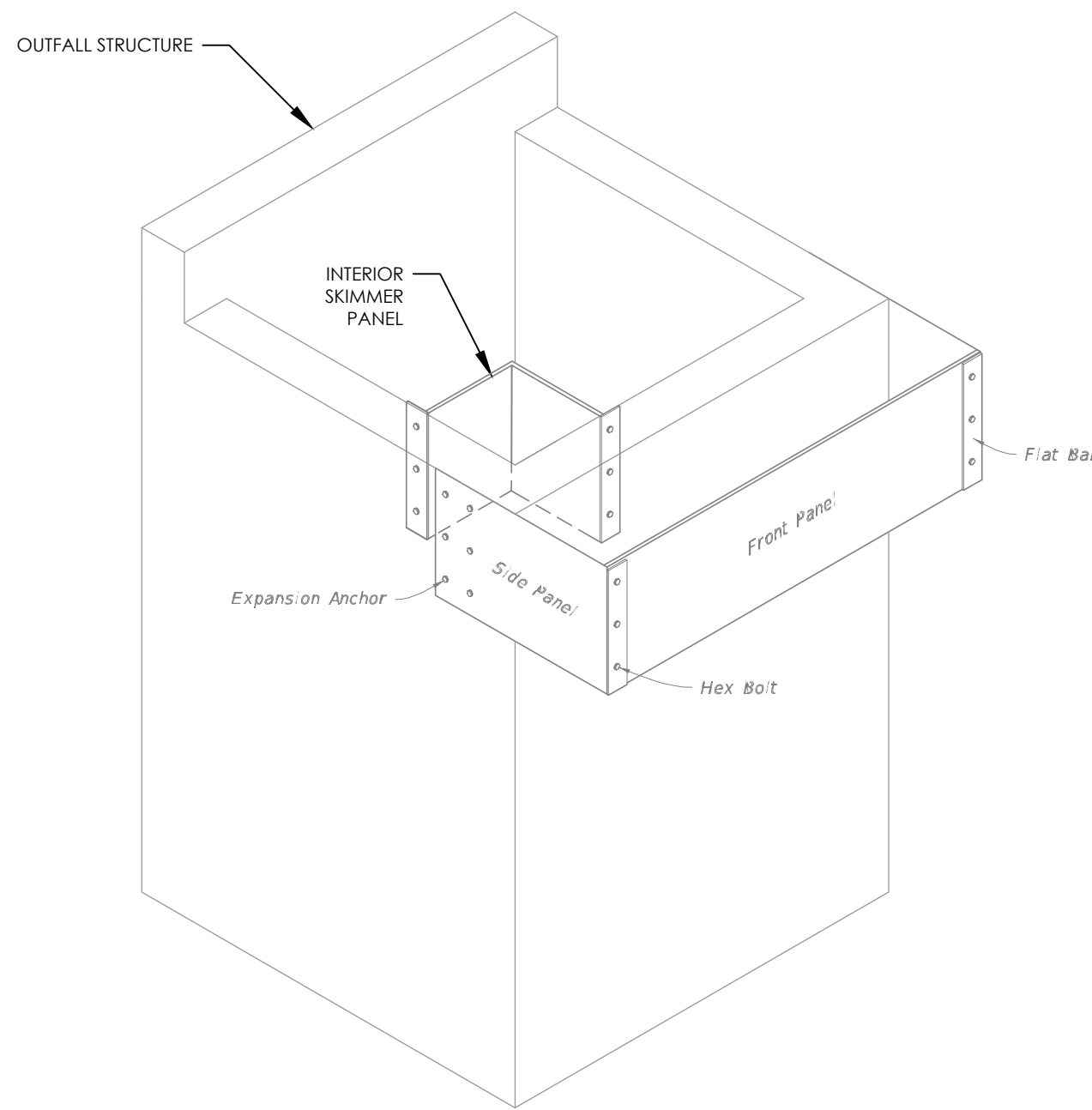
C3.5

DIMENSIONS				
Skimmer Height as Specified in the Plans				Bolt Spacing
H (in)	D (in)	E (in)	L (in)	S (in)
12	3 3/8	3	28	3
14	3 3/8	3	28	3
16	3 3/8	3	28	3
18	3 3/8	3	28	6
20	4 3/8	4	31	6
22	4 3/8	4	31	6
24	4 3/8	4	31	8
26	4 3/8	4	31	9
28	4 3/8	4	31	10
30	5 3/8	5	31	10
32	5 3/8	5	31	11
34	5 3/8	5	31	12
36	6 3/8	6	31	12
38	6 3/8	6	31	13
40	6 3/8	6	31	14

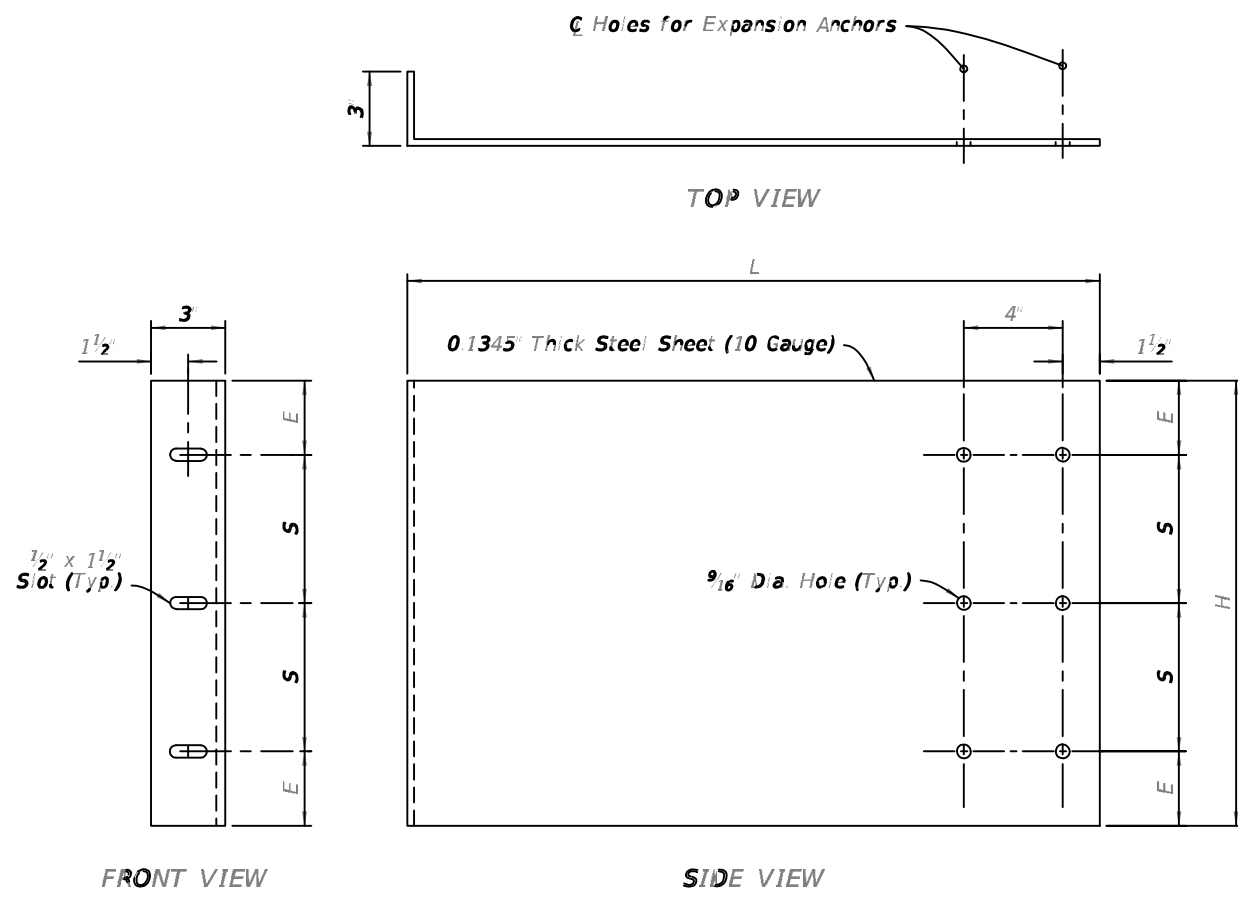


GENERAL NOTES:

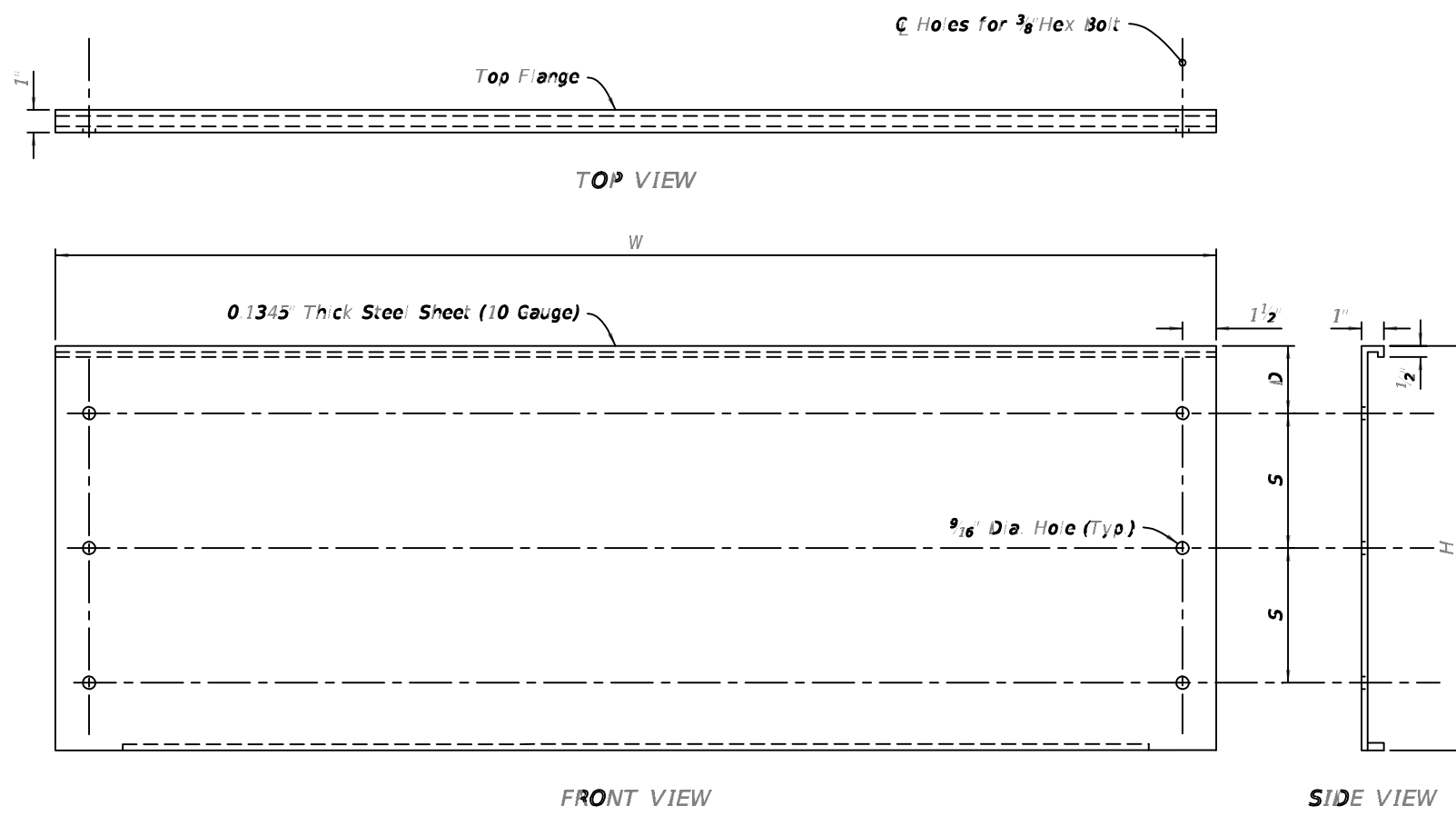
- The side panels are dimensionally symmetric and may be used on either side of the structure.
- Two (2) skimmers may be installed on a single structure provided they are constructed on opposite ends.
- The width of the front panel (dimension W) is equal to the same as the outside dimension across the front of the structure.
- Hot dip galvanize the front panel, side panels, and flat bars after fabrication.
- The location of the reinforcing steel in these structures must conform to the Index 032 to avoid conflict with the expansion anchors used to attach the skimmer.
- Use grates on the inlets unless otherwise specified in the Plans.
- A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware.



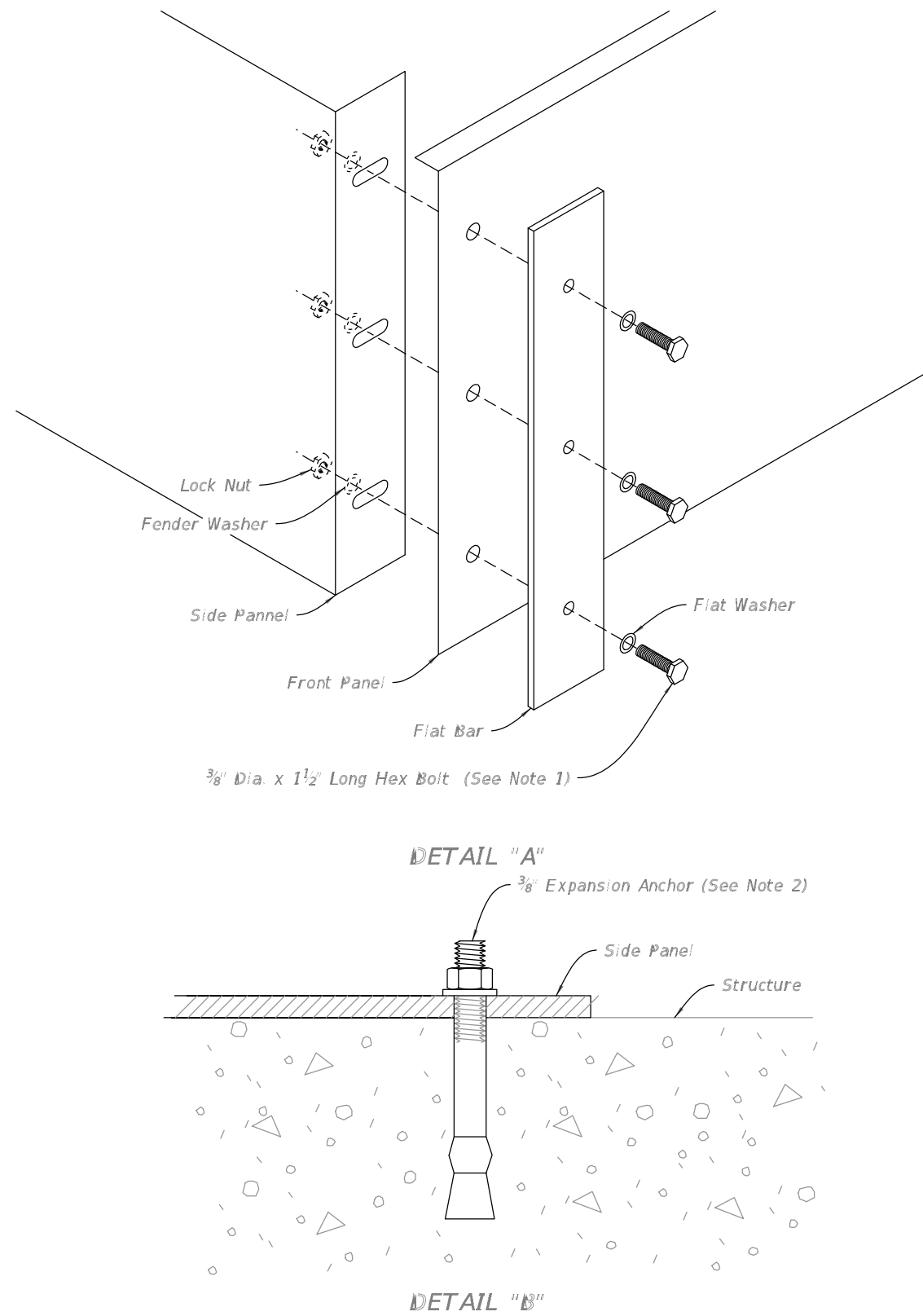
SKIMMER



SIDE PANEL

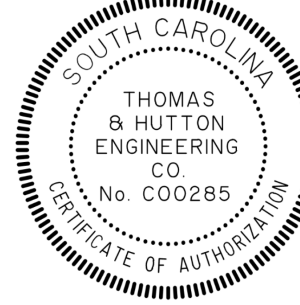
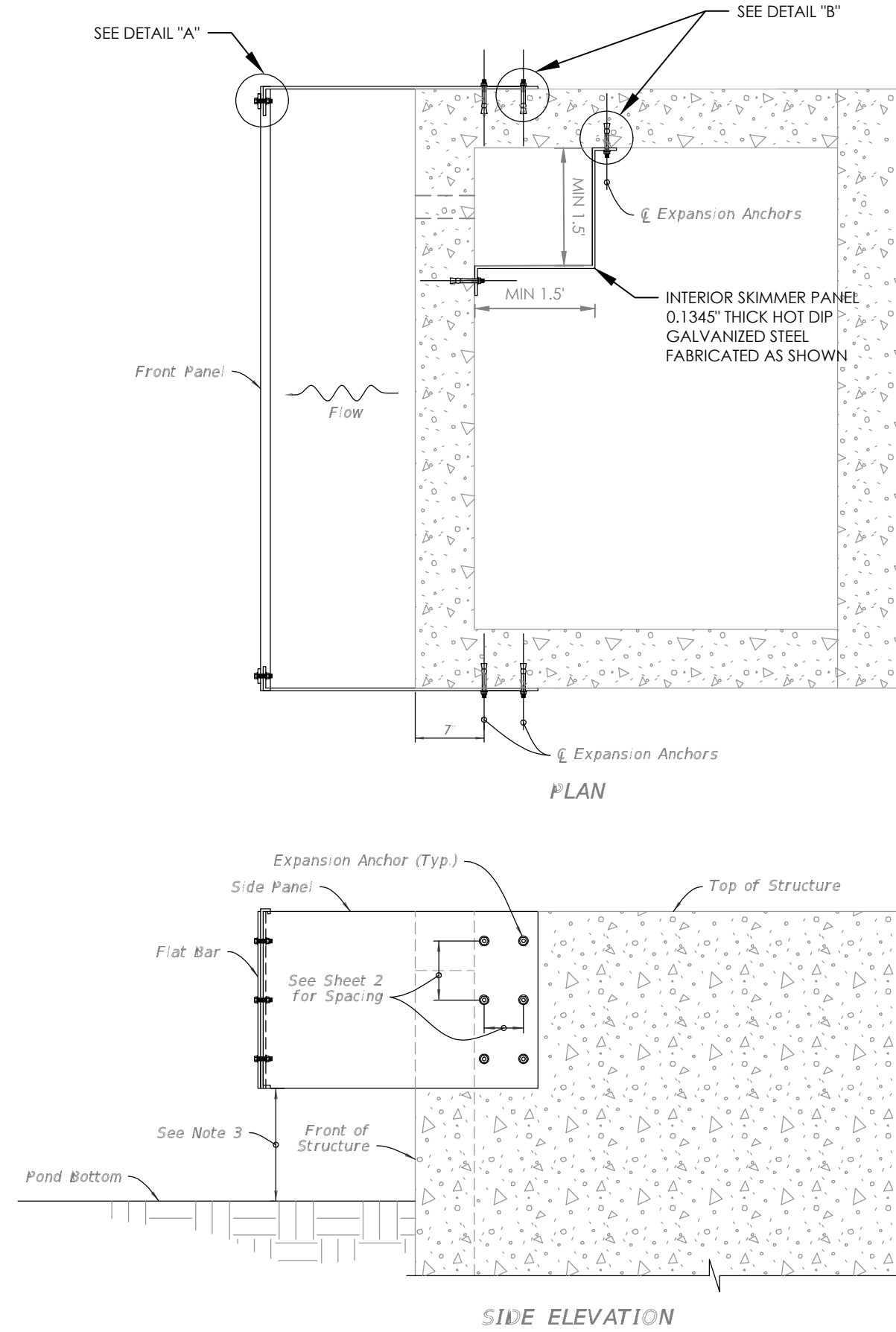


FRONT PANEL



NOTES:

- Hex Bolt, Flat Washer, Fender Washer, and Lock Nut, all Stainless Steel (6 Required Per Skimmer)
- Install a stainless steel side type expansion anchor with nut and washer. Embedment depth = 2 1/2 inches to be installed according to the manufacturer's recommendations (12 required per skimmer)
- Install the skimmer so that the distance between the pond bottom at the structure and the skimmer is not less than 1 foot.



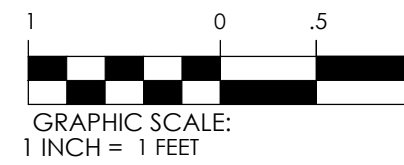
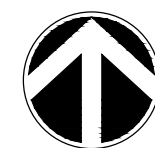
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DETAILS - SKIMMER PANELS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

JOB NO: 27091.0001

DATE:

DRAWN: CB

DESIGNED: CB

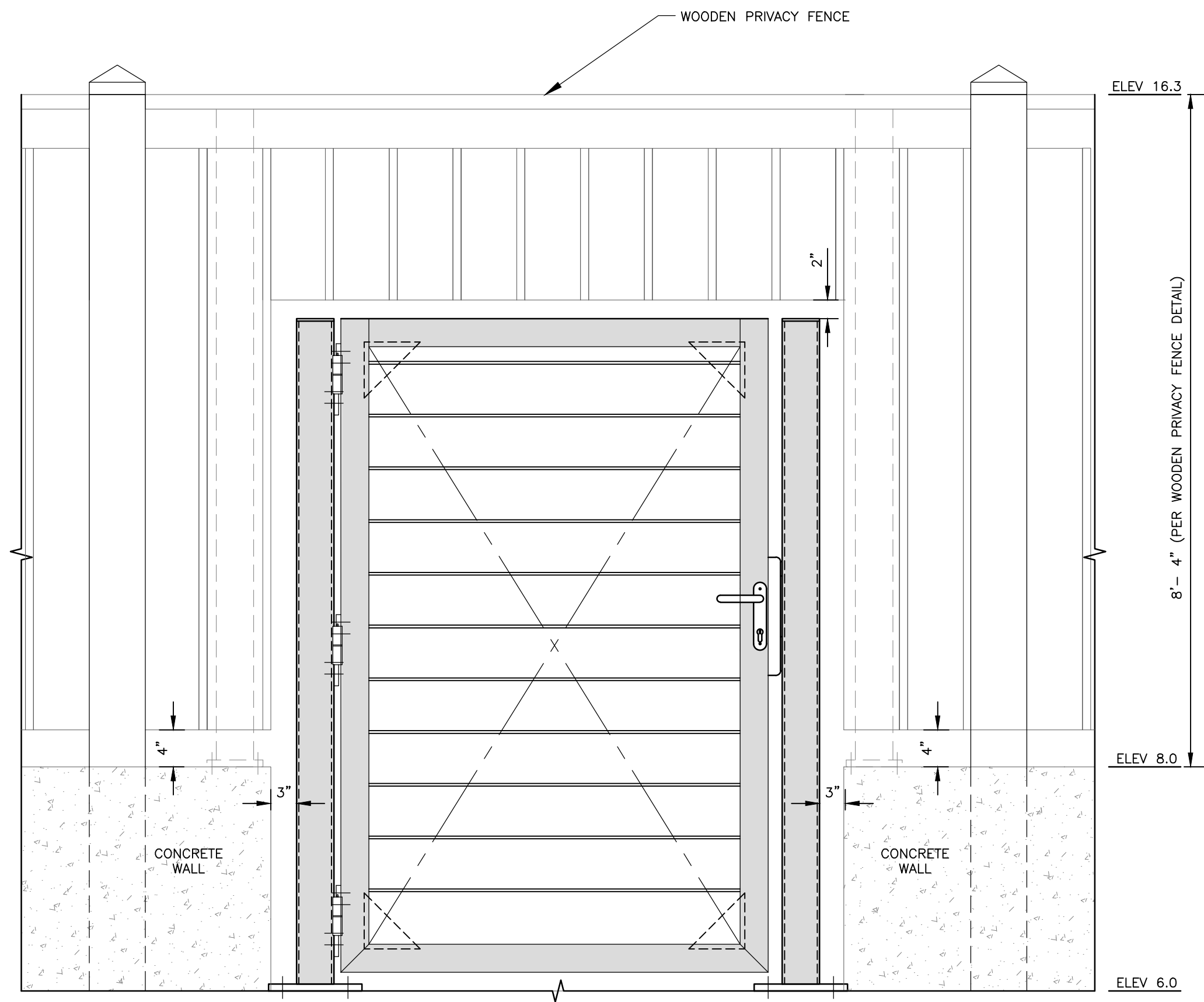
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APPROVED: MFY

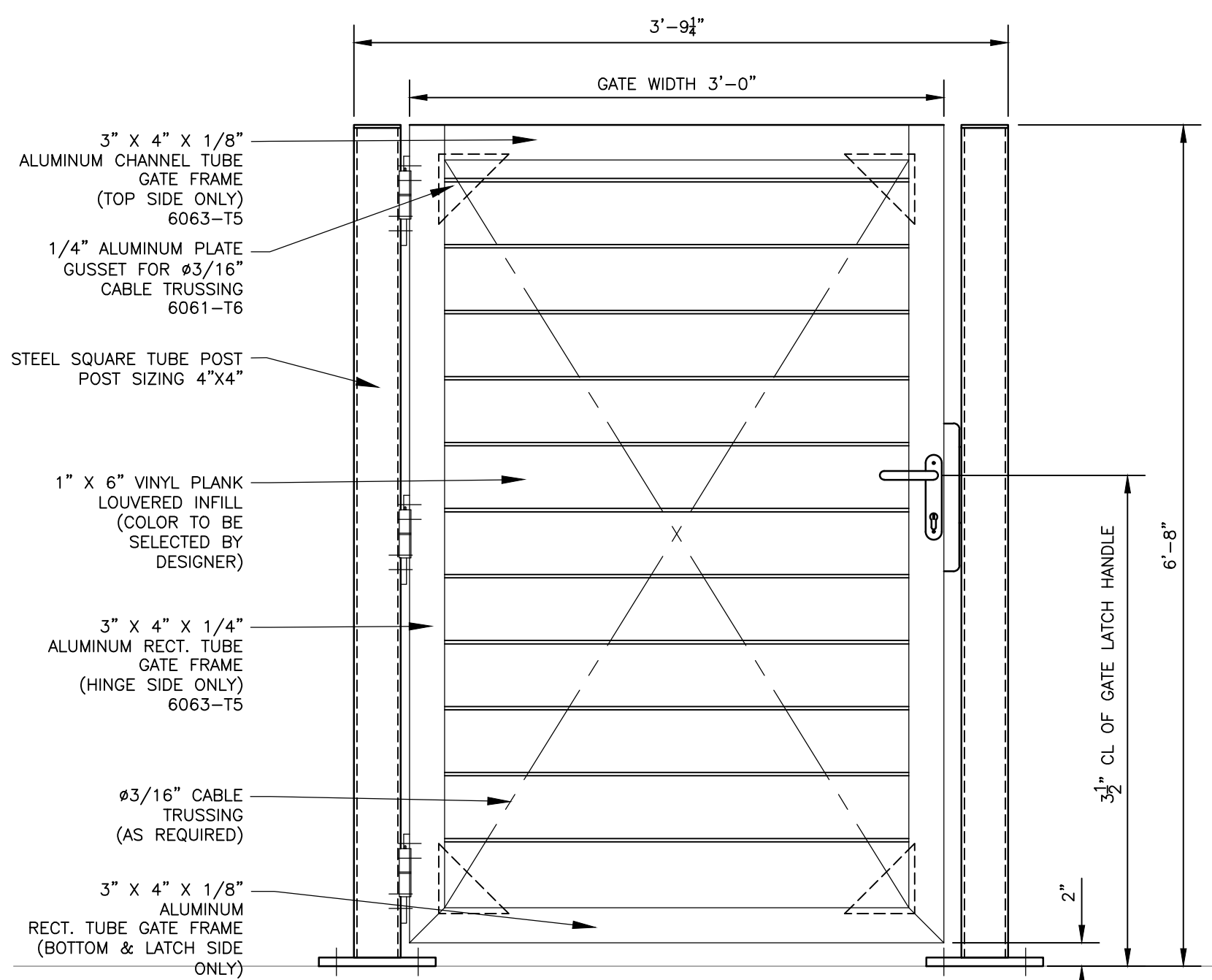
SCALE: 1" = 1'

C3.6

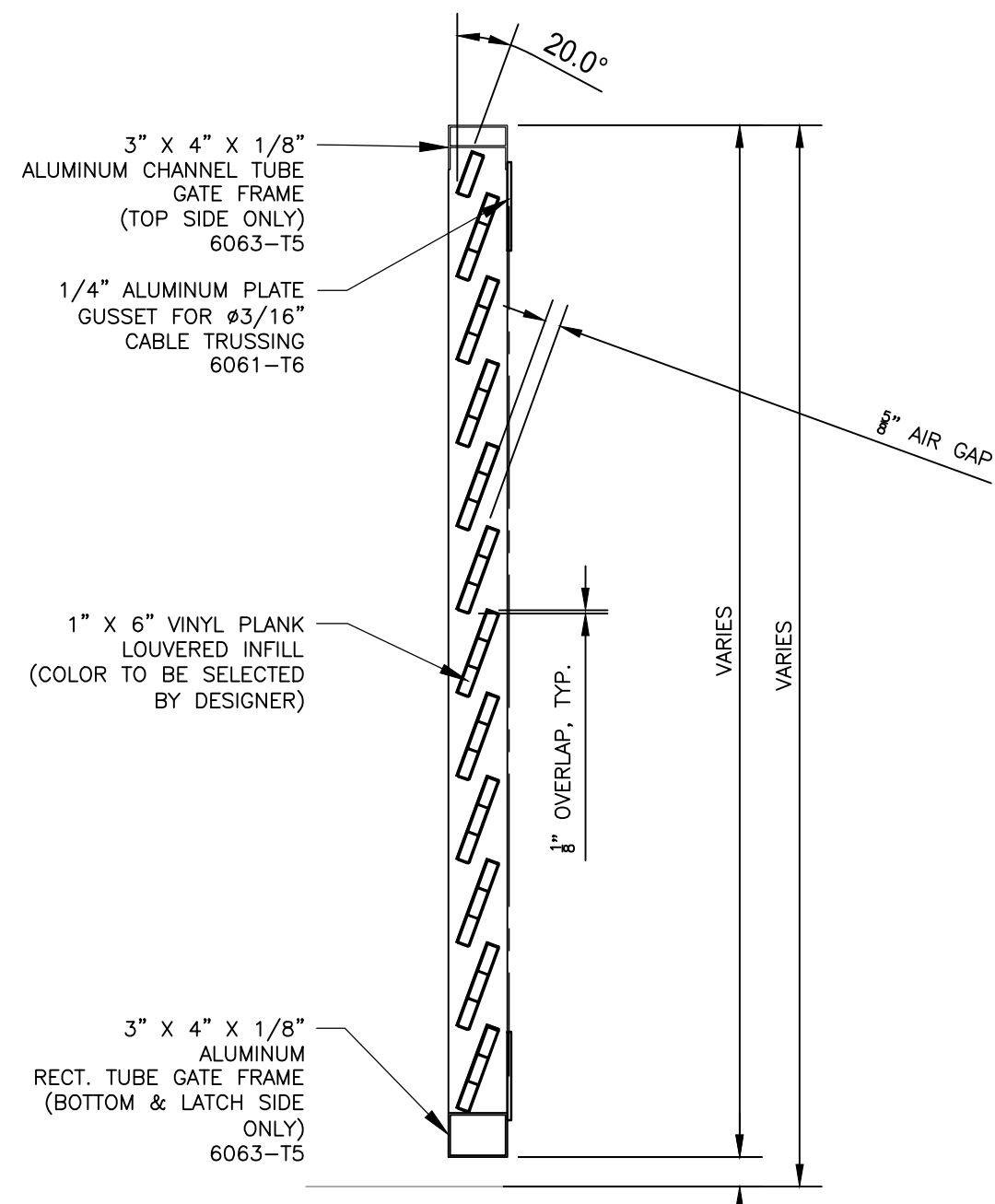
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ELEVATION VIEW (OVER VIEW)



ELEVATION VIEW (GATE ONLY)



TYPICAL GATE SECTION

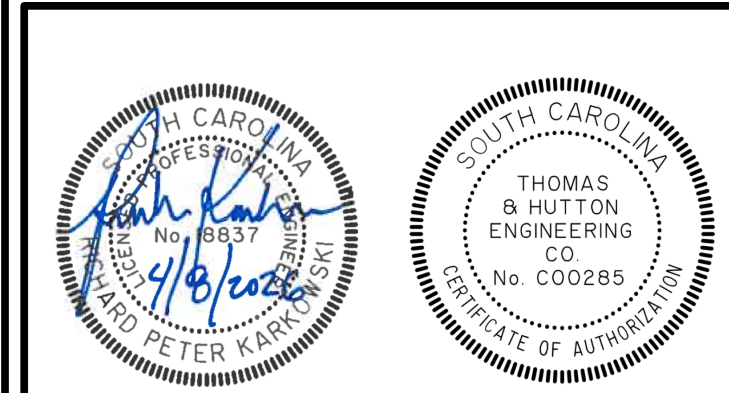
- NOTE:
1. SEE WOODEN PRIVACY FENCE DETAIL FOR ADDITIONAL INFORMATION.
 2. ALUMINUM LOUVERS, 3' PERSONNEL GATE, EQUIVALENT TO PALMSHIELD, PAINTED BLACK.
 3. PROVIDE LOCKABLE LATCH HANDLE.

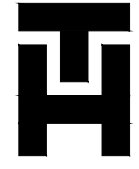
3' PERSONNEL GATE

NOT TO SCALE



NO.	REVISIONS	BY	DATE



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DETAILS

**MULTI-BASIN DRAINAGE
IMPROVEMENT**

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

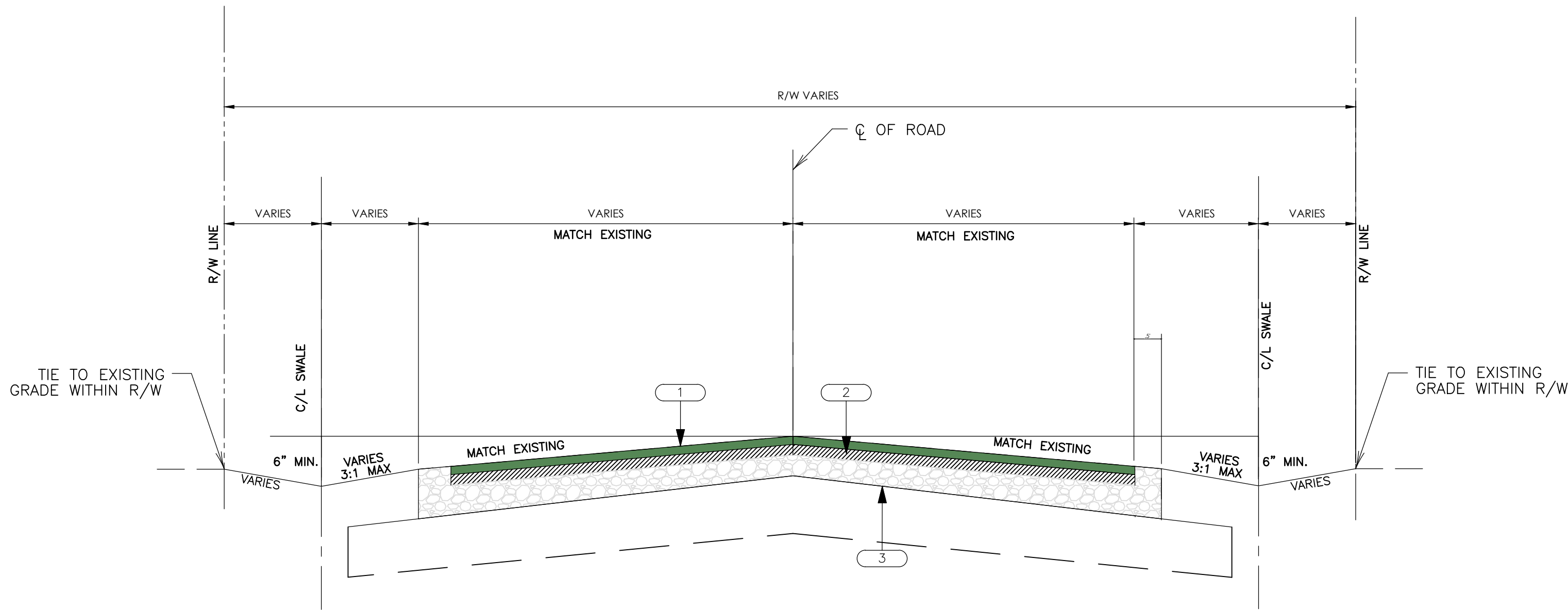
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	CB
DESIGNED:	CB
REVIEWED:	MFY
APPROVED:	MFY
SCALE:	AS NOTED

C3.7

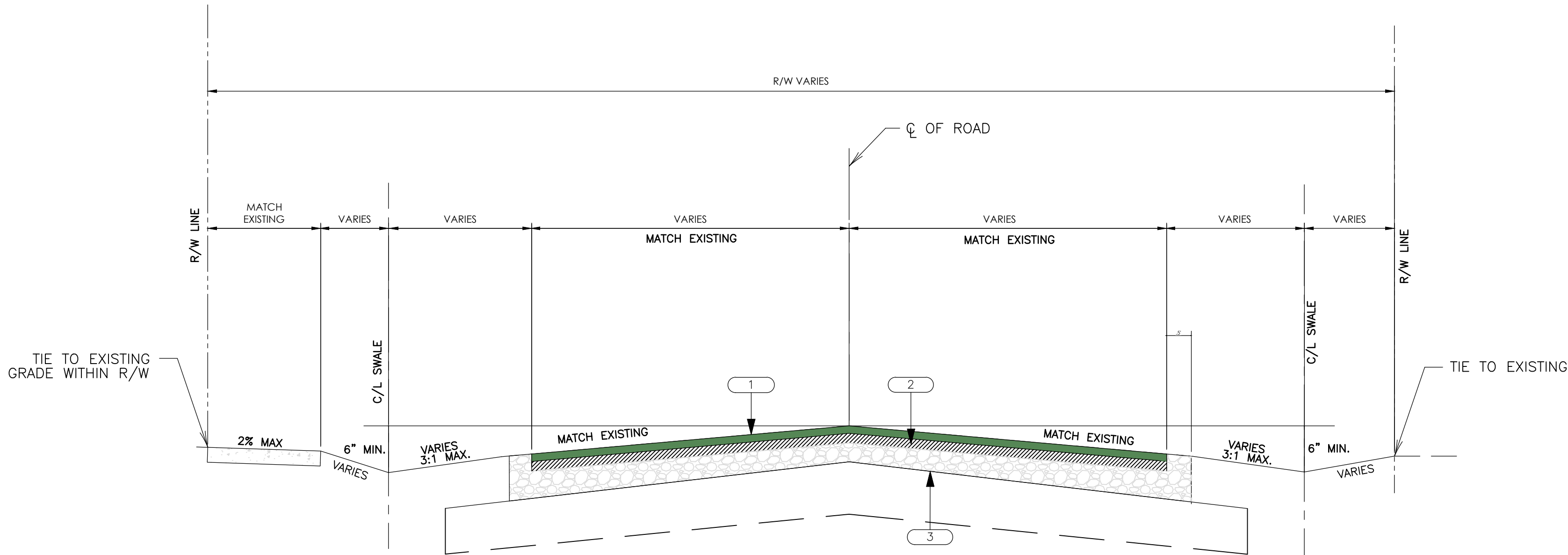
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STANDARD CROWN WITH SWALES

NOT TO SCALE

- NOTES:
1. GRADE SWALES TO PROVIDE POSITIVE DRAINAGE.
 2. SOD & STAKE DISTURBED SLOPES.
 3. REFER TO PAVEMENT SECTION DETAILS.



STANDARD CROWN WITH SIDEWALK

NOT TO SCALE

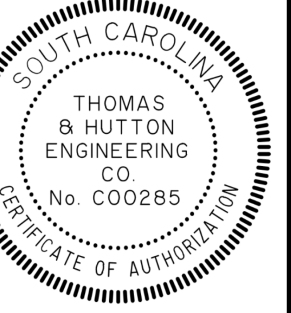
- NOTES:
1. GRADE SWALES TO PROVIDE POSITIVE DRAINAGE.
 2. SOD & STAKE DISTURBED SLOPES.
 3. REFER TO PAVEMENT SECTION DETAILS.

NOTES:

PAVEMENT WIDTHS VARY, MATCH EXISTING,
SLOPES VARY, MATCH EXISTING.

SAWCUT EXISTING PAVEMENT A MINIMUM OF
6" DEPTH TO MAKE A UNIFORM TIE IN JOINT.

- | | | |
|---|--|--|
| 1 | | MIN. 2" TYPE B ASPHALTIC SURFACE COURSE |
| 2 | | MIN. 3" TYPE C ASPHALTIC INTERMEDIATE COURSE |
| 3 | | 6" GRADED AGGREGATE BASE COURSE |



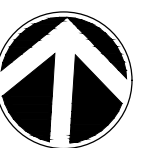
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TYPICAL PAVEMENT SECTION

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

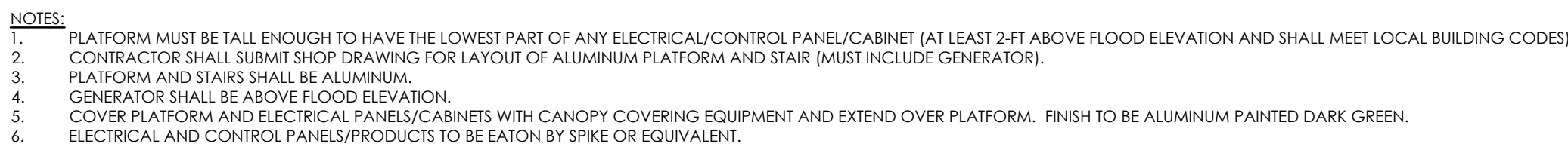


DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

JOB NO: 27091.0001
DATE:
DRAWN: AES
DESIGNED: AES
REVIEWED: RPK
APPROVED: RPK
SCALE: 1" = 60'

TP1.0



NOTE: THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

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JOB NO:	27091.0001
DATE:	
DRAWN:	CB
DESIGNED:	CB
REVIEWED:	MFY
APPROVED:	MFY
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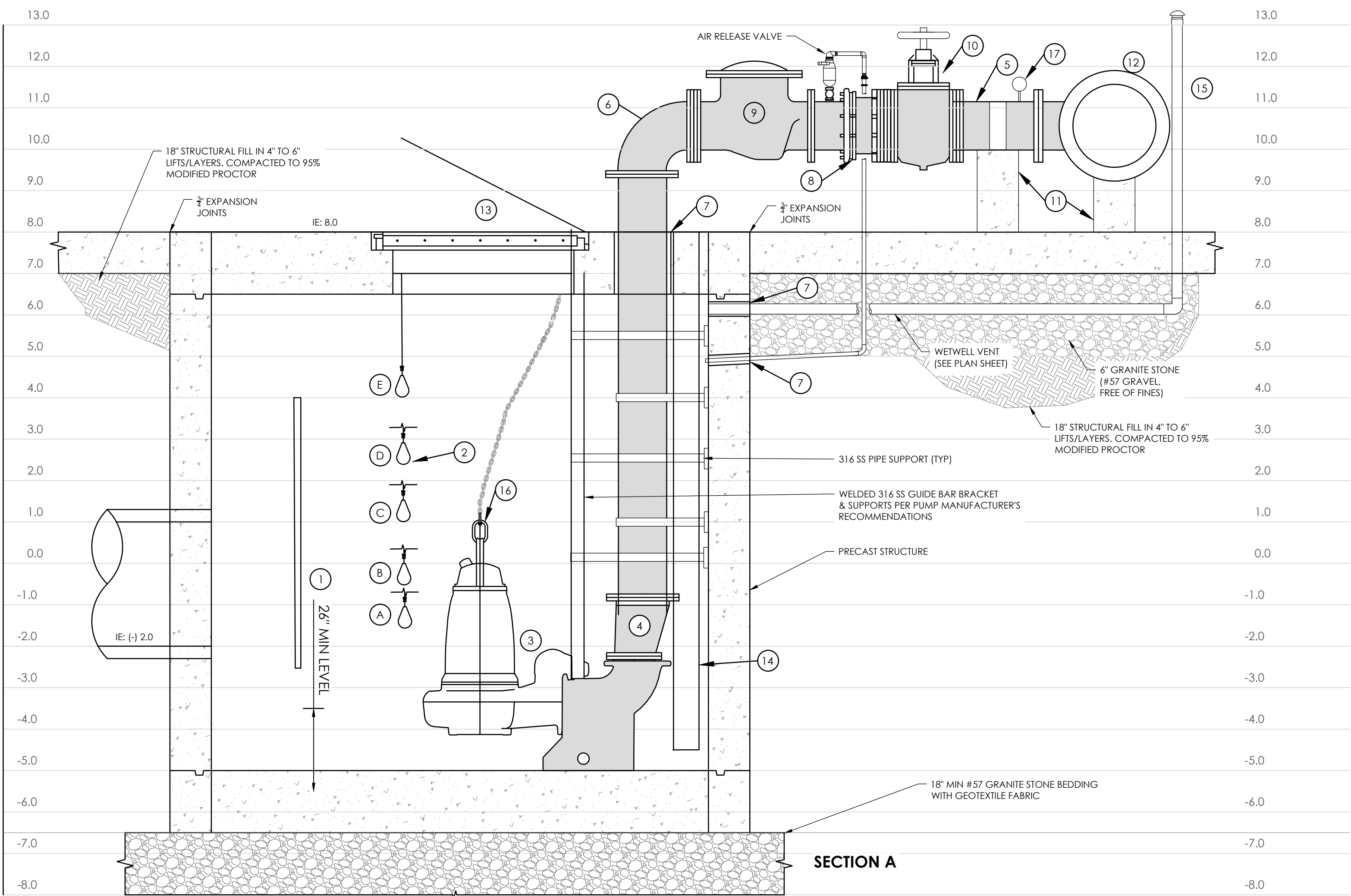
PS1.1

1/22/2024 12:20:00 PM ENGINEERING DRAWINGS/CONSTRUCTION PLANS 03/01/0001 - PUMP STA. ELEVATIONS - AUG 12, 2024 - 4:02 AM

PIPING LEGEND FOR STATION 18 PUMP STATION - MAIN PUMPS		
ITEM	DESCRIPTION	NO. REQD
1	BAFFLE PANEL, (HDPE SHEET, 316 STAINLESS STEEL HARDWARE AND ANCHOR KITS)	1
2	FLOAT SWITCHES	PER MANUFACTURER
3	35 HP SUBMERSIBLE PUMP (EACH)	3
4	12" X 14" REDUCER	3
5	SPOOL, FLG (14")	3
6	90° BEND, FLG (14")	3
7	PIPE PENETRATION WITH LINK SEAL	3
8	MEGALUG FLANGED COUPLING ADAPTER	3
9	14" CHECK VALVE, FLG	3
10	14" PLUG VALVE, FLG	3
11	PIPE SUPPORTS	AS NEEDED
12	14" x 24" TEE, FLG	3
13	ACCESS HATCH - USF FABRICATION, HALLIDAY PRODUCTS, OR EQUAL	4
14	TRANSDUCER/TRANSMITTER STILLING WELL (FOR BACKUP CONTROL AND HIGH WATER LEVEL)	1
15	WETWELL VENT	2
16	SS LIFTING CHAIN (NOT SHOWN FOR CLARITY)	3
17	PRESSURE GAUGE	3

PIPING LEGEND FOR STATION 18 PUMP STATION - JOCKEY PUMP		
ITEM	DESCRIPTION	NO. REQD
3	3 HP SUBMERSIBLE PUMP	1
4	6" X 4" REDUCER	1
5	SPOOL, FLG (6")	1
6	90° BEND, FLG (6")	1
7	PIPE PENETRATION	1
8	MECHANICAL JOINT WITH TRANSITION GASKET (DRESSER COUPLING)	1
9	6" CHECK VALVE, FLG	1
10	6" PLUG VALVE, FLG	1
11	PIPE SUPPORTS	AS NEEDED
12	6" x 24" TEE, FLG	1
13	SS LIFTING CHAIN (NOT SHOWN FOR CLARITY)	1
14	PRESSURE GAUGE	1

PUMP FLOATS			
FLOAT	DESCRIPTION	NO. REQD	ELEVATION
A	PUMPS OFF	1	(-) 1.5
B	LEAD PUMP ON	1	(-) 0.5
C	LAG PUMP ON	1	1.0
D	LAG LAG PUMP ON	1	2.5
E	HIGH WATER ALARM	1	4.0
F	JOCKEY OFF	1	(-) 3.0
G	JOCKEY ON	1	(-) 2.0



GENERAL PUMP STATION NOTES

- ALL WORK AND MATERIALS SHALL BE ACCEPTABLE TO TOWN OF SULLIVAN'S ISLAND.
- ALL ENCLOSURES SHALL BE WATERTIGHT, STAINLESS STEEL NEMA 4X INSIDE A NEMA 4X PANEL.
- WETWELL SECTIONS SHALL CONFORM TO ASTM C-478.
- WETWELL TO HAVE SEPARATE CONDUIT FOR FLOAT CABLES.
- ALL HINGES, GUIDE RAILS, CHAIN HOLDERS, CHAIN, ABLE, NUTS, BOLTS, WASHERS, OTHER FASTENERS, AND EQUIPMENT THAT MAY ENTER THE WET WELL SHALL BE 316 STAINLESS STEEL.
- ALL WET WELL HARDWARE SHALL BE MOUNTED SUCH THAT ANY COMPONENT MAY BE REMOVED.
- ALL EXPOSED CONCRETE WITHIN THE WET WELL AND SEDIMENT STRUCTURE SHALL RECEIVE RAVENS 405 (120 MIL. MIN.) OR APPROVED EQUAL.
- SECURITY LIGHTS SHALL BE PROVIDED FOR THE STATION. THE LIGHTS SHALL BE SWITCH CONTROLLED AND MUST ADEQUATELY ILLUMINATE THE CONTROL PANEL, WET WELL HATCH, AND GENERATOR.
- A COMPLETE SCADA SYSTEM SHALL BE INSTALLED. THE SYSTEM SHALL INCLUDE LEVEL CONTROLS, PUMP CONTROLS, STATION SUPERVISOR, RADIO, ANTENNA, DC POWER SUPPLY, CABLES, PHONE CONNECTION, ETC. FOR A COMPLETE SYSTEM.
- ALL GROUND ROD CONNECTIONS SHALL BE CAD WELDED. GROUND ROD CONNECTIONS AT TO BE INSPECTED BY THE UTILITY PRIOR TO BURIAL AND SHALL BE BURIED.
- A HIGH WATER AUDIBLE AND VISIBLE ALARM SHALL BE INSTALLED. AN ADDITIONAL HIGH LEVEL ALARM TIED TO THE SCADA SHALL BE ACTUATED BY A FLOAT AND HAVE ITS OWN 12V DC BATTERY BACKUP AND CHARGER.
- THE POWER CABLE TO BE WIRED NONSTOP FROM THE PUMP MOTOR TO THE MOTOR STARTER WITH NO JUNCTION BOXES OR SPLICES.
- STAINLESS STEEL KELLUMS GRIPS SHALL BE INSTALLED ON POWER CABLES FOR THE PUMPS AND PROBES.
- PUMPS AND MOTORS SHALL HAVE STAINLESS STEEL CHAIN FOR LISTING. THE LENGTH OF THE CHAIN SHALL REACH THE TOP OF THE WET WELL PLUS SIX FEET (6). A COMBINATION OF SS CHAIN AND SS WIRE ROPE MAY BE UTILIZES AS LONG AS THE BOTTOM THREE FEET (3) IS CHAIN.
- ALL METAL STRUCTURES SHALL BE GROUNDED.
- METAL PLATE SIGN SHALL BE PROVIDED THAT DISPLAYS THE EMERGENCY PHONE NUMBERS AND FACILITY NUMBER. A METAL PLATE SIGN SHALL BE PROVIDED THAT DISPLAYS THE STATION INFORMATION.
- SPRAY HERBICIDE PRIOR TO PLACEMENT OF STONE OR CONCRETE, OR PAVEMENT WITHIN PUMP STATION SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATIONS WITH ELECTRICAL PROVIDER AND ALL CONDUITS / WIRES NECESSARY FROM TRANSFORMERS TO CONTROL PANEL. LOCATE CONTROL PANEL WHERE SHOWN ON THE PUMP STATION SITE PLAN - COORDINATE PANEL LOCATION WITH OWNER.
- THE FINAL SIZE OF CONCRETE PAD SUPPORTING VALVES AND PIPING SHALL BE CONTINGENT ON THE SIZE OF PIPE AND THE LENGTH OF FITTINGS, COMPONENTS, VALVES, ETC. THE PAD SHALL EXTEND A MINIMUM OF TWO FEET PAST THE LAST COMPONENT IN THE VALVE ASSEMBLY. PAD SHALL BE FIELD VERIFIED WITH THE CONTRACTOR AND THE ENGINEERS FIELD REPRESENTATIVE. SIZES SHOWN ARE A MINIMUM.
- CONTRACTOR SHALL TAKE NECESSARY PROTECTIONS AGAINST FLOATATION OF WET WELL DURING CONSTRUCTION.
- ACCESS FRAME AND COVERS SHALL BE EQUIVALENT TO THOSE MANUFACTURED BY HALLIDAY PRODUCTS, INC. OF ORLANDO, FLORIDA OR THE BILCO COMPANY AND SHALL HAVE A 1/4 INCH (7MM) THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM CHANNEL FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. A 1-1/2 INCH (38MM) DRAINAGE COUPLING SHALL BE LOCATE IN THE FRONT LEFT CORNER OF THE CHANNEL FRAME. A BITUMINOUS COATING SHALL BE APPLIED TO THE FRAME EXTERIOR WHERE IT WILL COME IN CONTACT WITH CONCRETE. DOOR PANEL SHALL BE 1\"/>

REINFORCED TO WITHSTAND A LIVE LOAD OF 300 LBS. PSF, UNIFORM LIVE LOAD WITH A MAXIMUM ALLOWABLE DEFLECTION OF 1/150 OF THE SPAN. DOOR SHALL OPEN TO 90 DEGREES AND AUTOMATICALLY LOCK WITH A T-316 STAINLESS STEEL HOLD OPEN ARM WITH ALUMINUM RELEASE HANDLE. FOR EASE OF OPERATION, THE HOLD OPEN ARM SHALL INCORPORATE AN ENCLOSED STAINLESS STEEL COMPRESSION SPRING ASSIST. DOORS SHALL CLOSE FLASH WITH THE FRAME AND REST ON A BUILT-IN NEOPRENE CUSHION/GASKET. HINGES AND ALL FASTENING HARDWARE SHALL BE T-316 STAINLESS STEEL. UNIT SHALL LOCK WITH A T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY AND HAVE A NON-CORROSIVE HANDEL. UNIT SHALL CARRY A LIFETIME GUARANTEE AGAINST DEFECTS IN MATERIAL AND/OR WORKMANSHIP. ALUMINUM ACCESS HATCH SHALL INCLUDE STEEL SAFETY GRATING EQUIVALENT TO HALLIDAY PRODUCTS PROTECTIVE GRATING PANEL. GRATING SHALL CONFORM TO THE LATEST REVISION OF OSHA STANDARDS 1910.23 AND 1910.146. PANEL SHALL BE EQUIPPED WITH T-316 STAINLESS STEEL HARDWARE, SHALL BE LOCKABLE, HINGED AND POWDER COAT FINISHED IN SAFETY ORANGE.

- THE CONTRACTOR SHALL COORDINATE MATERIAL AND EQUIPMENT STORAGE AREAS WITH THE OWNER.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL FIELD ENGINEERING REQUIRED FOR CONSTRUCTION, FURNISHING ALL LINES, GRADES AND CONTROL POINTS, NECESSARY FOR THE ACCURATE INSTALLATION OF THE PUMP STATION STRUCTURES.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE WHICH WILL IN ANY WAY AFFECT THE COMPLETION OF WORK.

EXPLOSION PROOF NOTES

- CONTRACTOR AND PUMP SUPPLIER/MANUFACTURERS SHALL PROVIDE AND INSTALL EXPLOSION PROOF AND INTRINSICALLY SAFE PUMPS, MOTORS, CONTROLS, ELECTRICAL EQUIPMENT AND RELATED.
- ALL PENETRATIONS IN WET WELL ELECTRICAL PANELS AND ODOR CONTROL UNIT SHALL BE SEALED 100% AIRTIGHT TO PREVENT GAS SEEPAGE.

ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WITH A LOCAL BUSINESS LICENSE.
- ELECTRICAL PERMITS SHALL BE OBTAINED FROM AND FEES PAID TO THE AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR APPLYING TO REGULATORY AGENCIES AND SERVICE PROVIDER FOR ELECTRICAL SERVICE.
- ELECTRICAL CONTROLS SHALL BE MOUNTED A MINIMUM OF 2 FEET ABOVE THE 100 YEAR FLOOD ELEVATION.
- ALL CONDUITS INTO THE CONTROL PANEL AND PUMP STATION MUST BE SEALED AIRTIGHT.
- ELECTRICAL CONTROLS TO BE LABELED WITH 1" X 3" BLACK PLACARD WITH 1/2" LETTERS FOR LABELING ALL CONTROLS.
- CONTRACTOR IS RESPONSIBLE TO ESTABLISH AND PROVIDE PERMANENT ELECTRICAL SERVICE TO THE STATION. CONTRACTOR SHALL PAY FOR ELECTRICAL SERVICE UNTIL THE STATION IS ACCEPTED FOR OPERATION BY THE UTILITY OR OWNER.
- MOTOR STARTERS SHALL BE SOFT START. ACROSS THE LINE, SPLIT, WINDING, AND OTHER REDUCED VOLTAGE STARTERS ARE NOT ACCEPTABLE.
- ALL ELECTRICAL ENCLOSURES SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
- THE ELECTRIC METER SHALL BE INSTALLED WITH A FUSED DISCONNECT.
- PROVIDE A SCHEMATIC FOR THE CONTROL PANEL LAMINATED ON BOTH SIDES PLACED IN A POCKET ATTACHED TO THE INSIDE OF THE PANEL DOOR. THE PUMP AND MOTOR INFORMATION PLATE SHALL BE PERMANENTLY AFFIXED TO THE INSIDE OF THE PANEL DOOR. ALSO PROVIDE AN ALUMINUM PLATE WITH PUMP INFORMATION STAMPED IN PLATE TO BE ATTACHED TO INSIDE OF CONTROL PANEL DOOR IN PLAIN VIEW.

PUMP STATION INFORMATION

PARAMETER	MAIN STA 18	JOCKEY PUMP
DUTY PUMPS (TOTAL)	2	1
STANDBY PUMPS	1	—
TOTAL PUMPS	3	1
DESIGN CAPACITY EACH PUMP (GPM)	2,700	250
TOTAL DESIGN HEAD (TDH)	29-32	—
PUMP OPERATING RPM (SPEED)	1,160	1,400
PUMP VOLTAGE	460	230/460
PUMP POWER (HP-EACH)	35	3
PUMP PHASE	3	3
PUMP MANUFACTURER	FLYGT	FLYGT
PUMP MODEL NUMBER	NP 3202 LT3-618	CONCERTOR N100-1000

(CONTRACTOR TO CONFIRM PUMP SELECTION WITH SEAMON WHITESIDE AND ASSOCIATES AND TOWN OF SULLIVAN'S ISLAND)

PROVIDE SCADA MONITORING TO THE PUMP STATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THEIR SCADA SYSTEM SUPPLIER ON SCADA NEEDS.

- A. REPORT/RECORD
- PUMP 1 RUNTIME
 - PUMP 2 RUNTIME
 - PUMP 3 RUNTIME
 - JOCKEY PUMP RUNTIME

- B. EVENT ALARMS
- PHASE FAILURE
 - PUMP 1 FAILURE
 - PUMP 2 FAILURE
 - PUMP 3 FAILURE
 - HIGH WATER ALARM
 - JOCKEY PUMP FAILURE
 - SEDIMENT STRUCTURE HIGH ALARM
 - RTU FAIL
 - GENERATOR FAULT
 - GENERATOR FUEL LEVEL LOW

THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

NOTE:THE HYDROLOGIC AND HYDRAULIC DESIGN OF THE DRAINAGE IMPROVEMENTS PROVIDED BY SEAMON WHITESIDE & ASSOC. (MULTI-BASIN DRAINAGE IMPROVEMENTS HYDROLOGIC & HYDRAULIC REPORT, TOWN OF SULLIVAN'S ISLAND, SC, SEAMON WHITESIDE AND ASSOC., AUGUST 29, 2025)

NO.	REVISIONS	BY	DATE



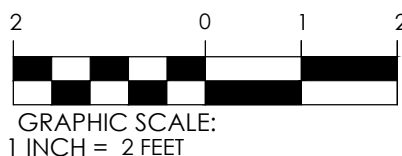
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

STORMWATER PUMP STATION SECTION & NOTES

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

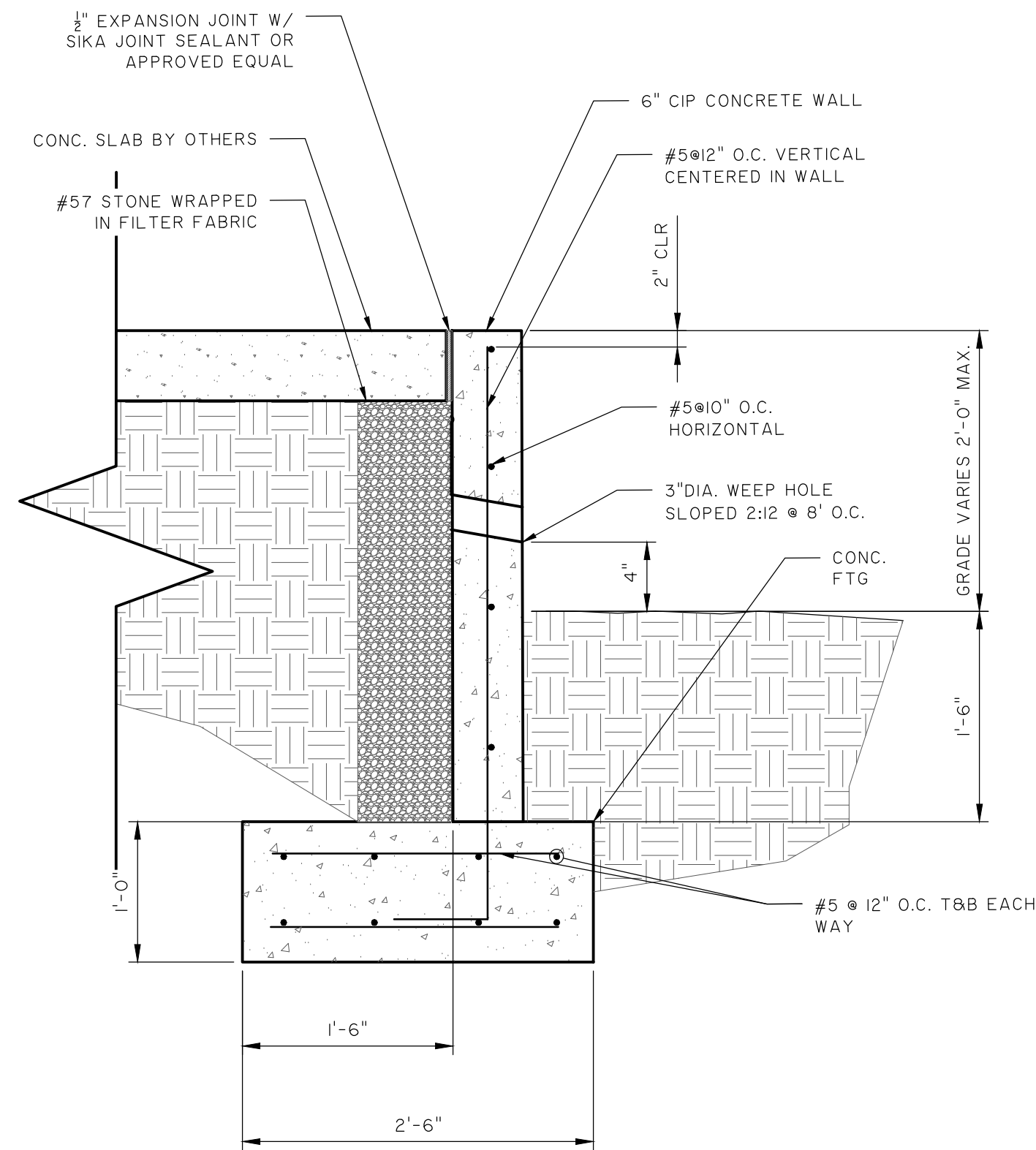
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

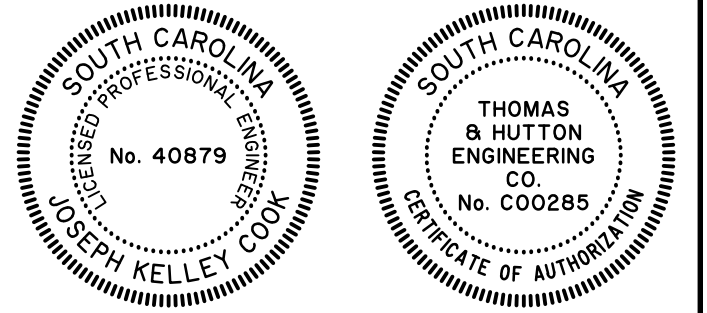
JOB NO: 27091.0001
DATE:
DRAWN: CB
DESIGNED: CB
REVIEWED: MFY
APPROVED: MFY
SCALE: SEE SCALE BAR

PS2.1



1 CMU WALL DETAIL
S2.2 1"=1'-0"

NO.	REVISIONS	BY	DATE



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STRUCTURAL DETAILS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

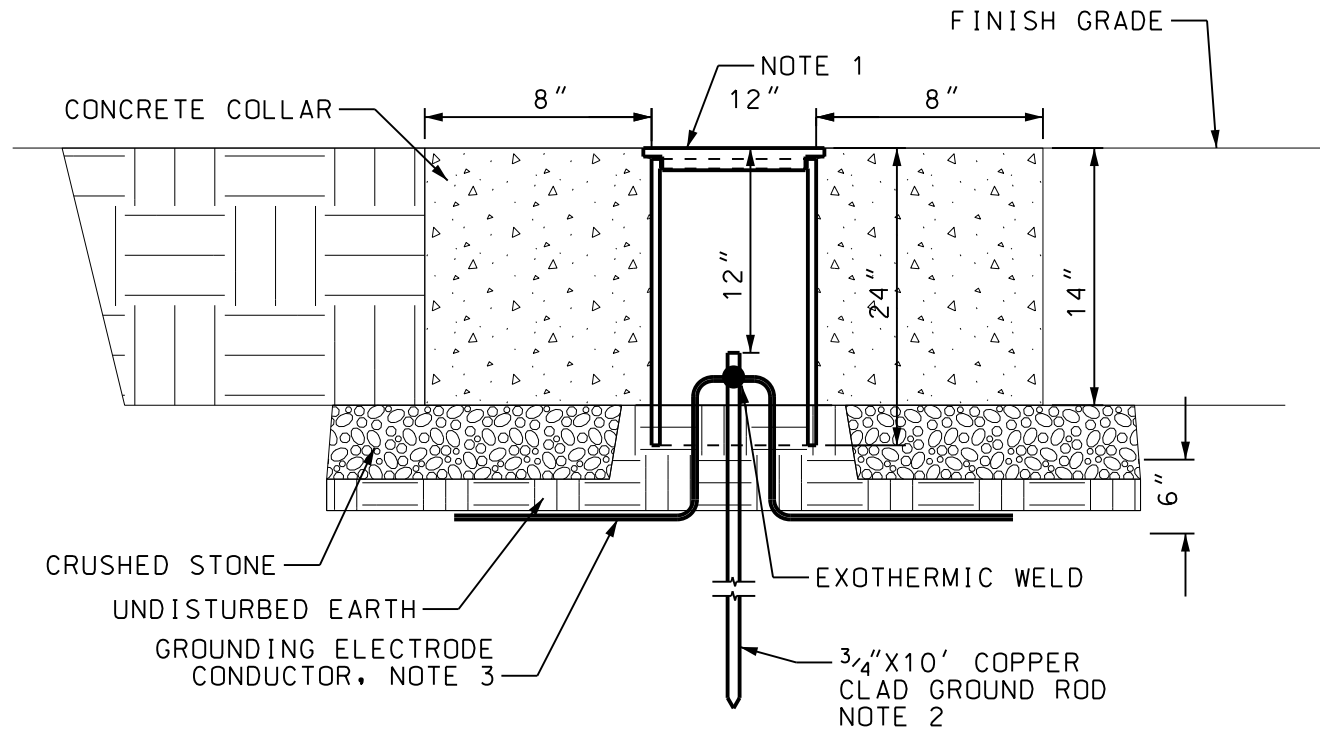
JOB NO:	27091.0001
DATE:	
DRAWN:	KMS
DESIGNED:	KMS
REVIEWED:	JKC
APPROVED:	JKC
SCALE:	AS NOTED

§2.2

GENERAL NOTES:

- G1. ALL CONDUITS INSTALLED EXPOSED TO ATMOSPHERE SHALL BE ALUMINUM RIGID CONDUIT (ARCO). ALL CONDUITS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC. ALL ELBOWS BELOW GRADE TO BE RIGID ALUMINUM.
- G2. ALL CONDUIT INSTALLED BELOW GRADE ON THIS SITE SHALL BE 24" MINIMUM BELOW FINISH GRADE. PROVIDE A DETECTABLE FOIL WARNING TAPE IN TRENCH ABOVE EVERY CONDUIT 12" BELOW FINISH GRADE. COORDINATE BURIAL DEPTH WITH OTHER TRADES TO AVOID CONFLICTS.
- G3. AS-BUILT DRAWINGS SHALL INDICATE ROUTING OF ALL UNDERGROUND CONDUITS.
- G4. CATALOG NUMBERS INDICATED ON FIXTURES IN LEGEND ARE REPRESENTATIVE OF REQUIRED QUALITY. THE CONTRACTOR MAY SUBMIT FIXTURES FROM COOPER, LITHONIA OR HUBBELL THAT MEET THE REQUIRED LEVEL OF QUALITY. ALL SUBMITTALS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER. FIXTURES DETERMINED TO BE OF INFERIOR QUALITY WILL BE REJECTED.
- G5. THE CONTRACTOR SHALL CORE-DRILL THE SIDE OF THE MAIN WET WELL STRUCTURE FOR SIX 2" CONDUIT PENETRATIONS. SEAL PENETRATIONS WITH GROUT AFTER CONDUIT INSTALLATION. EXTEND 2" CONDUITS FROM THE CONTROL PANEL, TO THE WET WELL ACCESS HATCH FOR EACH PUMP, LEVEL TRANSDUCER, AND THE FLOATS. THE CONDUITS SHALL BE INDIVIDUALLY SUPPORTED BY 316 STAINLESS STEEL ANCHORS (HILTI KWIK BOLT 3 SS 316), 316 SS COUPLINGS, 316 SS ALL-THREAD ROD AND 316 SS PIPE SUPPORTS. PROVIDE 1/2" DIA. HARDWARE. PROVIDE STAINLESS STEEL BRACKETS IN EACH HATCH WINDOW. REFER TO NOTE G15.
- G6. THE BOTTOM OF ALL RACK-MOUNTED ENCLOSURES SHALL NOT BE LESS THAN 30" ABOVE FINISHED GRADE OR WORK PLATFORM/SURFACE. ALL ENCLOSURES SHALL BE MOUNTED ABOVE THE 100 YEAR FLOOD ELEVATION, COORDINATE WITH THE CIVIL DRAWINGS.
- G7. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH TIM SMITH, DOMINION ENERGY DISTRIBUTION ENGINEER, (843) 576-8548.
- G8. ALL CONDUITS FROM THE WET WELL SHALL BE FURNISHED WITH CROUSE-HINDS TYPE ES SEALING HUBS ON BOTH CONDUITS ENTERING THE ENCLOSURE. HUBS SHALL BE INSTALLED WITH SEALING LOCKNUTS AND BUSHINGS; PACKED WITH ELECTRICAL PUTTY/DUCT SEAL TO WITHIN 3/8" OF THE TOP OF THE HUB; SEALED WITH CHICO-X POURED ON THE TOP OF THE DUCT SEAL. DO NOT USE CHICO FIBER.

- G9. CIRCUIT BREAKER AND SWITCH OPERATING HANDLES SHALL BE A MAXIMUM OF 66" ABOVE PLATFORM DECK. LOCATE QUADRAPLEX PUMP CONTROL PANEL AND AUTOMATIC TRANSFER SWITCH WHERE INDICATED
- G10. THE SCADA ALARM SYSTEM SHALL BE A MISSION COMMUNICATIONS MYDRO 850. IT SHALL BE FURNISHED WITH A NEMA 4X ENCLOSURE, POWER SUPPLY, BACKUP BATTERY, ANTENNA WITH CABLE, 16 DIGITAL INPUTS, AND THREE YEAR MONITORING CONTRACT. THE SYSTEM SHALL INCLUDE ALL SETUP AND USER FEES. AN EQUIVALENT SYSTEM BY HIGH TIDE TECHNOLOGIES IS ACCEPTABLE.
- THE SCADA SYSTEM SHALL MONITOR THE FOLLOWING POINTS:
- PUMP NO.1 RUN
 - PUMP NO.1 FAIL
 - PUMP NO.1 RUN TIME
 - PUMP NO.2 RUN
 - PUMP NO.2 FAIL
 - PUMP NO.2 RUN TIME
 - PUMP NO.3 RUN
 - PUMP NO.3 FAIL
 - PUMP NO.3 RUN TIME
 - JOCKEY PUMP RUN
 - JOCKEY PUMP FAIL
 - JOCKEY PUMP RUN TIME
 - GENERATOR IN AUTO
 - GENERATOR ALARM/FAIL
 - GENERATOR FUEL LEVEL LOW
 - WET WELL LOW LEVEL
 - WET WELL HIGH LEVEL
 - PHASE FAILURE
 - SEDIMENT STRUCTURE HIGH ALARM
 - RTU FAIL
 - ATS IN UTILITY POSITION
 - ATS IN EMERGENCY POSITION
- G11. PROVIDE CORD GRIPS IN WET WELL TO SUPPORT FLOAT, TRANSDUCER AND PUMP CABLES. ALL GRIPS SHALL BE NON-METALLIC, ARMID FIBER, HEAVY DUTY, CLOSED MESH GRIPS. PROVIDE PRODUCTS OF HUBBEL-KELLUMS OR SLINGO. PROVIDE DOUBLE WEAVE FOR PUMP CABLES AND SINGLE WEAVE FOR FLOAT CABLES. PROVIDE STAINLESS STEEL SUPPORT BRACKET IN WET WELL FOR SUPPORT OF CABLES.
- A. ALEX ZEIGHER (HUBBEL): (203) 610-7737
- B. RENO HELTON (SLINGCO): (470) 483-5279
- G12. FURNISH AND INSTALL 10' X 3/4" DIA. GROUND ROUNDS AROUND THE SITE PERIMETER. SEE DETAIL 1/E1.1.
- G13. THE SURGE PROTECTION DEVICE SHALL BE MOUNTED WITHIN THE PUMP CONTROL PANEL AND PROVIDED WITH THE PANEL FROM THE PANEL FABRICATOR.
- G14. VERTICAL MEMBERS OF THE ALUMINUM EQUIPMENT FRAME AND RIGID ALUMINUM CONDUIT BELOW GRADE AND WITHIN CONCRETE SHALL BE PROTECTED FROM CORROSION. PROVIDE AND APPLY TWO COATS OF 3M SCOTCHCRAP PIPE PRIMER AND TWO OVERLAPPING LAYERS OF 3M SCOTCHCRAP 51(20MIL) CORROSION PROTECTION TAPE.
- G15. A STAINLESS STEEL BRACKET FOR SUPPORT OF THE PUMP MOTOR FLOAT AND TRANSDUCER CABLES. PROVIDE NON-METALLIC (ARIMID FIBER), HEAVY DUTY, SINGLE EYE CLOSED MESH CABLE SUPPORT GRIP FOR PUMP MOTOR CABLES PROBE CABLE. PROVIDE PRODUCTS OF HUBBELL KELLEMS, OR SLINGCO.

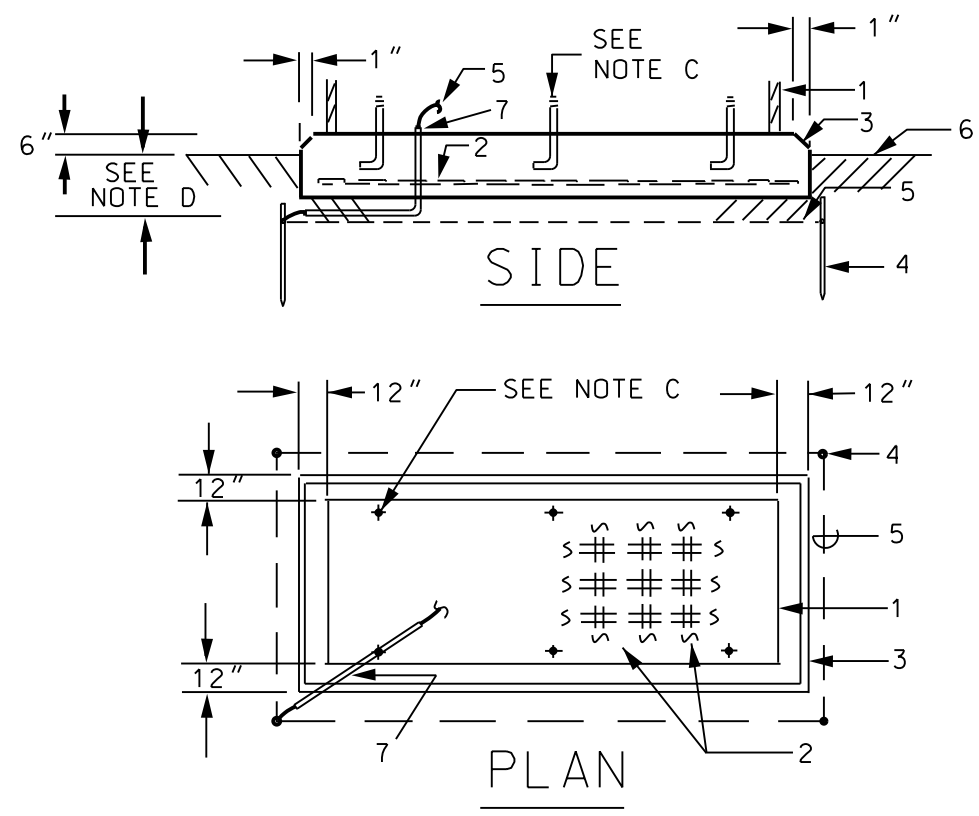


NOTES:

1. THERM-O-WELD HEAVY DUTY GROUND ACCESS WELL WITH CAST IRON COVER. FLUSH-IN-GRADE, SCHEDULE 80 PVC, ROUND ENCLOSURE, 12" DIAMETER, 24" TALL, TIER 22 RATING. CAT. NO. 38-6344-24.
2. GROUND ROD SHALL BE DRIVEN TO 12" BELOW FINISH GRADE. GROUNDING ELECTRODE CONDUCTOR TERMINATION SHALL BE MADE WITH EXOTHERMIC WELD.
3. GROUNDING ELECTRODE CONDUCTOR SHALL BE BURIED 24" BELOW FINISH GRADE.

2 GROUND ROD TEST WELL DETAIL

E1.1 SCALE: NONE



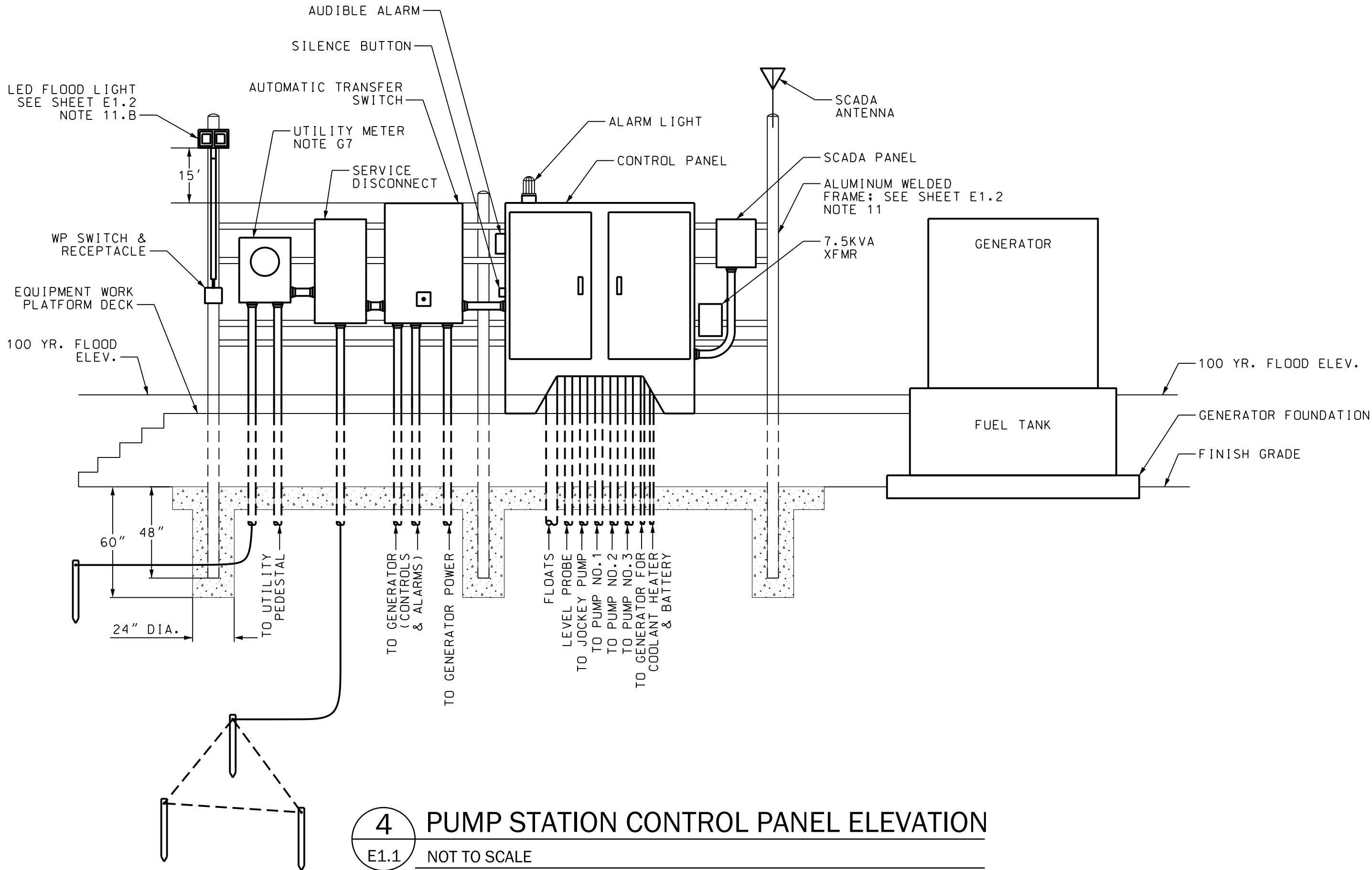
- 1 - GENERATOR SET ENCLOSURE OUTLINE
- 2 - REINFORCING STEEL, NOTE A
- 3 - 1" CHAMFER
- 4 - 3/4" X 10' COPPERCLAD GROUND ROD
- 5 - #1/0 CU BARE GROUND CONDUCTOR
- 6 - FINISHED GRADE
- 7 - 3/4" SCH.80 PVC W/ CU. GROUND, SEE NOTE B

NOTES:

- A. #8 GA. STEEL WIRE MESH, 6" O.C. OR #6 REBAR, 12" O.C., HORIZ. & VERTICALLY.
- B. CONNECT TO GENERATOR GROUND CONNECTION LUG. VERIFY STUB UP LOCATION WITH MANUFACTURERS SHOP DRAWINGS. WATERPROOF CONDUIT END WITH SEALING COMPOUND.
- C. ANCHOR BOLTS FURNISHED WITH GENERATOR SET. PROVIDE SIX MINIMUM. TIE TO REINFORCING STEEL.
- D. DIMENSION SHALL BE 6" (12" OVERALL DEPTH) UP TO & INCLUDING 600 KW. 12" (18" OVERALL DEPTH) LARGER THAN 600 KW.

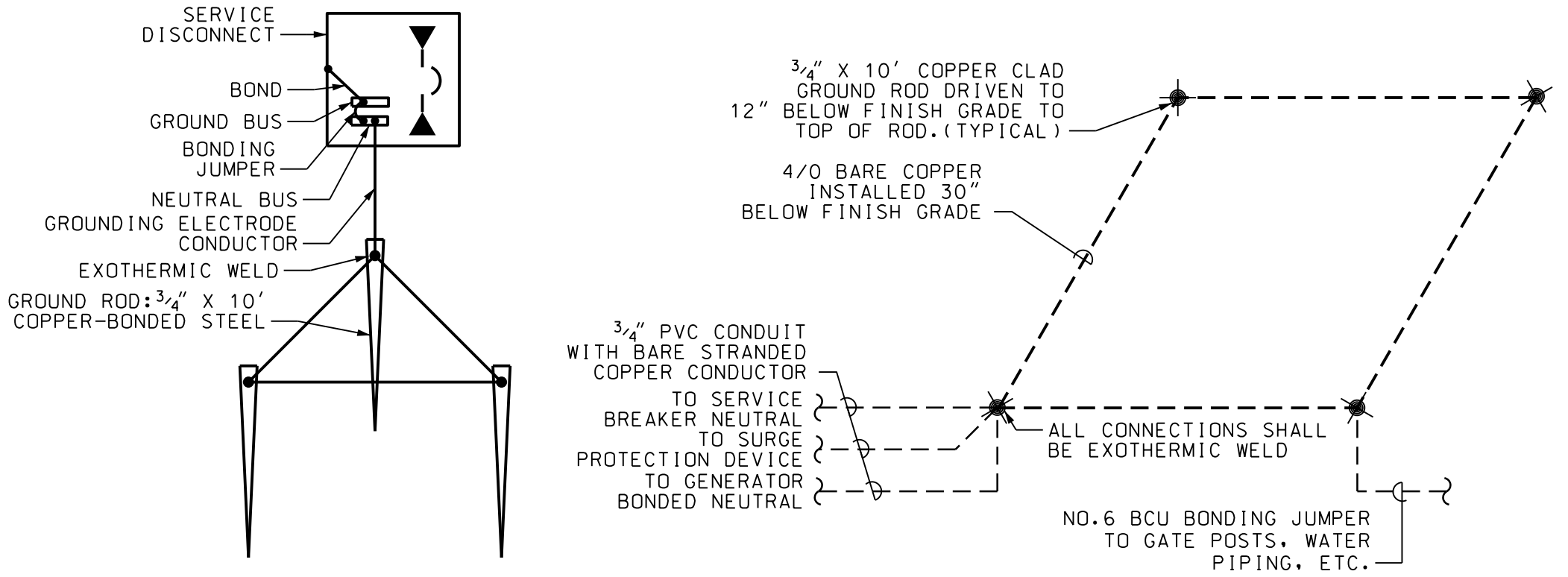
3 GENERATOR FOUNDATION DETAIL

E1.1 SCALE: NONE



4 PUMP STATION CONTROL PANEL ELEVATION

E1.1 NOT TO SCALE



1 SECONDARY ELECTRICAL GROUNDING

E1.1 SCALE: NONE

GENERAL NOTES & DETAILS

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

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TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO.:	J-27091.0001
DATE:	05/11/26
DRAWN:	AO
DESIGNED:	AO
REVIEWED:	CC
APPROVED:	CC
SCALE:	AS SHOWN

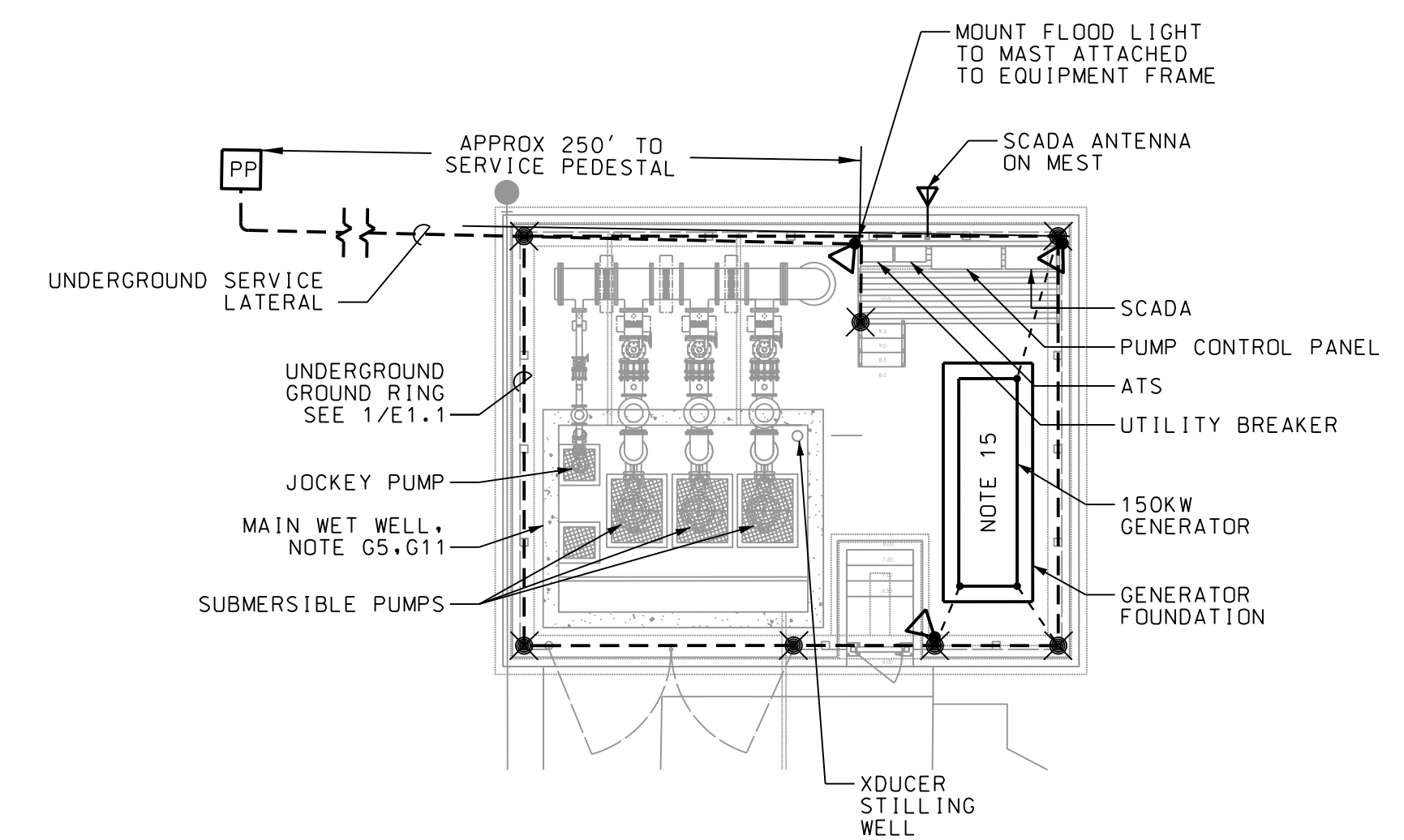
E1.1

1. THE AUTOMATIC TRANSFER SWITCH SHALL PROVIDE A PRE-TRANSFER SIGNAL TO THE PUMP CONTROL PANEL. THE PUMP CONTROL PANEL SHALL DE-ENERGIZE THE MOTOR CONTROLLERS BEFORE THE TRANSFER SWITCH CHANGES SOURCES. THIS SIGNAL SHALL BE TRANSMITTED FOR ALL TRANSFER SWITCH OPERATIONS.

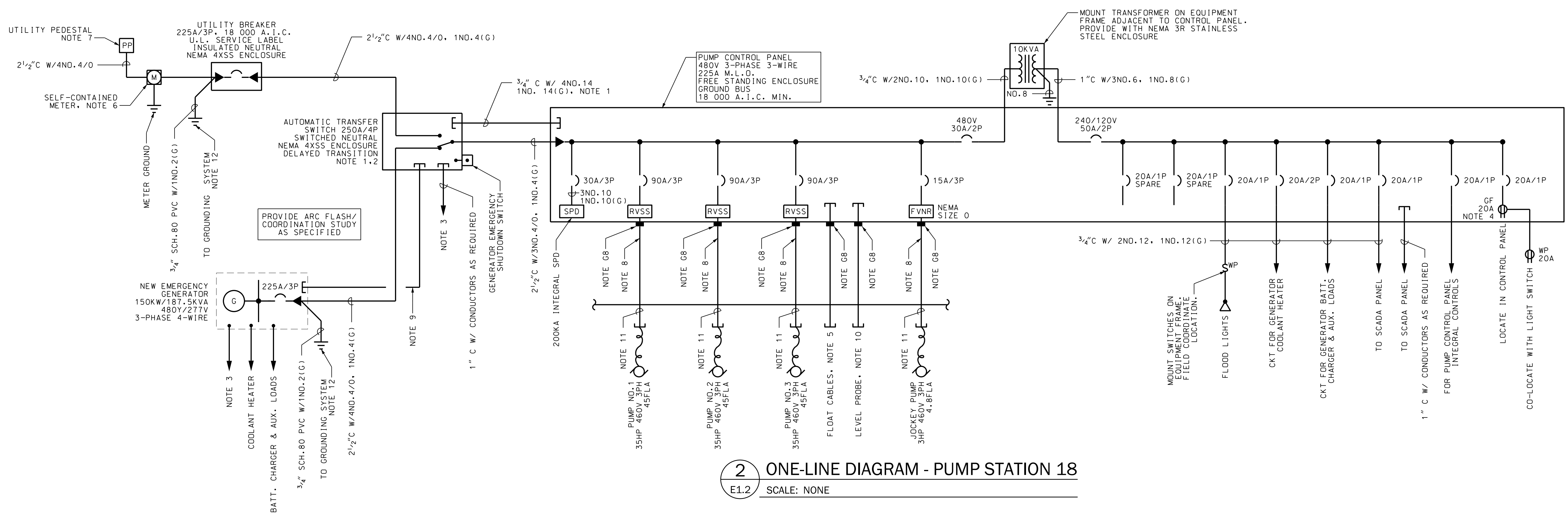
THE AUTOMATIC TRANSFER SWITCH SHALL ALSO PROVIDE A POST-TRANSFER SIGNAL TO THE PUMP CONTROL PANEL. THE PUMP CONTROL PANEL SHALL UTILIZE THIS SIGNAL TO INITIATE A PROGRAMMED APPLICATION OF THE STATION PUMPS. REFER TO THE GENERATOR SPECIFICATION SECTION FOR LOAD SEQUENCE.
2. THE AUTOMATIC TRANSFER SWITCH SHALL BE A CUMMINS QTEC SERIES SWITCH OR EQUAL BY CATERPILLAR; IT SHALL INCLUDE OPEN/PROGRAMMED TRANSITION, LEVEL 2 (C024) CONTROL, DIGITAL DISPLAY (M018), FRONT PANEL SECURITY (M017), RELAY SIGNAL MODULE (M023), COMPREHENSIVE 1-YEAR WARRANTY (G013). THE TRANSFER SWITCH SHALL BE 4-POLE, NEMA 4X STAINLESS STEEL ENCLOSURE, PROVIDE ATS KEYPAD WITH SOLAR SHIELD; FURNISH PRODUCTS OF SHADE AIDE OR ATTABox/ROBROY
3. EXTEND GENERATOR COMMON ALARM WIRING IN 1" CONDUIT TO SCADA PANEL.
4. PROVIDE WEATHER RESISTANT/TAMPER RESISTANT TYPE RECEPTACLE (HUBBELL GSG5362 WITH EXTRA DUTY COVER: HUBBELL WP26).
5. 2" SCH.80 PVC W/ FLOAT CABLES TO WET WELL
6. SELF CONTAINED METER, INSTALLED BY DIV. 16. REFER TO REQUIREMENTS OF DOMINION ENERGY SERVICE AND METERING INSTALLATIONS.
7. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH TIM SMITH, DOMINION ENERGY DISTRIBUTION ENGINEER
8. 2" SCH.80 PVC(BELOW GRADE; ARC ELBOW AND ARC FROM BELOW TO ABOVE GRADE) WITH PUMP MOTOR POWER CABLE.
9. EXTEND THREE (3) 1" C W/CONDUCTORS AS REQUIRED FOR CONTROL & ALARM TO THE ATS.
10. 2" SCH.80 PVC WITH LEVEL PROBE CABLE TO STILLING WELL.

1. THE EQUIPMENT FRAME SHALL BE FABRICATED FROM 6061-T6 ALUMINUM. THIS SHALL BE FOR ALL BARS, ANGLES, CHANNELS, I-BEAMS AND EXTRUSIONS.
 - A. THE RACKS SHALL CONSIST OF THREE VERTICAL 8"x4"x0.250" I-BEAM, WITH 8"x6" CHANNEL FOR HORIZONTAL BRACING MEMBERS. VERTICAL POSTS SHALL BE SET 48" IN 24" DIA. SONOTUBE FORM. CONCRETE SHALL EXTEND 60" BELOW FINISH GRADE. POST HEIGHT SHALL BE FIELD DETERMINED PRIOR TO FRAME FABRICATION. COORDINATE WITH THE CIVIL ENGINEER FOR 100YR FLOOD ELEVATIONS, PLATFORM ELEVATIONS, ETC. THE EQUIPMENT FRAME SHALL BE AT THE REQUIRED ELEVATION SUCH THAT THE CONTROL PANEL MAY BE ATTACHED AND SUPPORTED AT THE TOP OF THE ENCLOSURE.
 - B. ONE VERTICAL POST SHALL BE 5' HIGHER FOR SUPPORT OF THE FLOOD LIGHT.
 - C. VERTICAL POSTS SHALL PROVIDE SPACE FOR MOUNTING AND SUPPORT OF ALL EQUIPMENT. HORIZONTAL SUPPORTS SHALL BE PROVIDED AS REQUIRED FOR ATTACHMENT AT THE TOP AND BOTTOM OF SMALLER ENCLOSURES, AND CENTER SUPPORT OF LARGER ENCLOSURES (I.E. AT'S).
 - D. ALL FRAME CONNECTIONS SHALL BE MIG WELDED USING ER5356 MAGNESIUM/ALUMINUM ALLOY WITH HELIUM/ARGON BINARY GAS MIXTURE.
 - E. ALL ALUMINUM IN CONTACT WITH CONCRETE SLAB SHALL BE COATED WITH BITUMINOUS COLD TAR EPOXY.
12. GROUND CONNECTION FROM EQUIPMENT TO RING, 3/2" SCH.80 PVC W/1 NO.6 BCU TYPICAL. CONNECT TO EQUIPMENT WITH IRREVERSIBLE GROUNDING COMPRESSION TERMINAL (BURNDY YG6282N OR EQUAL FOR HYGROUND GROUNDING TOOL). CONNECT TO % GROUND RING WITH EXOTHERMIC WELD.
13. WORKING/MAINTENANCE PLATFORM ABOUT GENERATOR. COORDINATE ELEVATION WITH GENERATOR PLATFORM ABOUT EQUIPMENT. EXTEND AS REQUIRED TO GENERATOR FURNISHED.
14. FIELD COORDINATE THE LOCATION OF THE EQUIPMENT RACK RECEPTACLE.
15. PROVIDE 3' MIN OF CLEARANCE BETWEEN GENERATOR AND FENCE OR OBSTRUCTIONS ALL SIDES. CLEARANCE SHALL ALLOW FOR FULL, UNOBSTRUCTED DOOR SWING, AND CODE REQUIRED WORKING SPACE CLEARANCE.

	LED FLOOD LIGHT: LITHONIA D-SERIES CAT. NO. DSXF3 LED-6-P1-40K-70CRI-WFL-MVOLT-IS-DBLXD
	MOTOR, HORSE POWER, VOLTAGE AND PHASE AS NOTED
GF WP	NEMA 5-20R RECEPTACLE, GROUND FAULT TYPE WITH WEATHERPROOF EXTRA DUTY, IN-SIDE COVER. NOTE G4.
SWP	SWITCH, 20A 120/277V WEATHERPROOF ENCLOSURE AND COVER, HUBBELL HBL1221 W/BELL OUTDOOR 5121-0.
	FLEXIBLE CONDUIT CONNECTION
	UTILITY METER
	GROUND ROD, 3/4" X 20' COPPER CLAD ROD
	POWER UTILITY PEDESTAL BY DOMINION ENERGY
FVNR	FULL VOLTAGE NON-REVERSING MAGNETIC STARTER
SPD	SURGE PROTECTION DEVICE
RVSS	REDUCED VOLTAGE SOFT STARTER
	SCADA ANTENNA



 **1** ELECTRICAL SITE PLAN - PUMP STATION 18
E1.2 SCALE: 1" = 10' - 0"



2 ONE-LINE DIAGRAM - PUMP STATION 18

E1.2 SCALE: NONE

NO.	REVISIONS	BY	DATE



MULTI-BASIN DRAINAGE IMPROVEMENT

CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

DATUM: HORIZ.: NAD 83		VERT.: NAVD 88
JOB NO: J-27091.0001	E1.2	
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APPROVED: CC		
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E1.2