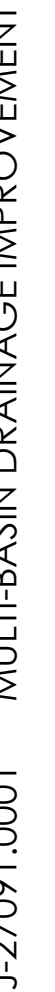
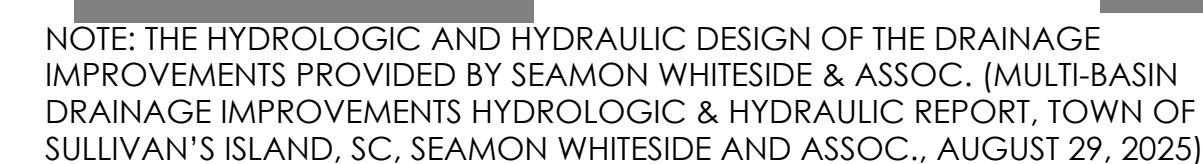


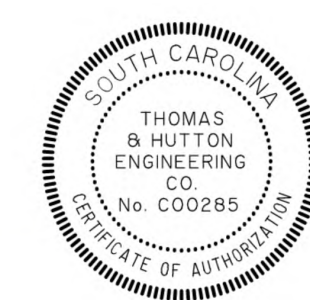


PREPARED FOR:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

PREPARED BY:



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



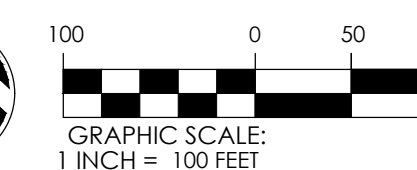
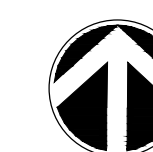
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

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

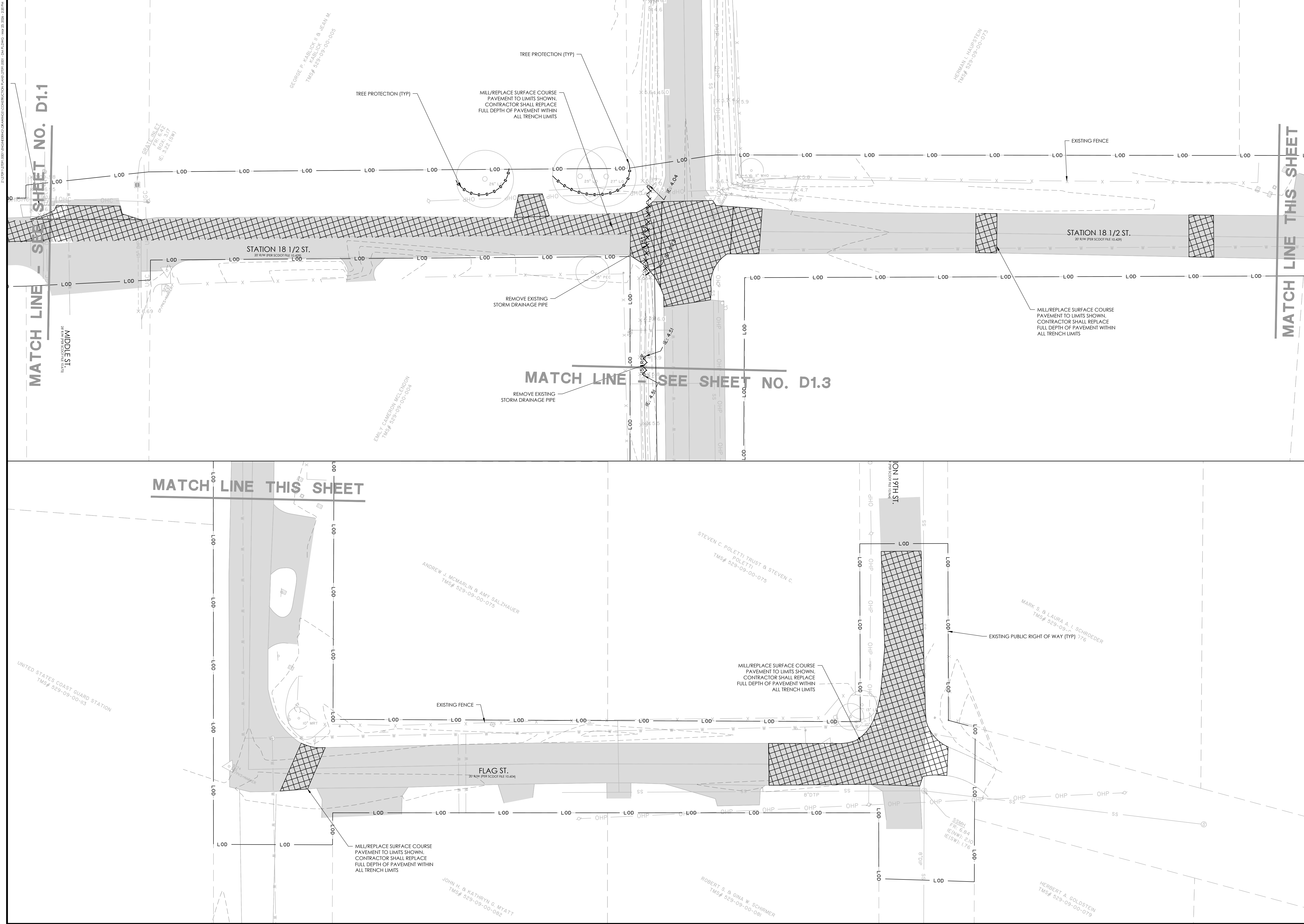


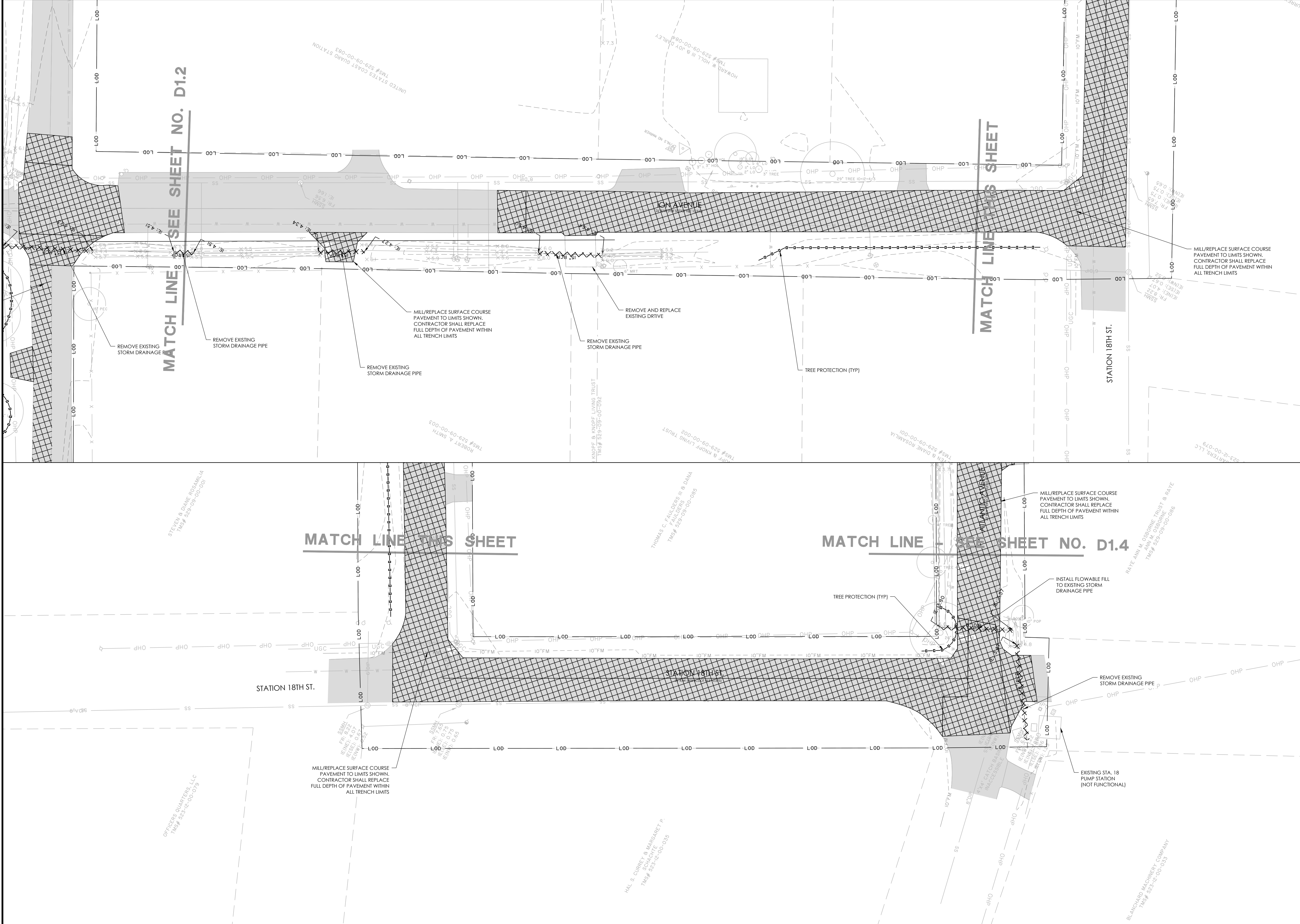
DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

JOB NO:	27091.0001
DATE:	
DRAWN:	
DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	1" = 100'

C1.1





LEGEND

REMOVE AND REPLACE PAVEMENT

REMOVE AND REPLACE LANDSCAPING, PLANTINGS, AND VEGETATION

TREE REMOVAL

REMOVE EXISTING DRAINAGE PIPE

NO.	REVISIONS	BY	DATE

THOMAS & HUTTON ENGINEERING CO. No. C00285

THOMAS & HUTTON

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

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

D1.3

GRAPHIC SCALE: 1 INCH = 20 FEET

GRAPHIC SCALE: 1 INCH = 20 FEET

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

JOB NO: 27091.0001

DATE: _____

DRAWN: _____

DESIGNED: _____

REVIEWED: _____

APPROVED: _____

SCALE: SEE SCALE BAR

[illegible]

PERMANENT SEEDING - COASTAL													
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
BROWNTOP MILLET	10												
ATLANTIC COASTAL	15												
PANICGRASS	PLS												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
(ALAMO)	PLS												
LITTLE BLUESTEM	4												
BROWNTOP MILLET	10												
WEEPING LOVEGRASS	8												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
RYE, GRAIN	10												
BAHIAGRASS	40												
CLOVER, CRIMSON (ANNUAL)	5												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
BROWNTOP MILLET	10												
BERMUDA, COMMON	10												
BROWNTOP MILLET	10												
BERMUDA, COMMON	12												
BROWNTOP MILLET	10												
BAHIAGRASS	20												
BERMUDA, COMMON	6												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
LITTLE BLUESTEM	PLS												
INDIAGRASS	3												

ALL ITEMS IN SECTION 10D OF THE CURRENT ARMS MANUAL FOR BOTH CONSTRUCTIONS AND POST CONSTRUCTION DESIGN HAVE BEEN STUDIED AND ADDRESSED. ALL NECESSARY BMPS HAVE BEEN IMPLEMENTED FOR BOTH PHASES (CONSTRUCTION AND POST-CONSTRUCTION) TO AVOID NEGATIVELY IMPACTING IMPAIRED WATERS OF THE SCDOT SYSTEM AND/OR ITSDISCHARGES. ALL REQUIREMENTS IN SECTION 10B OF THE CURRENT ARMS MANUAL FOR POST DEVELOPMENT RELEASE RATES HAVE BEEN MET. THERE WILL BE ZERO INCREASE IN RUNOFF TO SCDOT RIGHT OF WAY.

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
CLEARING LIMITS	
DIVERSION DIKE	
DIVERSION BERM	
TEMPORARY DIVERSION	
PERMANENT DIVERSION	
SUBSURFACE DRAIN	
VEGETATED CHANNEL	
RIP RAP LINED CHANNEL	
ECB OR TRM LINED CHANNEL	
PAVED CHANNEL	
TREE PROTECTION	
SURFACE ROUGHENING	
TOP SOILING	
TEMPORARY SEEDING	
PERMANENT SEEDING	
MULCHING	
EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT	

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
FLEXIBLE GROWTH MATRIX	
BONDED FIBER MATRIX	
SODDING	
SLOPED SODDING	
STAKED SOD	
STAKED SOD AROUND INLET	
RIPRAP	
OUTLET PROTECTION - RIP RAP	
OUTLET PROTECTION - ECB OR TRM	
DUST CONTROL	
POLYACRYLAMIDE (PAM)	
SEDIMENT BASIN	
SEDIMENT BASIN WITH SKIMMER	
SEDIMENT TRAP	
ROCK SEDIMENT DIKE	
SEDIMENT TUBE	

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
ROCK CHECK DAM	
POROUS BAFFLES	
STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	
STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE	
STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE	
STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL	
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE	
STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA	
STORM DRAIN INLET PROTECTION - CATCH BASIN INSERT	
PIPE SLOPE DRAINS	
TEMPORARY STREAM CROSSING	
LEVEL SPREADER	

CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1 OBTAIN COPIES OF ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	CONTRACTOR TO HAVE ONSITE AT ALL TIMES DURING CONSTRUCTION.
2 FLAG THE WORK LIMITS AND BARRICADE TREES AND MARK BUFFER AREAS FOR PROTECTION.	HAVE LOCAL REGULATORY AGENCY INSPECT TREE BARRICADES.
3 HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	REVIEW TREE PROTECTION (BARRICADE) WITH OWNER AND LOCAL REGULATORY AGENCY. TAKE PICTURES OF ALL PROTECTED TREES AND LOCATIONS WHERE SITE WORK TIES INTO EXISTING TO DOCUMENT PREDEVELOPMENT PROCEDURES.
4 INSTALL CONSTRUCTION ACCESS AND LAY DOWN AREAS	STABILIZE BARE AREAS IMMEDIATELY AND INSTALL CONSTRUCTION EXITS / ENTRANCES.
5 CONSTRUCT SEDIMENT TRAPS AND BARRIERS- BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION.	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6 ESTABLISH RUNOFF CONTROL - DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING.
7 LAND CLEARING AND GRADING-SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
8 RUNOFF CONVEYANCE SYSTEM- INSTALL STORM DRAINS, STABILIZE BANKS, CHANNELS, INSTALL INLET AND OUTLET PROTECTION, SLOPE DRAINS.	WHERE NECESSARY, STABILIZE BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF- CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
9 INSTALL WASTEWATER COLLECTION, WATER DISTRIBUTION, AND STORM DRAINAGE SYSTEMS.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
10 SURFACE STABILIZATION-TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
11 BUILDING CONSTRUCTION- BUILDINGS UTILITIES, ROADS, ETC.	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
12 LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP.	LAST CONSTRUCTION PHASE--STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AMD	ACRYLAMIDE POLYMER
BFM	BONDED FIBER MATRIX
BMP(S)	BEST MANAGEMENT PRACTICE(S)
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
DHEC	DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
ECB	EROSION CONTROL BLANKET
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPSC	EROSION PREVENTION AND SEDIMENTATION CONTROL
FDA	UNITED STATES FOOD AND DRUG ADMINISTRATION
FGM	FLEXIBLE GROWTH MATRIX
HDPE	HIGH DENSITY POLYETHYLENE
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
MSDS	MATERIAL SAFETY DATA SHEETS
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP

No.	Name of the person	Age	Sex	Address
1	[Name]	[Age]	[Sex]	[Address]
2	[Name]	[Age]	[Sex]	[Address]
3	[Name]	[Age]	[Sex]	[Address]
4	[Name]	[Age]	[Sex]	[Address]
5	[Name]	[Age]	[Sex]	[Address]
6	[Name]	[Age]	[Sex]	[Address]
7	[Name]	[Age]	[Sex]	[Address]
8	[Name]	[Age]	[Sex]	[Address]
9	[Name]	[Age]	[Sex]	[Address]
10	[Name]	[Age]	[Sex]	[Address]
11	[Name]	[Age]	[Sex]	[Address]
12	[Name]	[Age]	[Sex]	[Address]
13	[Name]	[Age]	[Sex]	[Address]
14	[Name]	[Age]	[Sex]	[Address]
15	[Name]	[Age]	[Sex]	[Address]
16	[Name]	[Age]	[Sex]	[Address]
17	[Name]	[Age]	[Sex]	[Address]
18	[Name]	[Age]	[Sex]	[Address]
19	[Name]	[Age]	[Sex]	[Address]
20	[Name]	[Age]	[Sex]	[Address]
21	[Name]	[Age]	[Sex]	[Address]
22	[Name]	[Age]	[Sex]	[Address]
23	[Name]	[Age]	[Sex]	[Address]
24	[Name]	[Age]	[Sex]	[Address]
25	[Name]	[Age]	[Sex]	[Address]
26	[Name]	[Age]	[Sex]	[Address]
27	[Name]	[Age]	[Sex]	[Address]
28	[Name]	[Age]	[Sex]	[Address]
29	[Name]	[Age]	[Sex]	[Address]

NO.	REVISIONS	BY	DATE



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

SWPPP CHARTS

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

N/A

DATE: _____
 DD/MM/YY: _____

DESIGNED:

REVIEWED:

APPROVED:

EC0.2

[illegible]

**THOMAS
&
HUTTON**

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

www.thomasandhutton.com

SWPPP - INITIAL

MULTI-BASIN DRAINAGE
IMPROVEMENT

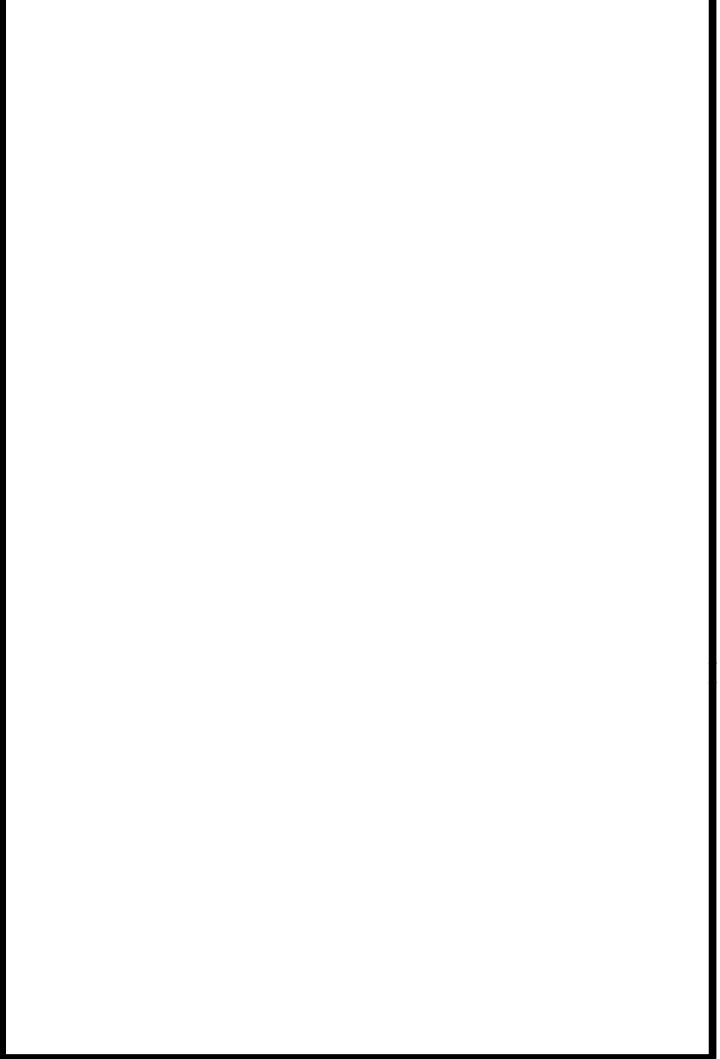
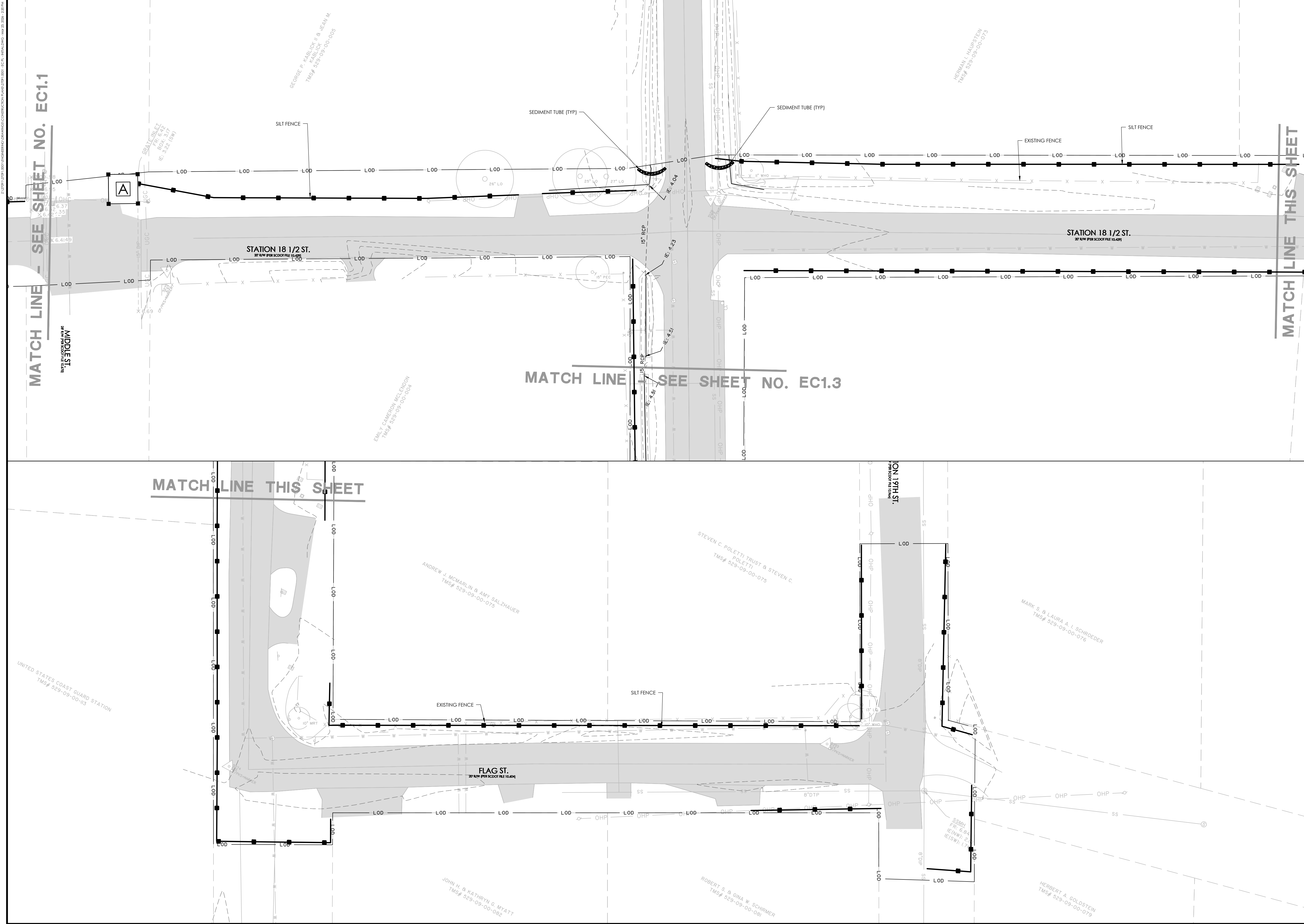
PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

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

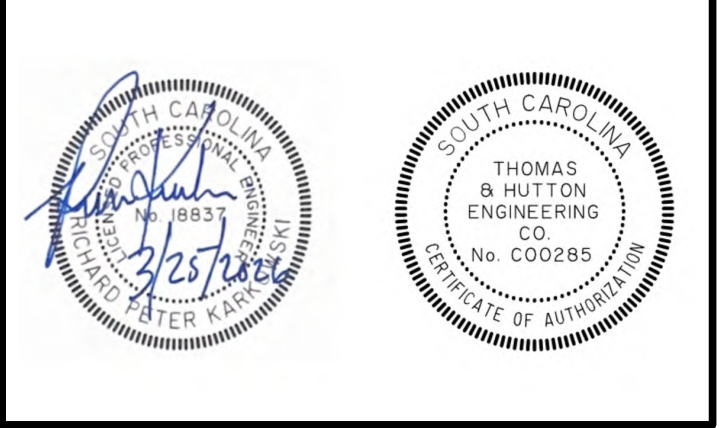
	 GRAPHIC SCALE: 1 INCH = 20 FEET		 GRAPHIC SCALE: 1 INCH = 20 FEET
DATUM: HORIZ.: NAD 83		VERT.: NAVD 88	

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

EC1.1



NO.	REVISIONS	BY	DATE



THOMAS & HUTTON

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

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

GRAPHIC SCALE:
1 INCH = 20 FEET

GRAPHIC SCALE:
1 INCH = 20 FEET

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

JOB NO: 27091.0001

DATE: 10/20/2023

DRAWN: JH

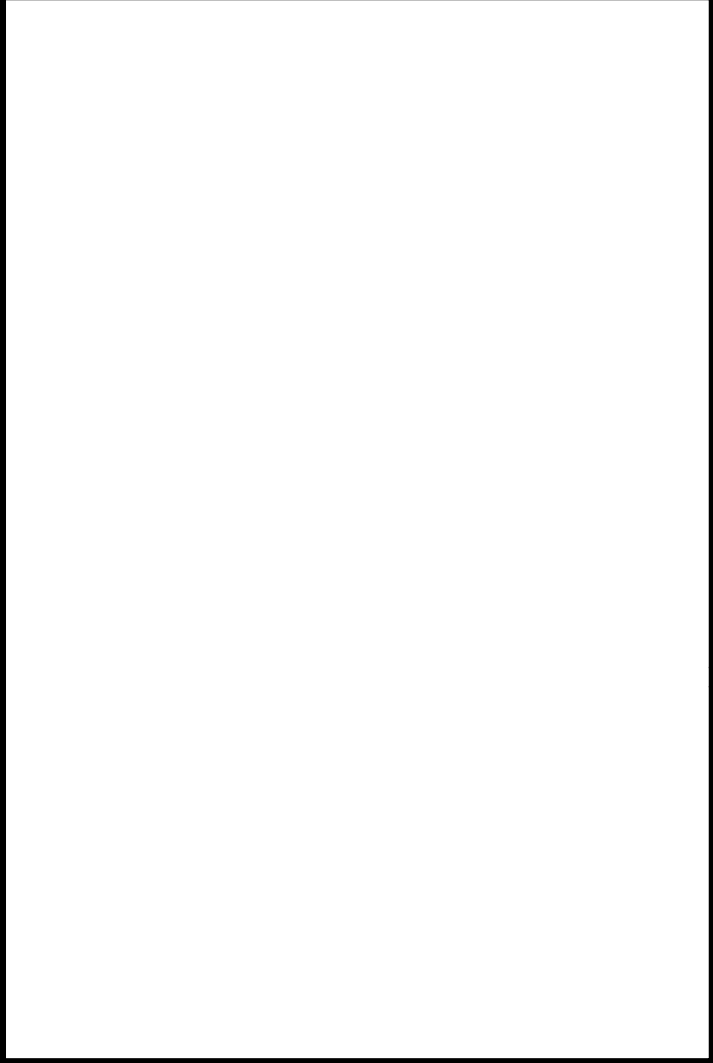
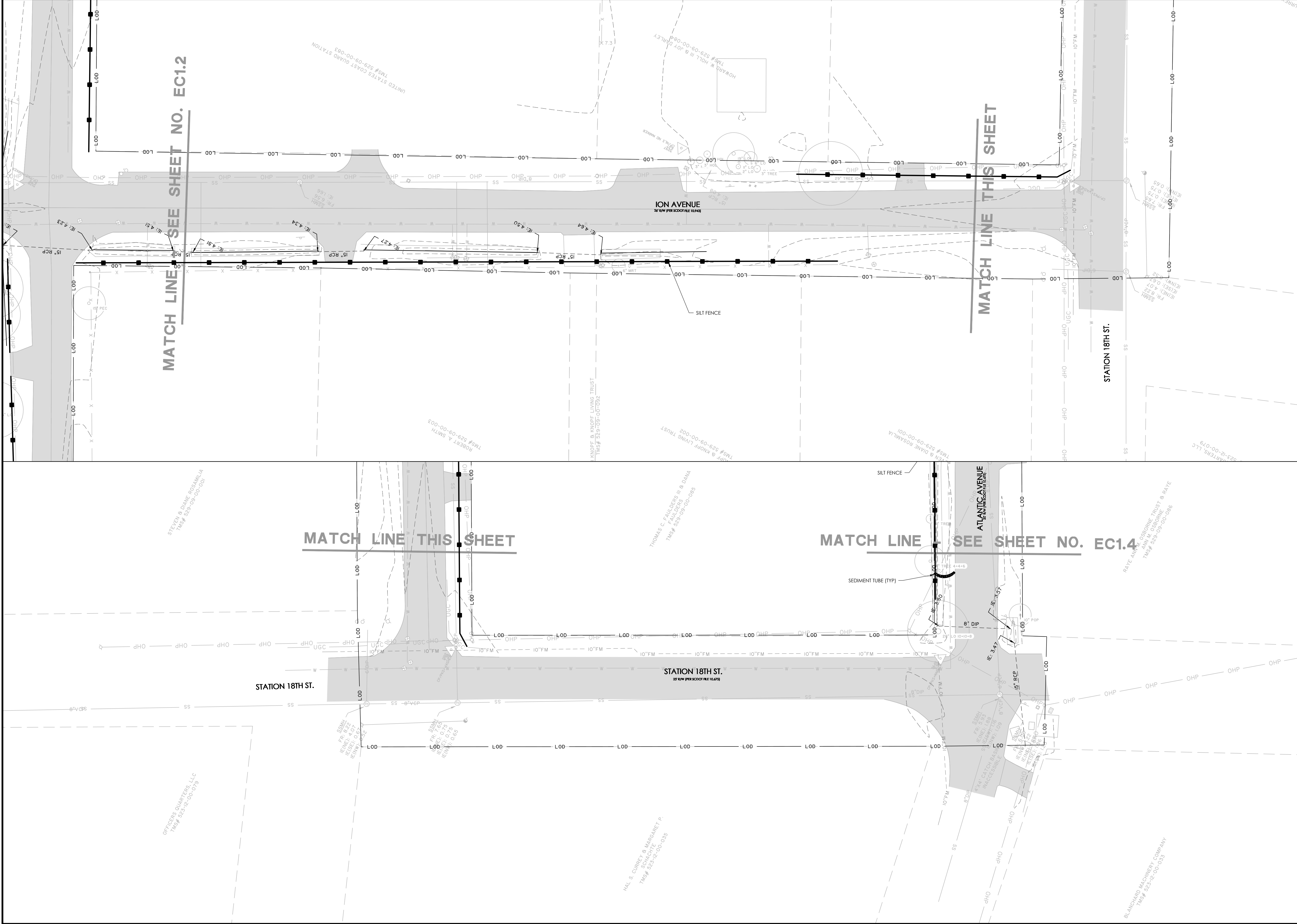
DESIGNED: JH

REVIEWED: JH

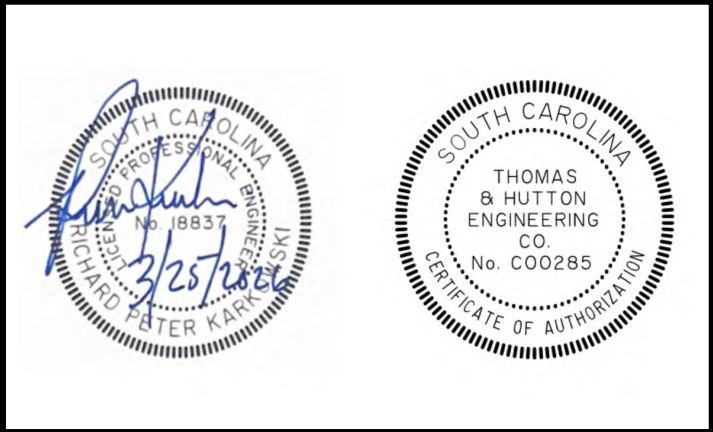
APPROVED: JH

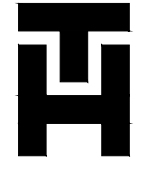
SCALE: SEE SCALE BAR

EC1.2



NO.	REVISIONS	BY	DATE





**THOMAS
&
HUTTON**

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

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



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



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

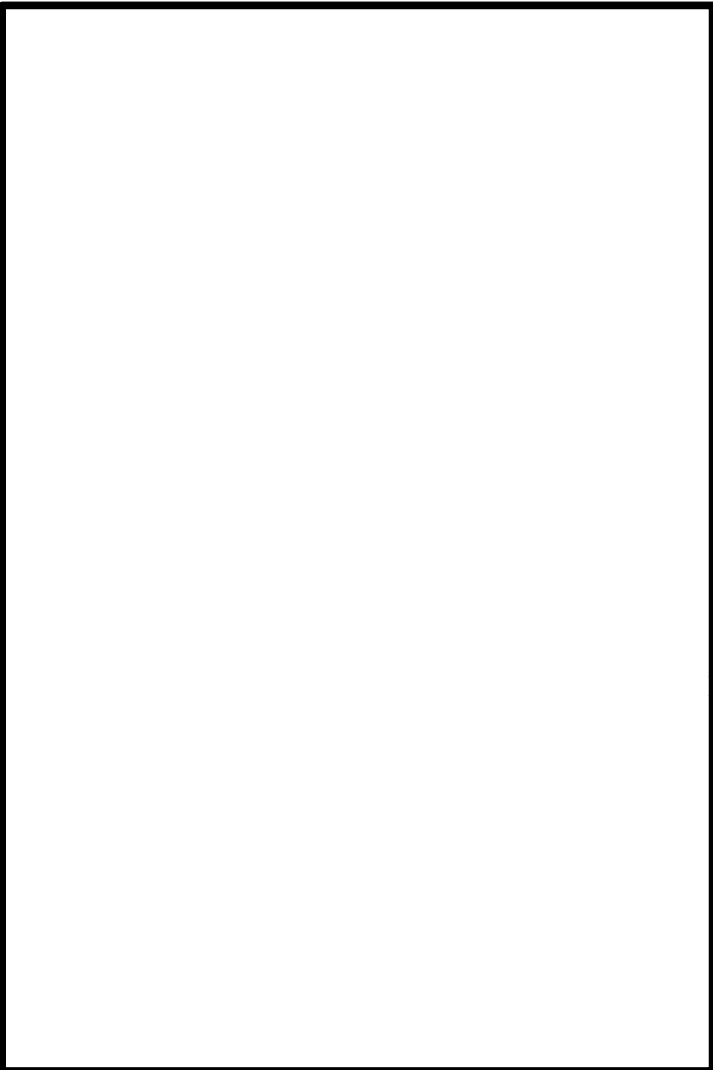
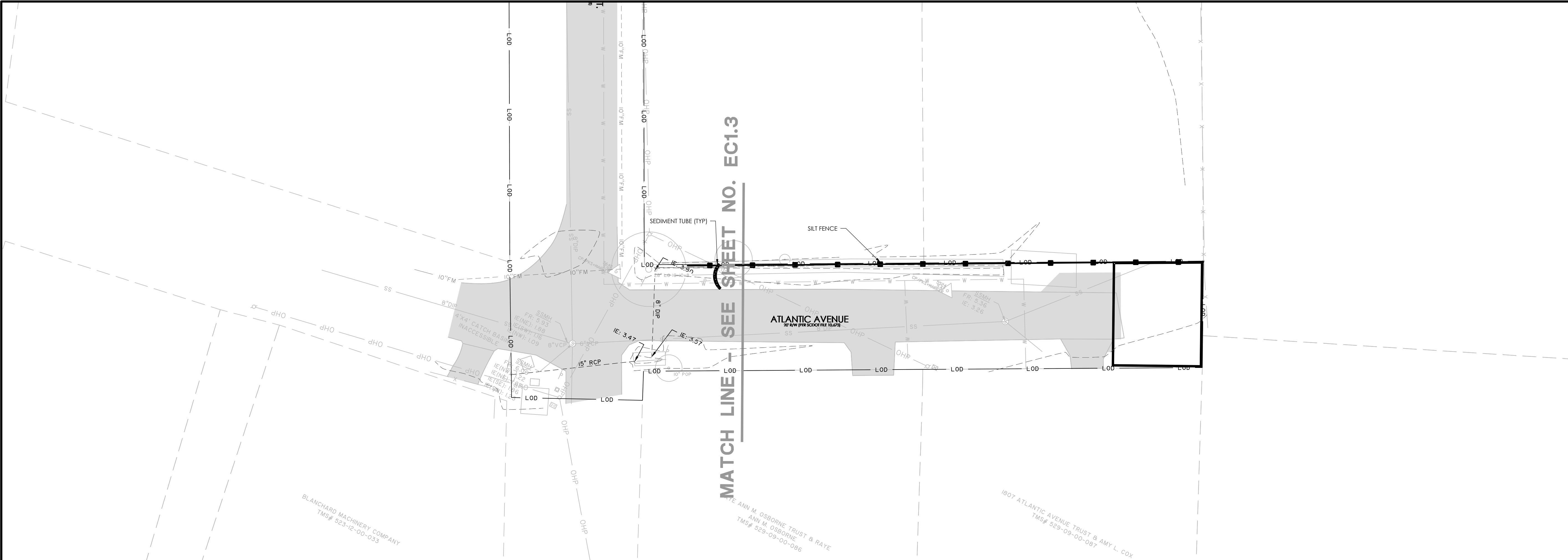
DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001

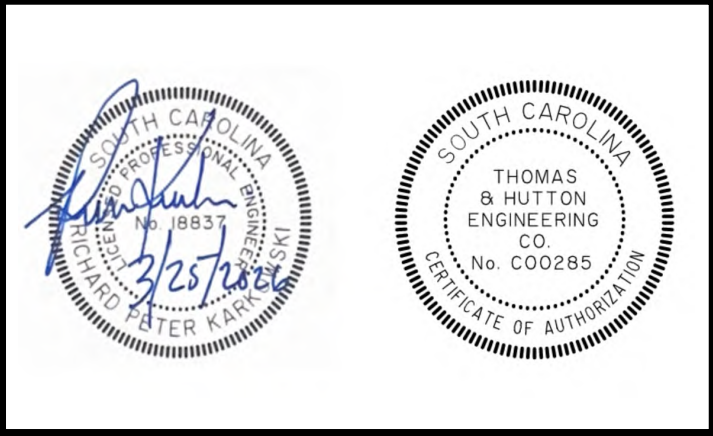
DATE:
DRAWN:
DESIGNED:
REVIEWED:
APPROVED:
SCALE: SEE SCALE BAR

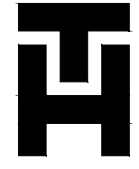
EC1.3

27091.0001.DWG (S:\27091.0001\27091.0001.DWG) 11/21/2024 10:00:00 AM



NO.	REVISIONS	BY	DATE



**THOMAS
&
HUTTON**

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

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



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



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

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

JOB NO: 27091.0001

DATE: _____

DRAWN: _____

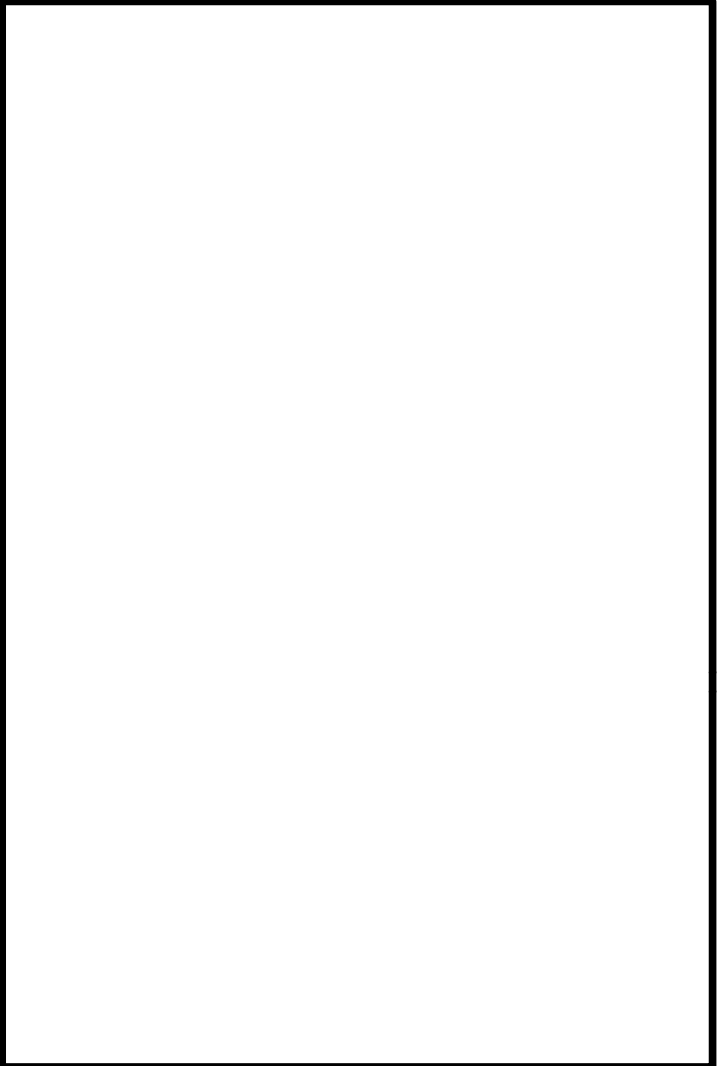
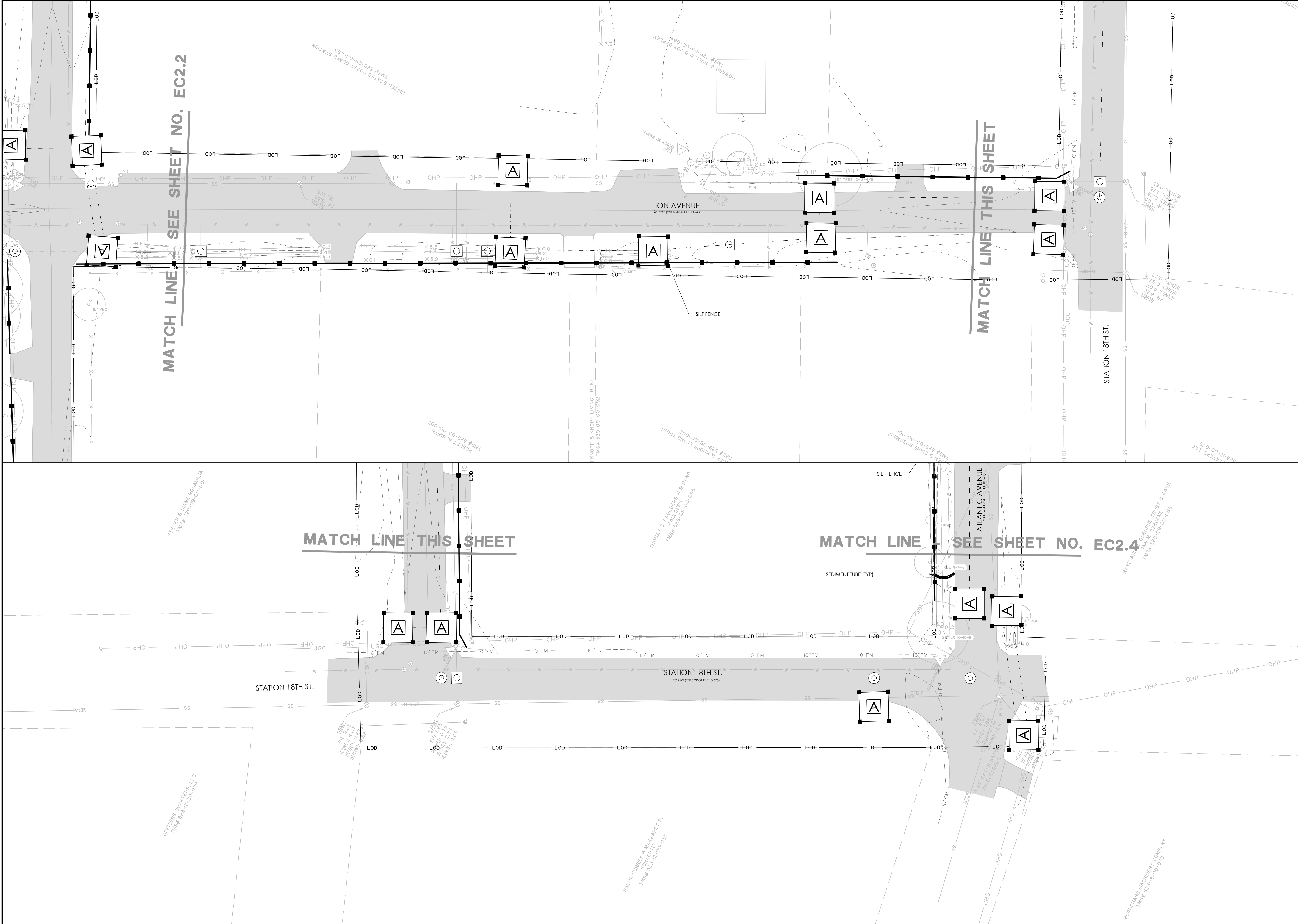
DESIGNED: _____

REVIEWED: _____

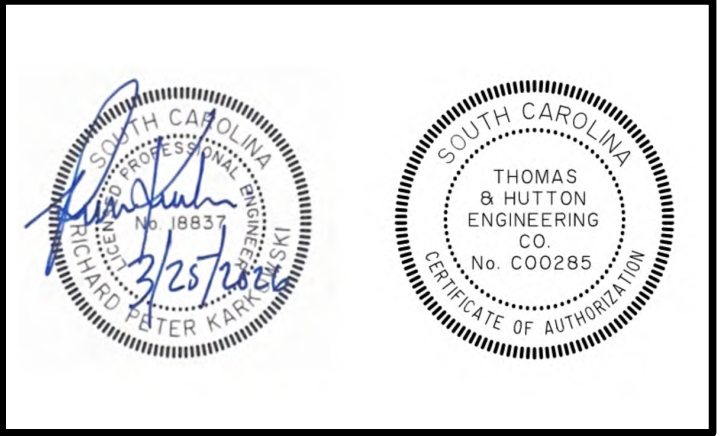
APPROVED: _____

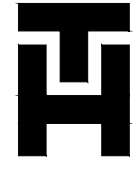
SCALE: SEE SCALE BAR

EC1.4



NO.	REVISIONS	BY	DATE





**THOMAS
&
HUTTON**

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

SWPPP - FINAL

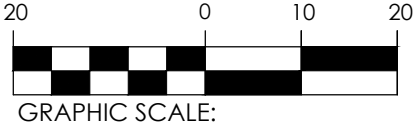
MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

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



GRAPHIC SCALE:
1 INCH = 20 FEET



GRAPHIC SCALE:
1 INCH = 20 FEET

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

JOB NO: 27091.0001

DATE:

DRAWN:

DESIGNED:

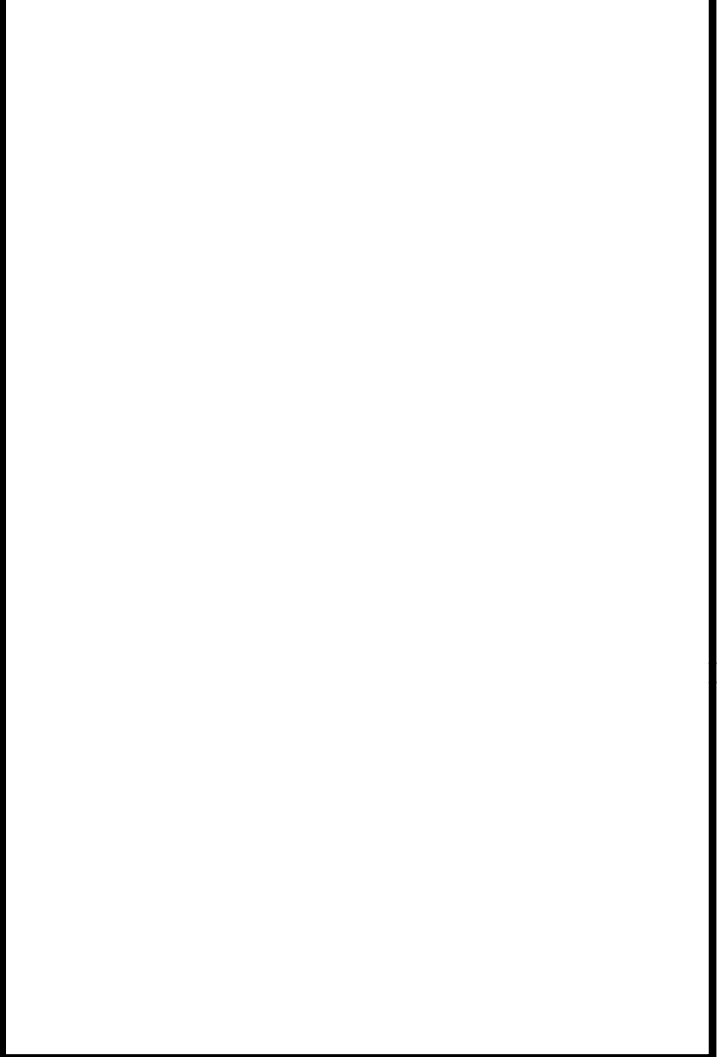
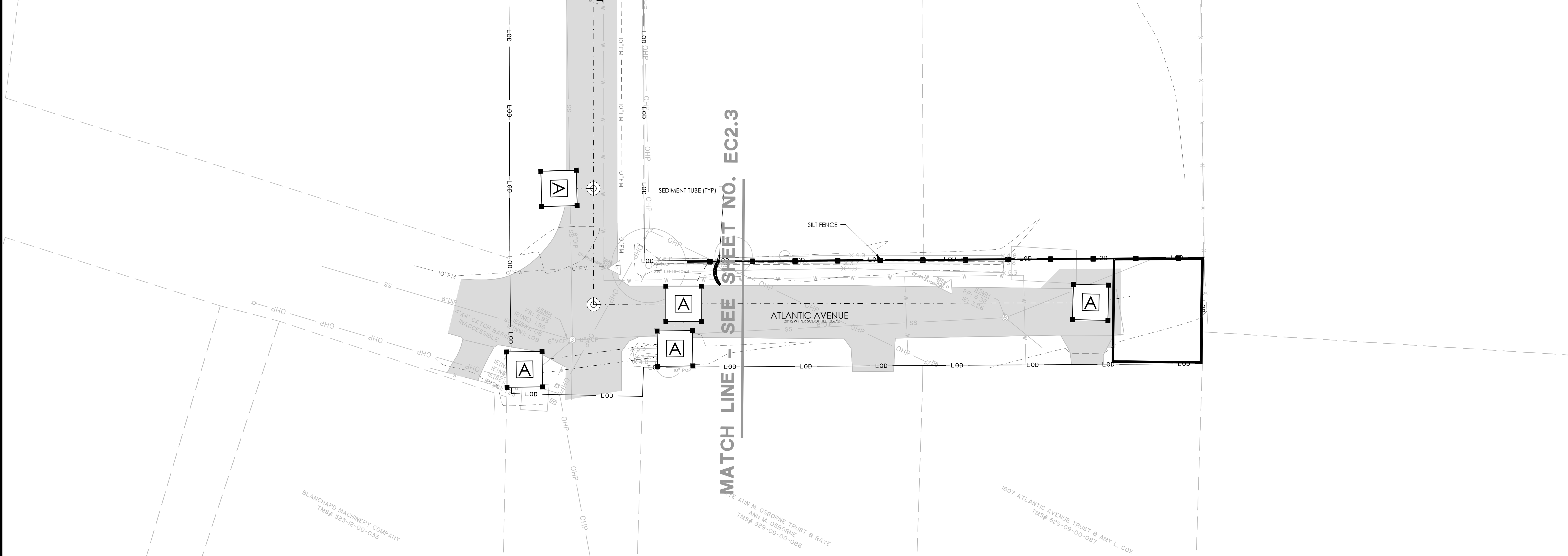
REVIEWED:

APPROVED:

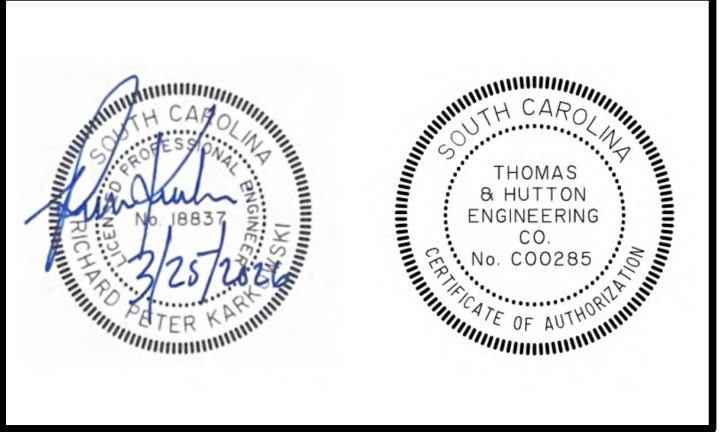
SCALE: SEE SCALE BAR

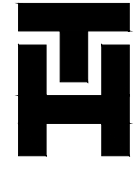
EC2.3

2:37PM 12/29/2020 10:00 AM C:\Users\ADMIN\Documents\CONSTRUCTION\PLANS\27091.0001_EC2.4_PNA.DWG - 12/29/2020 2:37 PM



NO.	REVISIONS	BY	DATE





THOMAS
&
HUTTON

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

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

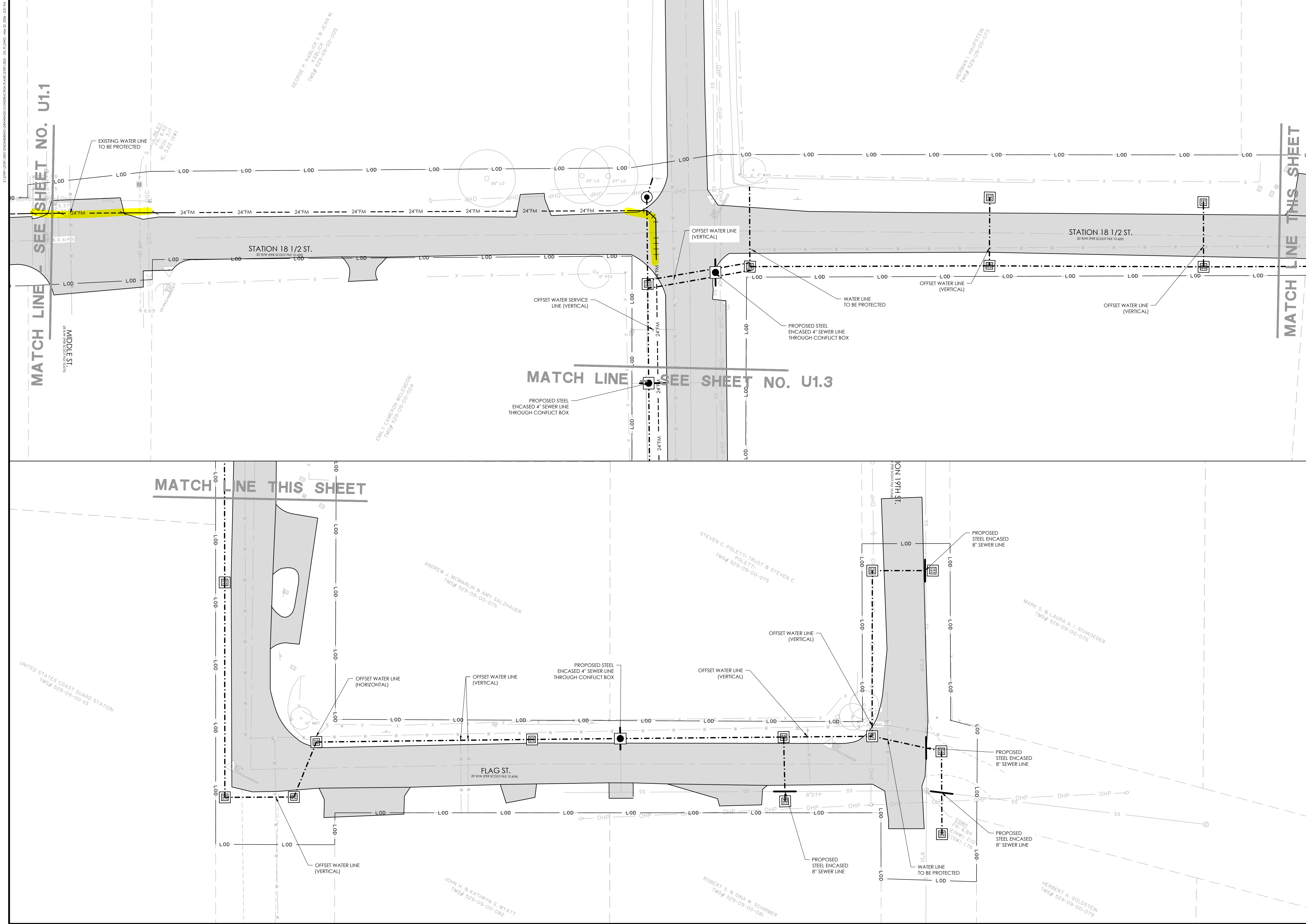


20 0 10 20
GRAPHIC SCALE:
1 INCH = 20 FEET

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

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

EC2.4



NO.

REVISIONS

BY

DATE

THOMAS & HUTTON

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

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

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

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

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

JOB NO: 27091.0001

DATE:

DRAWN:

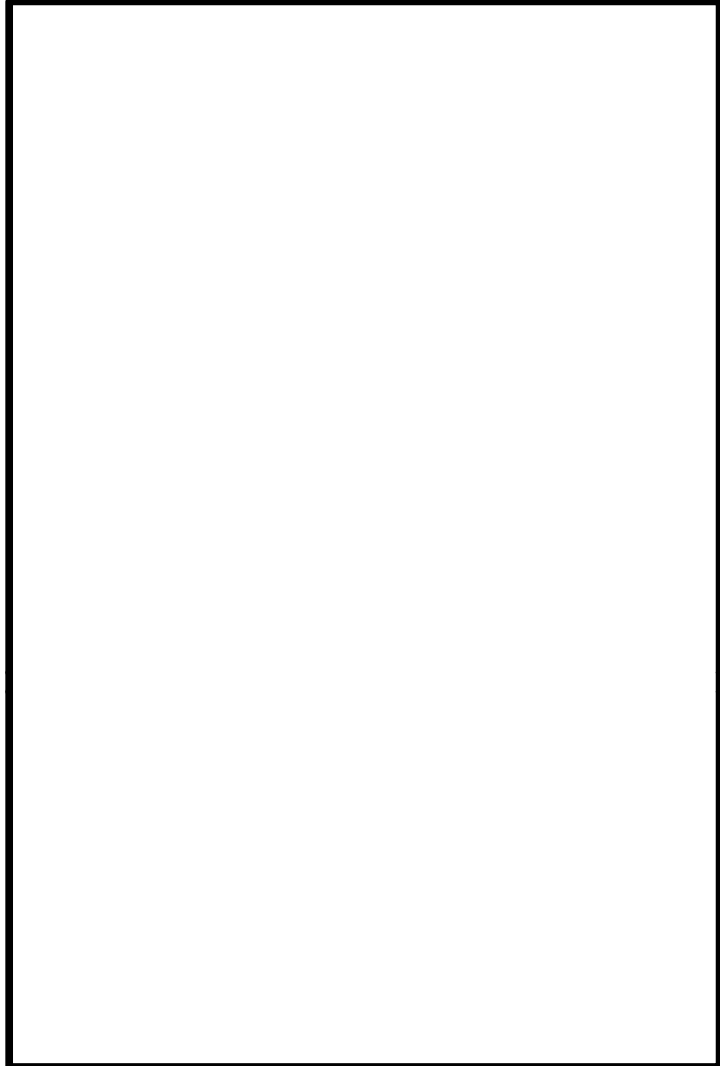
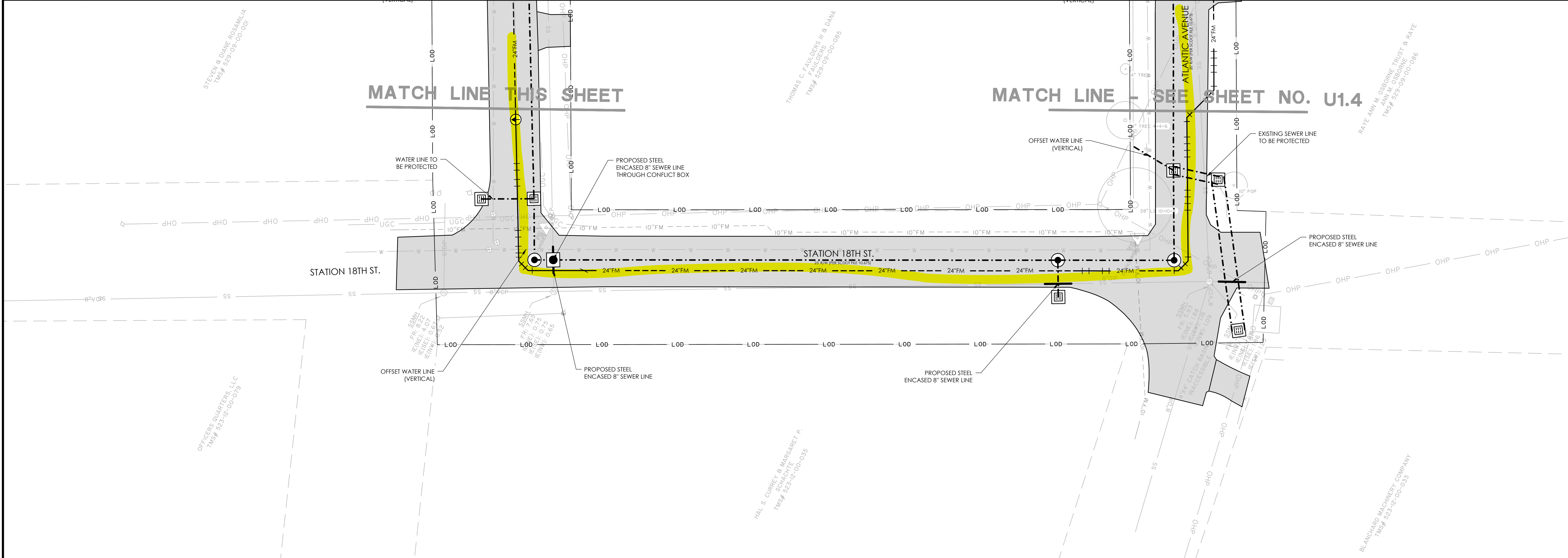
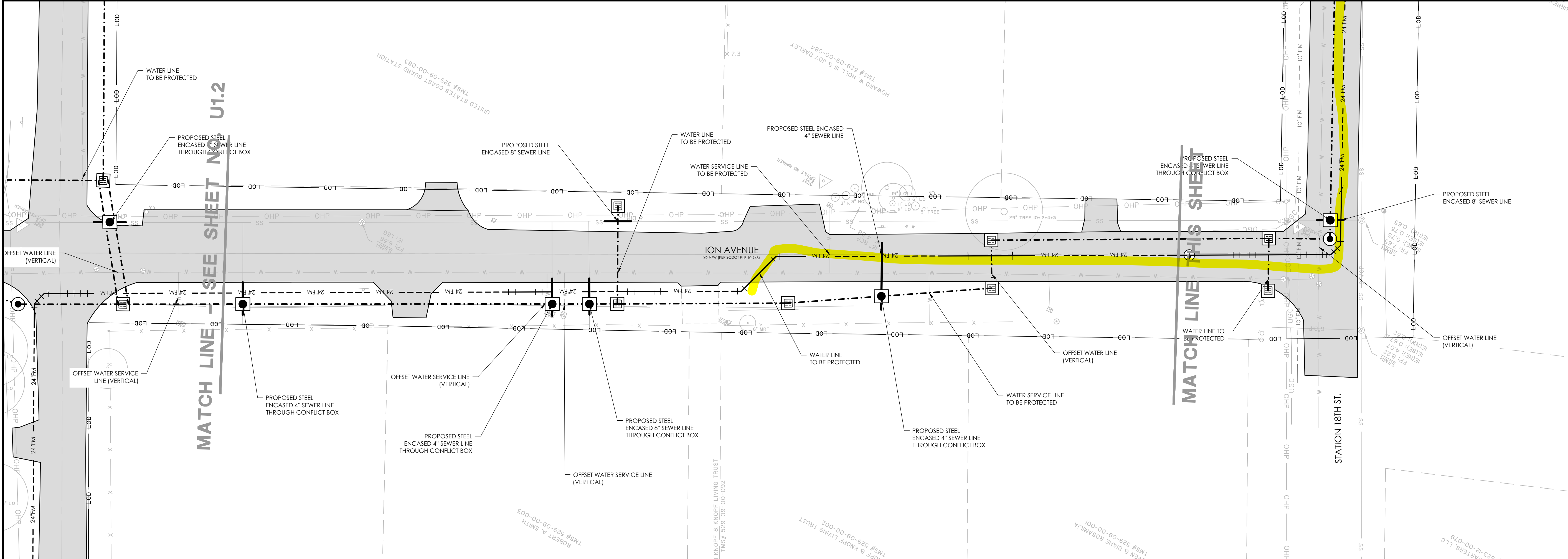
DESIGNED:

REVIEWED:

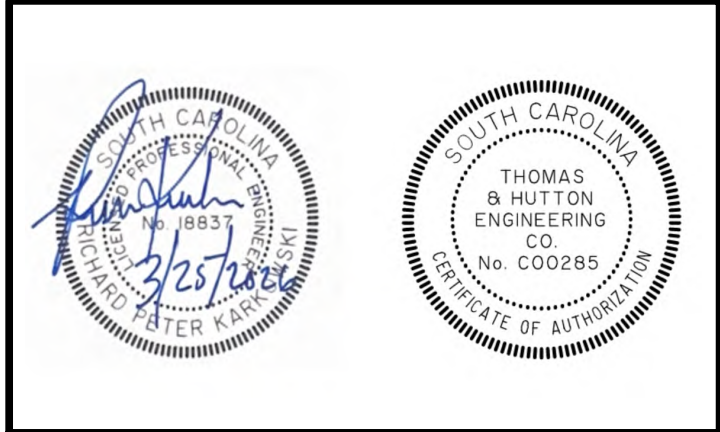
APPROVED:

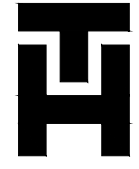
SCALE: SEE SCALE BAR

U1.2



NO.	REVISIONS	BY	DATE





**THOMAS
&
HUTTON**

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

UTILITY RELOCATION PLAN

MULTI-BASIN DRAINAGE
IMPROVEMENT

PROJECT LOCATION:
SULLIVAN ISLAND, SC

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



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



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

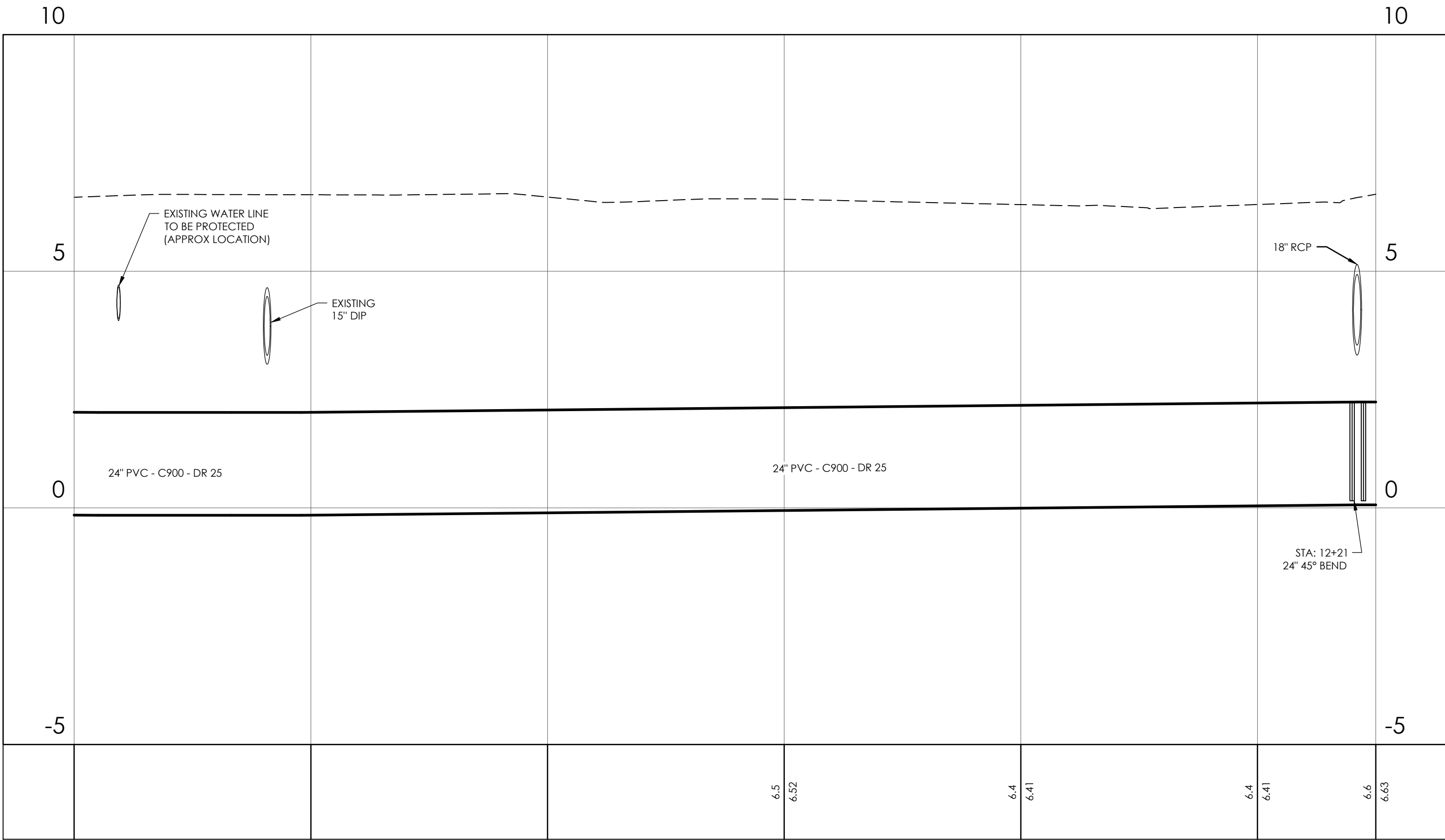
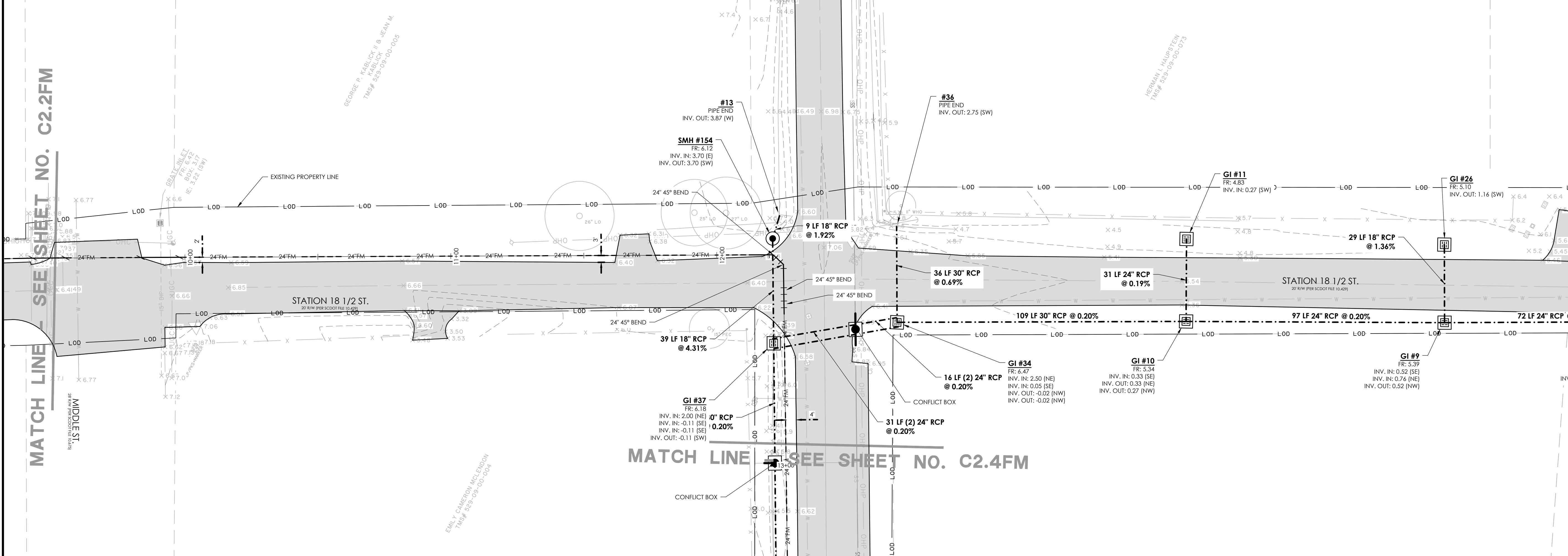
DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO: 27091.0001

DATE:
DRAWN:
DESIGNED:
REVIEWED:
APPROVED:
SCALE: SEE SCALE BAR

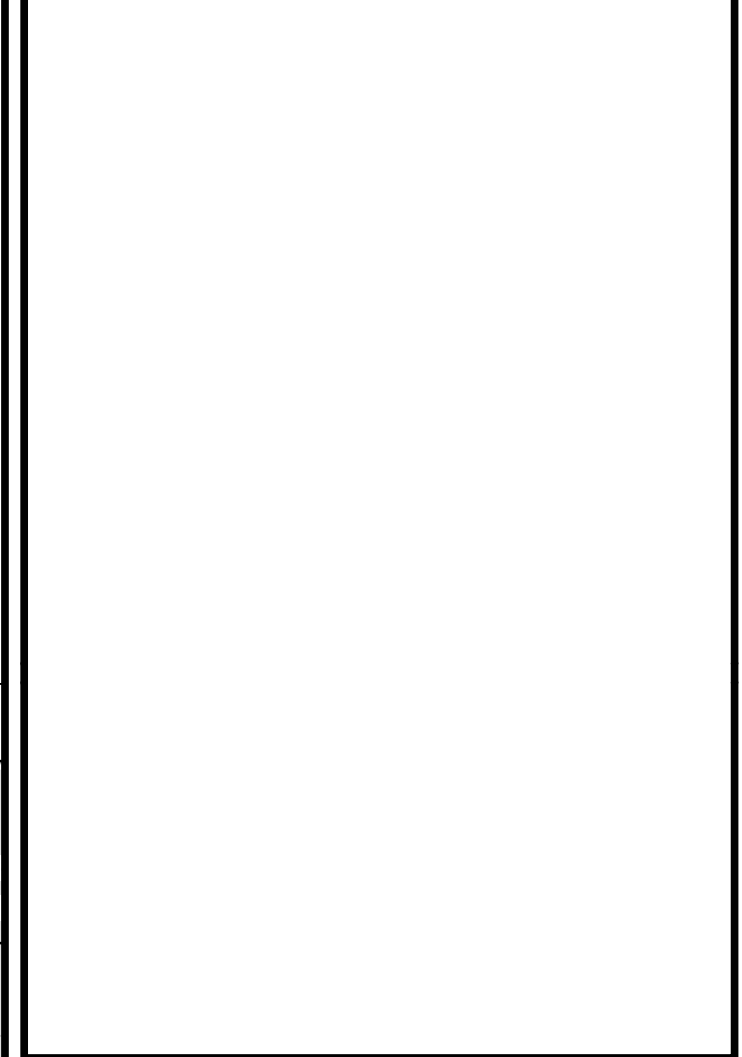
U1.3

27091.0001 - UNAPPROVED DRAINAGE CONSTRUCTION PLANS (27091.0001 - PLAN & PROFILE FORCING) - AUG 30, 2024, 11:27 AM

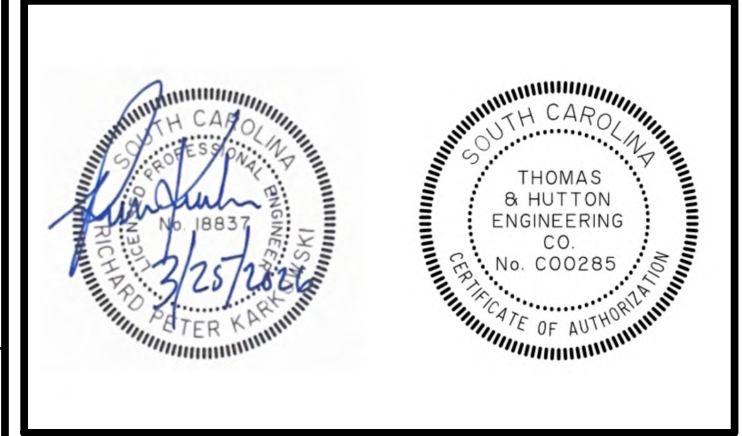


27091.0001 - Proposed FM
STATIONS: 9+50 - 12+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

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



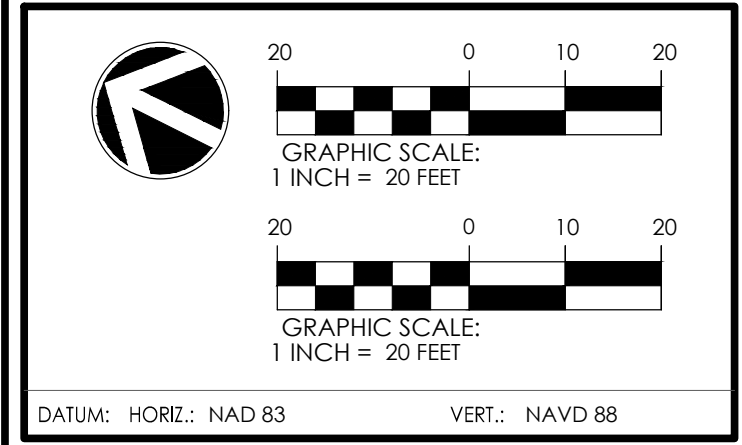
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

PLAN & PROFILE STORMWATER FORCEMAIN

MULTI-BASIN DRAINAGE IMPROVEMENT

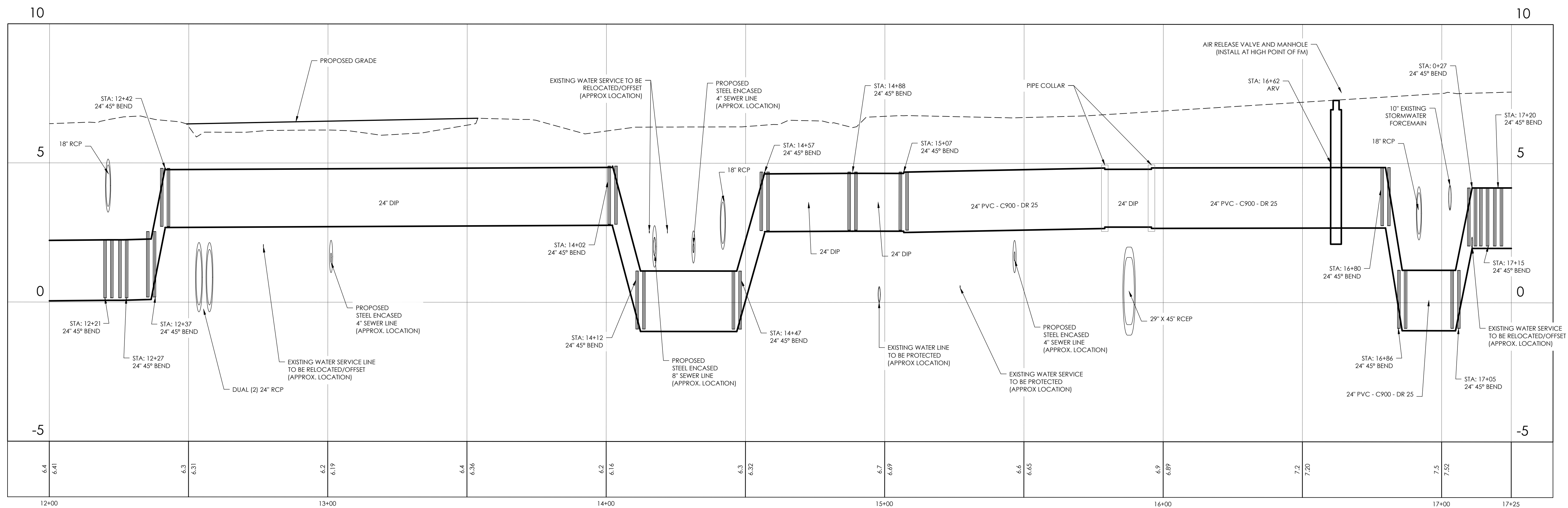
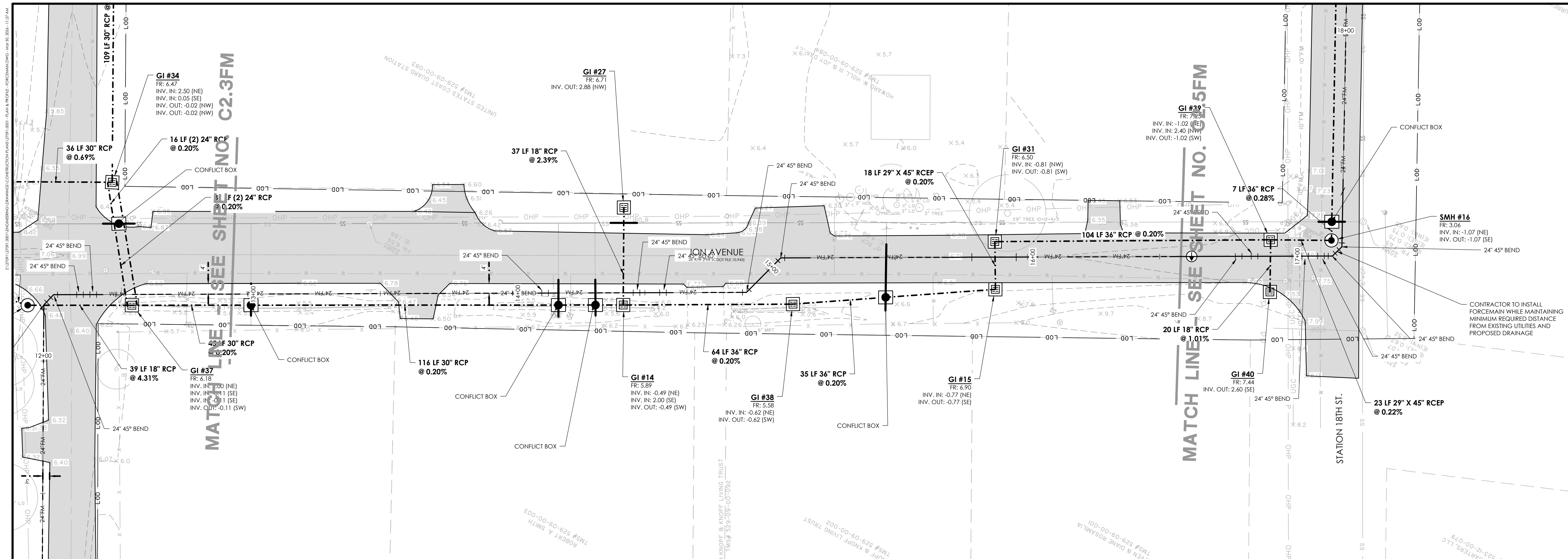
PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

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



JOB NO: 27091.0001
DATE: 8/29/2025
DRAWN: JWH
DESIGNED: JWH
REVIEWED: JWH
APPROVED: JWH
SCALE: SEE SCALE BAR

C2.3FM

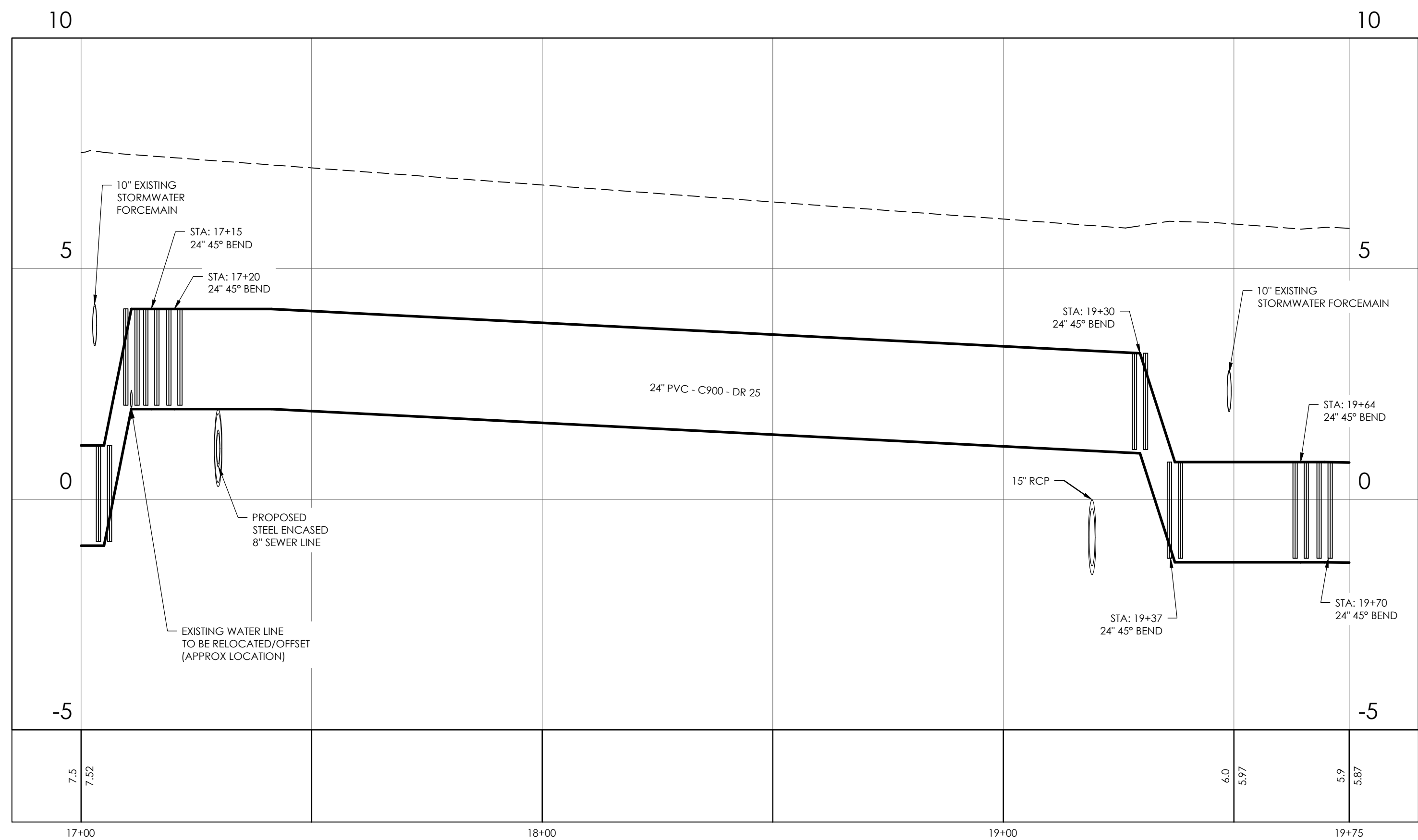
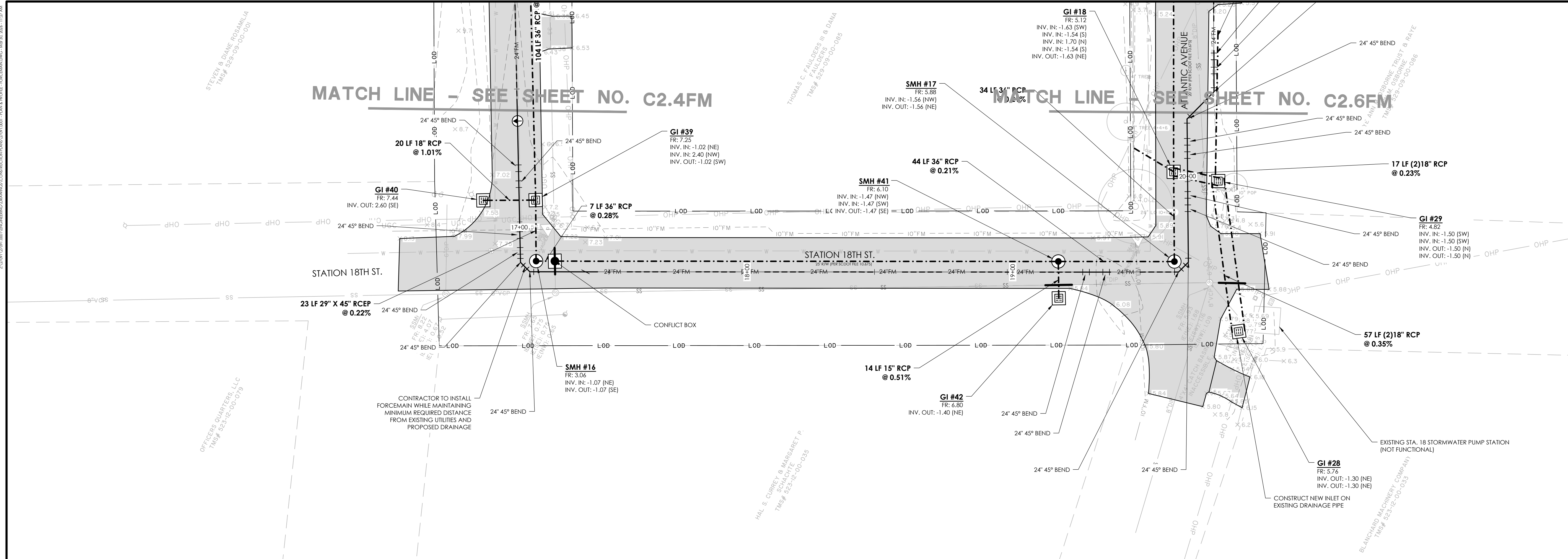


27091.0001 - Proposed FM
STATIONS: 12+00 - 17+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

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)

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

C2.4FM



27091.0001 - Proposed FM
STATIONS: 17+00 - 19+75
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)

[illegible]

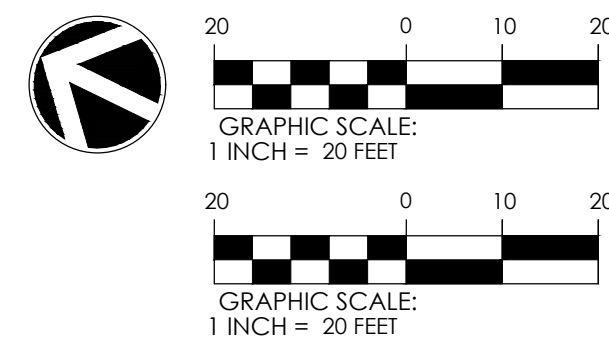
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

PLAN & PROFILE STORMWATER FORCEMAIN

MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

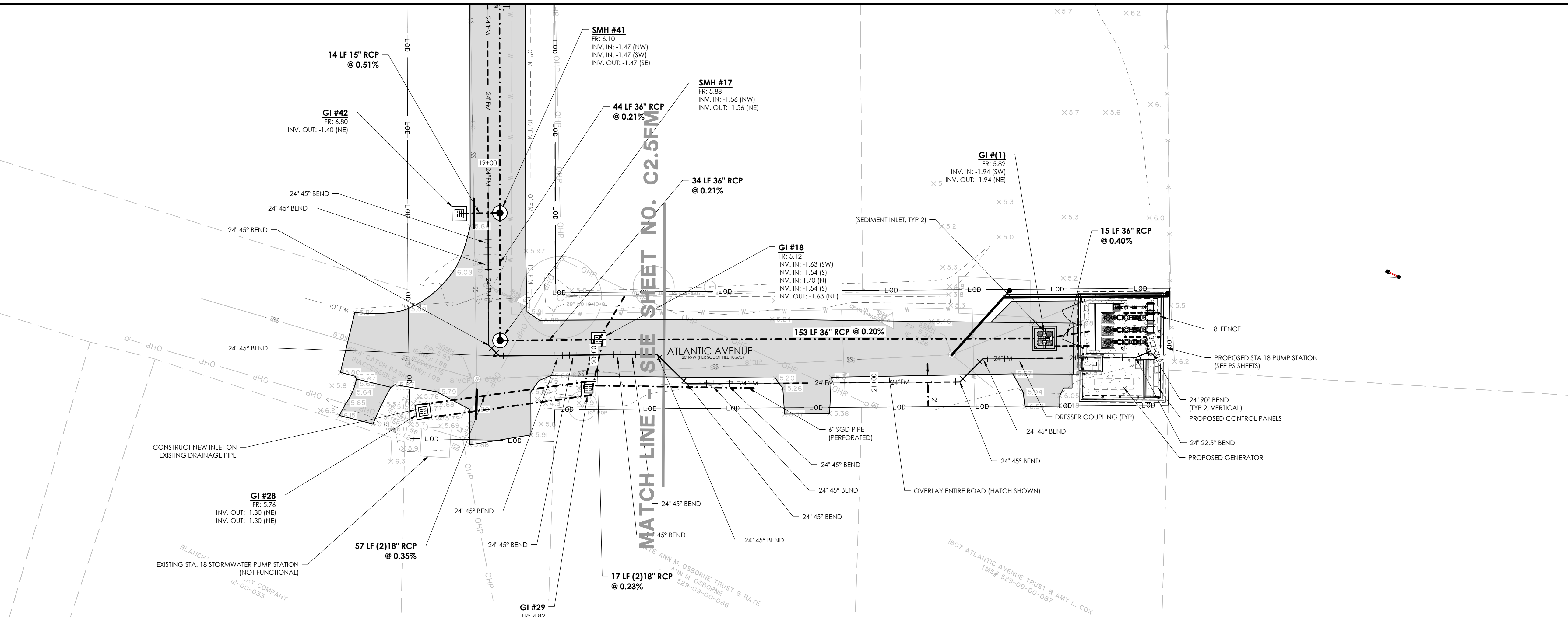
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482



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

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

C2.5FM



27091.0001 - Proposed FM

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

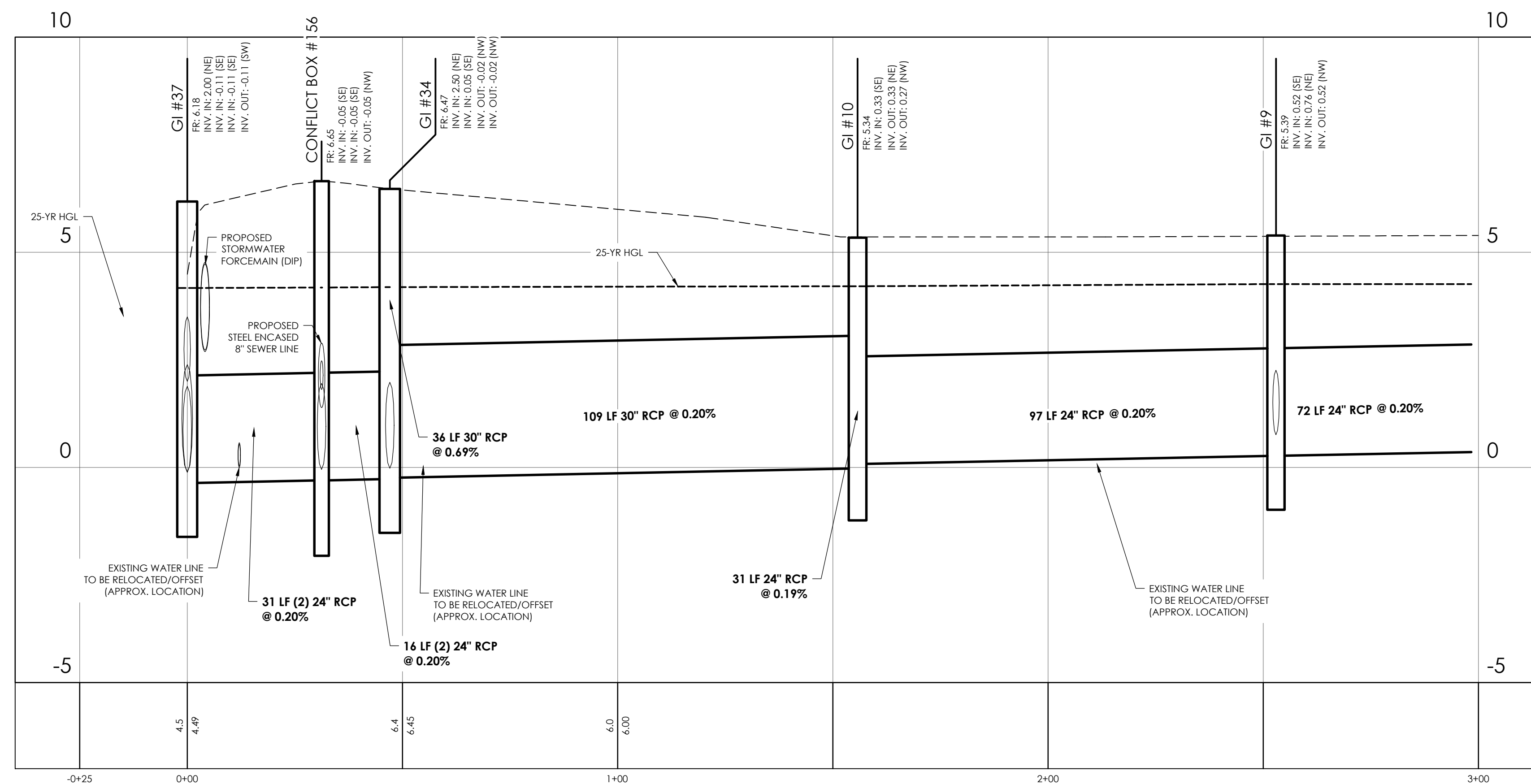
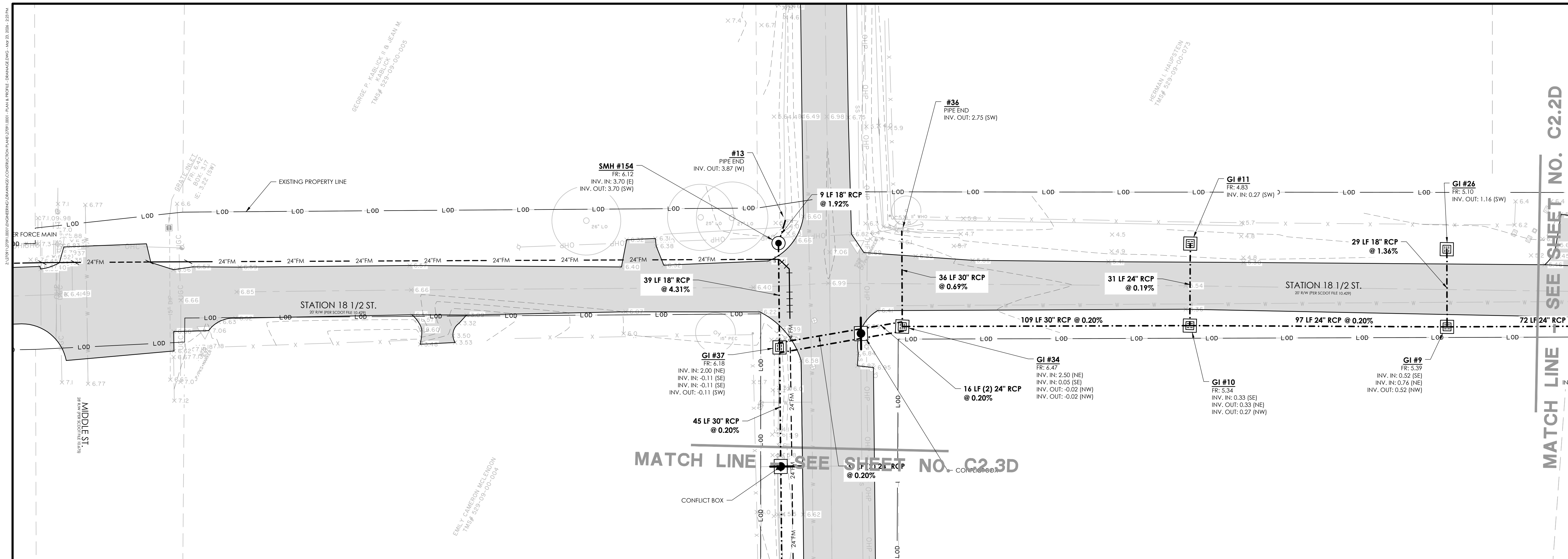
MULTI-BASIN DRAINAGE
IMPROVEMENT

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

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

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

C2.6FM



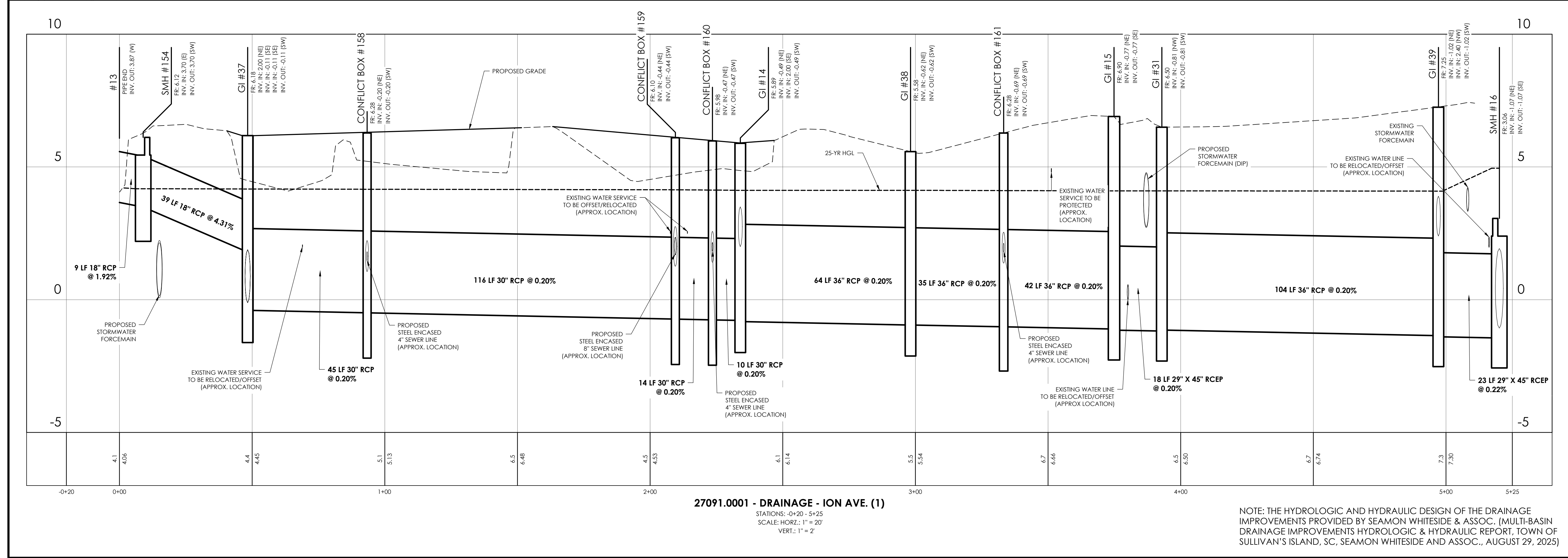
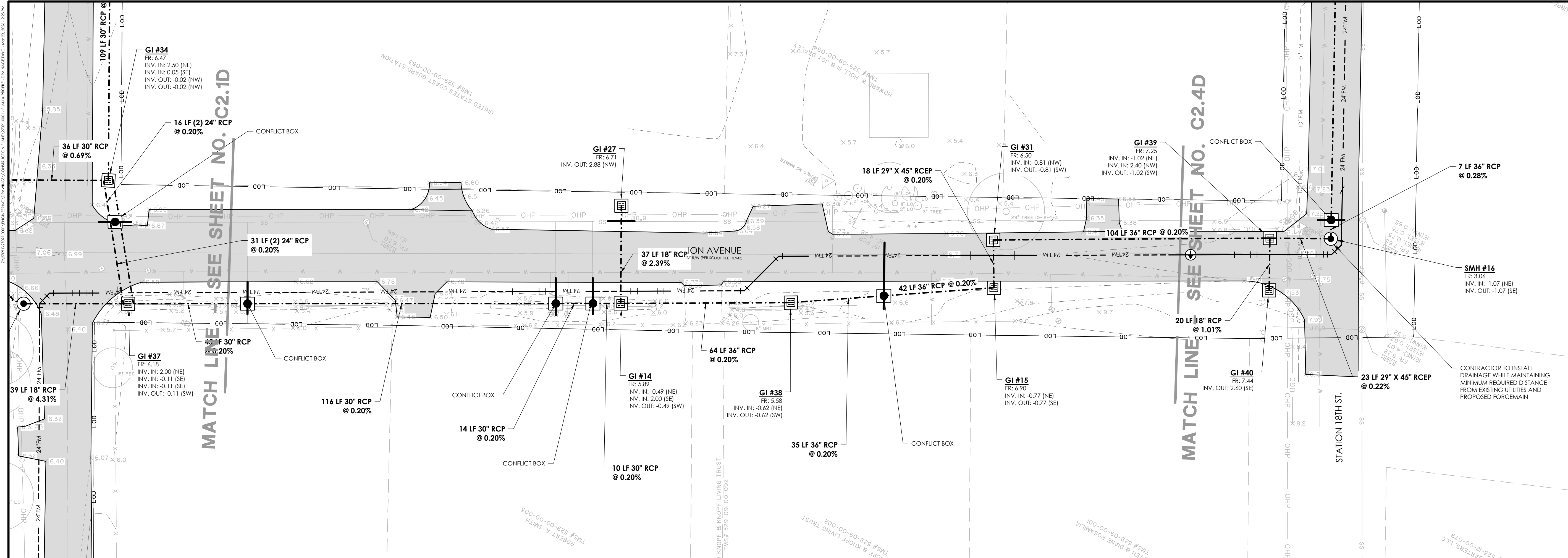
27091.0001 - DRAINAGE - STATION 18.5 AVE. (1)

STATIONS: -0+25 - 3+0
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)

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

C2.1D



NO.	REVISIONS	BY	DATE

THOMAS & HUTTON

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

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

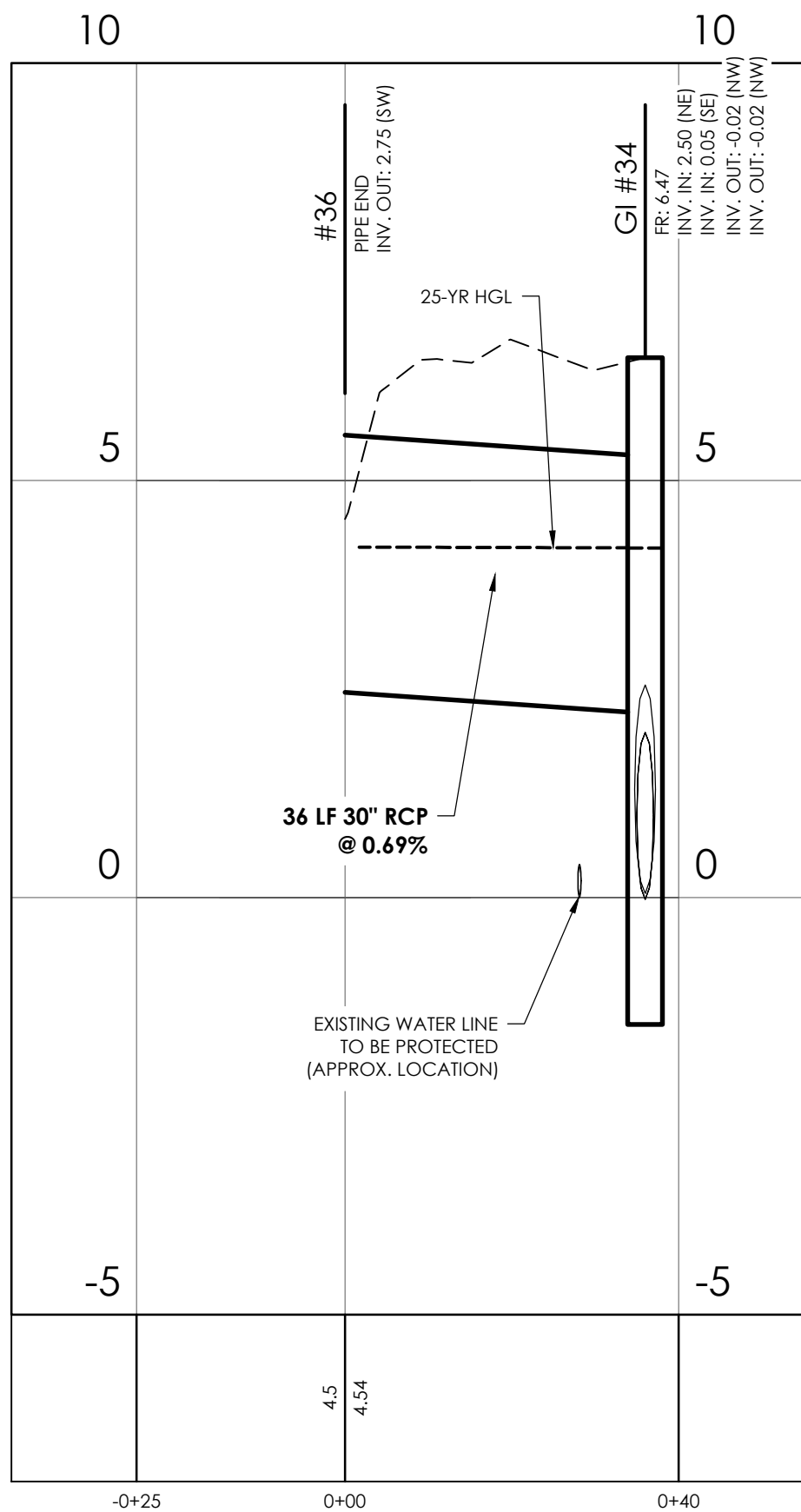
DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

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

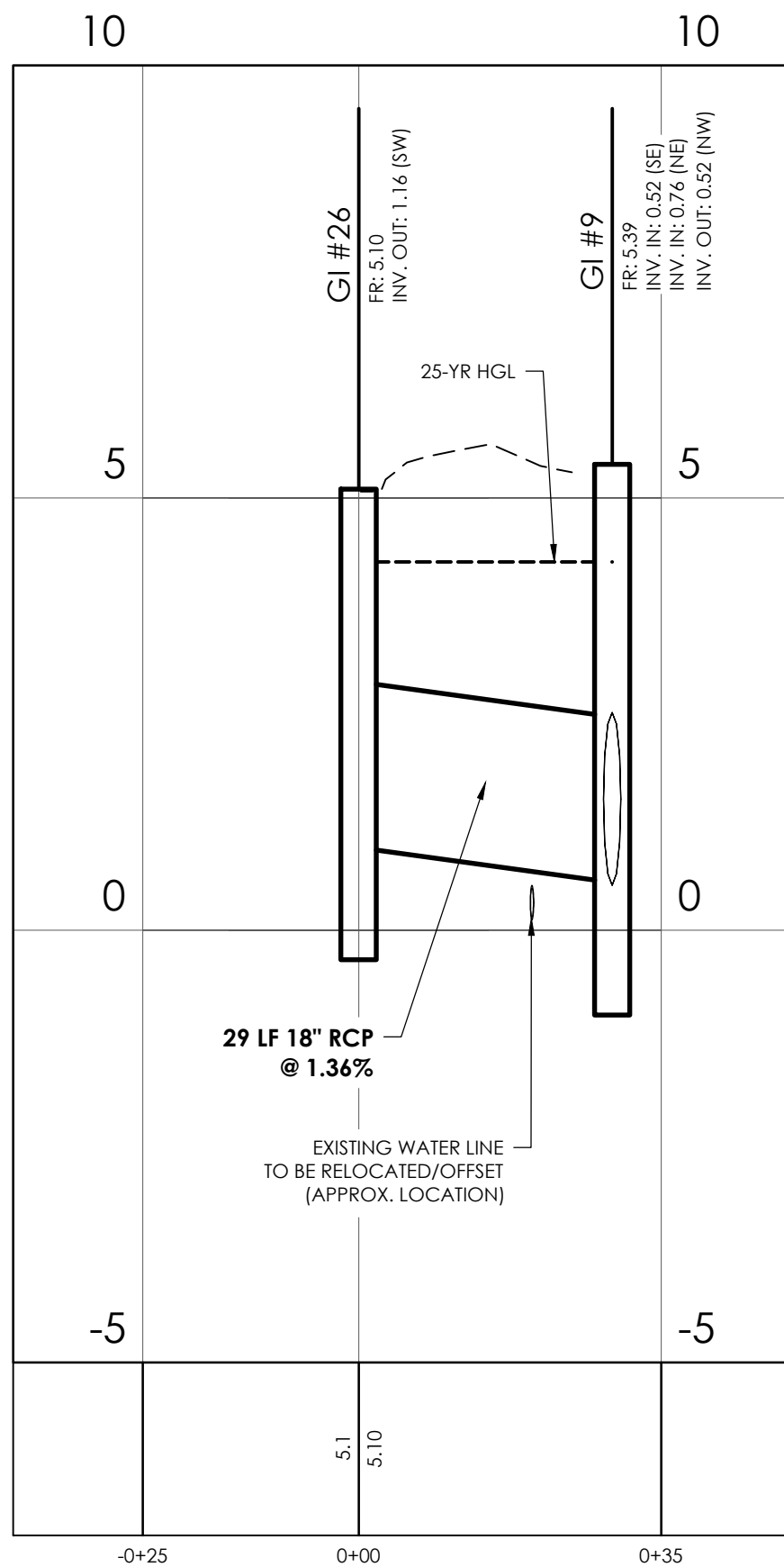
C2.3D

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)

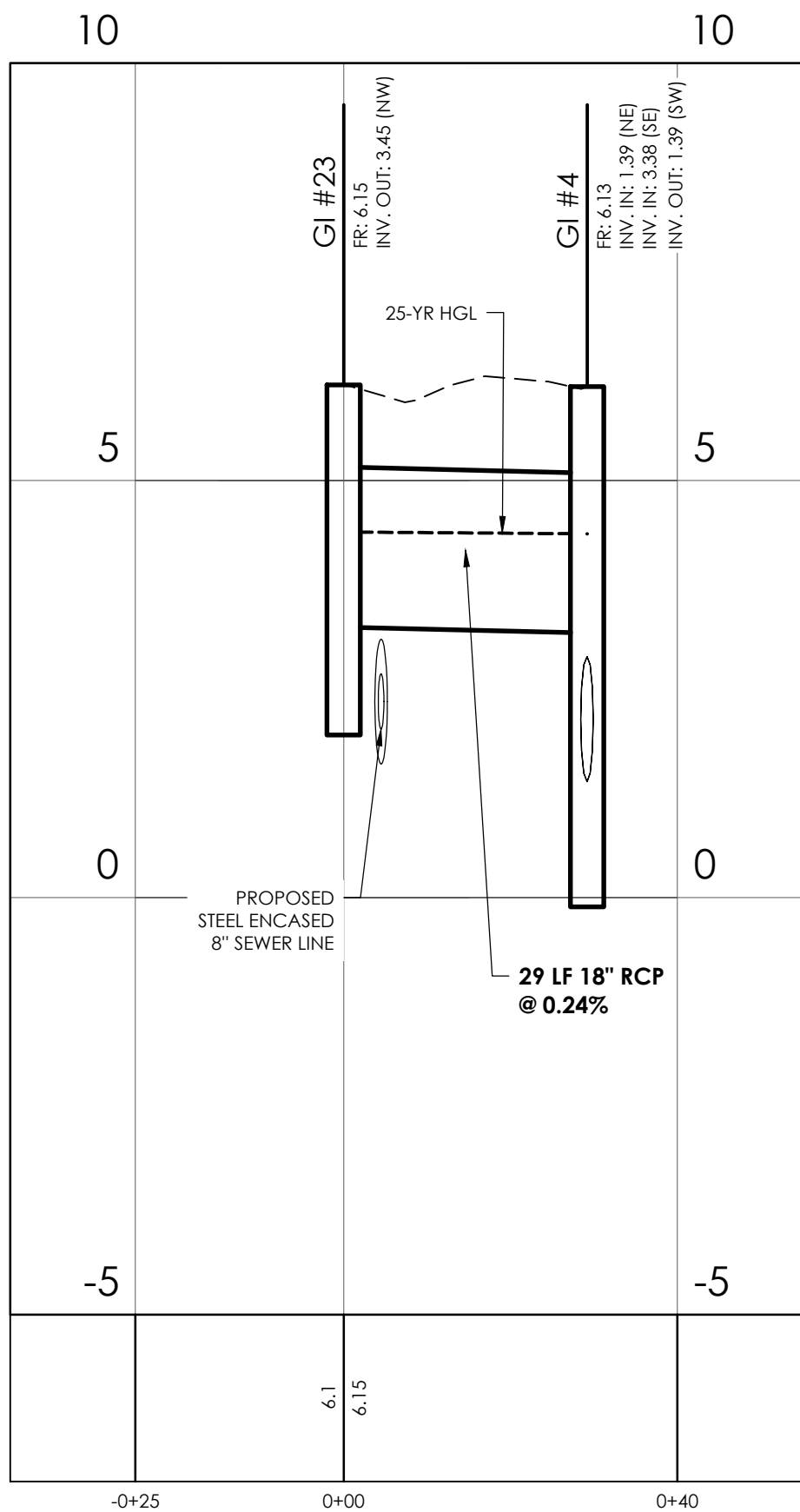
2:2791 (2/29/2025) UNIMBERING DRAWING, CONSTRUCTION PAR. 2791 (2025) PLAN & PROFILE, DRAINAGE DWS, MAP 23, 2024, 231 PM



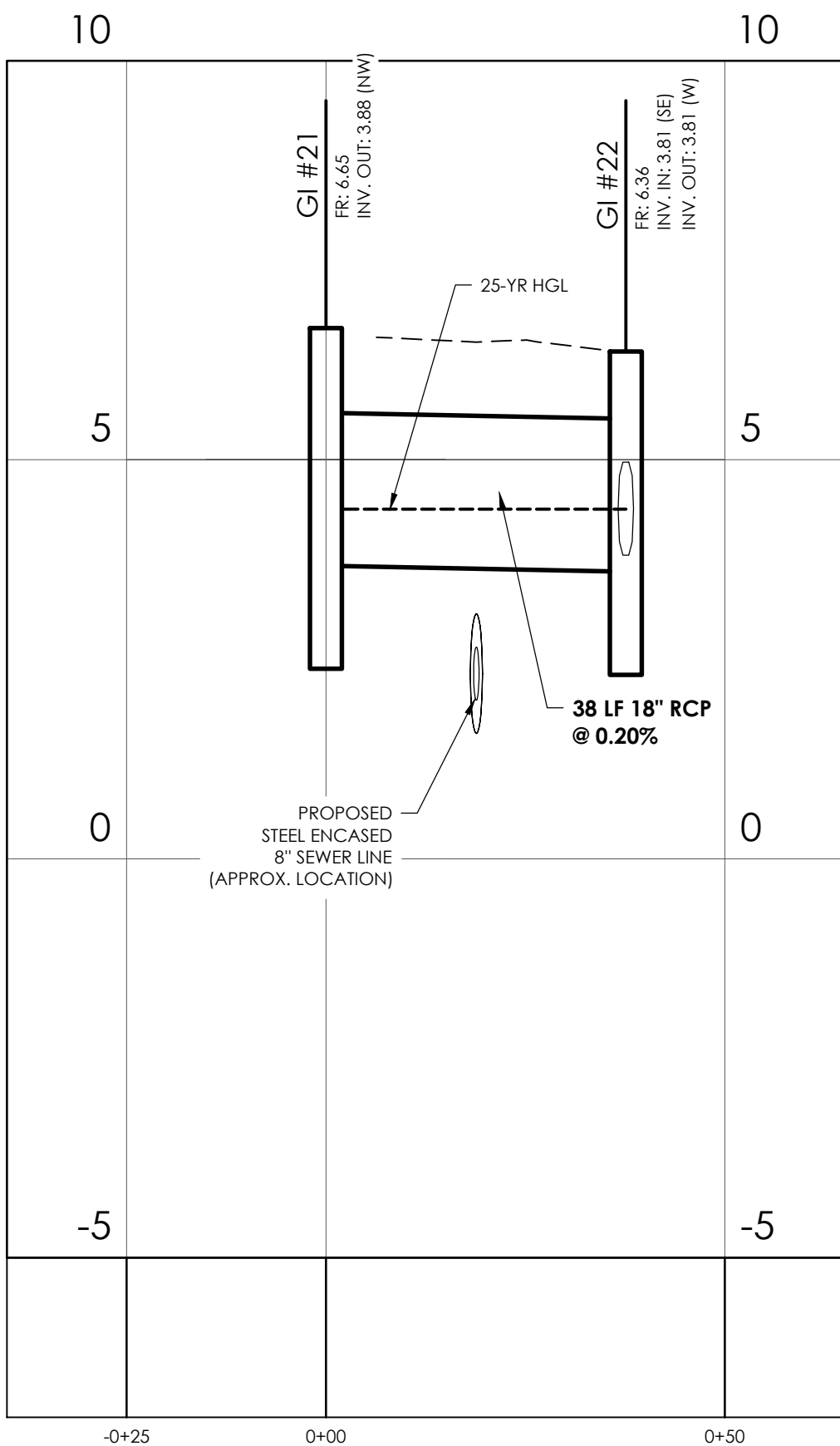
27091.0001 - DRAINAGE - STATION 18.5 AVE. (2)
STATIONS: -0+25 - 0+40
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 2'



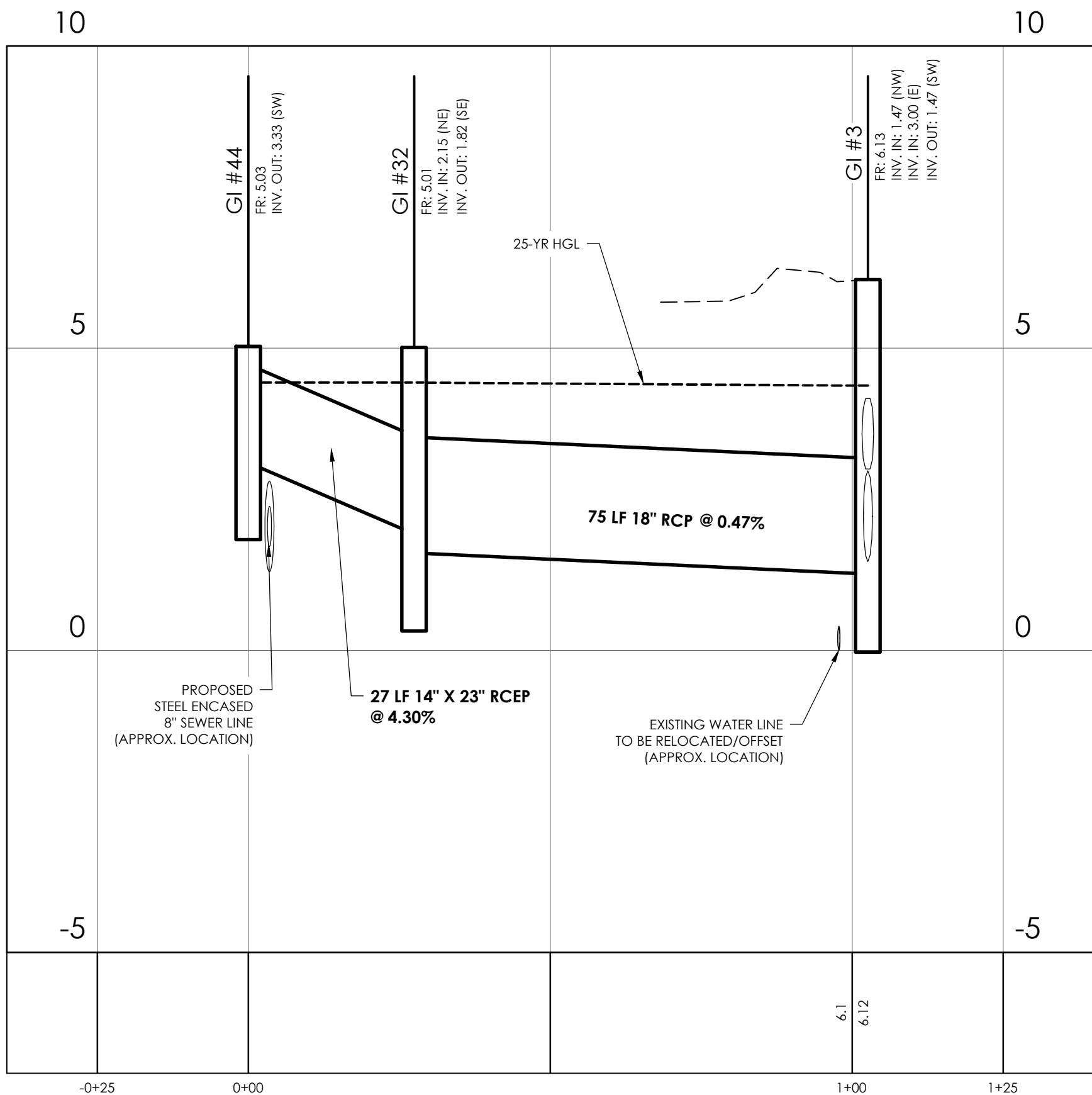
27091.0001 - DRAINAGE - STATION 18.5 AVE. (3)
STATIONS: -0+25 - 0+35
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 2'



27091.0001 - DRAINAGE - FLAG ST. (2)
STATIONS: -0+25 - 0+40
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 2'



27091.0001 - DRAINAGE - STATION 19 ST. (1)
STATIONS: -0+25 - 0+50
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 2'



27091.0001 - DRAINAGE - STATION 19 ST. (2)
STATIONS: -0+25 - 1+25
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



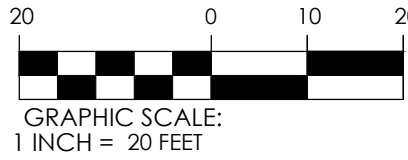
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

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

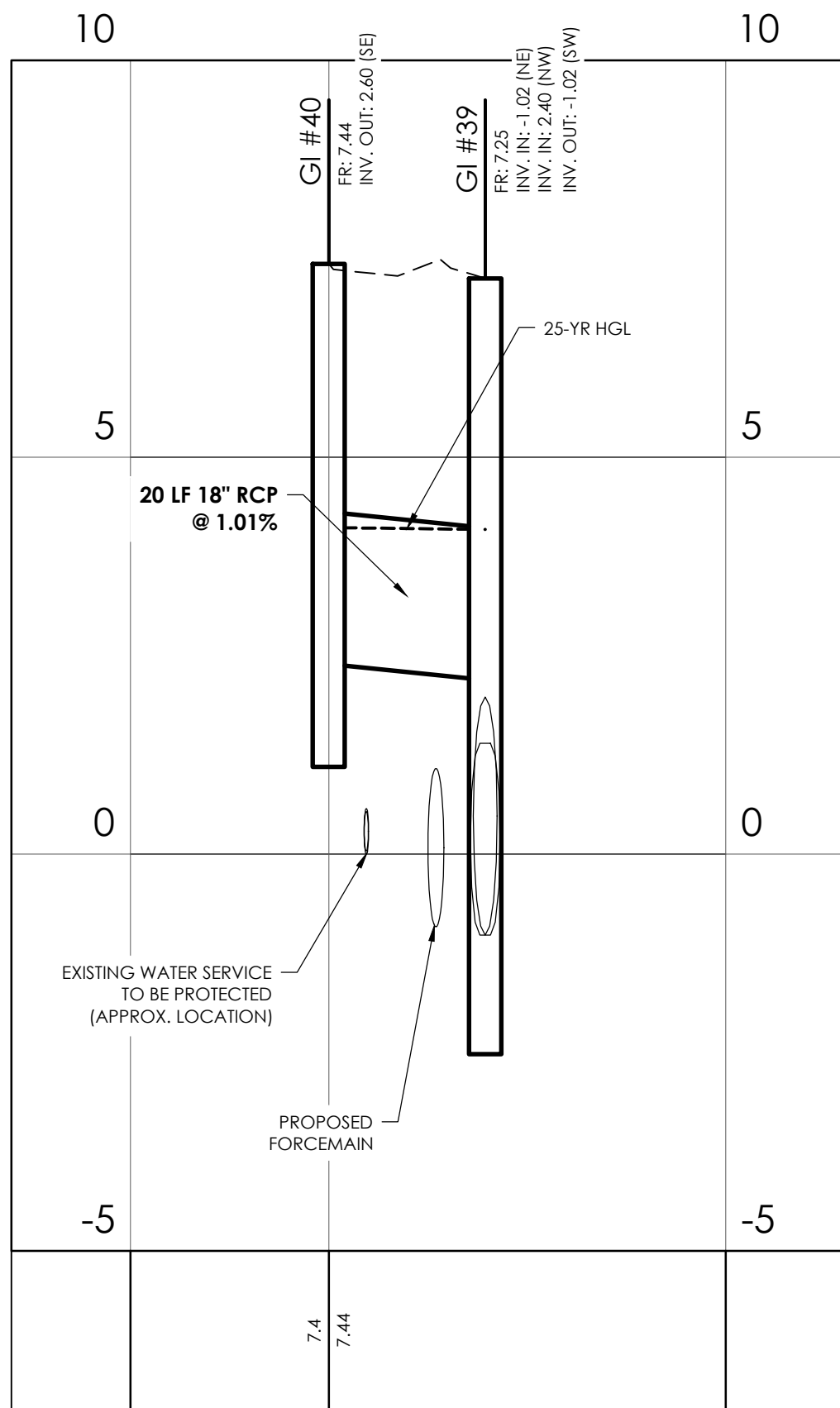


DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

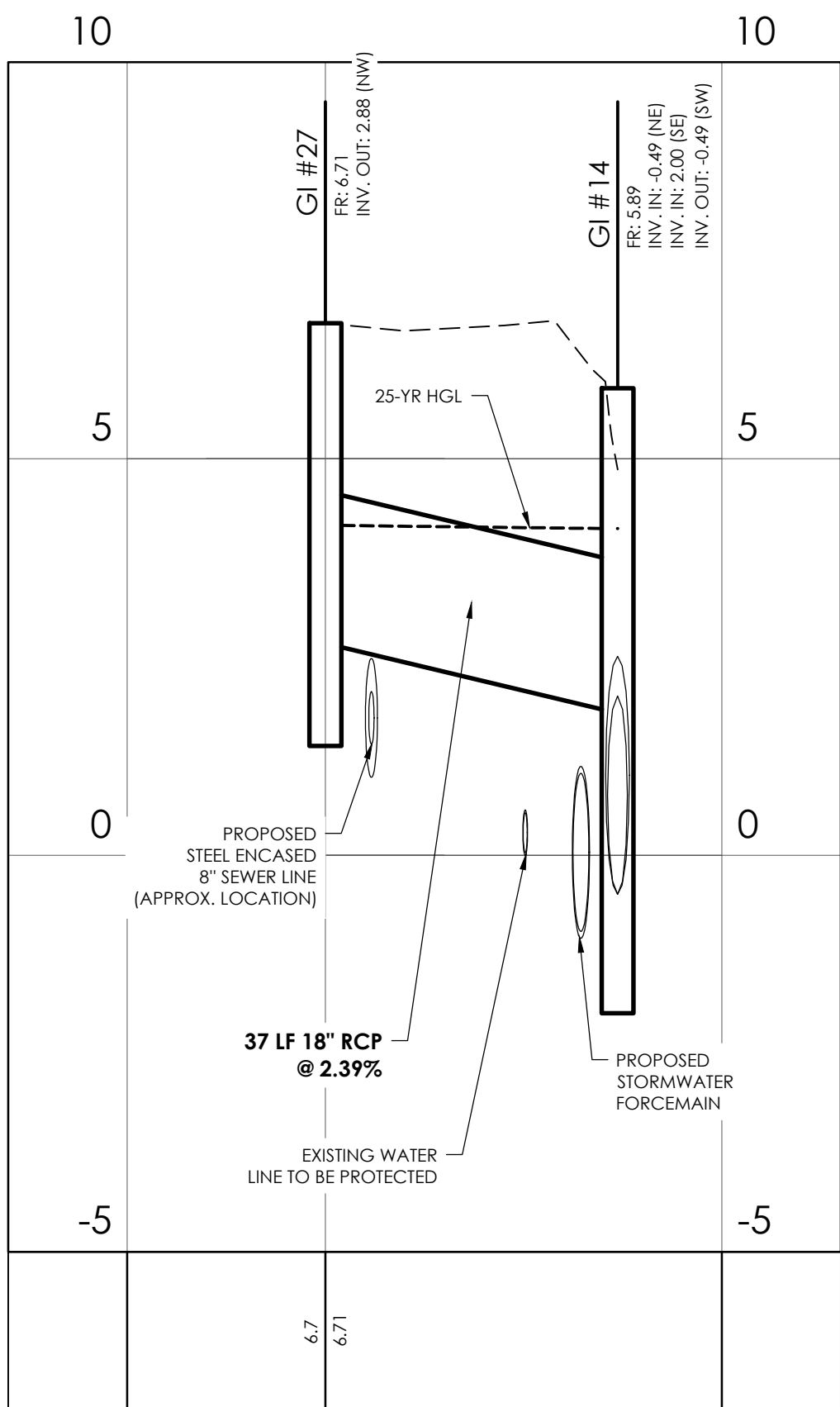
JOB NO: 27091.0001
DATE: _____
DRAWN: _____
DESIGNED: _____
REVIEWED: _____
APPROVED: _____
SCALE: 1" = 20'

C2.6D



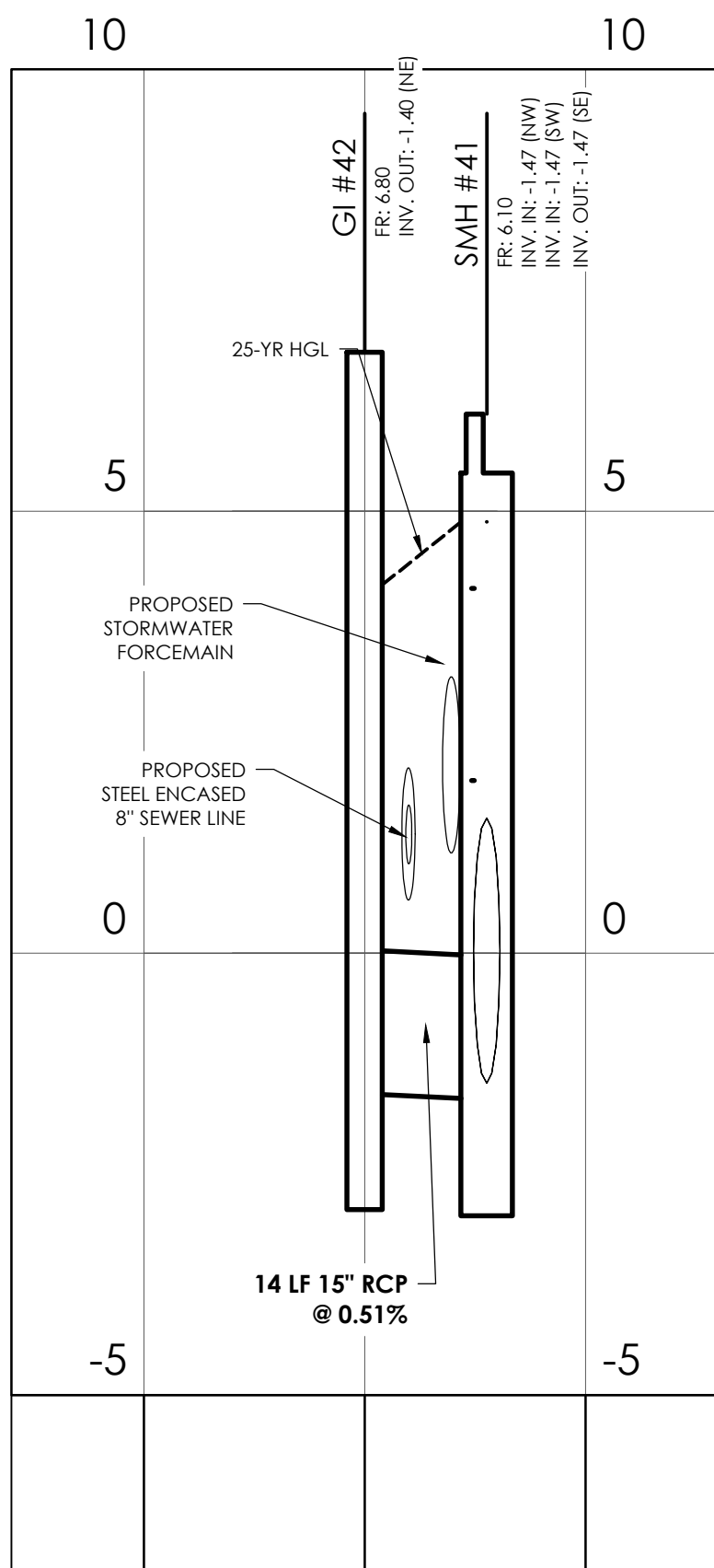
27091.0001 - DRAINAGE - ION AVE. (2)

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



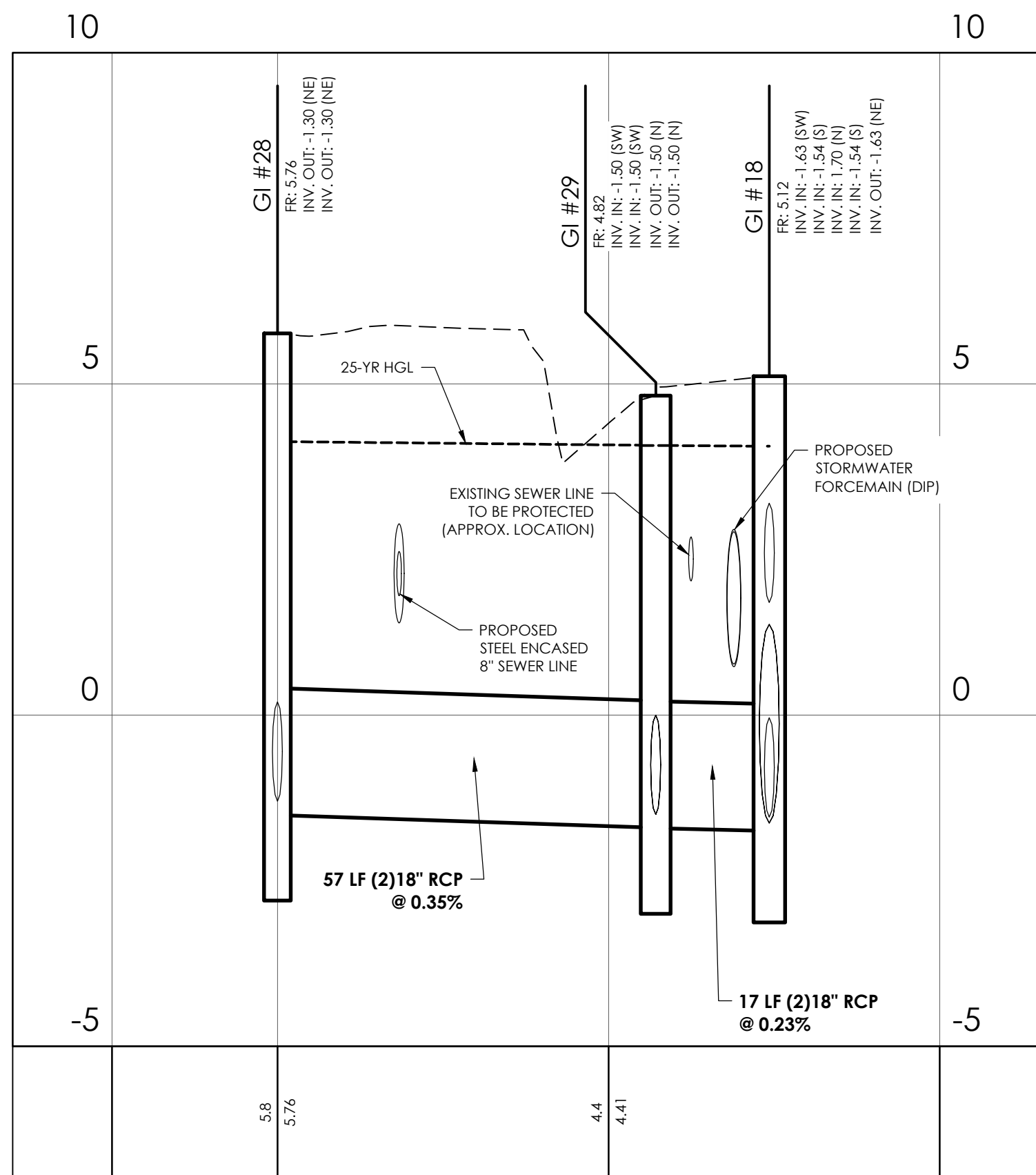
27091.0001 - DRAINAGE - ION AVE. (3)

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



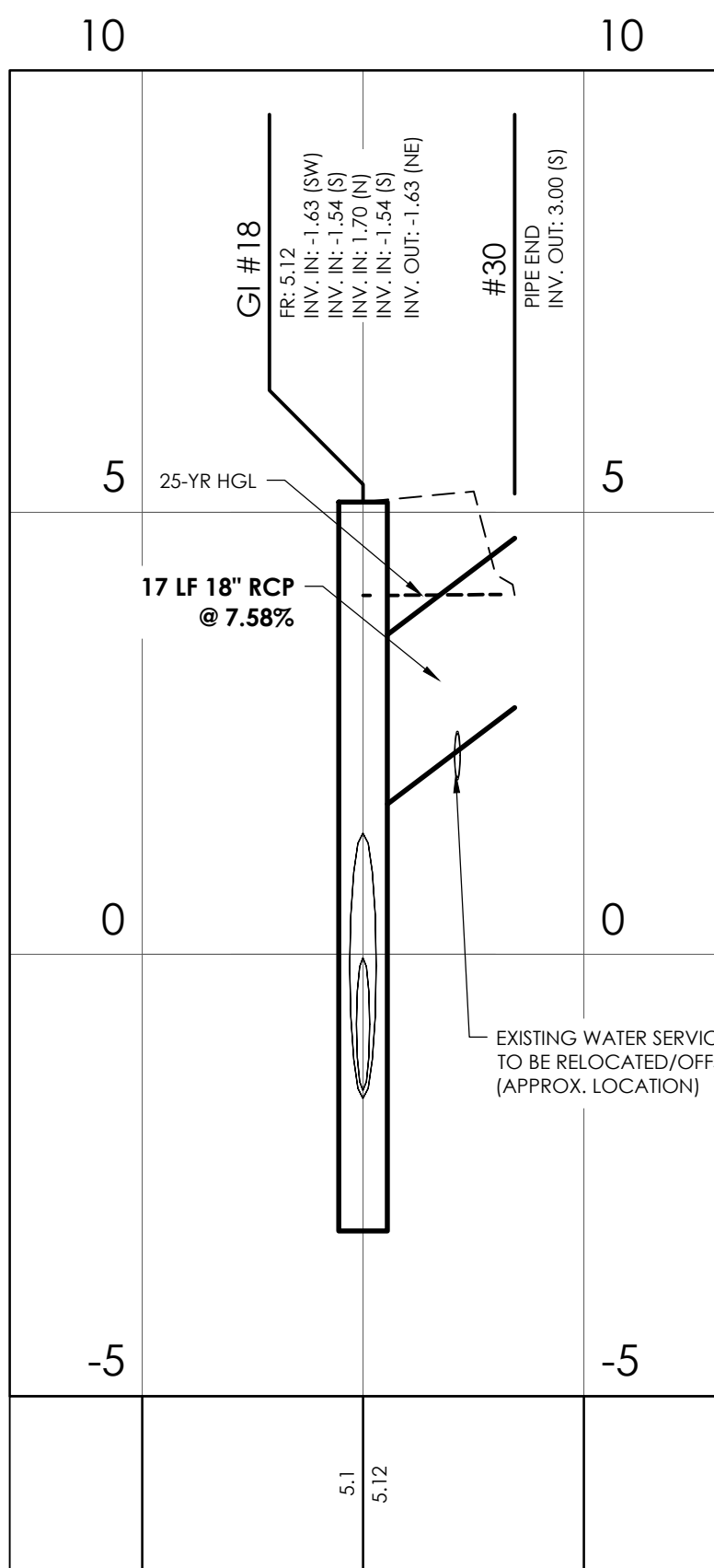
27091.0001 - DRAINAGE - STATION 18 ST. (2)

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



27091.0001 - DRAINAGE - ATLANTIC AVE. (2)

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

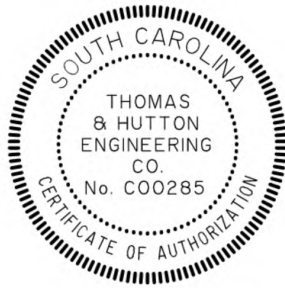


27091.0001 - DRAINAGE - ATLANTIC AVE. (3)

STATIONS: -0+25 - 0+25
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



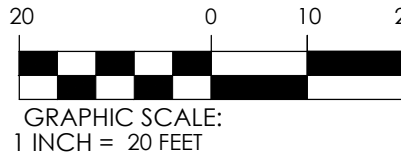
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

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

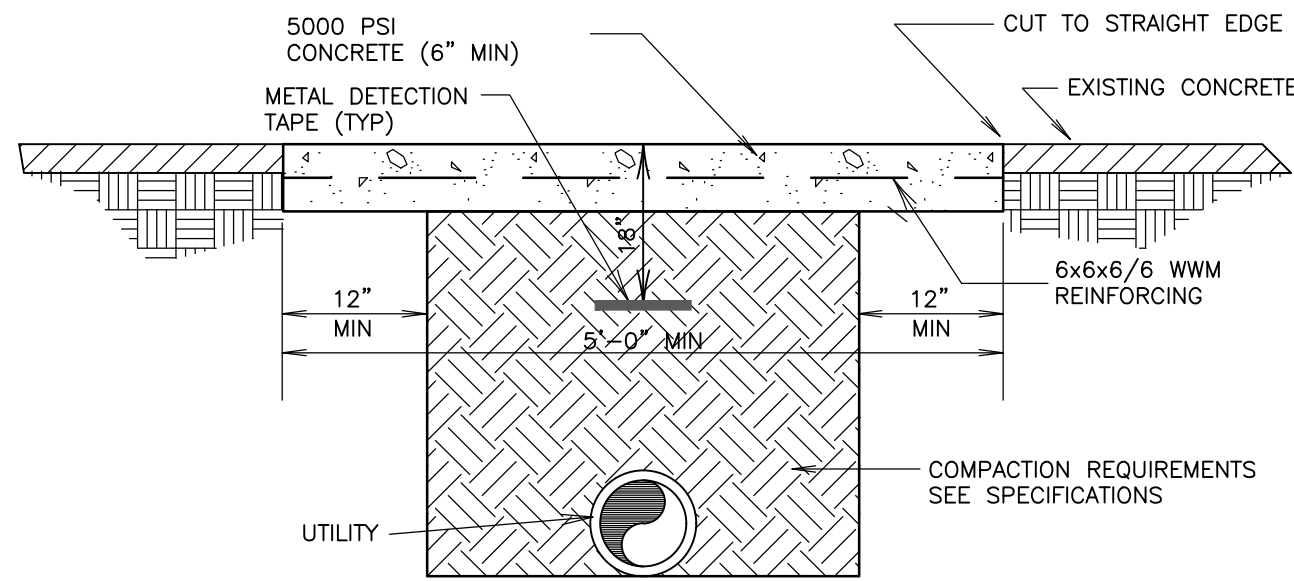
DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

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

C2.7D

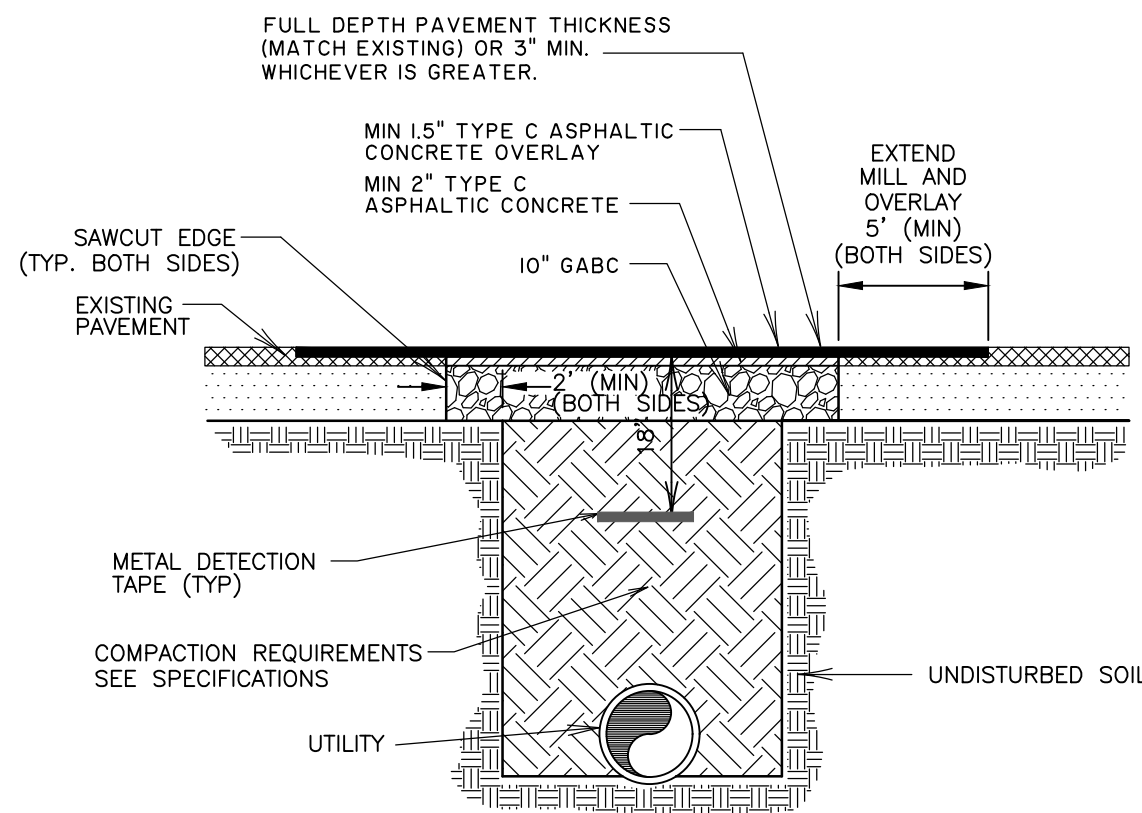
J:\37091\27091\000\IMPROVING DRAINAGE CONSTRUCTION AND UTILITY (B0) - DETAILS.DWG - 1405.23.2024 - 2:41 PM



- NOTE:
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.

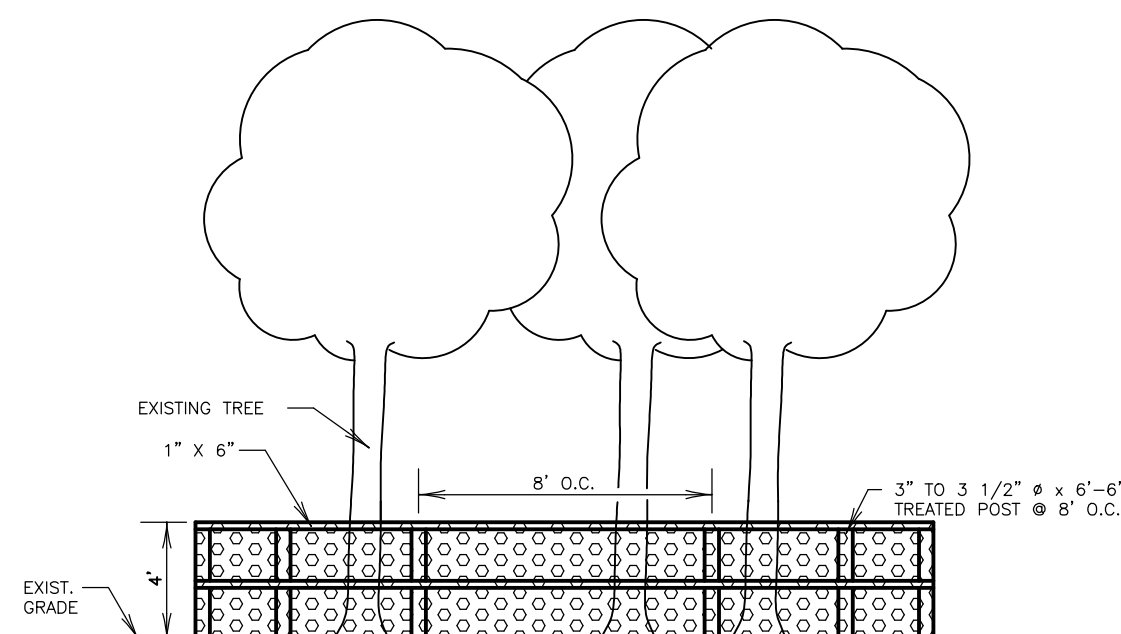
1 REMOVE AND REPLACE PAVEMENT (CONCRETE)

C3.1 NOT TO SCALE



2 PAVEMENT REPAIR (SCDOT ROADWAYS)

C3.1 NOT TO SCALE

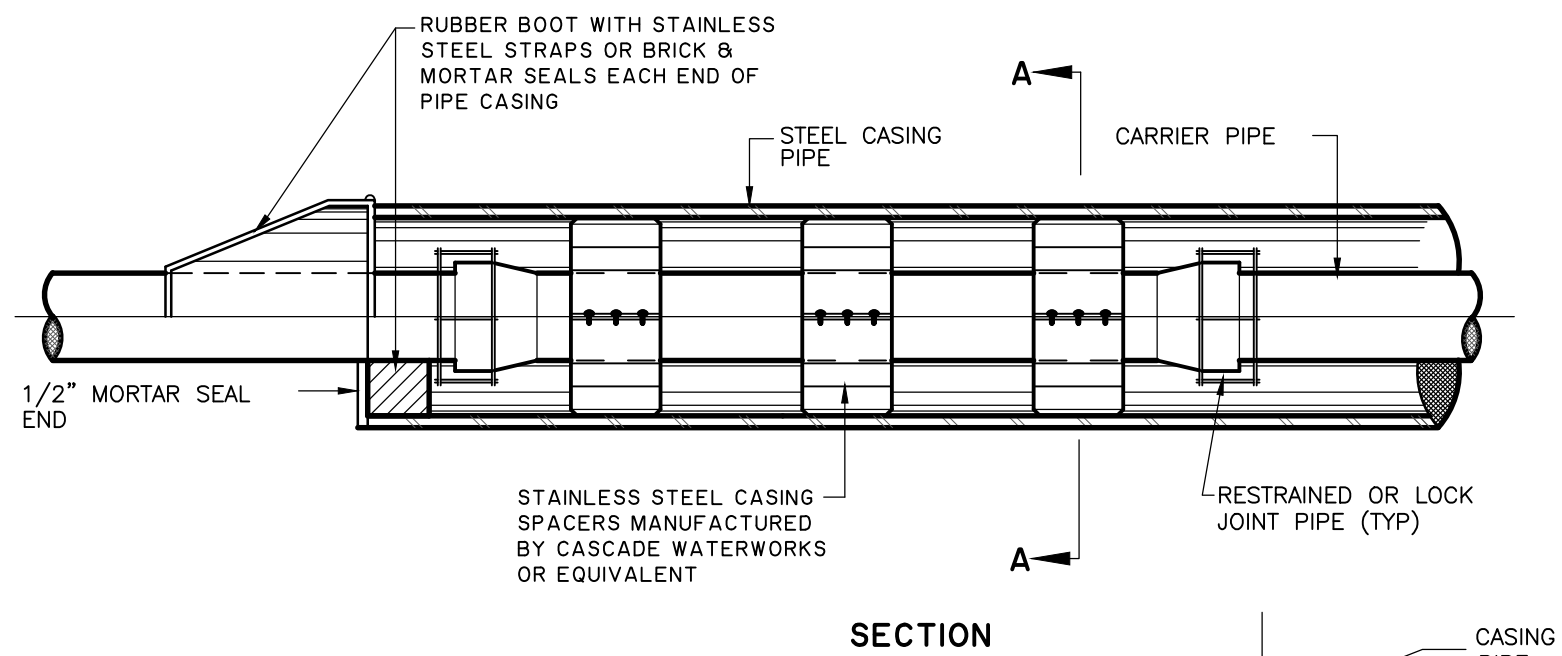


- NOTES:
1. CONTRACTOR TO PROTECT AND SAVE TREE. INSTALL 4\"/>
 2. ATTACH RAILS TO POST WITH GALVANIZED NAILS..

3 TREE PROTECTION DETAIL

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 CASING PIPE DETAIL

C3.1 NOT TO SCALE

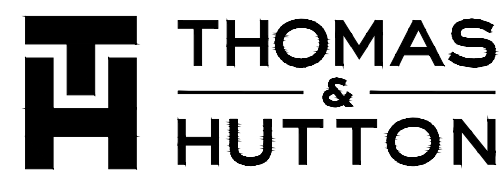
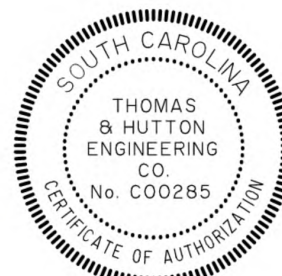
NOTES:

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. IF THERE IS ANY DIGGING, EXCAVATING, TRENCHING, BORING, ETC. WITHIN 1 MILE OF A SIGNALIZED INTERSECTION, THE PERMITTEE IS RESPONSIBLE FOR CONTACTING THE SCDOT TRAFFIC SIGNAL SHOP AT 843-740-1668 BEFORE WORK BEGINS.
6. 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.
7. FINAL MILL AND OVERLAY SHALL BE 5' ON EACH SIDE OF ROAD CUT AND EXTEND THE FULL LANE WIDTH. IF CUT ENCROACHES 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.
8. FIRE HYDRANTS SHALL BE PLACED A MINIMUM OF 10' FROM THE EDGE OF THE PAVEMENT AND/OR BEHIND DITCH LINES.
9. 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



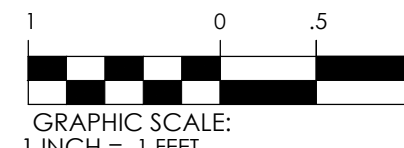
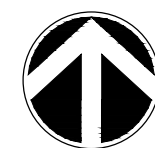
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

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



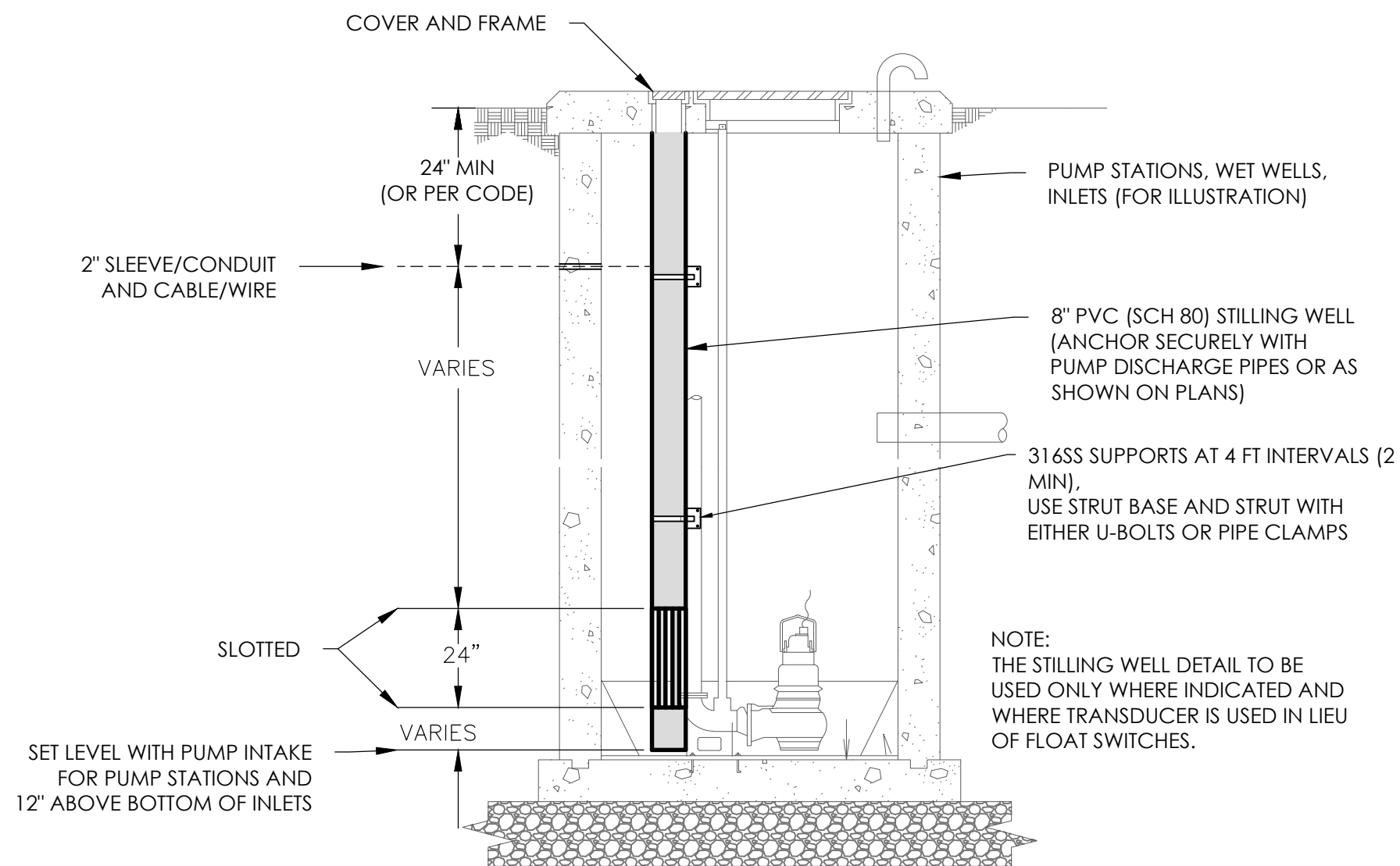
DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

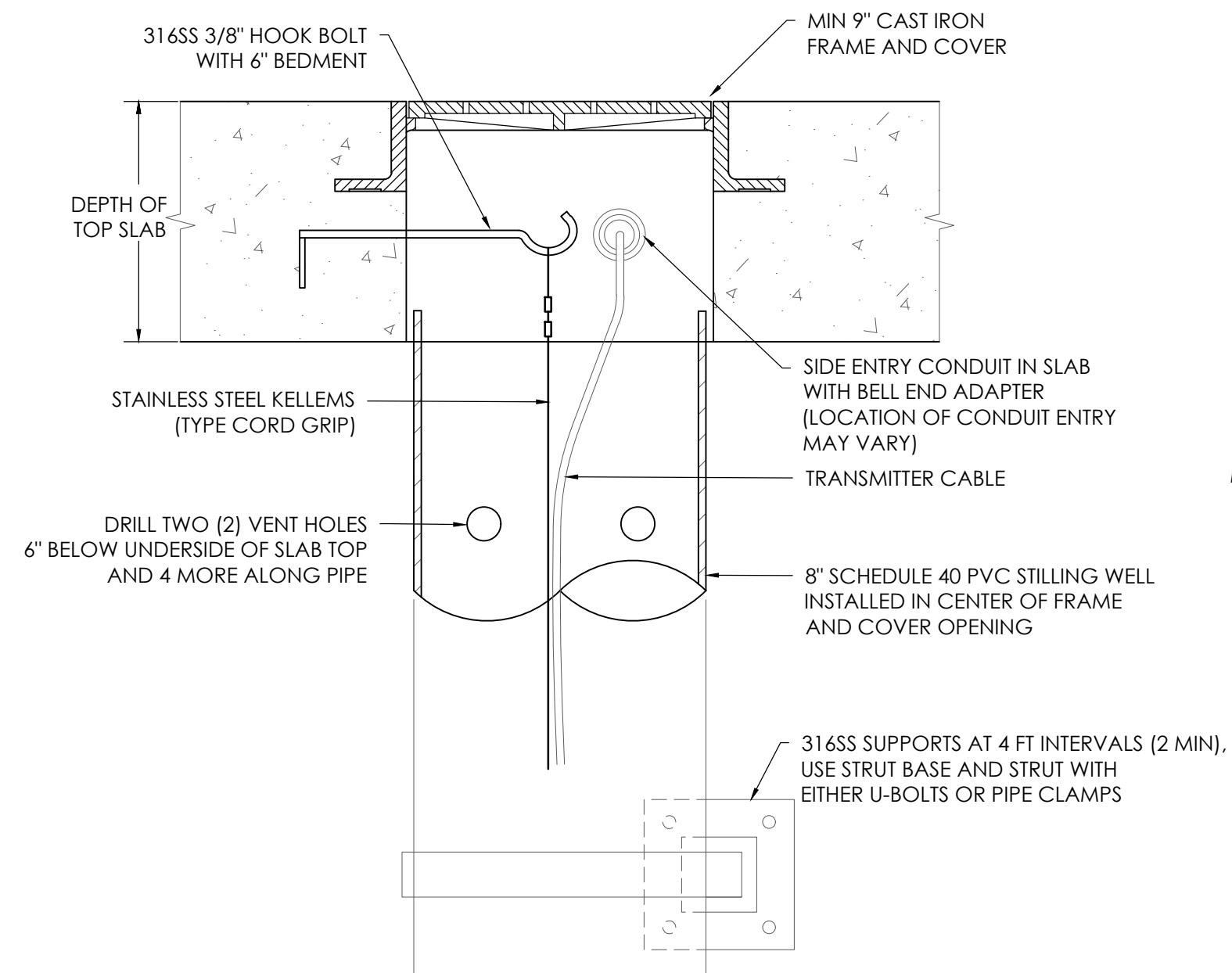
JOB NO: 27091.0001
DATE:
DRAWN:
DESIGNED:
REVIEWED:
APPROVED:
SCALE: 1" = 1'

C3.1

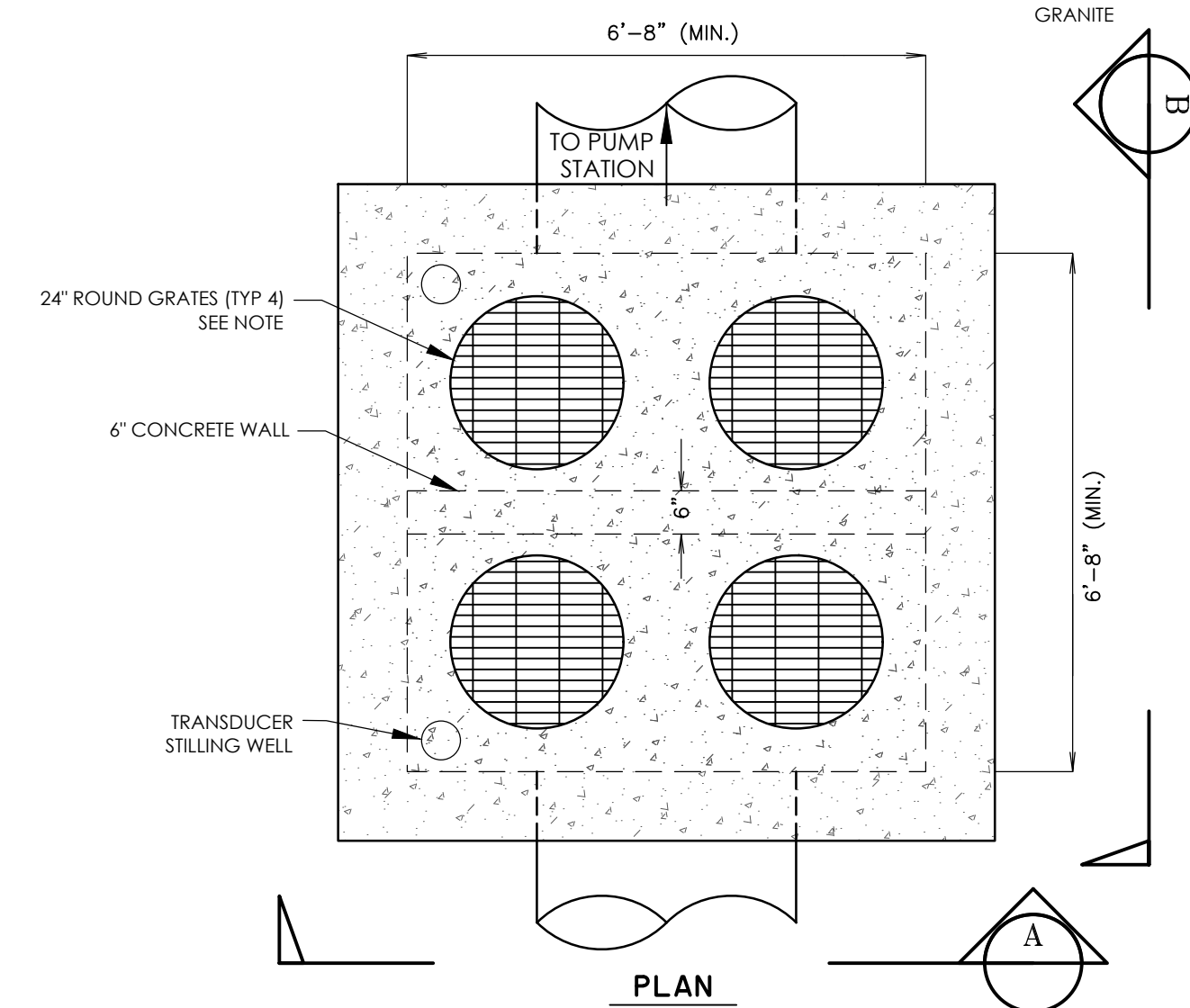
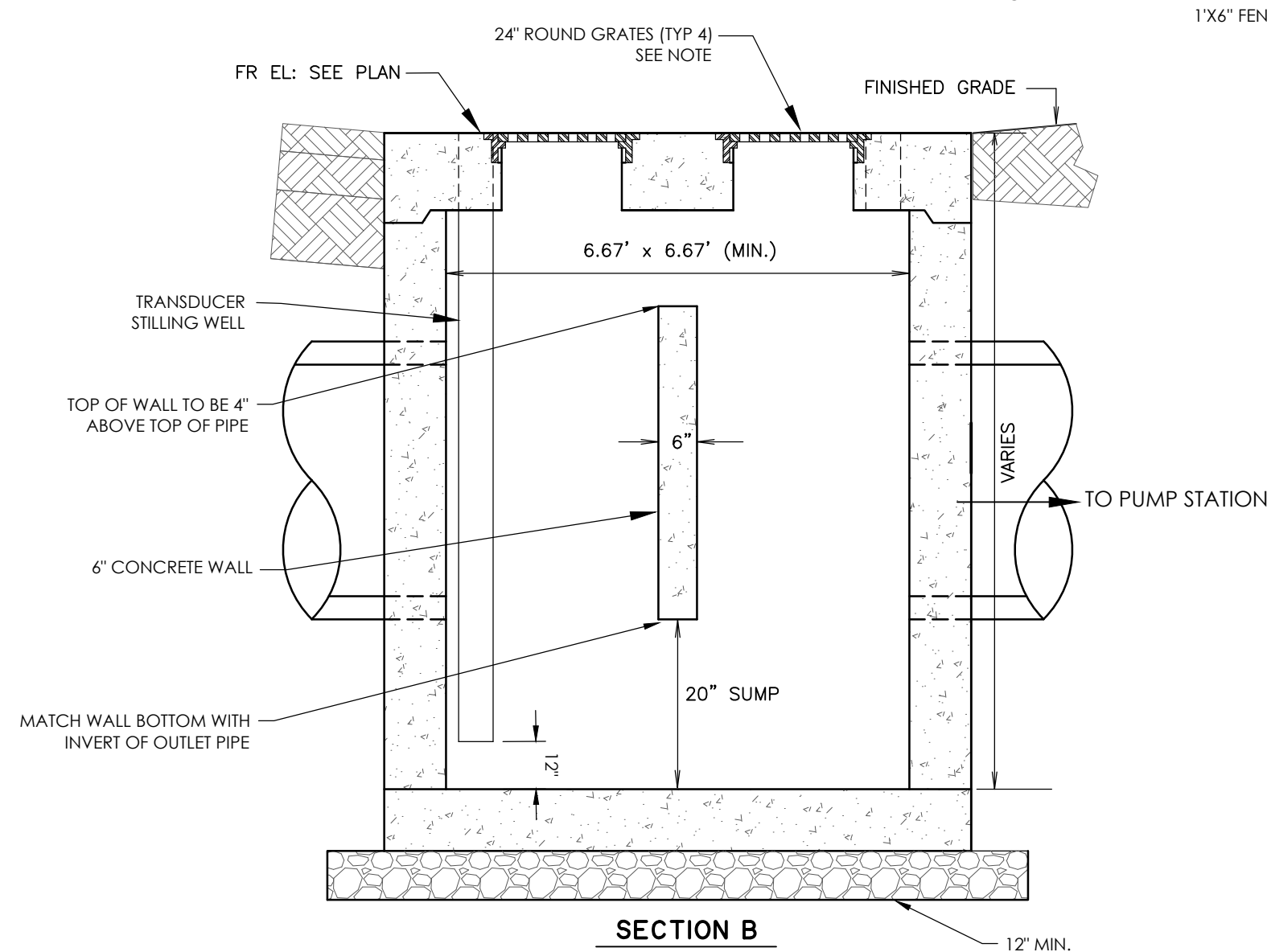
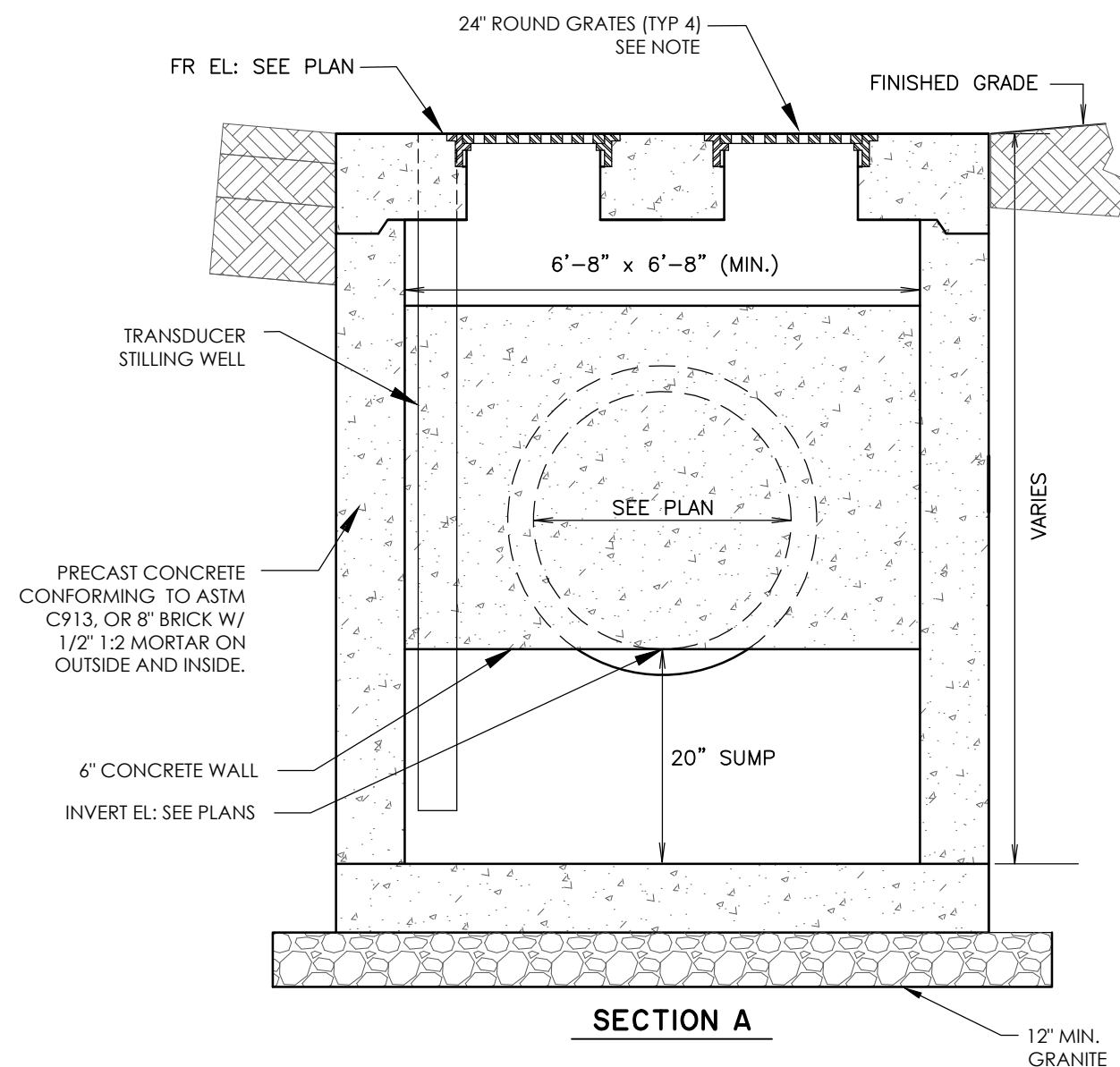
2:30PM, 07/20/2020 10:00AM (DRAWING) CONSTRUCTION AND 07/20/2020 10:00AM (DETAILS) 10:00AM, 07/20/2020 10:00AM



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

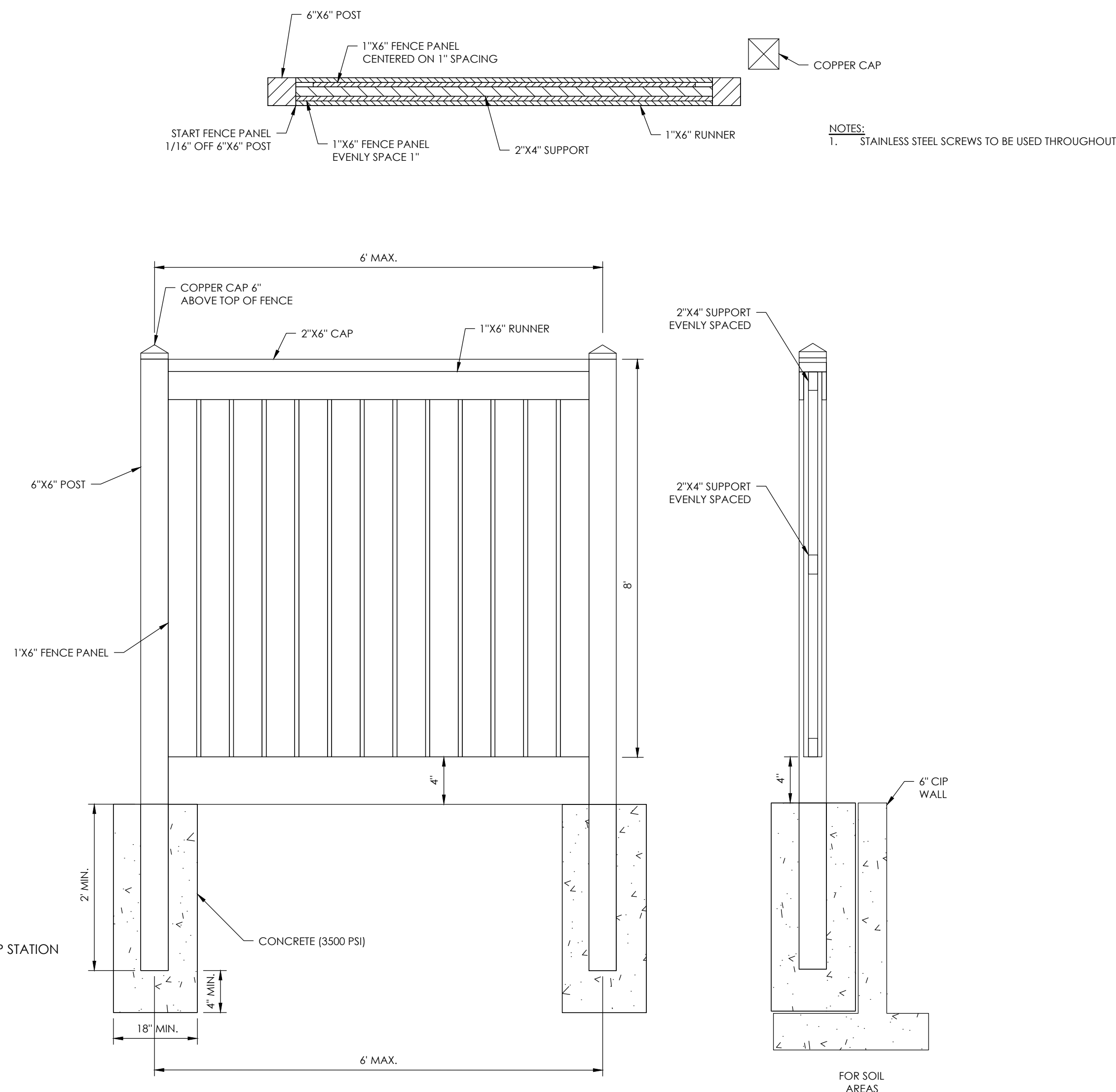


4 **SUBMERSIBLE LIQUID LEVEL TRANSMITTER (STILLING WELL)**
C3.2 NOT TO SCALE

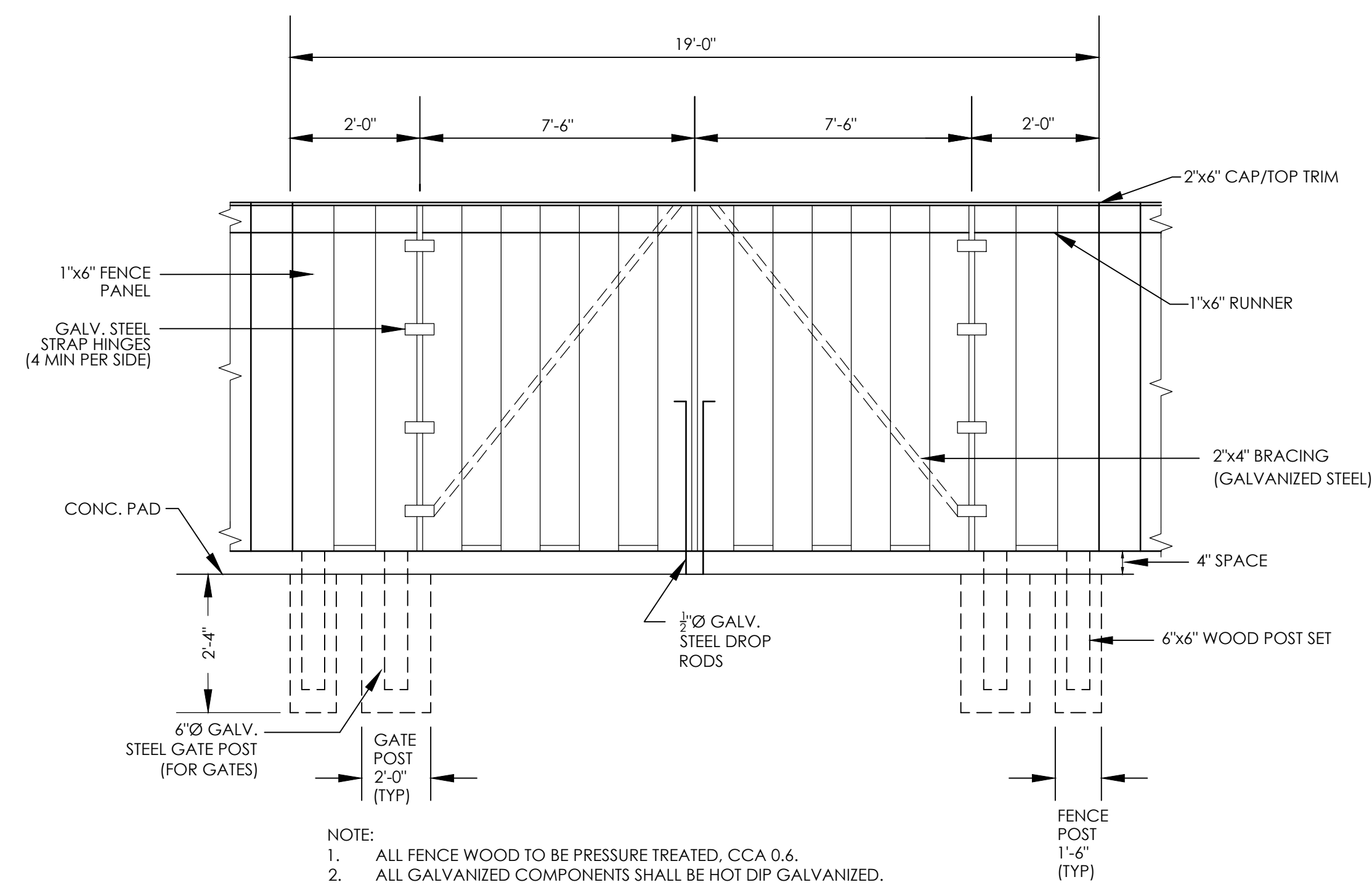


NOTE:
1. SEDIMENT INLETS SHOWN IN PLAN SHEETS, G#1 AND J8#24.
2. HEAVY DUTY FRAME (TRAFFIC RATED) W/ 1/2\"/>

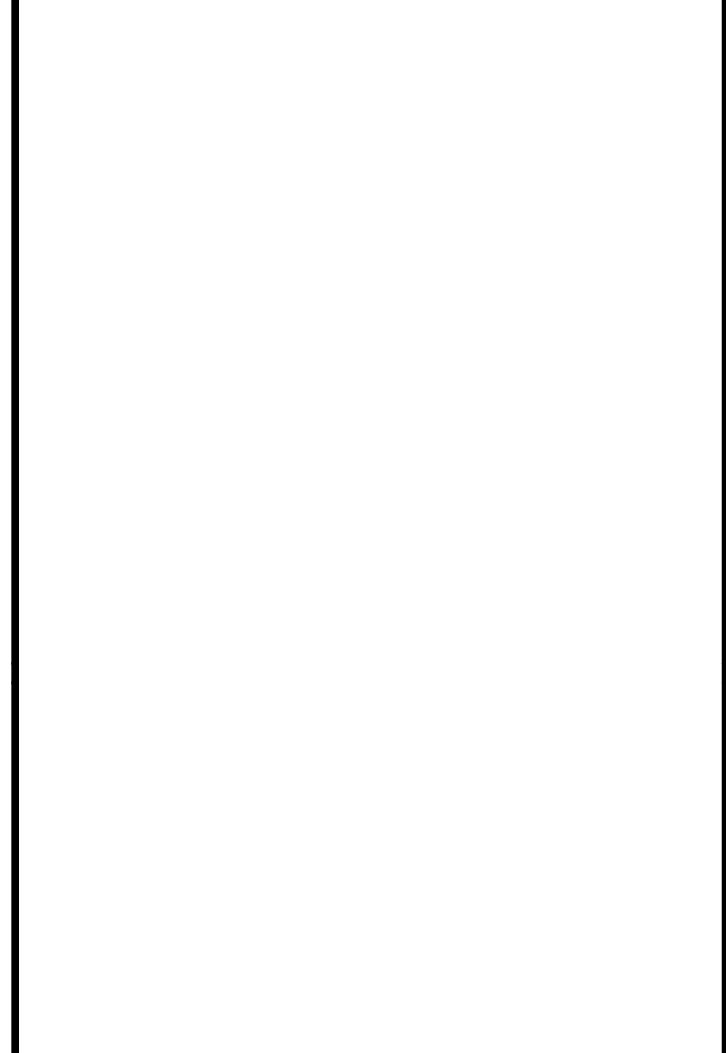
2 **SEDIMENT INLET**
C3.2 NOT TO SCALE



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.



NO.	REVISIONS	BY	DATE



THOMAS & HUTTON
682 Johnnie Dodds Blvd. • Suite 100
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

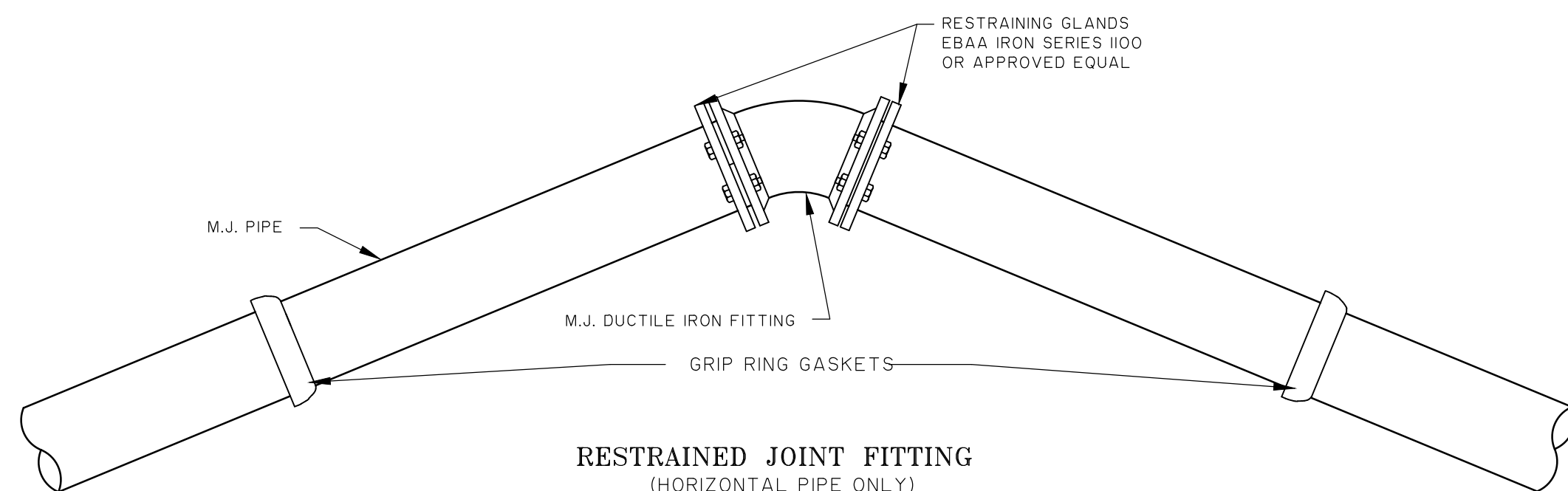
GRAPHIC SCALE:
1 INCH = 1 FEET

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

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

C3.2

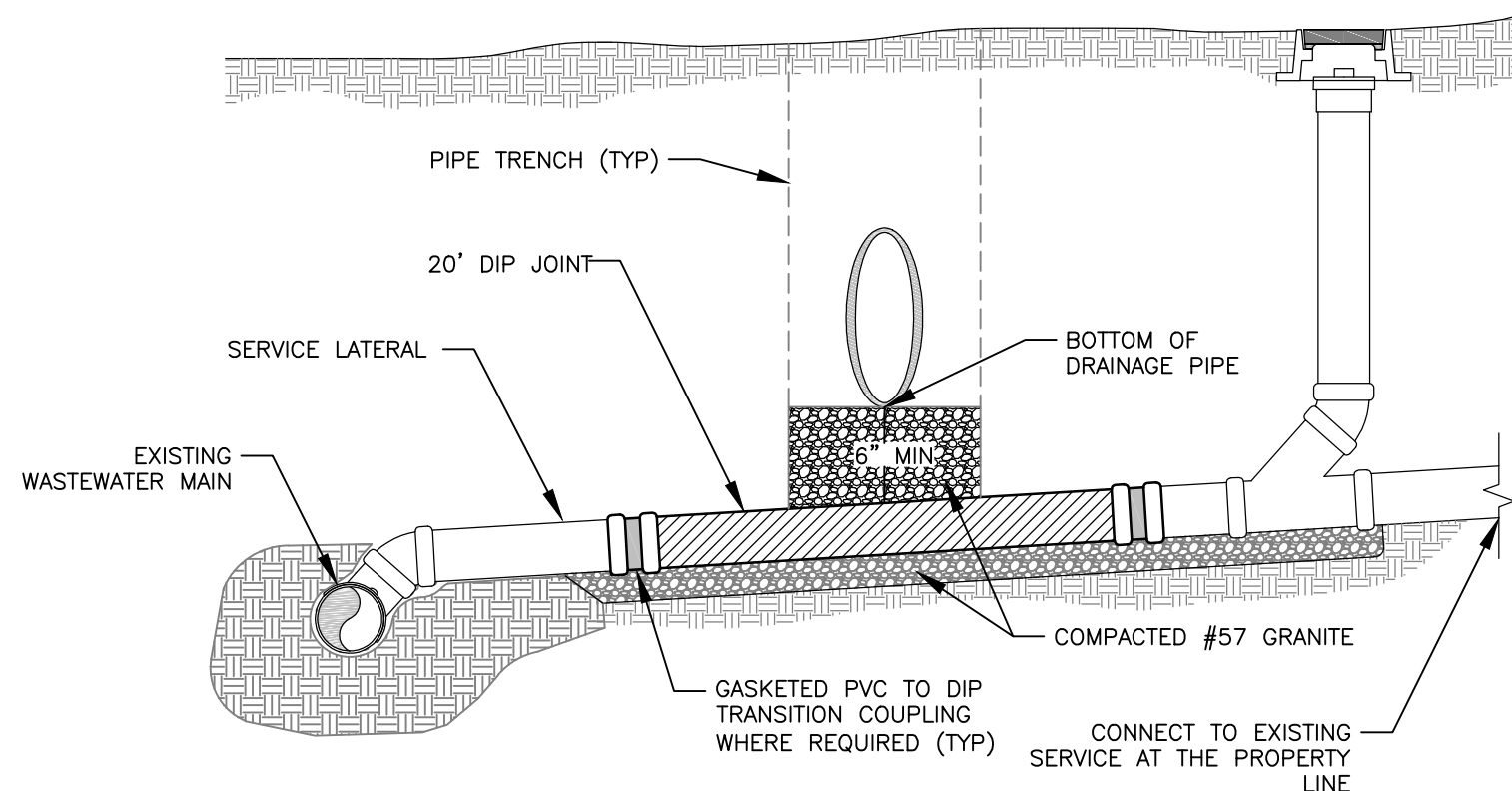
1 VERTICAL OFFSET DETAIL
C3.3 NOT TO SCALE



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	REDUCER	VALVE
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

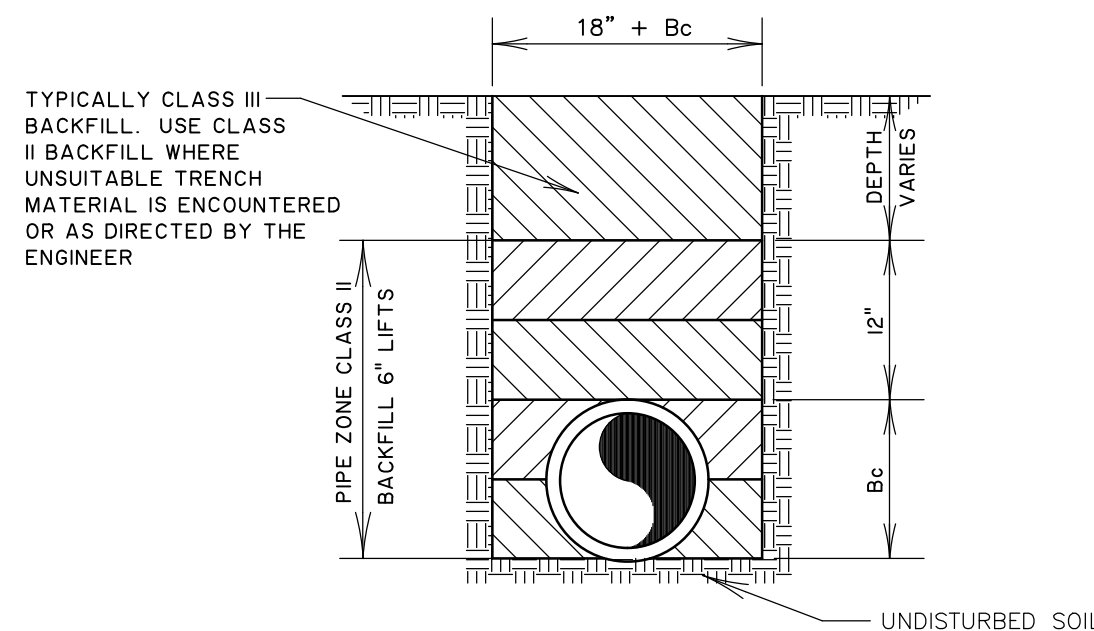
2 RESTRAINED JOINT FITTING
C3.3 NOT TO SCALE

- 3 GENERAL NOTES
C3.3 NOT TO SCALE



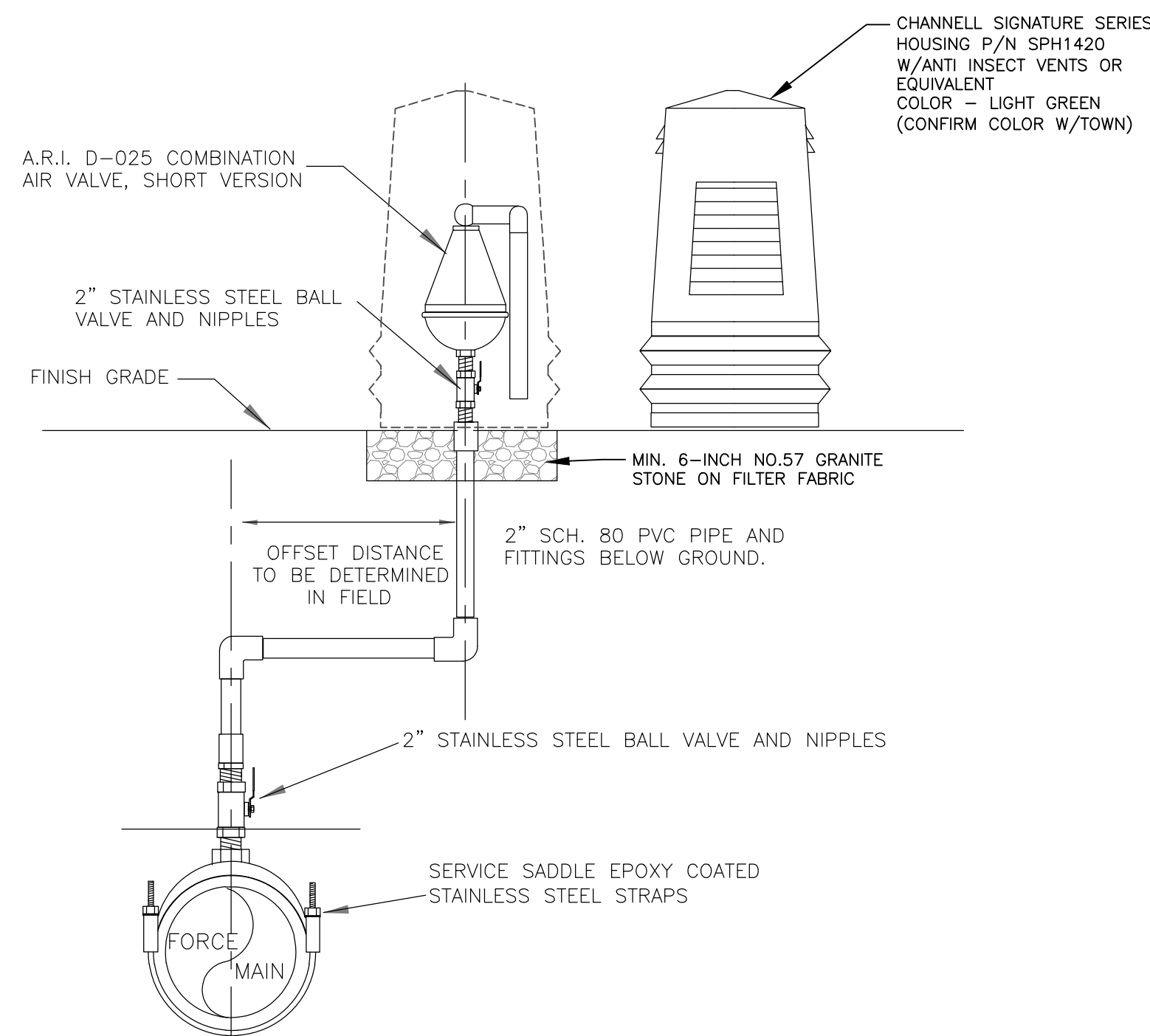
LATERAL CROSSING DETAIL
(EXISTING SANITARY SEWER
SERVICE/LATERAL)

4 SERVICE/NOT TO SCALE
C3.3

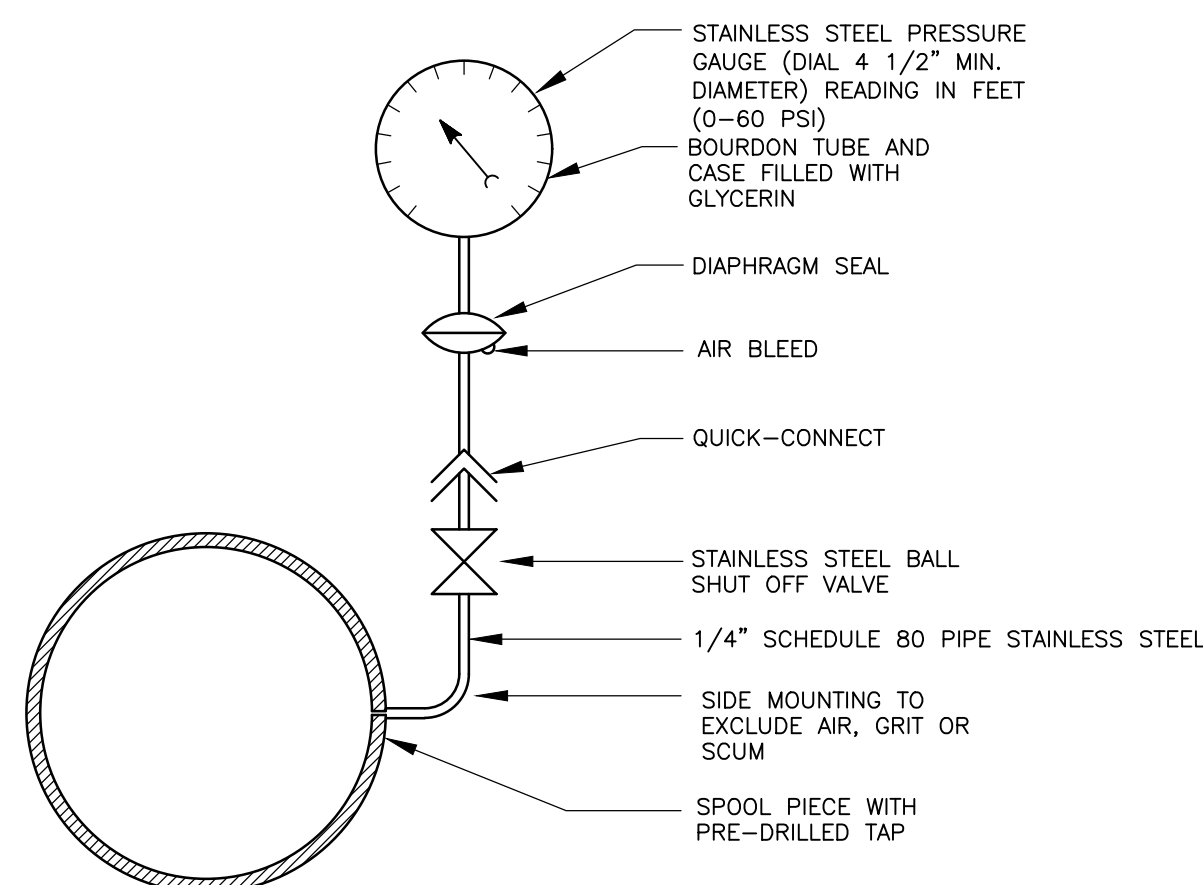


-
- The diagram illustrates the cross and longitudinal sections of a trenchless pipe installation. The top part, labeled "CROSS SECTION", shows a horizontal pipe with bell ends. The pipe is shown in two positions: one where it is resting on the bottom of a trench and another where it is being pushed through the soil. The bottom part, labeled "LONGITUDINAL SECTION", shows the pipe being pushed through the soil. The pipe is shown in two positions: one where it is resting on the bottom of a trench and another where it is being pushed through the soil. The diagram includes labels for "UNDISTURBED SOIL", "BELL HOLES CUT BY HAND", and "ENTIRE BARREL OF PIPE TO REST ON BOTTOM OF TRENCH".

5 WATER MAIN BEDDING DETAIL
C3.3 NOT TO SCALE



6 FORCE MAIN AIR RELEASE VALVE
C3.3 NOT TO SCALE

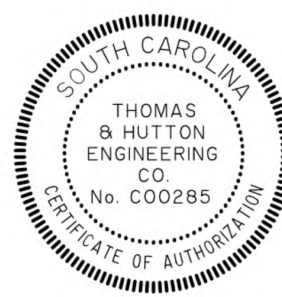


7 PRESSURE GAUGE INSTALLATION DETAIL

C3.3 NOT TO SCALE



C3.3



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

DETAILS

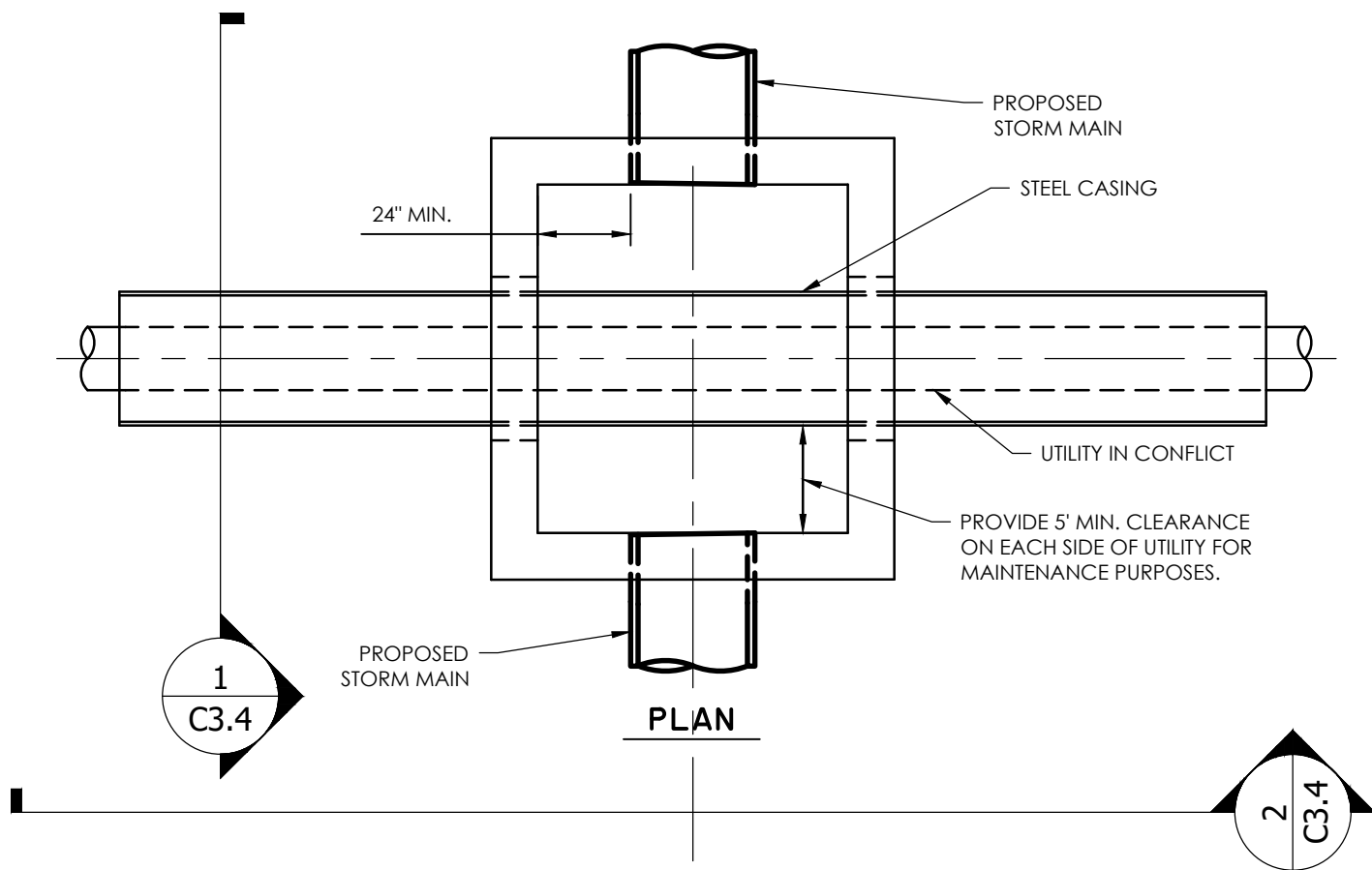
MULTI-BASIN DRAINAGE IMPROVEMENT

PROJECT LOCATION:
SULLIVAN'S ISLAND, SC

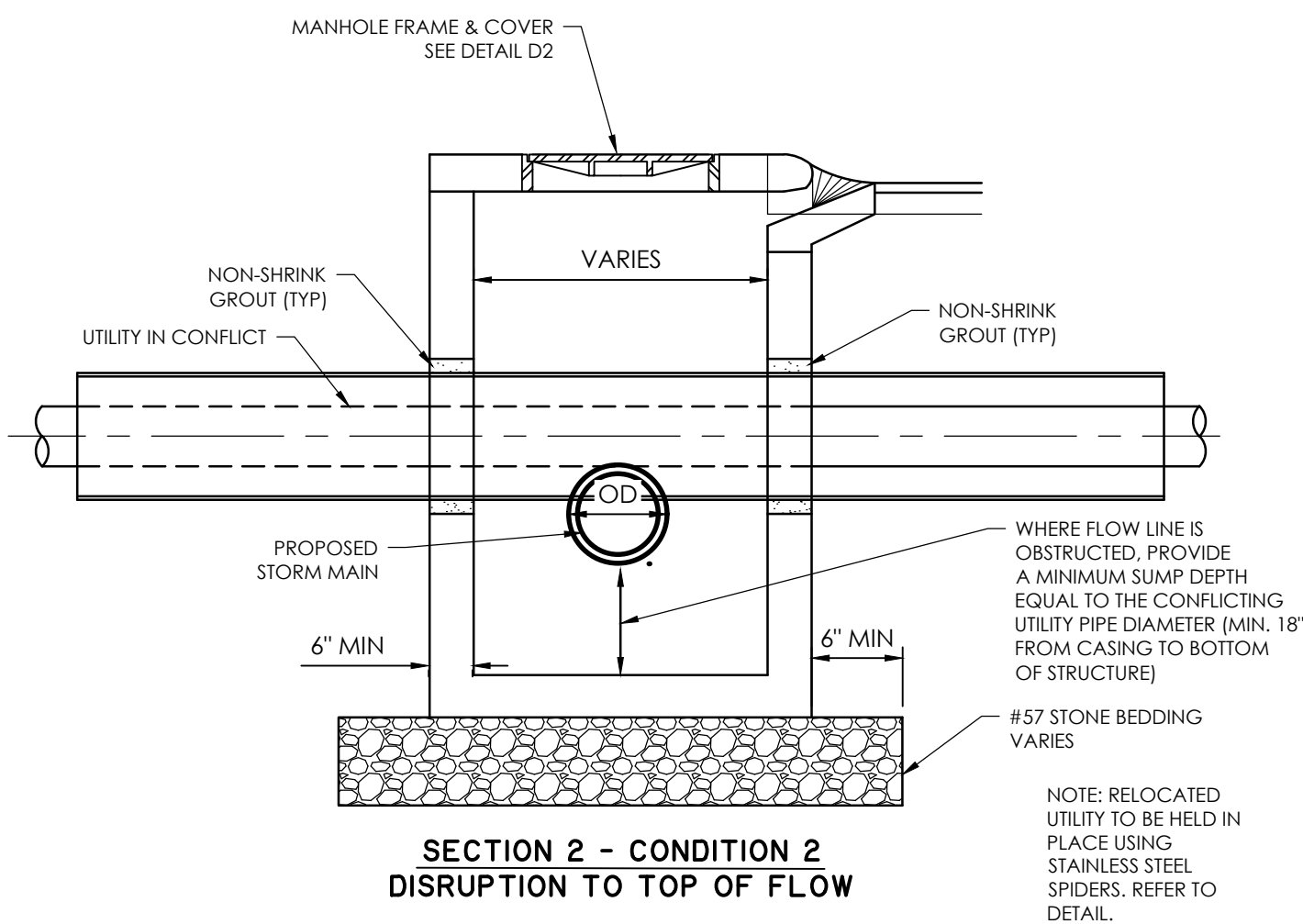
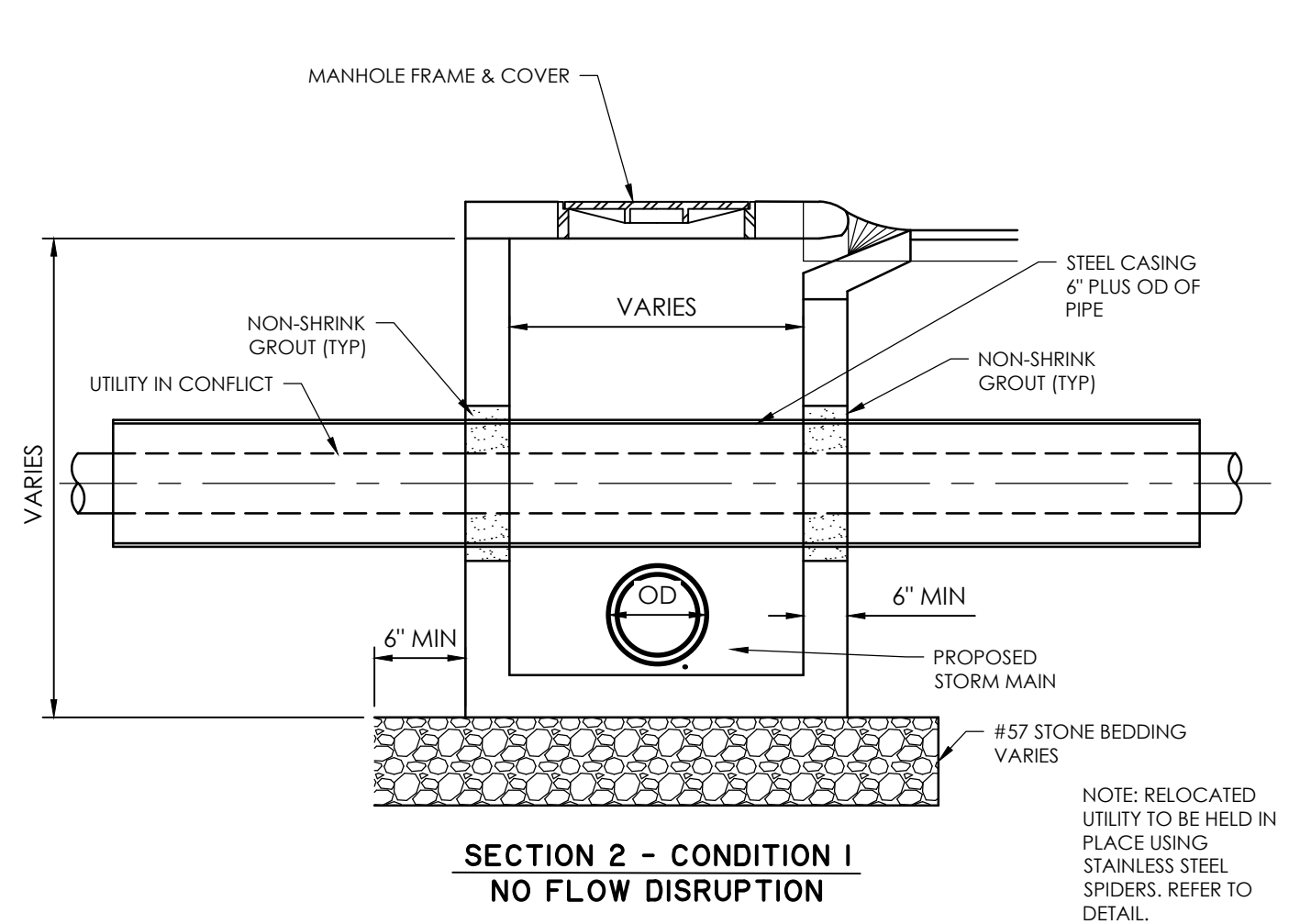
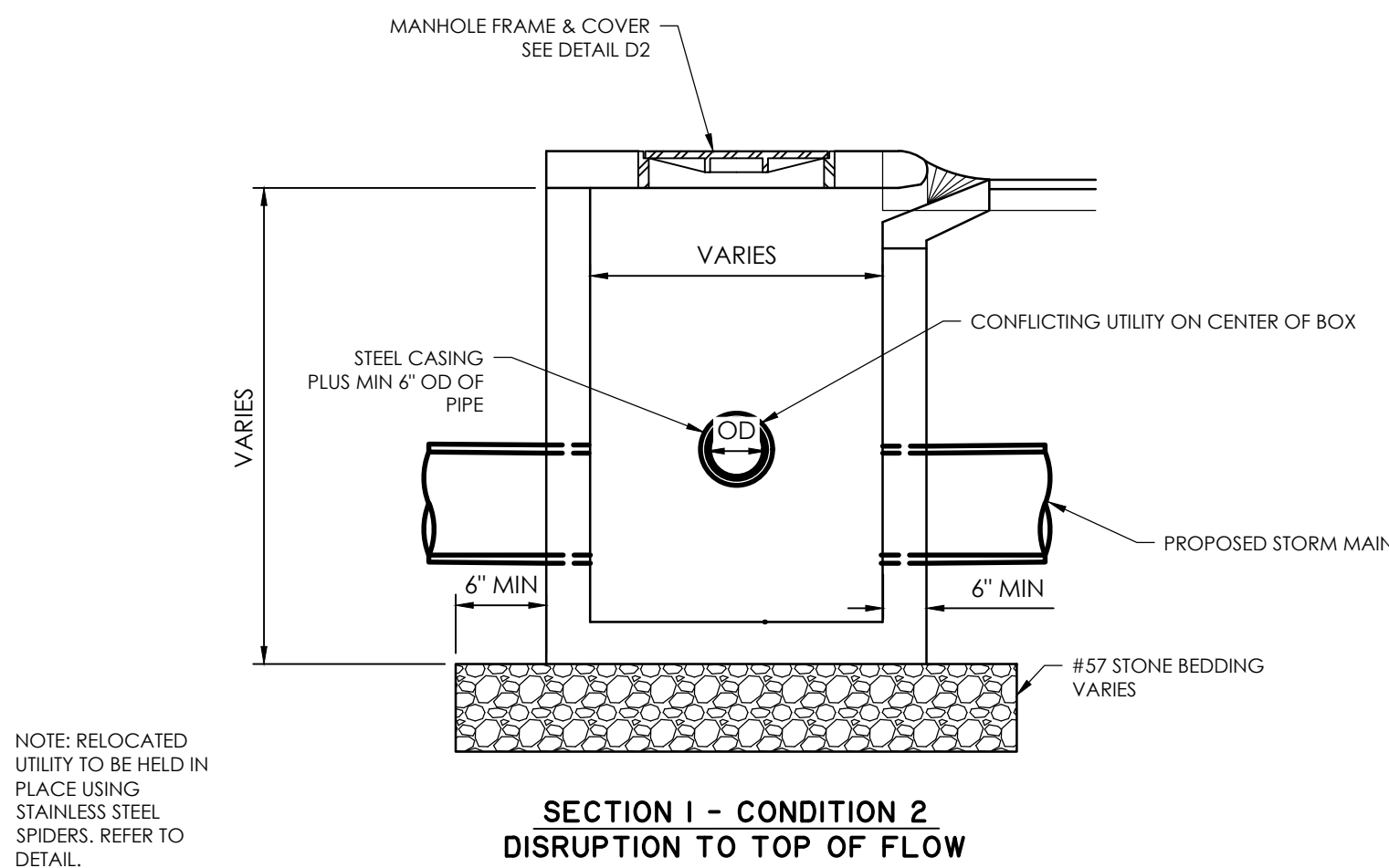
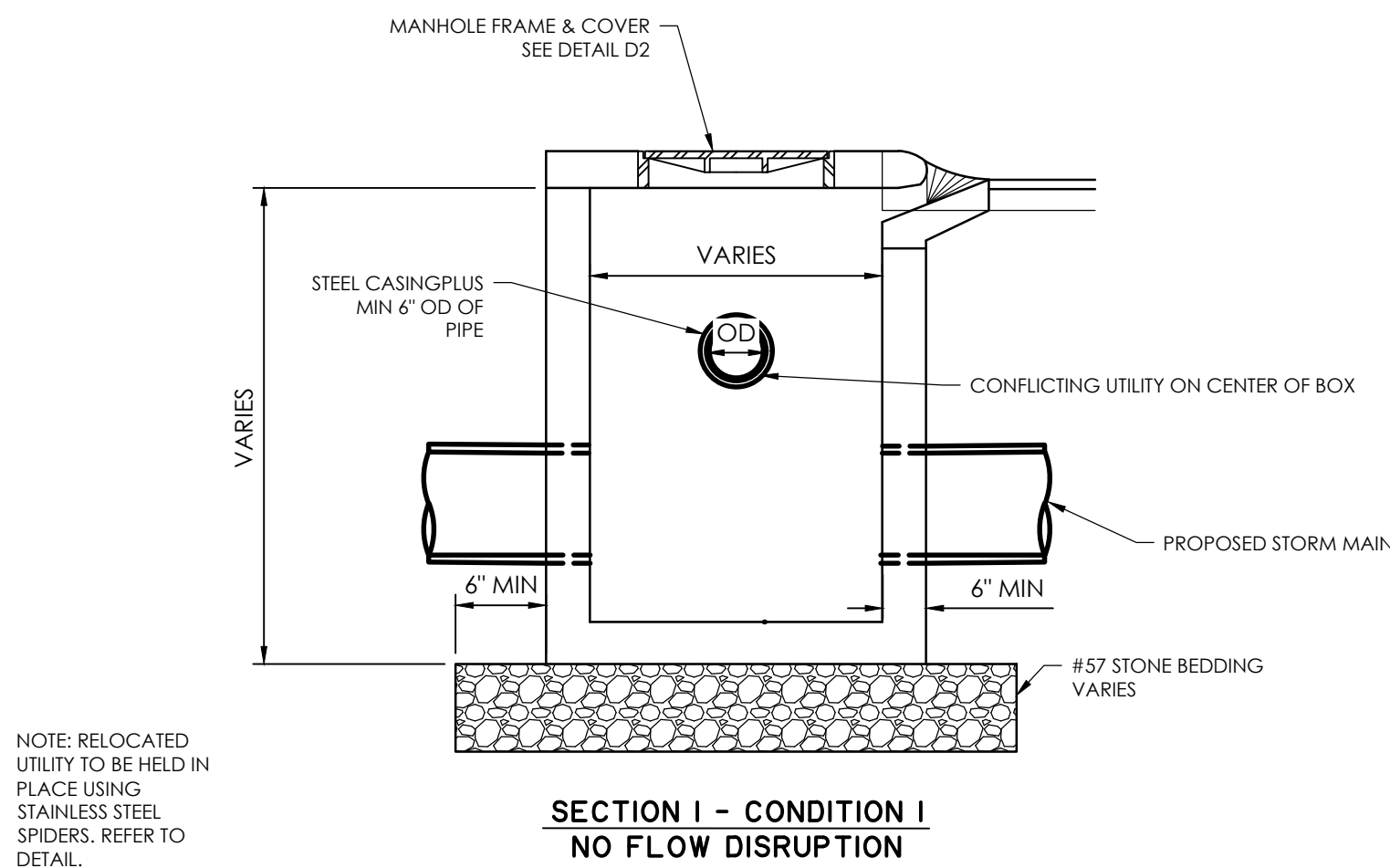
CLIENT/OWNER:
TOWN OF SULLIVAN'S ISLAND
2150 MIDDLE ST
SULLIVAN'S ISLAND, SC 29482

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

Z:\37091\37091.DWG THOMAS & HUTTON CONSTRUCTION PLANS 37091.DWG 1: DETAILS.DWG 1402.23.2004 2:44 PM



- NOTE:
1. INSTALL MINIMUM LENGTH OF CASING SHOWN UNLESS OTHERWISE NOTED ON PLAN SHEET.
 2. TWO CONDITIONS PROVIDED FOR EACH SECTION VIEW:
 - 2.1. CONDITION 1 - THERE IS NO DISRUPTION TO STORMWATER FLOW FROM THE CONFLICTING UTILITY
 - 2.2. CONDITION 2 - CONFLICTING UTILITY CAUSES DISRUPTION TO TOP OF STORMWATER FLOW

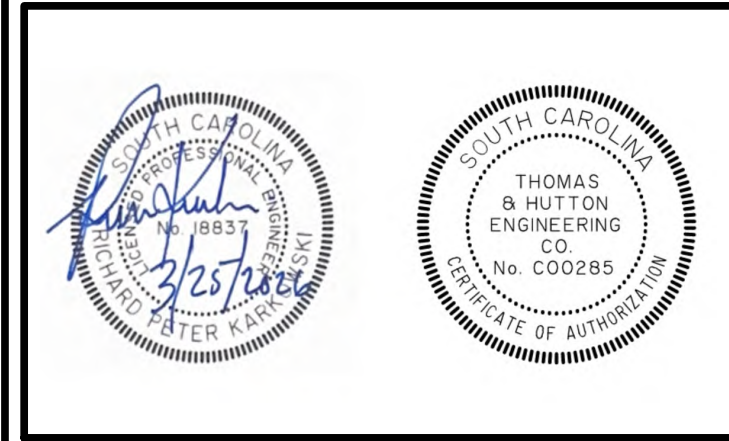


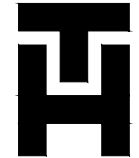
1
C3.4

CONFLICT BOX DETAIL
NOT TO SCALE



NO.	REVISIONS	BY	DATE





THOMAS
&
HUTTON

682 Johnnie Dodds Blvd. • Suite 100
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



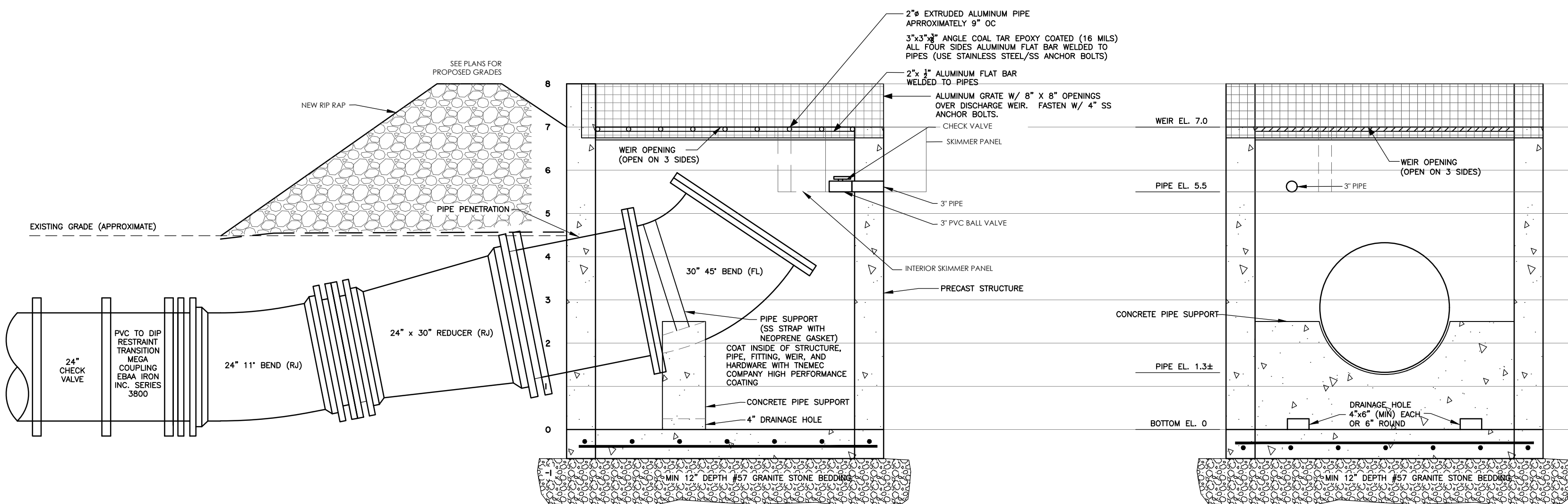
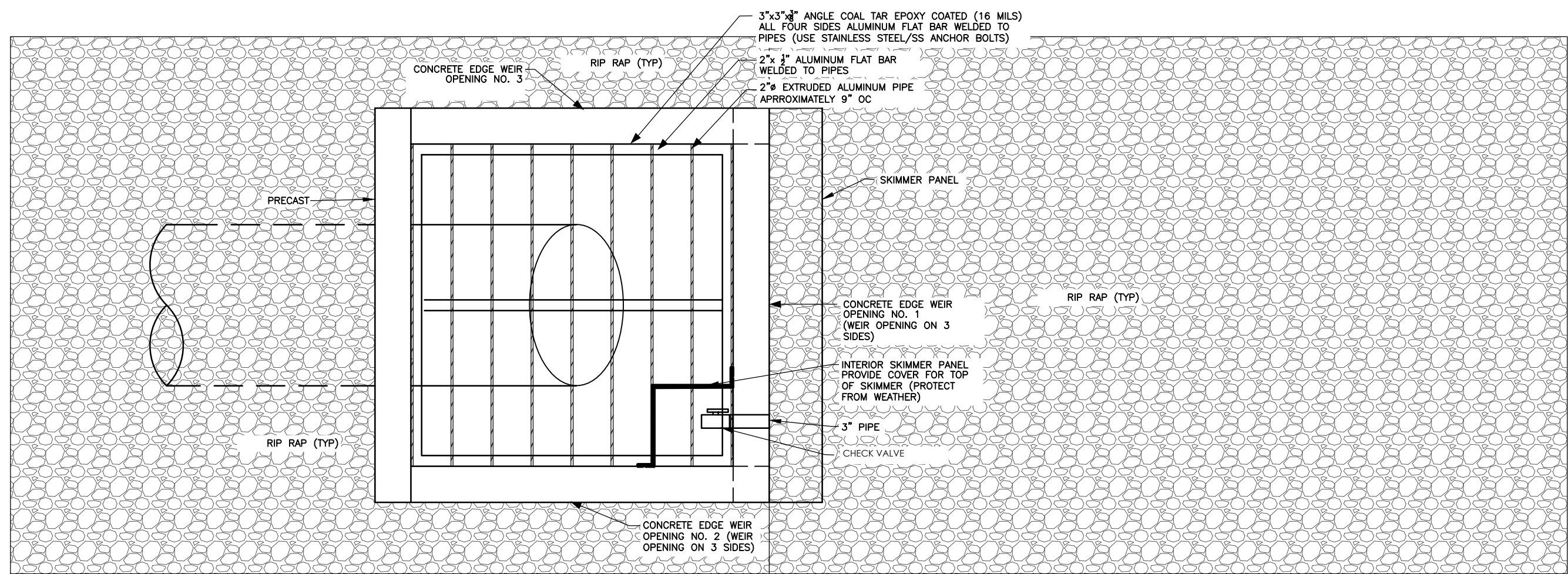
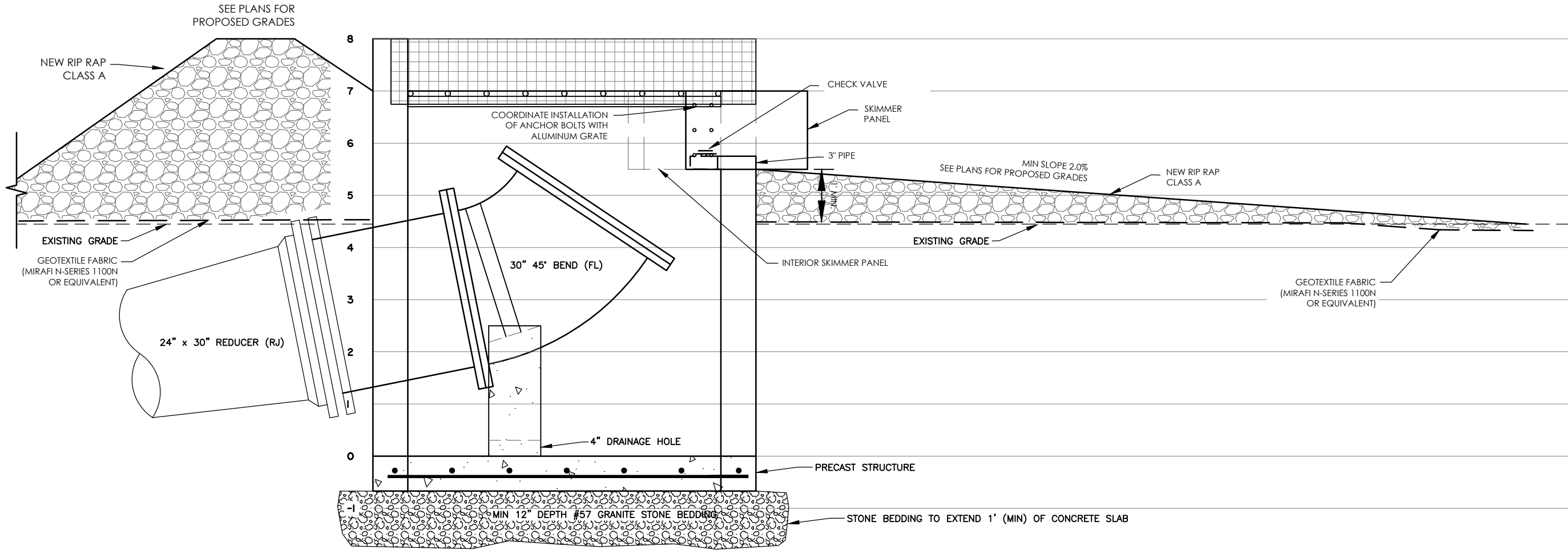
GRAPHIC SCALE:
1 INCH = 1 FEET

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

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

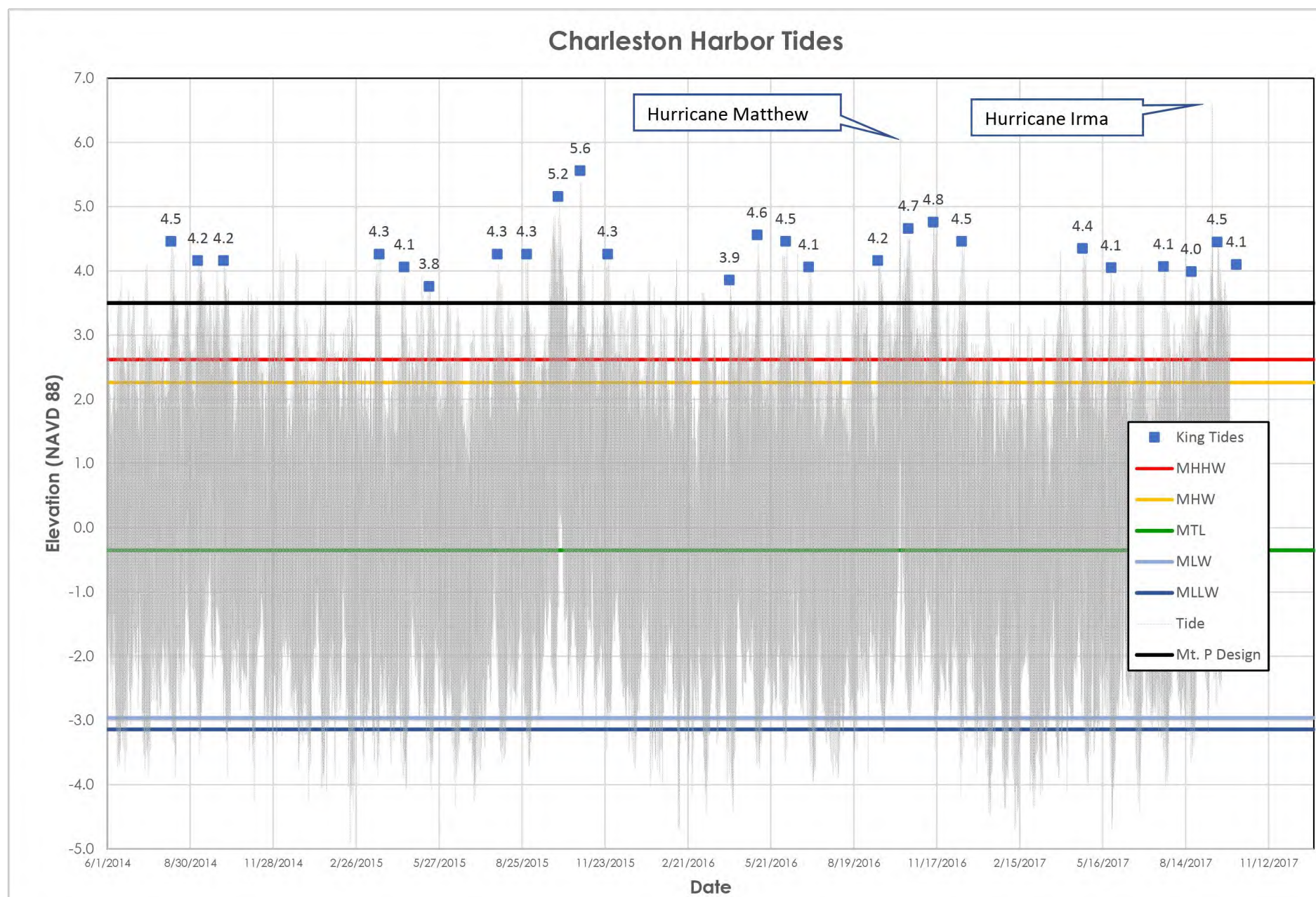
C3.4

2:37091.07091.0001 (UNREVIEWED) DRAWING: CONSTRUCTION AND 37091.0001 - DETAILS.DWG - 1402.21.2004 - 2:34 PM



NOTES:

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

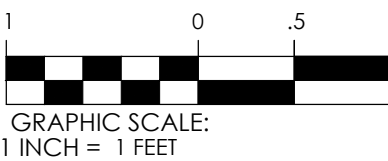
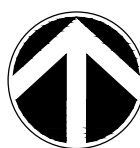


DETAILS - OUTFALL STRUCTURE

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:

DESIGNED:

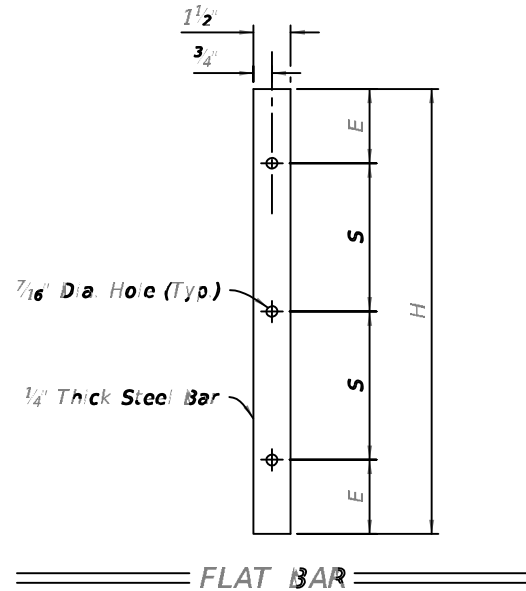
APPROVED:

SCALE: 1" = 1'

C3.5

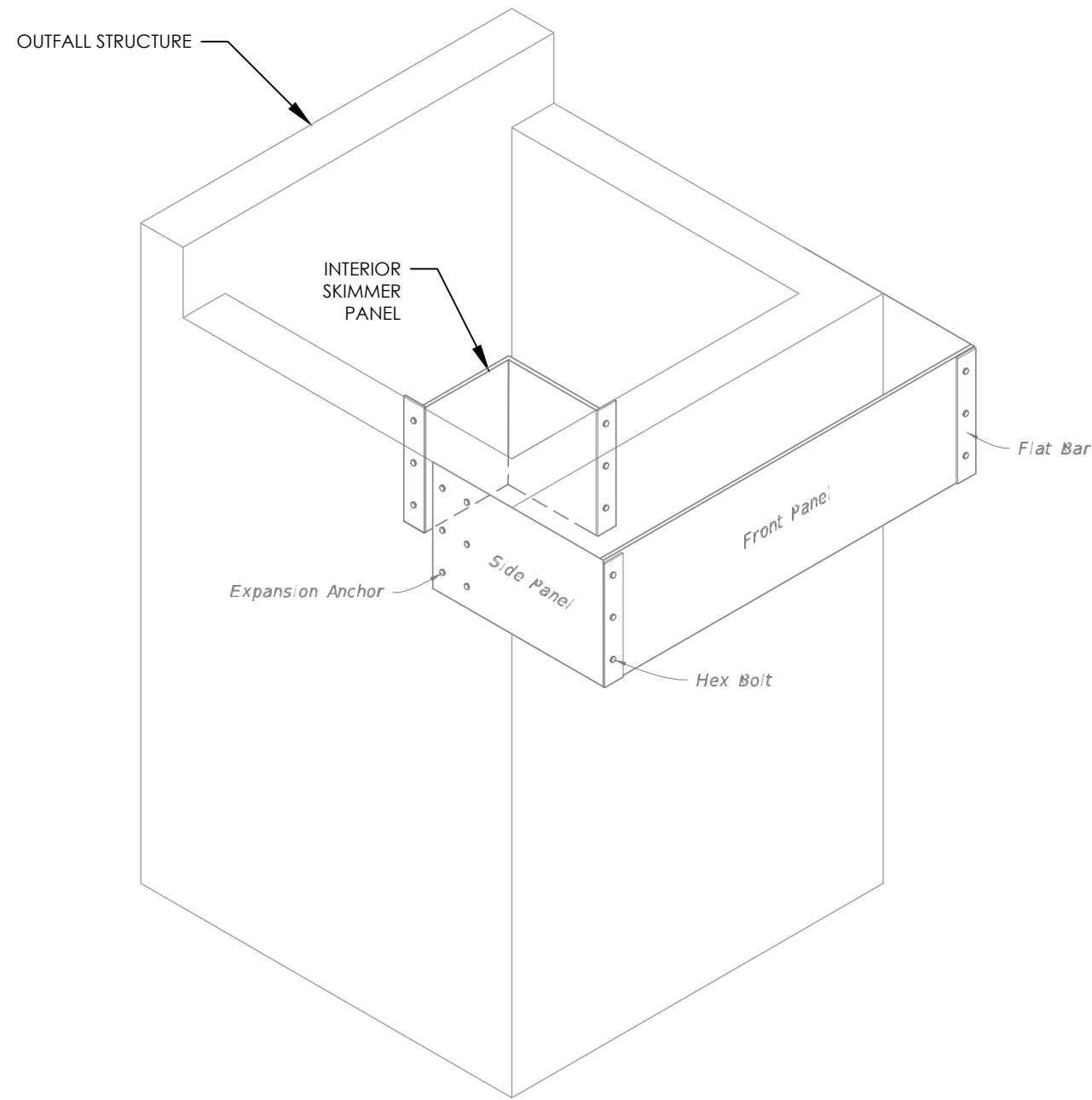
2:37091.07091.0001 (MCHS) (DWG) (CONSTRUCTION) (P&ID) (3D) (DETAIL) (DWG) (REV 2) (2024-10-24 14:24:24)

DIMENSIONS				
Skimmer Height as Specified in the Plans				Bolt Spacing
H (in)	D (in)	E (in)	L (in)	S (in)
12	3 1/8	3	28	3
14	3 1/8	3	28	3
16	3 1/8	3	28	3
18	3 1/8	3	28	6
20	4 1/8	4	31	6
22	4 1/8	4	31	6
24	4 1/8	4	31	8
26	4 1/8	4	31	9
28	4 1/8	4	31	10
30	5 1/8	5	31	10
32	5 1/8	5	31	11
34	5 1/8	5	31	12
36	6 1/8	6	31	12
38	6 1/8	6	31	13
40	6 1/8	6	31	14

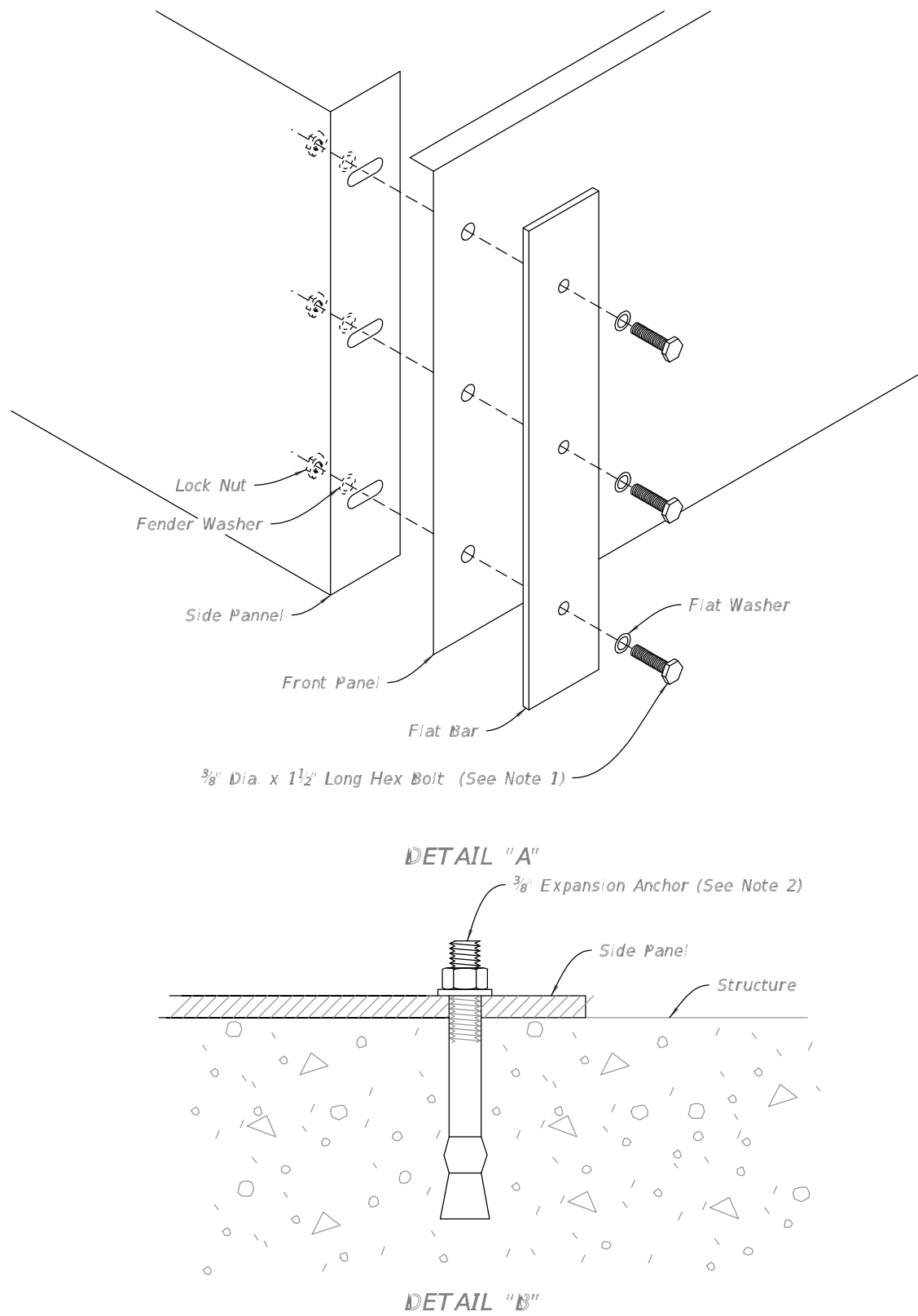
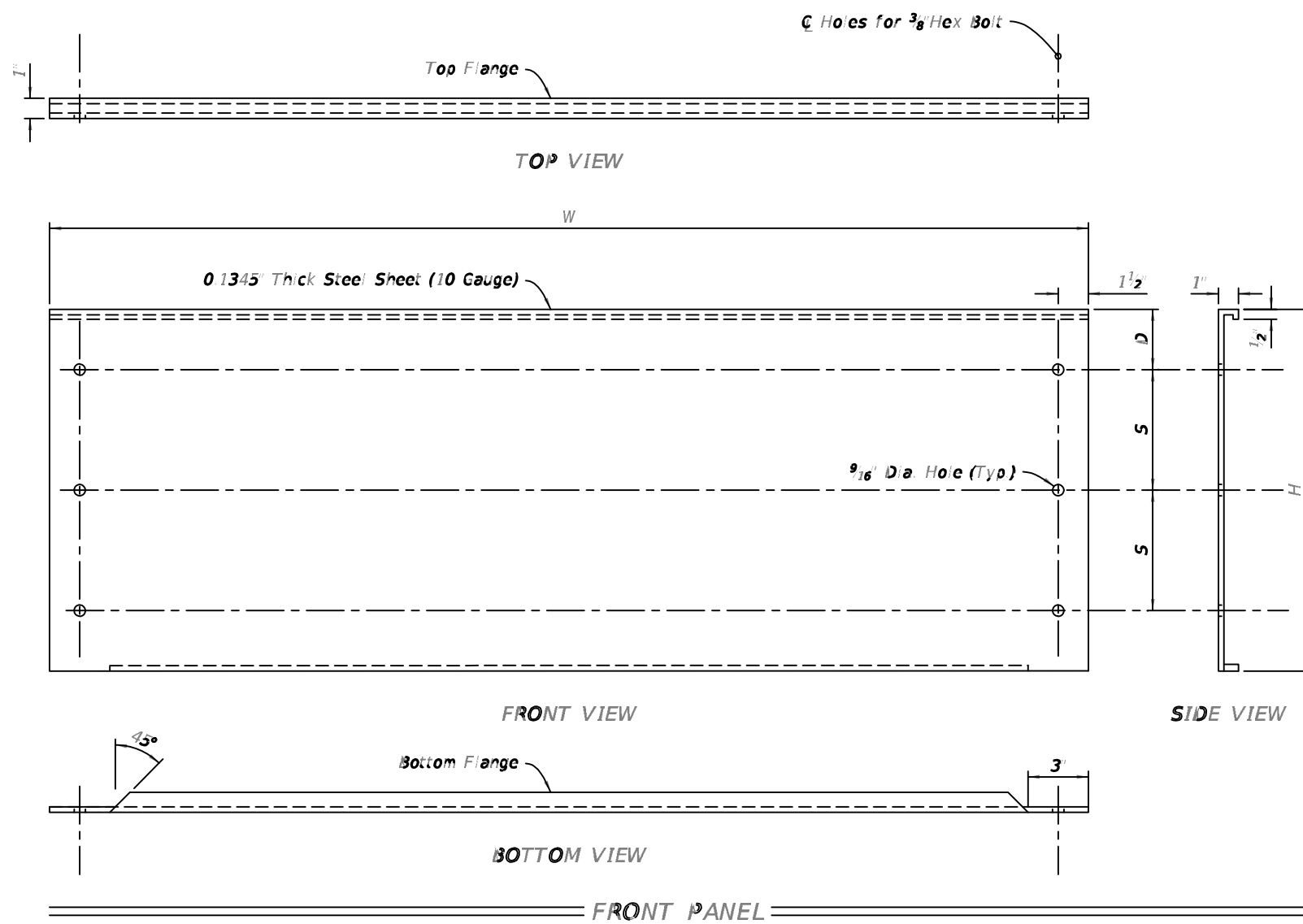
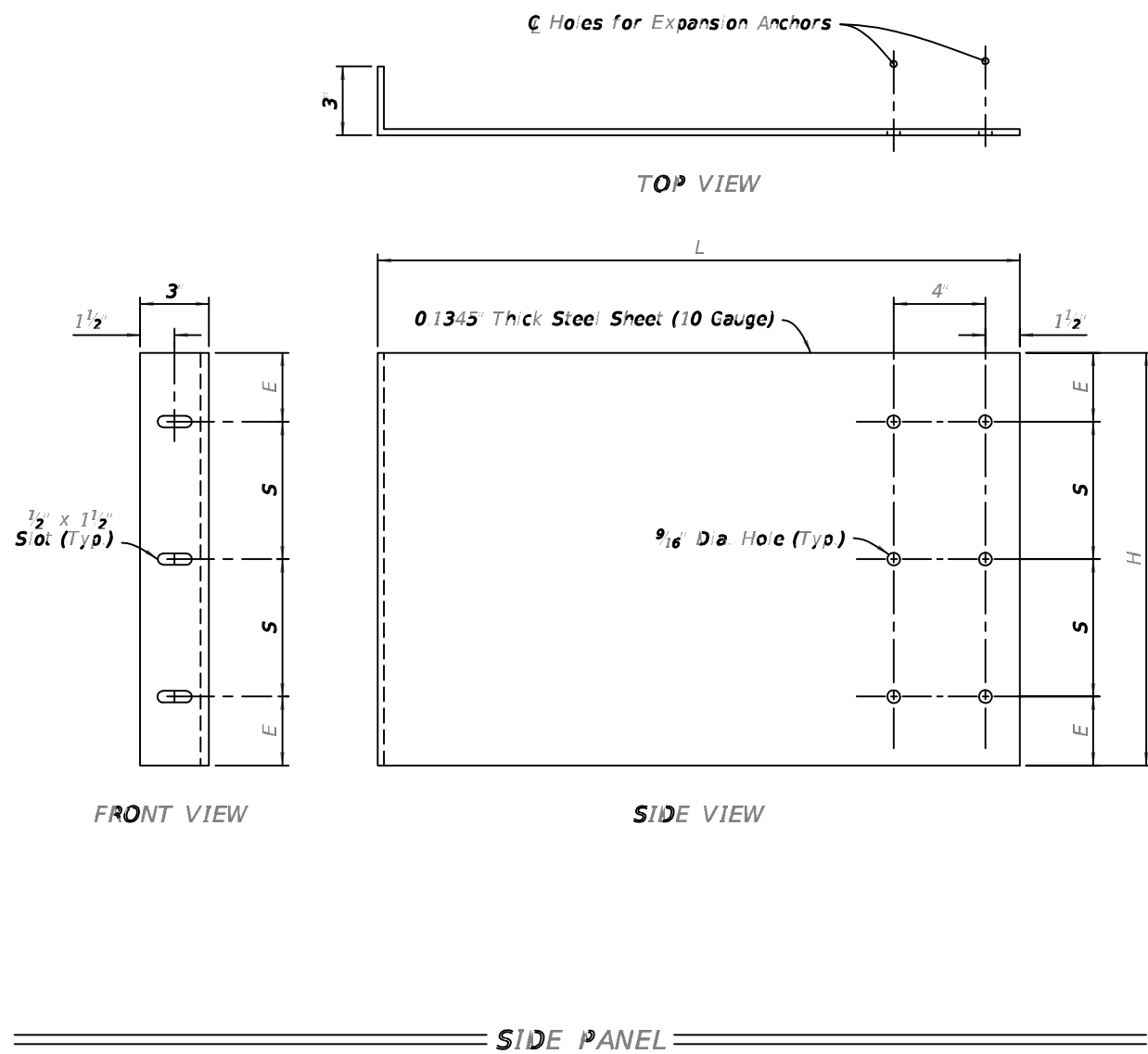


GENERAL NOTES:

- 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.

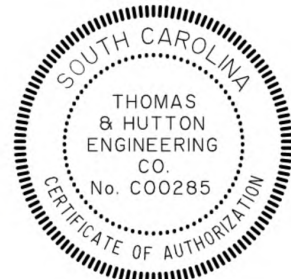
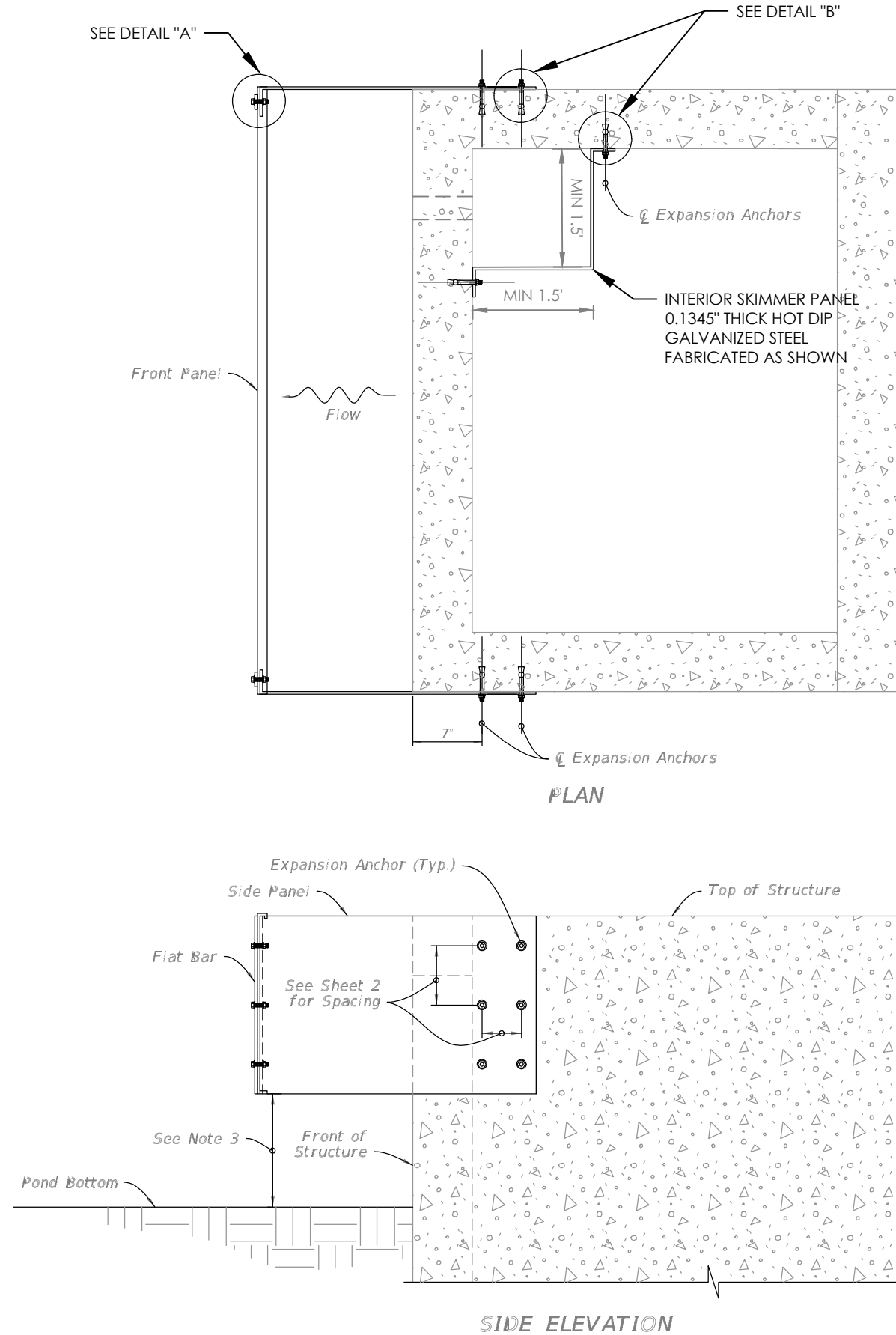


SKIMMER



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.



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

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



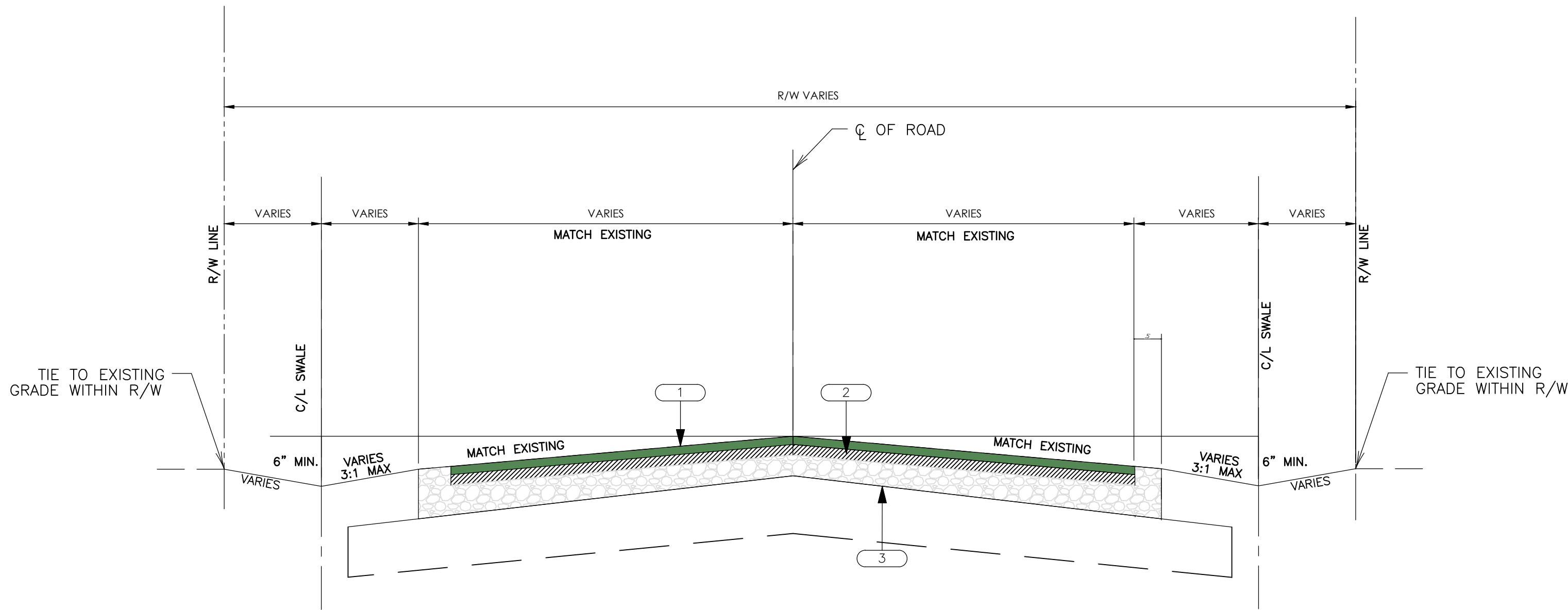
DATUM: HORIZ.: NAD 83

VERT.: NAVD 88

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

C3.6

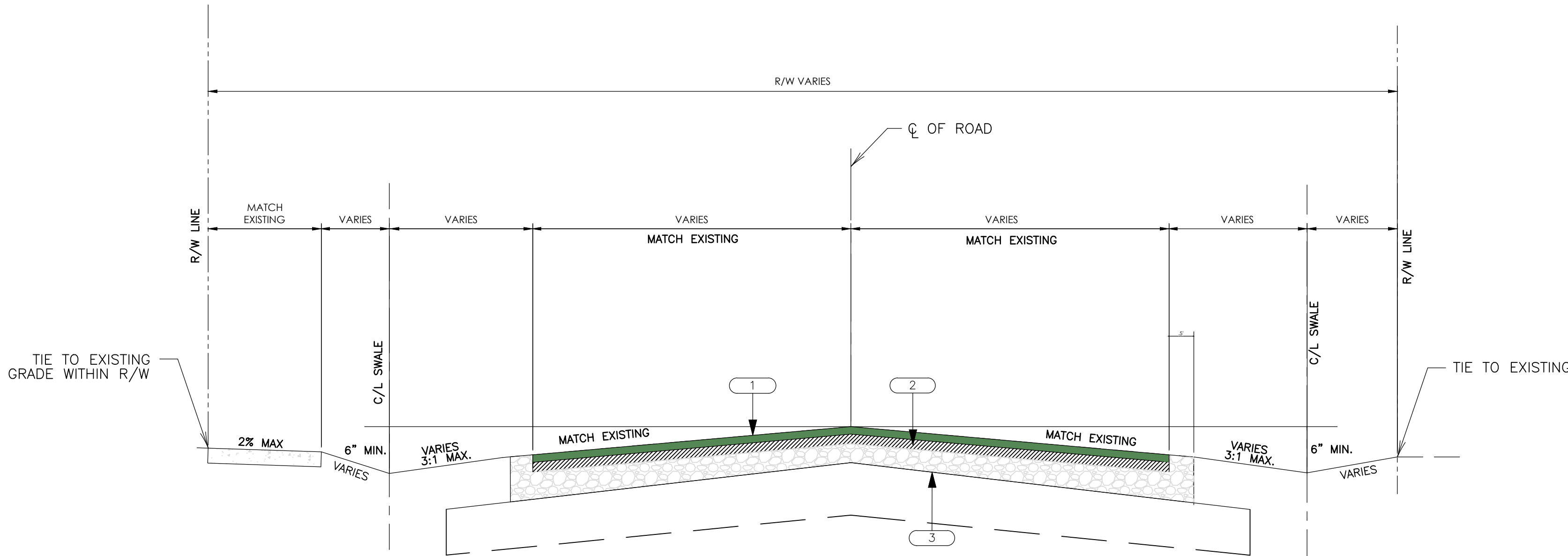
J:\2024\12791\12791 (SULLIVAN ISLAND) DRAWING\CONSTRUCTION\12791_001 - TP101.dwg 12/23/2024 1:24 PM



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.



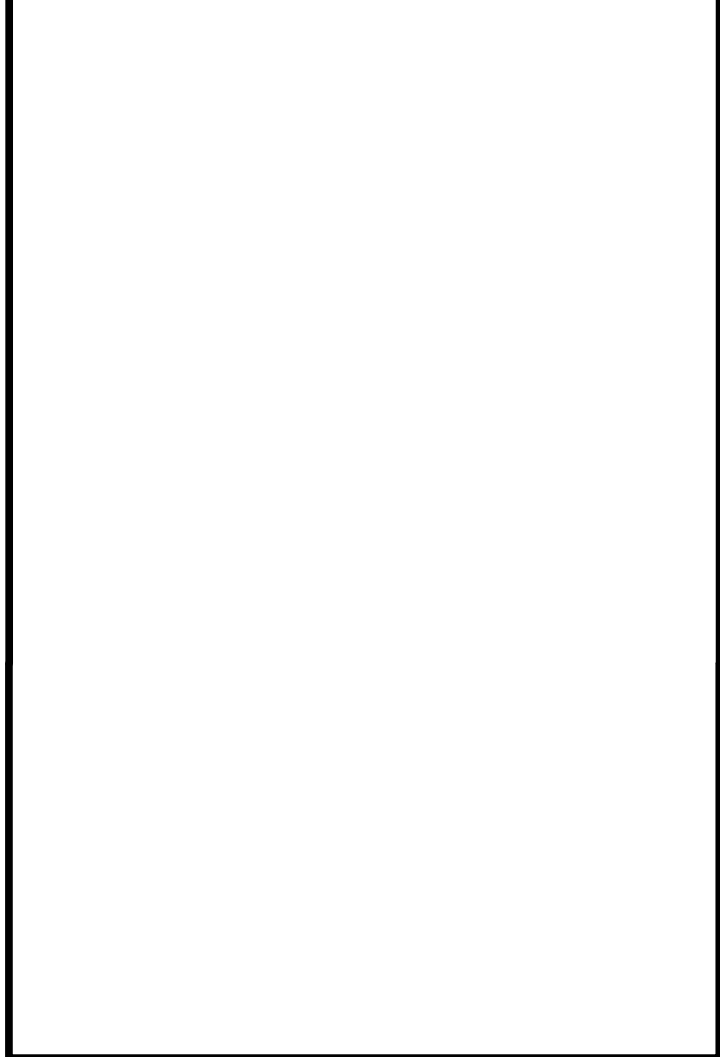
STANDARD CROWN WITH SIDEWALK

NOT TO SCALE

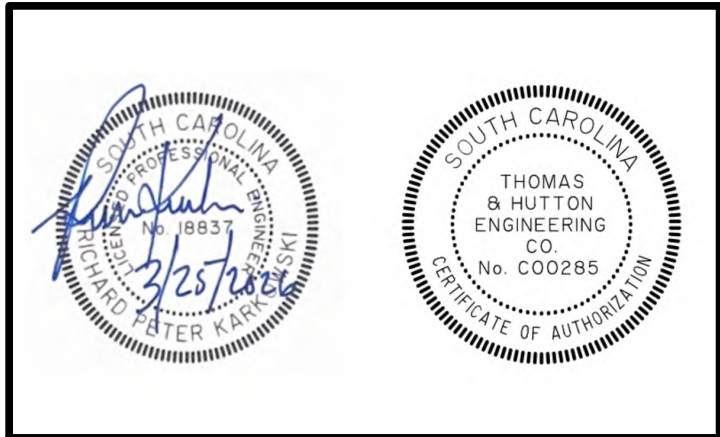
- NOTES:
1. GRADE SWALES TO PROVIDE POSITIVE DRAINAGE.
2. SOD & STAKE DISTURBED SLOPES.
3. REFER TO PAVEMENT SECTION DETAILS.

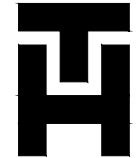
NOTES:
PAVEMENT WIDTHS VARY, MATCH EXISTING,
SLOPES VARY, MATCH EXISTING.
SAWCUT EXISTING PAVEMENT A MINIMUM OF
6\"/>

1. MIN. 2\"/>



NO.	REVISIONS	BY	DATE



**THOMAS
&
HUTTON**

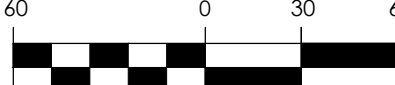
682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

TYPICAL PAVEMENT SECTION

**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\"/>

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

JOB NO: 27091.0001

DATE:

DRAWN: AES

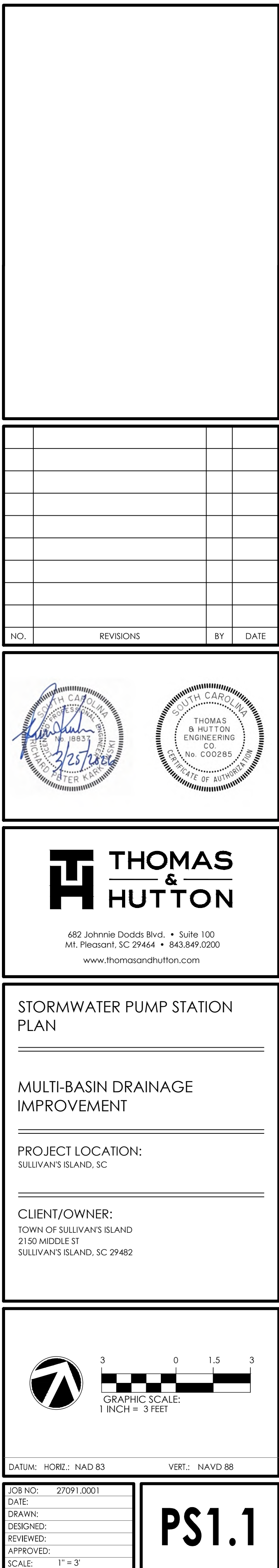
DESIGNED: AES

REVIEWED: RPK

APPROVED: RPK

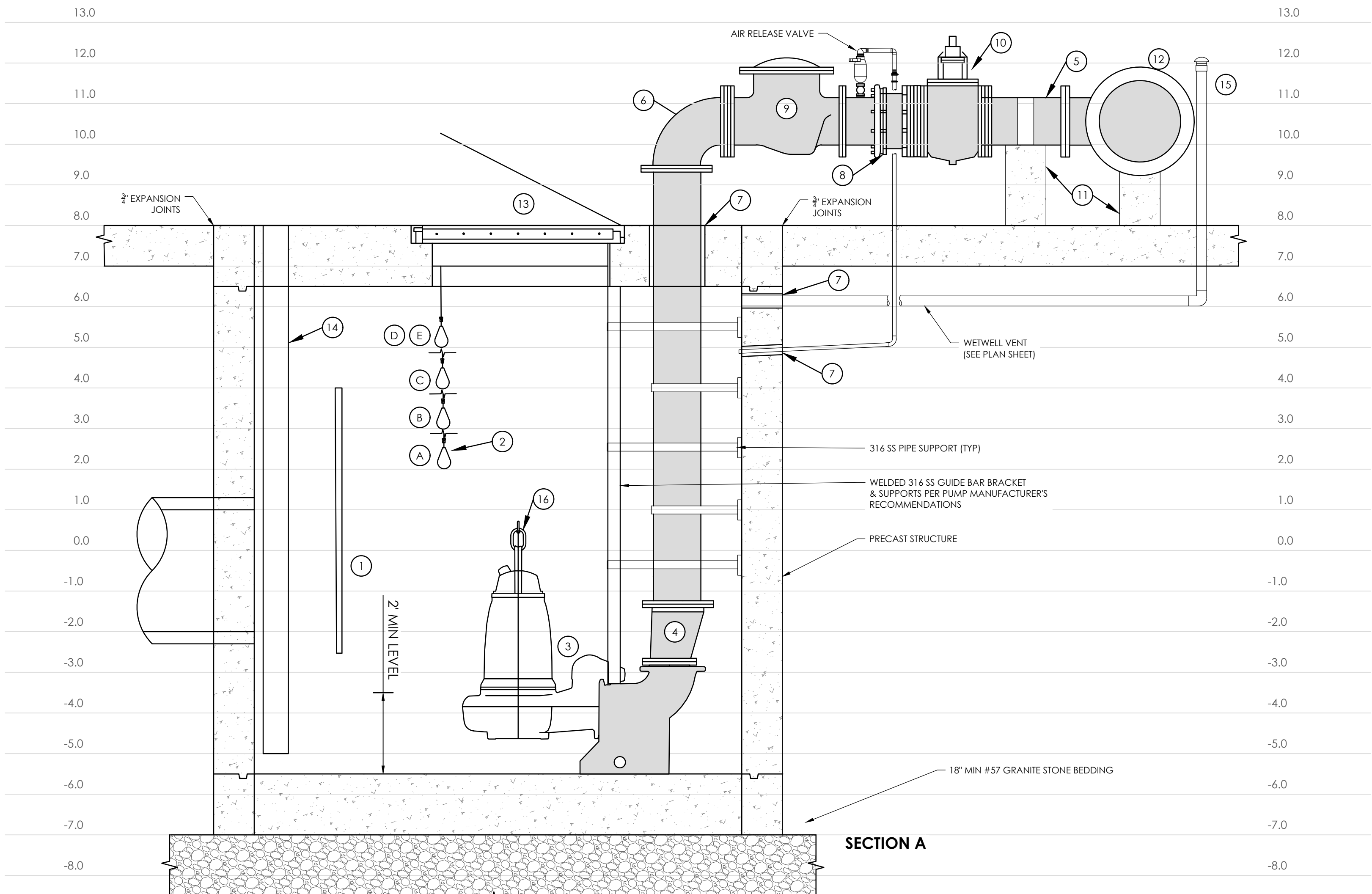
SCALE: 1\"/>

TP1.0



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
16	SS LIFTING CHAIN (NOT SHOWN FOR CLARITY)	3

PUMP FLOATS		
FLOAT	DESCRIPTION	NO. REQD
A	PUMPS OFF	1
B	LEAD PUMP ON	1
C	LAG PUMP ON	1
D	LAG LAG PUMP ON	1
E	HIGH WATER ALARM	1



3. ALL WORK AND MATERIALS SHALL BE ACCEPTABLE TO TOWN OF SULLIVAN'S ISLAND.
2. ALL ENCLOSURES SHALL BE WATERTIGHT, STAINLESS STEEL NEMA 4X INSIDE A NEMA 4X PANEL.
3. WETWELL SECTIONS SHALL CONFORM TO ASTM C-478.
4. WETWELL TO HAVE SEPARATE CONDUIT FOR FLOAT CABLES.
5. 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.
6. ALL WET WELL HARDWARE SHALL BE MOUNTED SUCH THAT ANY COMPONENT MAY BE REMOVED.
7. ALL EXPOSED CONCRETE WITHIN THE WET WELL AND SEDIMENT STRUCTURE SHALL RECEIVE RAVENS 405 (120 MIL. MIN.) OR APPROVED EQUAL.
8. SECURITY LIGHTS SHALL BE PROVIDED FOR THE STATION. THE LIGHTS SHALL BE SWITCH CONTROLLED AND MUST ADEQUATELY ILLUMINATE THE CONTROL PANEL AND WET WELL HATCH.
9. 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.
10. 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.
11. 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.
12. THE POWER CABLE TO BE WIRED NONSTOP FROM THE PUMP MOTOR TO THE MOTOR STARTER WITH NO JUNCTION BOXES OR SPLICES.
13. STAINLESS STEEL KELLUMS GRIPS SHALL BE INSTALLED ON POWER CABLES FOR THE PUMPS AND PROBES.
14. 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.
15. ALL METAL STRUCTURES SHALL BE GROUNDED.
16. 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.
17. SPRAY HERBICIDE PRIOR TO PLACEMENT OF STONE OR CONCRETE, OR PAVEMENT WITHIN PUMP STATION SITE.
18. 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.
19. 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.
20. CONTRACTOR SHALL TAKE NECESSARY PROTECTIONS AGAINST FLOATATION OF WET WELL DURING CONSTRUCTION.
21. ALL ELBOWS OR 90° BENDS SHALL BE LONG RADIUS.
22. 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

23. THE CONTRACTOR SHALL COORDINATE MATERIAL AND EQUIPMENT STORAGE AREAS WITH THE OWNER.

24. 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.

25. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE WHICH WILL IN ANY WAY AFFECT THE COMPLETION OF WORK

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

1. ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WITH A LOCAL BUSINESS LICENSE.
2. 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.
3. ELECTRICAL CONTROLS SHALL BE MOUNTED A MINIMUM OF 2 FEET ABOVE THE 100 YEAR FLOOD ELEVATION.
4. ALL CONDUITS INTO THE CONTROL PANEL AND PUMP STATION SHALL BE SEALED AIRTIGHT.
5. ELECTRICAL CONTROLS TO BE LABELED WITH 1" X 3" BLACK PLACARD WITH 1/2" LETTERS FOR LABELING ALL CONTROLS.
6. 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.
7. MOTOR STARTERS SHALL BE SOFT START. ACROSS THE LINE, SPLIT, WINDING, AND OTHER REDUCED VOLTAGE STARTERS ARE NOT ACCEPTABLE.
8. ALL ELECTRICAL ENCLOSURES SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
9. THE ELECTRIC METER SHALL BE INSTALLED WITH A FUSED DISCONNECT.
10. PROVIDE A SCHEMATIC FOR THE CONTROL PANEL LAMINATED ON BOTH SIDES PLACED IN A POCKET ATTACHED TO THE INSIDE OF PANEL DOOR. THE PUMP AND MOTOR INFORMATION 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.

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	SEE SPEC	SEE SPEC

A. REPORT/RECORD
A.1. PUMP 1 RUNTIME
A.2. PUMP 2 RUNTIME
A.3. PUMP 3 RUNTIME
A.4. JOCKEY PUMP RUNTIME

- B. EVENT ALARMS
- B.1. PHASE FAILURE
 - B.2. PUMP 1 FAILURE
 - B.3. PUMP 2 FAILURE
 - B.4. PUMP 3 FAILURE
 - B.5. HIGH WATER ALARM
 - B.6. JOCKEY PUMP FAILURE
 - B.7. SEDIMENT STRUCTURE HIGH ALARM
 - B.8. RTU FAIL
 - B.9. GENERATOR FAULT
 - B.10. GENERATOR FUEL LEVEL LOW

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

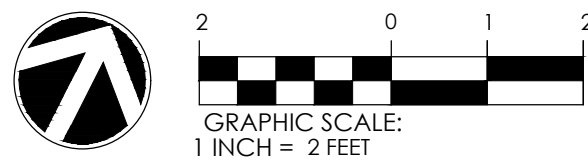


682 Johnnie Dodds Blvd. • Suite 100
Mt. Pleasant, SC 29464 • 843.849.0200
www.thomasandhutton.com

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:	
DESIGNED:	
REVIEWED:	
APPROVED:	
SCALE:	SEE SCALE BAR

PS2.1

