

Site Plans

Issued for: Permit

Date Issued: April 2017

Latest Issue: June 2018

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail Citrus County, Florida

Parcel IDs:
17E19S220010 00030 0010

Owner/Applicant:

Homosassa Associates LLC
1701 N. Federal Highway, Suite 4
Boca Raton, Florida 33432

LEGAL DESCRIPTION

COM AT SW COR OF BLK 5 UNIT 1 OF HOMOSSASSA, TH N 0 DEG 4M 45S W 385 FT FOR POB, TH N 0 DEG 4M 45S W 530 FT, TH N 89 DEG 55M 15S E 445 FT, TH S 0 DEG 4M 45S E 122.5 FT, TH N 89 DEG 55M 15S E 320 FT, TH N 0 DEG 4M 45S W 62.5 FT, TH N 89 DEG 55M 15S E 125 FT, TH S 0 DEG 4M 45S E 538.5 FT, TH S 89 DEG 55M 15S W 249 FT, TH N 0 DEG 4M 45S W 16 FT, TH S 89 DEG 55M 15S W 295 FT, TH N 0 DEG 4M 45S W 52.5 FT, TH S 89 DEG 55M 15S W 346 FT TO POB DESCR IN OR BK 736 POS 1131 & 1134, OR BK 789 PG 391 & OR BK 800 PG 1239 -- 1988 LESS OUTS: LOT 1.1 OUT SEPARATE % MC DONALD'S -- SUBJ TO UTILITY EASE AGREE WITH CITRUS CO AS DESCR IN OR BK 2001 PG 1139 AND LESS LIFT STATION TO CITRUS COUNTY AS DESCR IN OR BK 2001 PG 1150

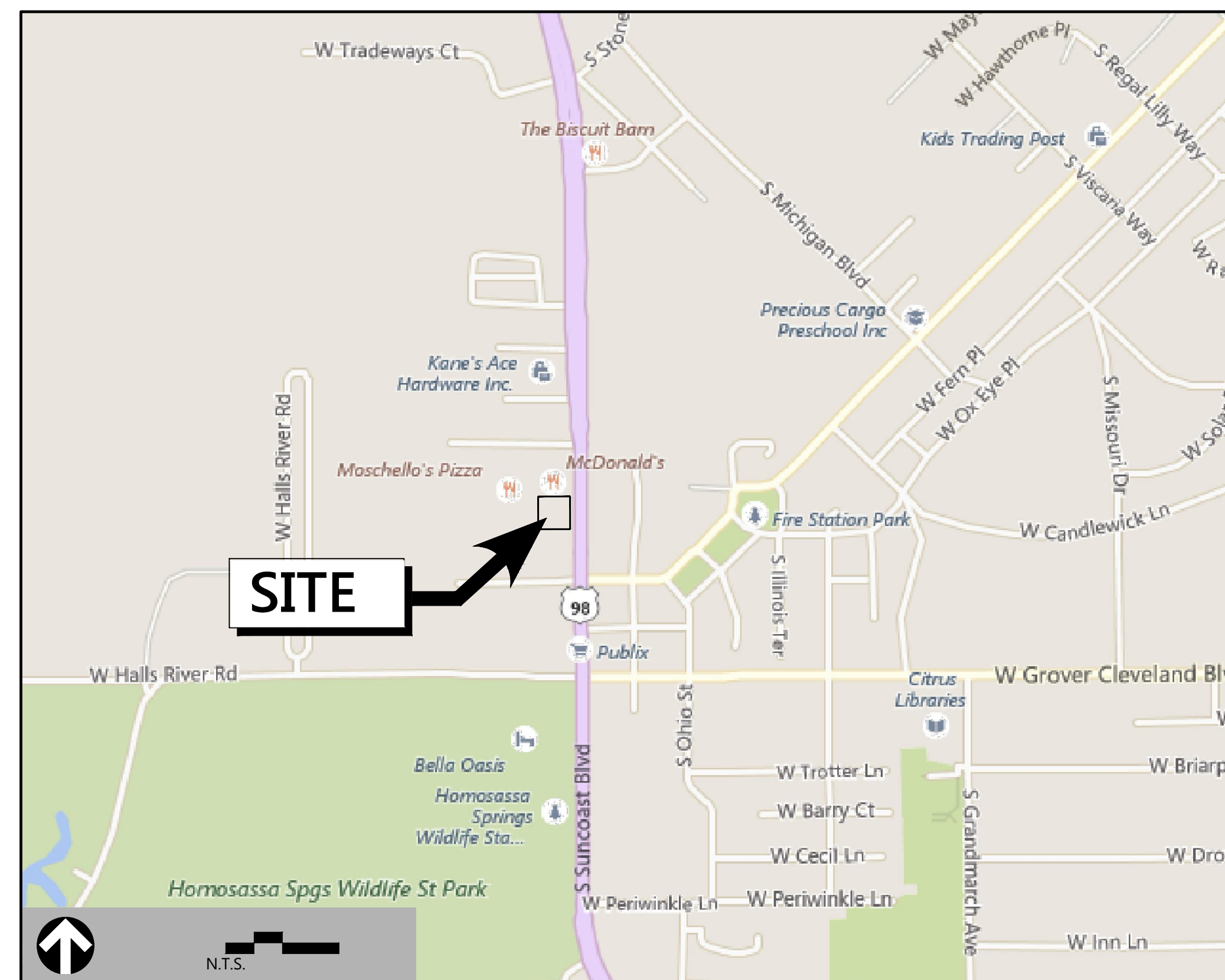
NOTES:

1. THE FDOT CONTRACTOR IS CURRENTLY USING THE EXISTING HEADWALL AND TREATMENT DITCH AS A TEMPORARY DRAINAGE OUTFALL FOR WORK ALONG US 19.
2. SITE CONTRACTOR TO COORDINATE ANY WORK IN THE EXISTING SOUTH DITCH, THE PROPOSED SOUTH DRIVE, AND FILLING IN OF THE AREA BETWEEN THE SOUTH DRIVEWAY AND US 19 SIDEWALK WITH FDOT CONSTRUCTION PRIOR TO ANY WORK BEING PERFORMED.

FDOT CONTACTS:

FRANK PROCH, CEI 352.503.9392
TYLER MATTHEWS, EI, FDOT CONSTRUCTION 0: 352.848.2653 C: 813.415.5617

3. SITE CONTRACTOR SHALL NOT INTERFERE WITH THE US 19 CONSTRUCTION WORK, THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DELAY CLAIMS BY THE US 19 CONTRACTOR.
4. IF THE SITE CONTRACTOR WANTS TO USE THE SOUTH CONSTRUCTION ENTRANCE WHILE THE TEMPORARY DRAINAGE OUTFALL IS BEING USED, A TEMPORARY PIPE MUST BE INSTALLED UNDER THE DRIVE TO MAINTAIN THE OUTFALL FOR THE US 19 CONSTRUCTION.



Sheet Index

No.	Drawing Title	Latest Issue
C1.0	Cover Sheet	June 2018
C2.0	Legend And General Notes	June 2018
C3.0-C3.1	Stormwater Pollution Prevention Plan	June 2018
C3.2	Stormwater Pollution Prevention Details	June 2018
C4.0-C4.1	Grading and Drainage Plan	June 2018
C5.0-C5.3	Pond and Drainage Details	June 2018

Reference Drawings

No.	Drawing Title	Latest Issue
SV1	Boundary & Topographic Survey	September 2017

Engineer:
VHB
225 E. Robinson St., Suite 300
Orlando, FL 32801
P 407.839.4006 · F 407.839.4008

Surveyor:
VHB
225 E. Robinson St., Suite 300
Orlando, FL 32801
P 407.839.4006 · F 407.839.4008

Geotech:
Test Lab, Inc.
4112 W Osborne Avenue
Tampa, FL 33614-6528
P 813.872.7821

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JOSEPH F. KOLB, JR.
STATE OF FLORIDA
PROFESSIONAL ENGINEER,
LICENSE NO. 41964



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Suite 300
Orlando, FL 32801
407.839.4006
Certificate of Authorization
Number FL #3932



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Legend	
See Erosion Control Details	
Symbol	Description
	INLET PROTECTION
	TYPE III SILT FENCE
	CONSTRUCTION ENTRANCE/EXIT
	TURBIDITY BARRIER

N



40 0 40 80
SCALE IN FEET

No.	Revision	Date	Appvd.
1	SWFWD Comments	12/27/17	JK
2	SWFWD Comments	09/30/17	JK
3	SWFWD Comments	08/02/17	JK
4	SWFWD Comments	04/25/17	JK

Designed by	SS	Drawn by	SS	Checked by	JK
GAD checked by	JK	Approved by	JK		
Scale	As Noted	Date	June 2018		

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida
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Datum NGVD 29
Drawing Title

Stormwater Pollution Prevention Plan

Drawing Number

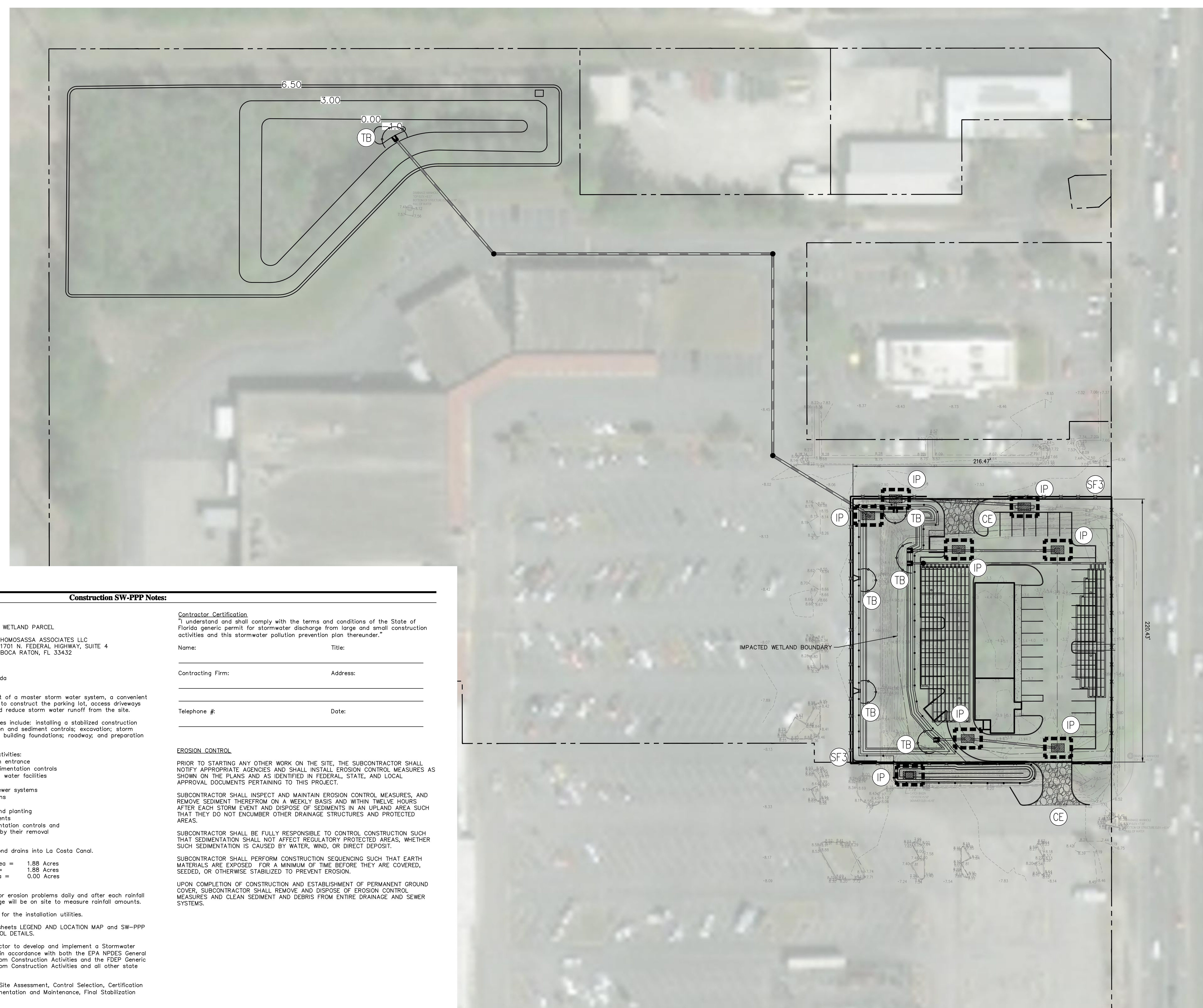
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C3.0

Sheet of

Joseph F. Kolb, Jr., State of Florida,
Professional Engineer, License No. 41964

Project Number
62480.00



Construction SW-PPP Notes:

DESCRIPTION

Project Name: HOMOSSASSA SPRINGS WETLAND PARCEL
Property Owner Name and Address: HOMOSSASSA ASSOCIATES LLC
1701 N. FEDERAL HIGHWAY, SUITE 4
BOCA RATON, FL 33432

Project Location: S22, T19S, R17E
Citrus County, Florida

Description: This project will consist of a master storm water system, a convenient store with gas pumps. The goal is to construct the parking lot, access driveways and utilities to serve the project and reduce storm water runoff from the site.

The types of soil disturbance activities include: installing a stabilized construction entrance, perimeter and other erosion and sediment controls; excavation; storm water facilities and grading; utilities; building foundations; roadway; and preparation for final planting and seeding.

Sequence of Major Soil Disturbing Activities:

- (1) Install stabilized construction entrance
- (2) Install area erosion and sedimentation controls
- (3) Clear/grub and grade storm water facilities
- (4) Stabilize denuded areas
- (5) Install utilities and storm sewer systems
- (6) Construct building foundations
- (7) Complete paving
- (8) Install permanent seeding and planting
- (9) Remove accumulated sediments
- (10) Remove erosion and sedimentation controls and stabilize any area disturbed by their removal

Outfall Location: Dry detention pond drains into La Costa Canal.

Area Estimates: Total Project Area = 1.88 Acres
Disturbed Area = 1.88 Acres
Undisturbed Area = 0.00 Acres

Construction site will be inspected for erosion problems daily and after each rainfall greater than 0.5 inches. A rain gage will be on site to measure rainfall amounts.

Dewatering activities not anticipated for the installation utilities.

For additional information, refer to sheets LEGEND AND LOCATION MAP and SW-PPP EROSION AND SEDIMENTATION CONTROL DETAILS.

It is the responsibility of the contractor to develop and implement a Stormwater Pollution Prevention Plan (SW-PPP) in accordance with both the EPA NPDES General Permit for Stormwater Discharges from Construction Activities and the FDEP Generic Permit for Stormwater Discharges from Construction Activities and all other state and local requirements.

A SW-PPP consists of Site Design, Site Assessment, Control Selection, Certification and Notification, Construction/Implementation and Maintenance, Final Stabilization and Termination.

The SW-PPP Site Map outlines the minimal requirements for installation of Temporary Erosion and Sedimentation Control where work is accomplished with the project. It is the contractor's responsibility to document field changes and implement control measures not shown on the Site Map or specifications.

Contractor Certification
I understand and shall comply with the terms and conditions of the State of Florida generic permit for stormwater discharge from large and small construction activities and this stormwater pollution prevention plan thereunder.

Name: _____ Title: _____
Contracting Firm: _____ Address: _____
Telephone #: _____ Date: _____

EROSION CONTROL

PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE SUBCONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

SUBCONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.

SUBCONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, SUBCONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

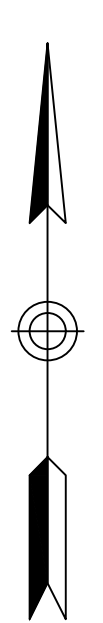


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Legend

See Erosion Control Details	
Symbol	Description
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	CONSTRUCTION ENTRANCE/EXIT
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N



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**Stormwater Pollution
Prevention Plan**

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Sheet of

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EROSION CONTROL

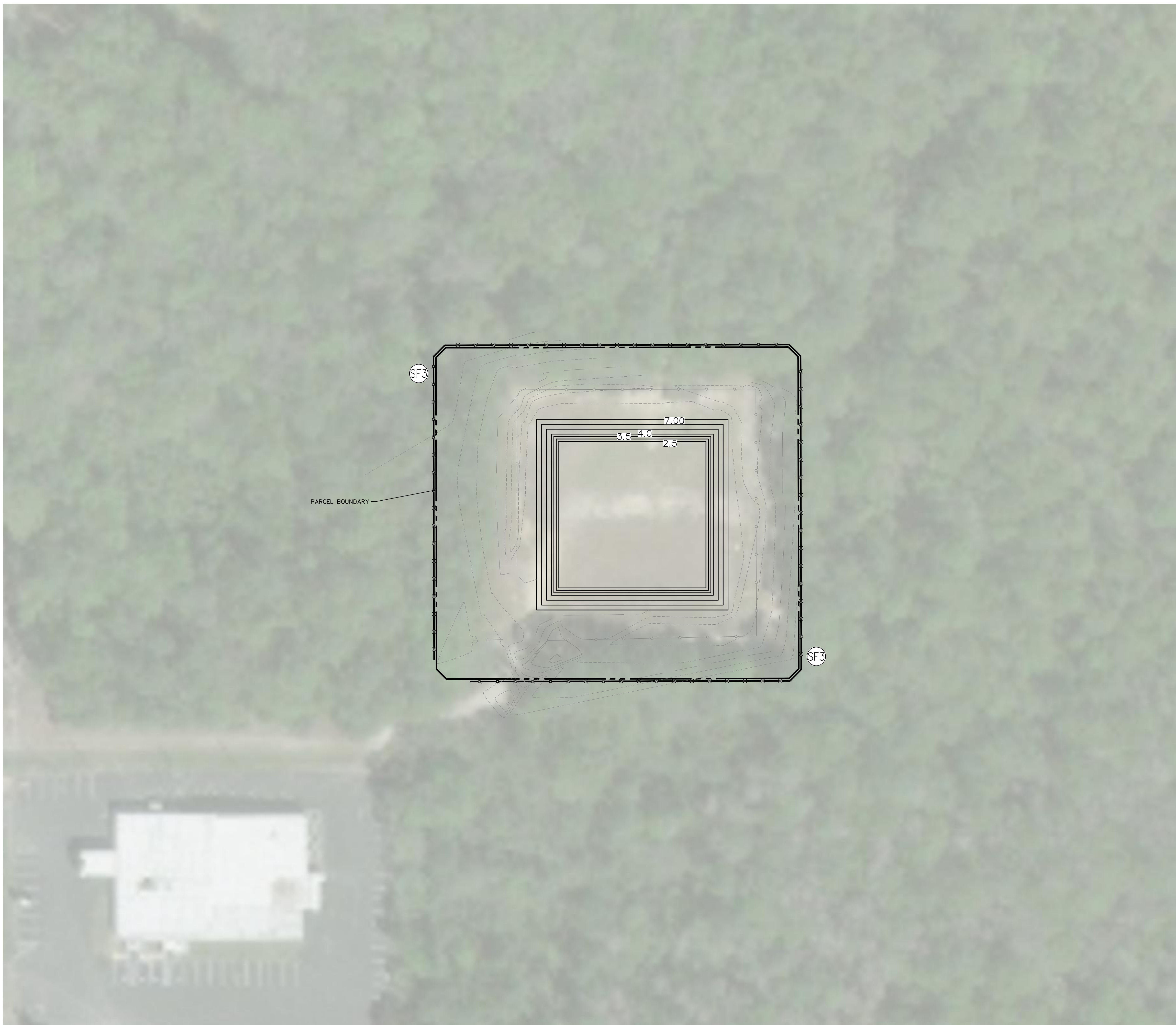
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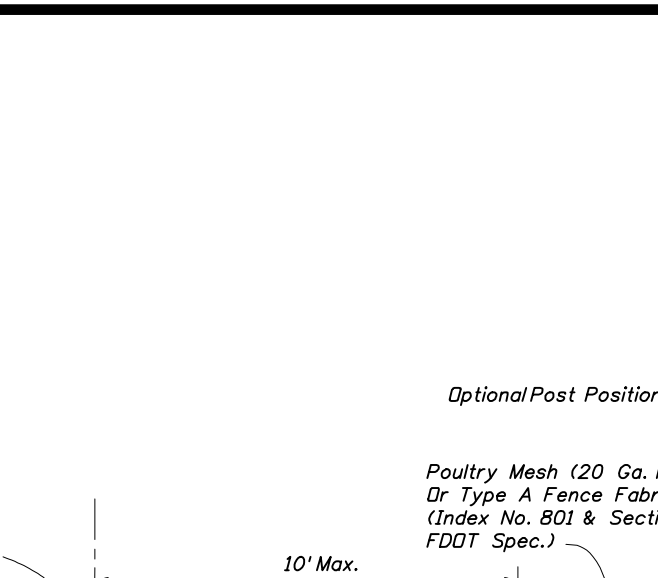
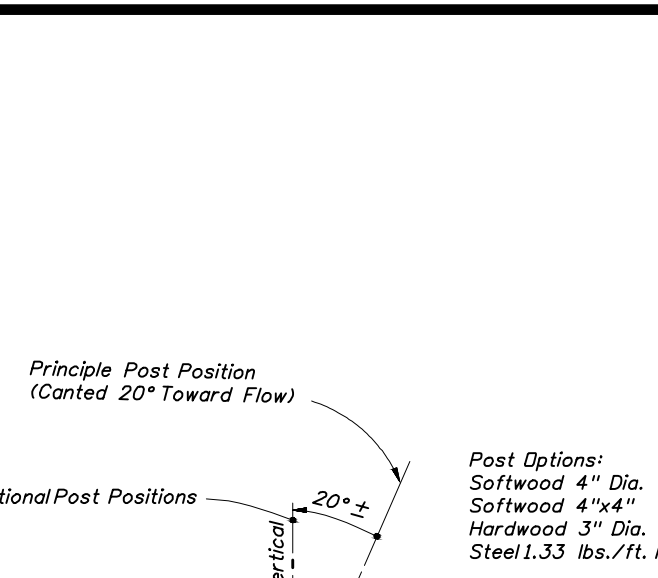
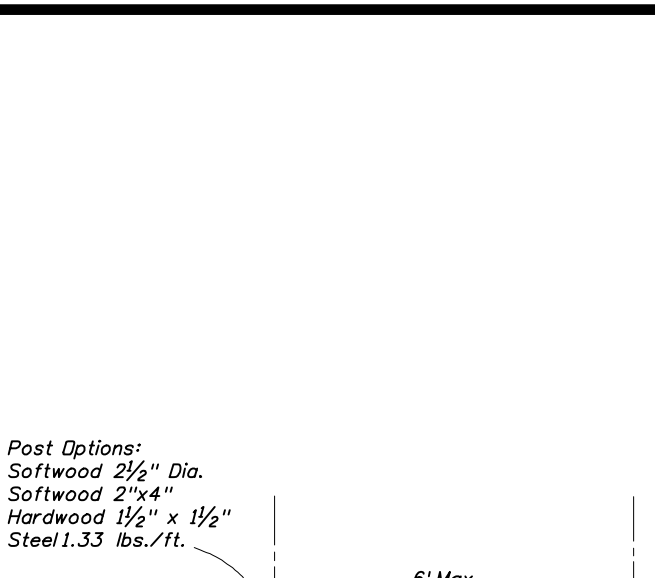
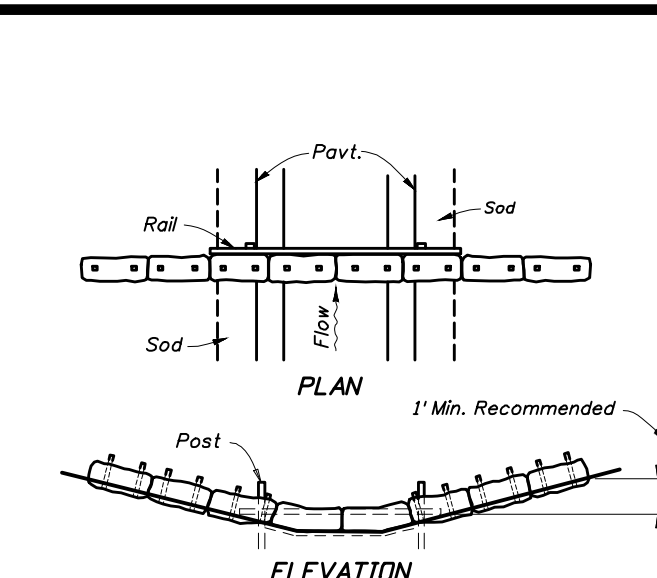
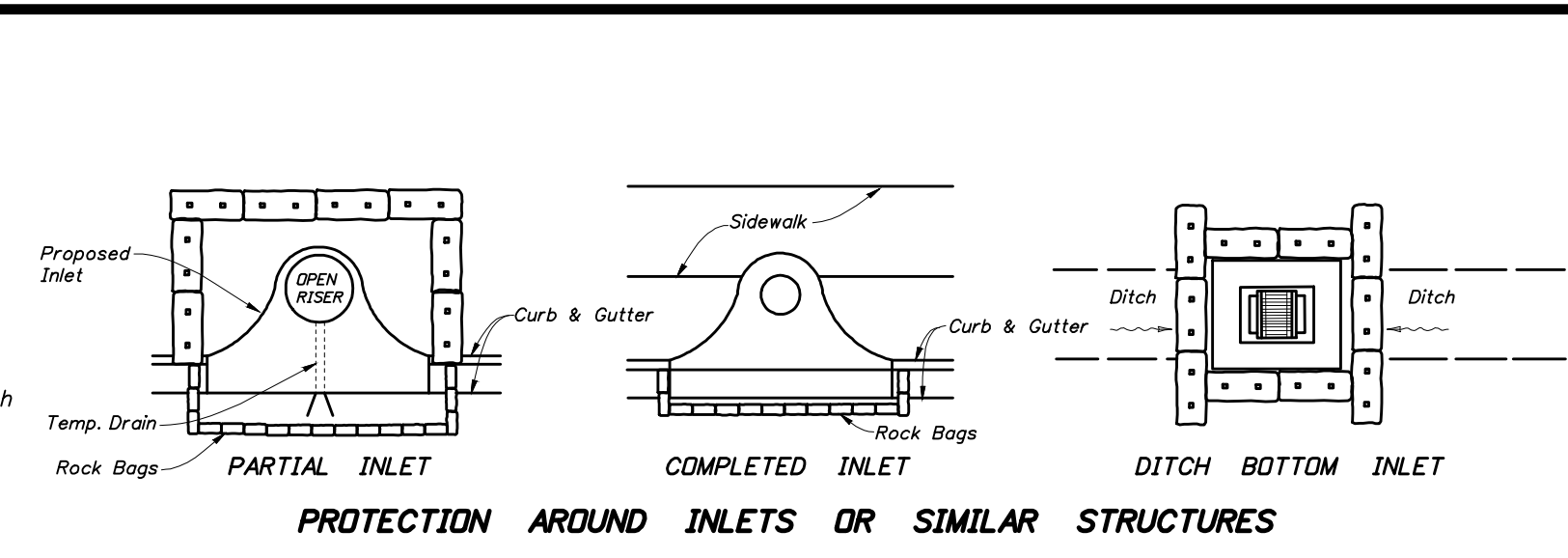
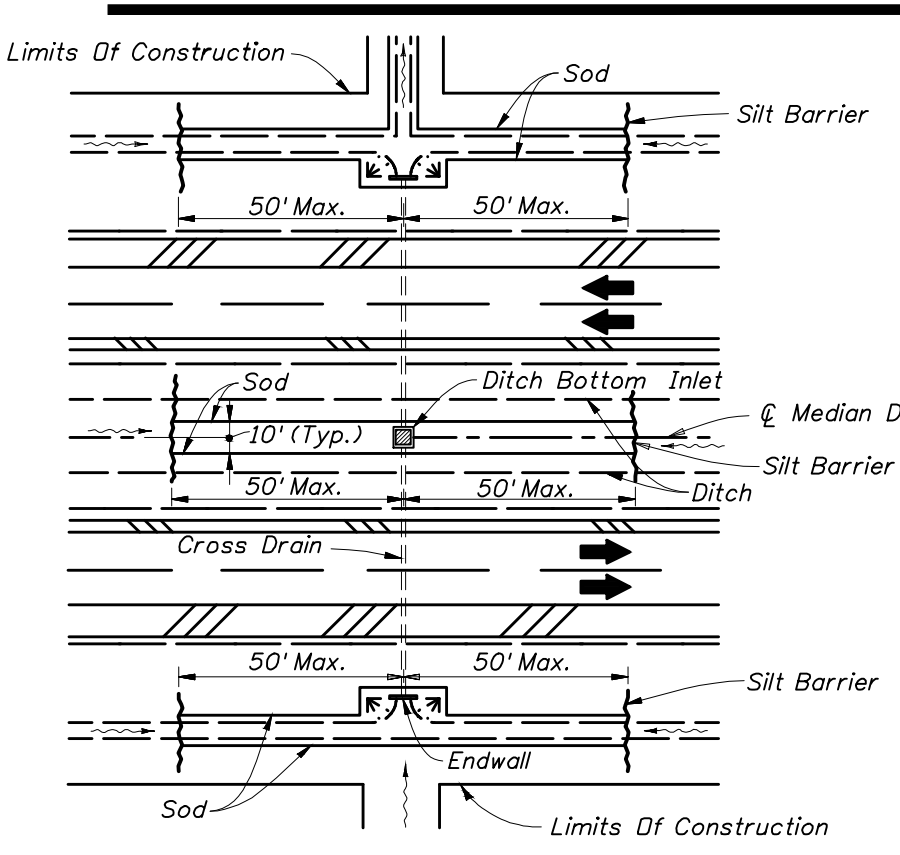
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DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

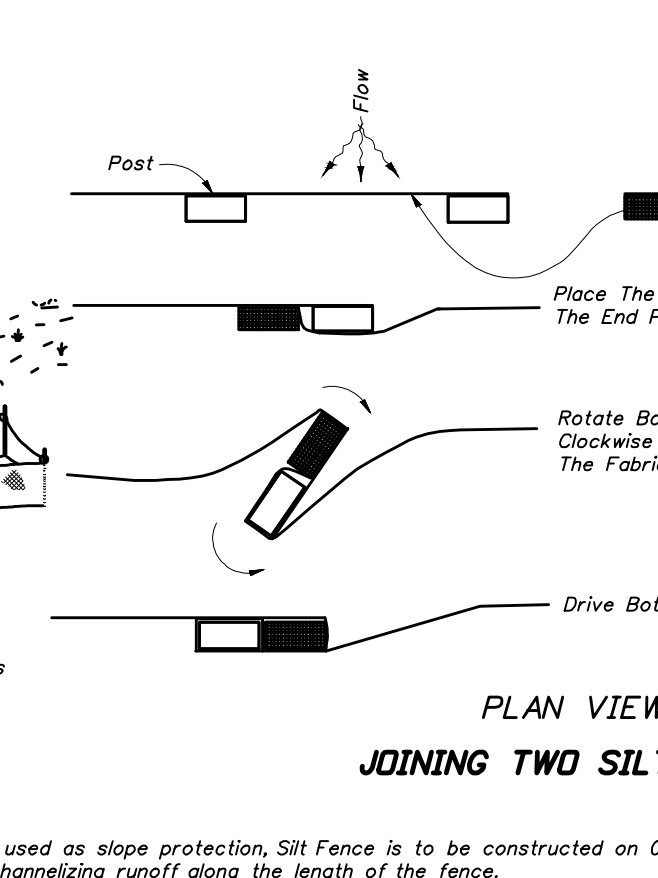
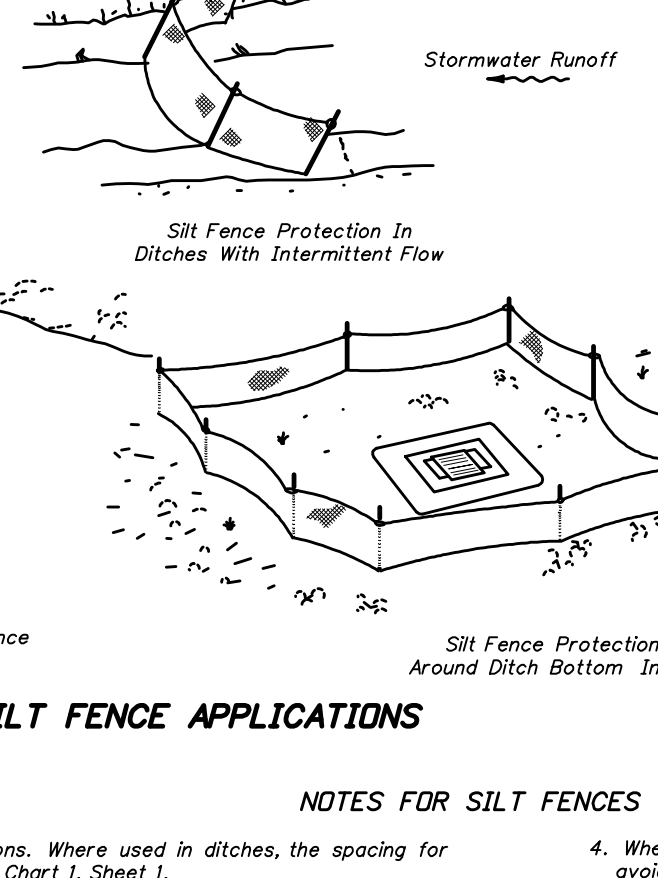
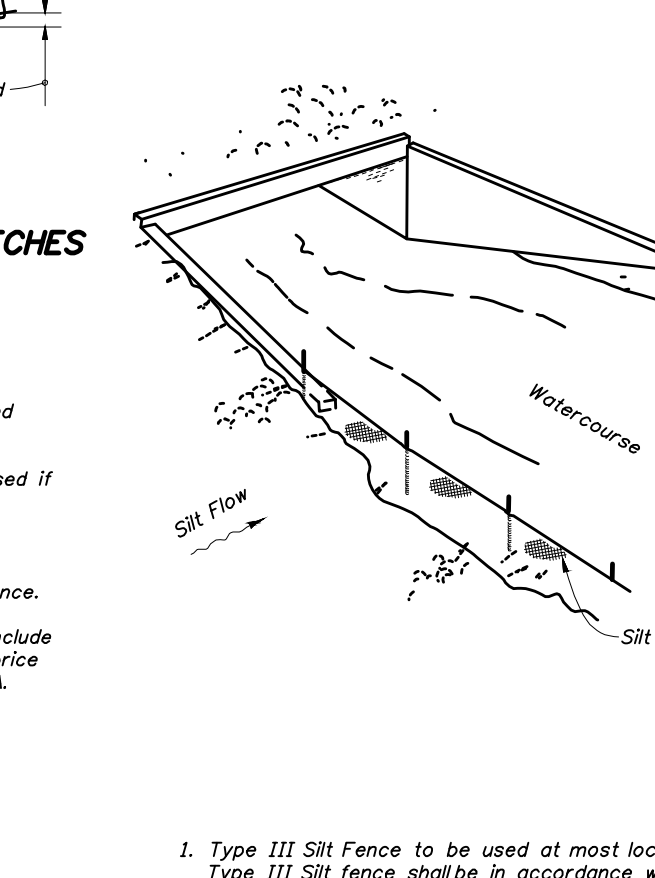
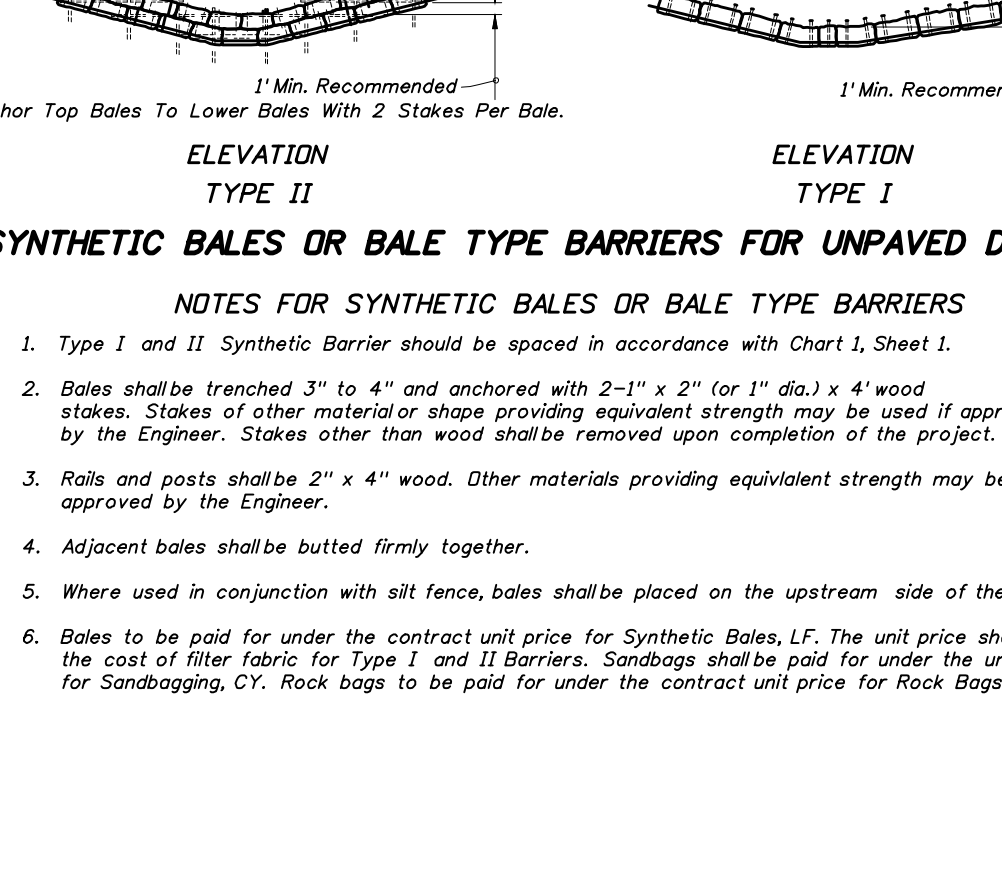
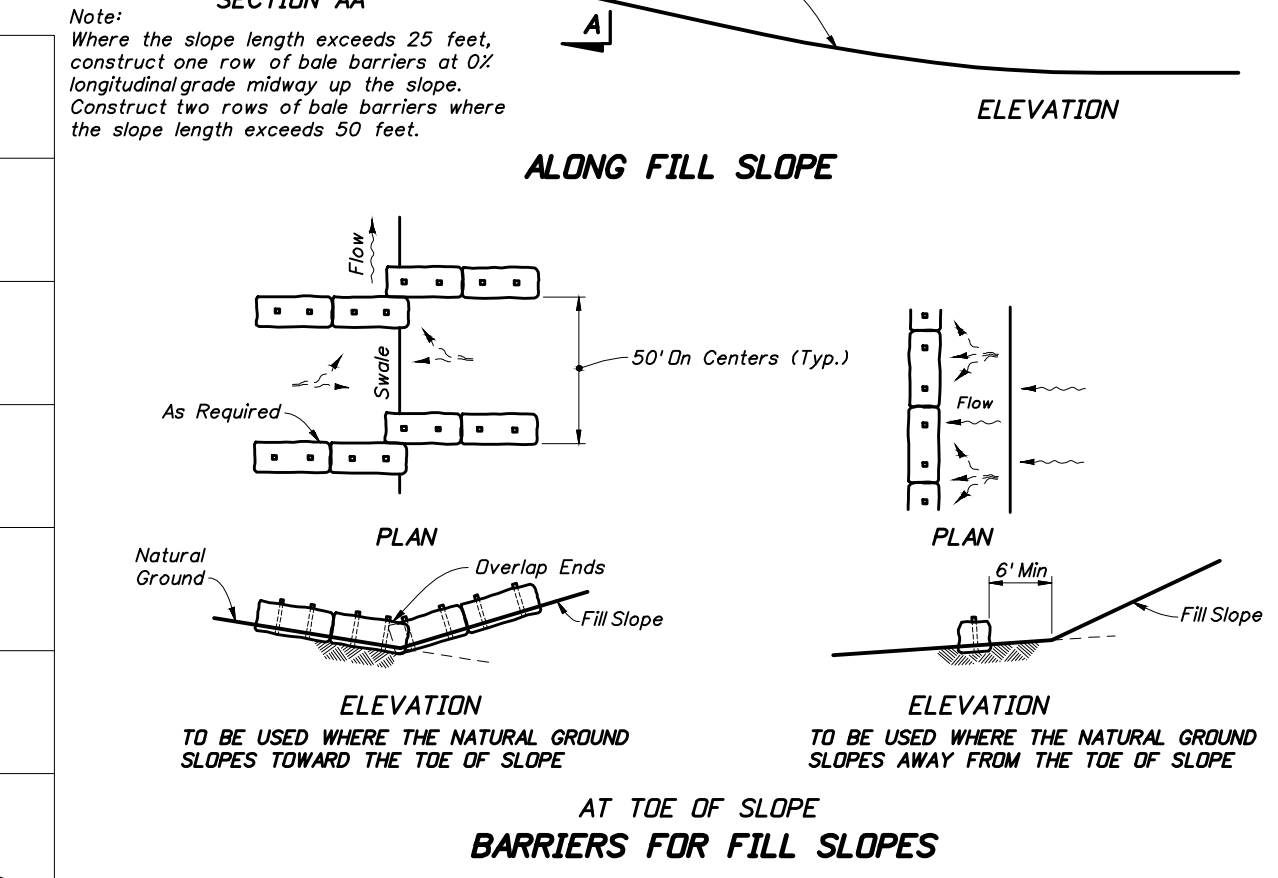
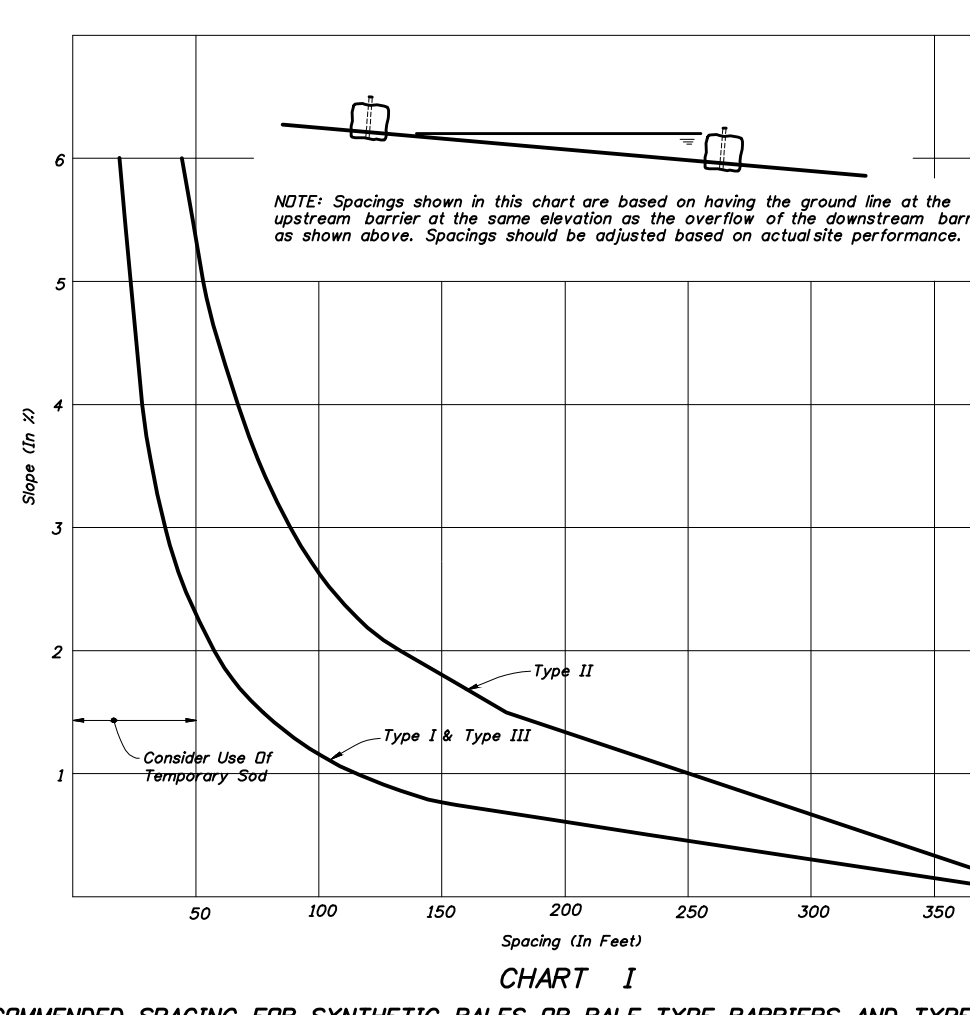
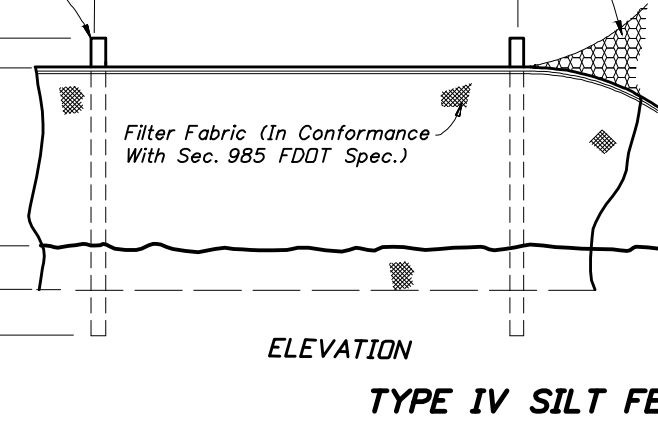
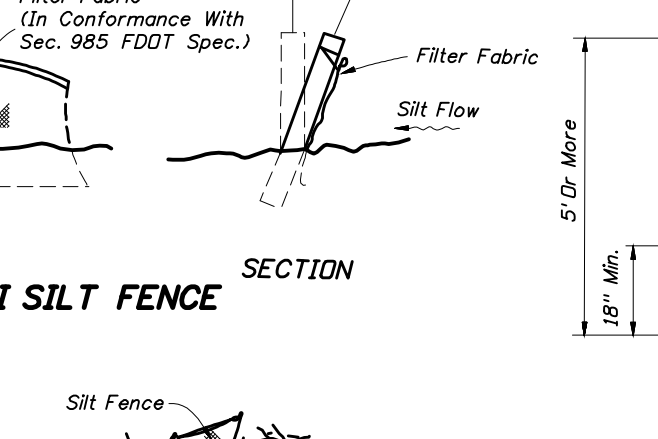
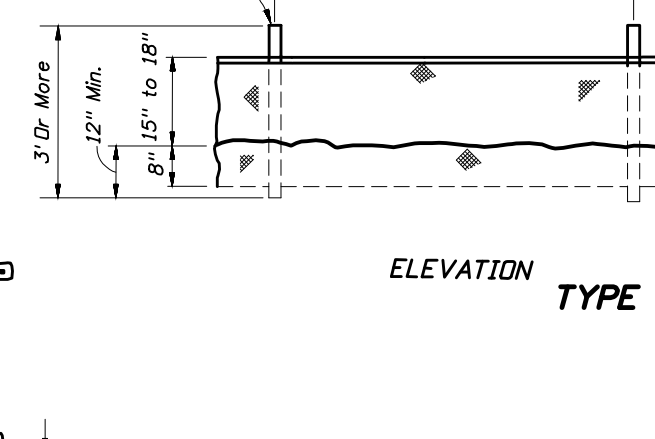
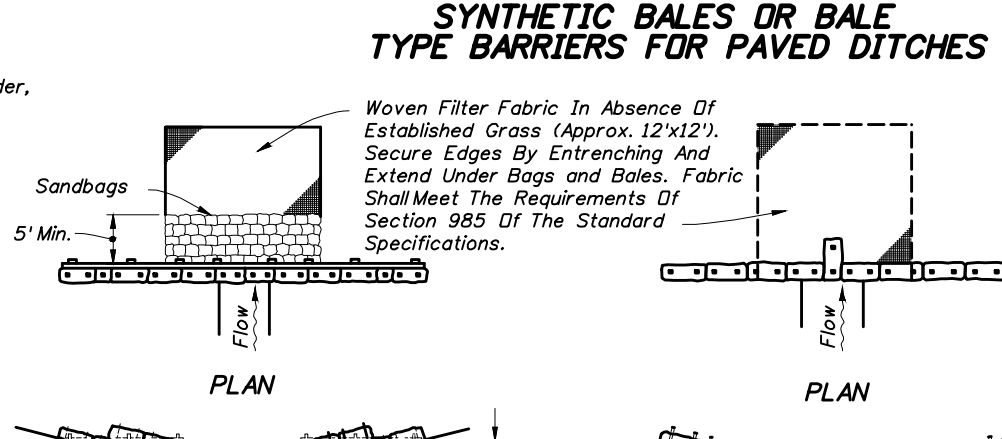
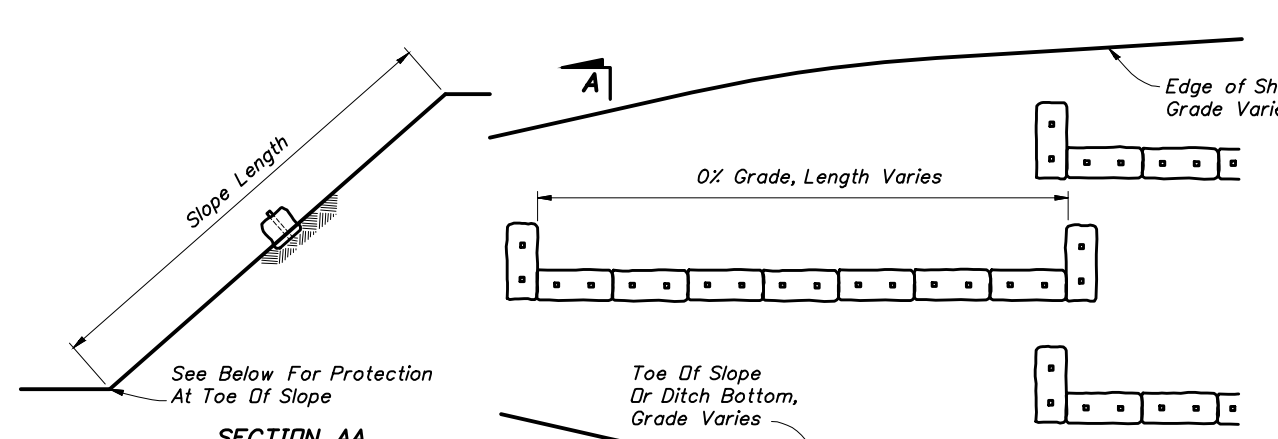


CHART I
RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCE

ALONG FILL SLOPE
AT TOE OF SLOPE

TYPE II
TYPE I

SILT FENCE APPLICATIONS

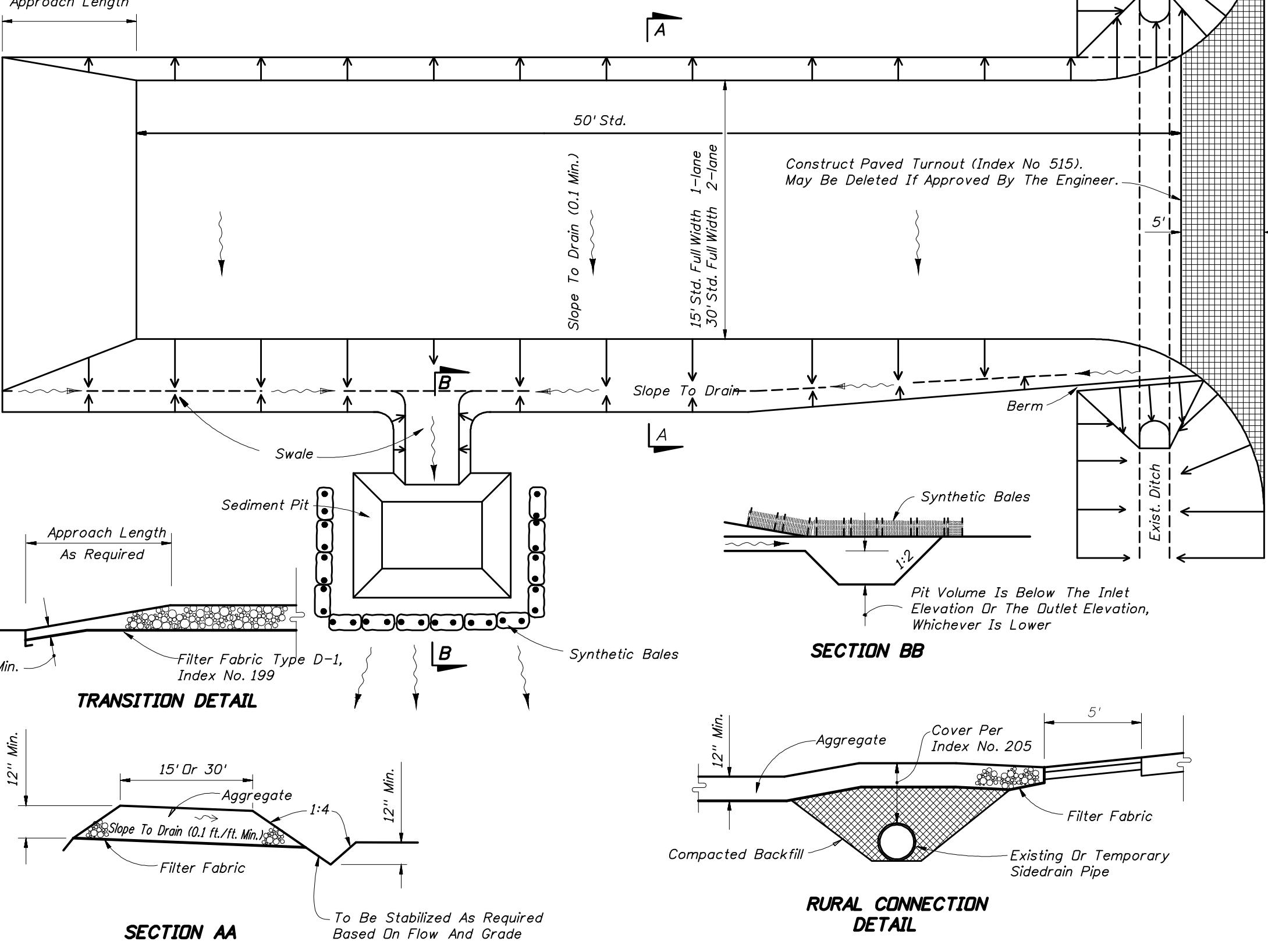
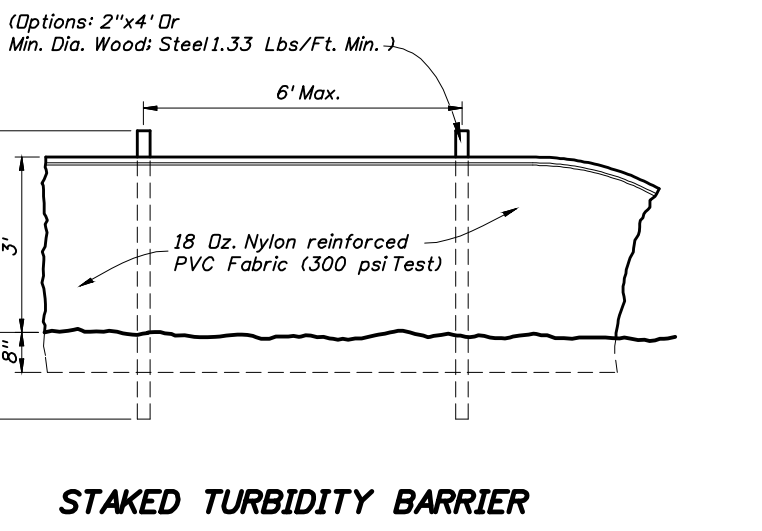
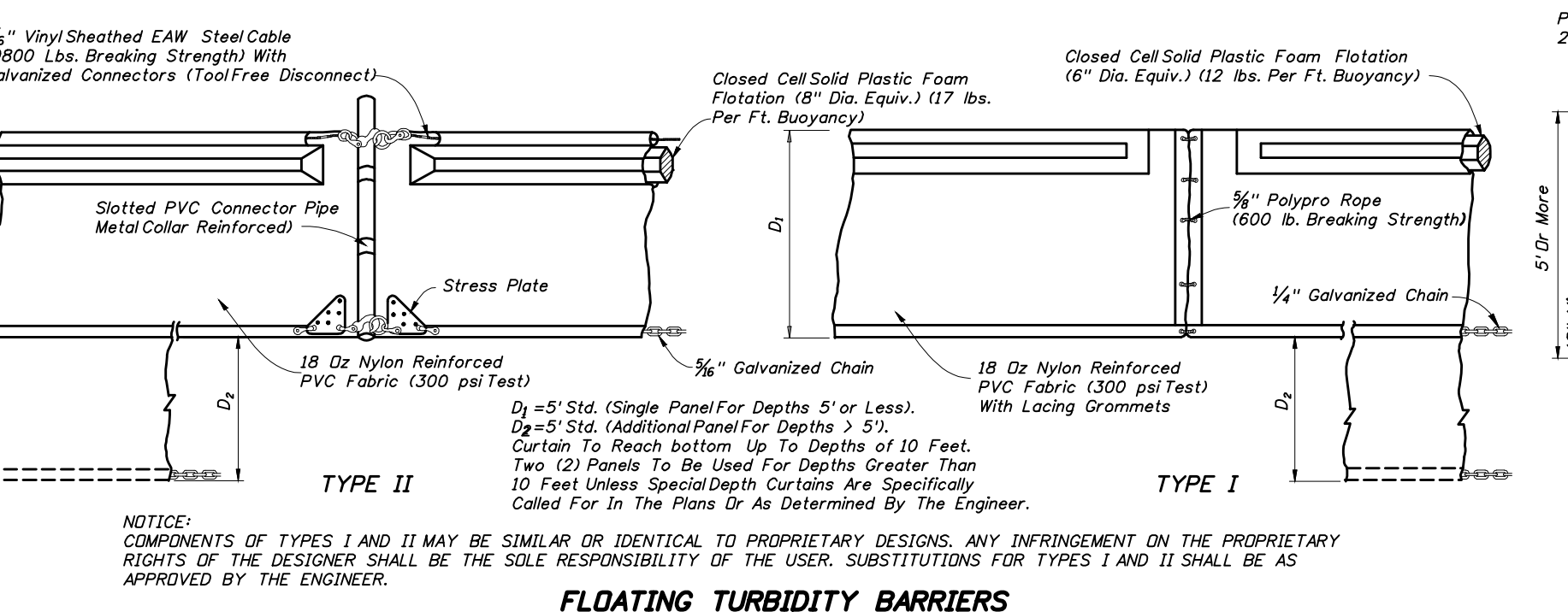
NOTES FOR SILT FENCES

JOINING TWO SILT FENCES

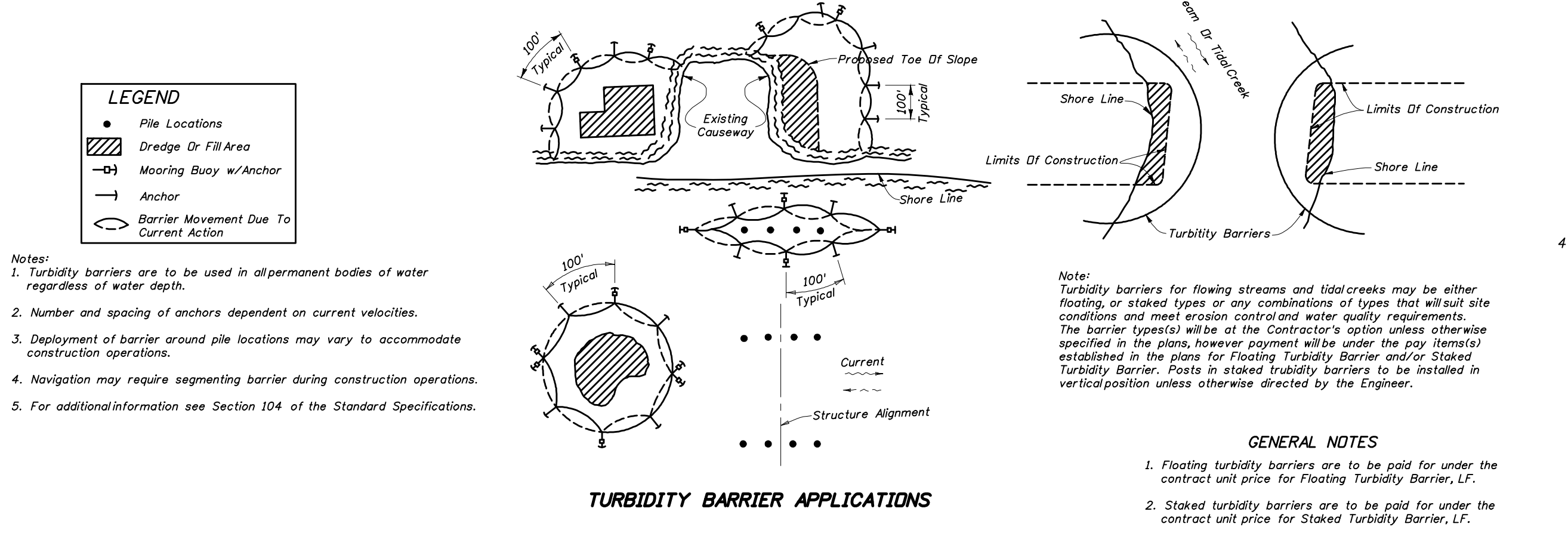
Temporary Erosion and Sediment Control

N.T.S.

Source: 2008 FDOT Index No. 102



- GENERAL NOTES**
- A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed through a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
 - The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
 - All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
 - Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
 - The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
15' x 50' x 100 ft.³ 30' x 50' x 200 ft.³
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
 - The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
 - Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
 - The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward through the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
 - A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD, including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
 - The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.



Turbidity Barriers

N.T.S.

Source: 2008 FDOT Index No. 103

Soil Tracking Prevention Device Type A

N.T.S.

Source: 2008 FDOT Index No. 106

No.	Revision	Date	Appvd.
1		12/27/17	JK
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Designed by: SS Drawn by: SS Checked by: JK
CAD checked by: JK Approved by: JK
Scale: N.T.S. Date: June 2018

Homosassa Square Outparcel
S. Suncoast Blvd. (U.S. 19)
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Citrus County, Florida

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Stormwater Pollution Prevention Details

Drawing Number

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C3.2

Sheet of

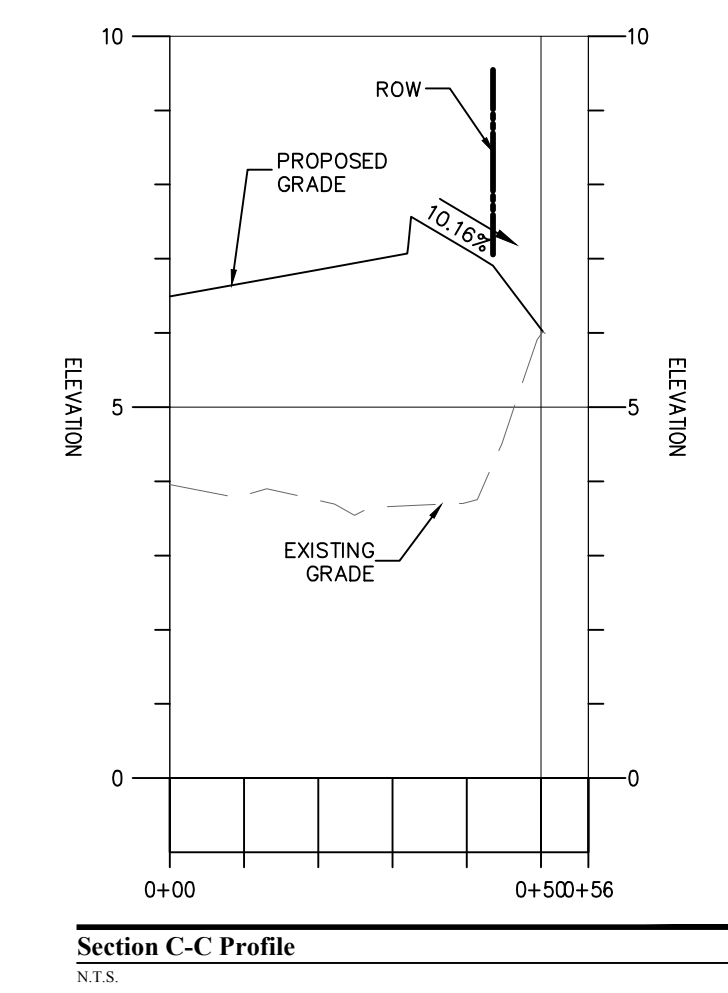
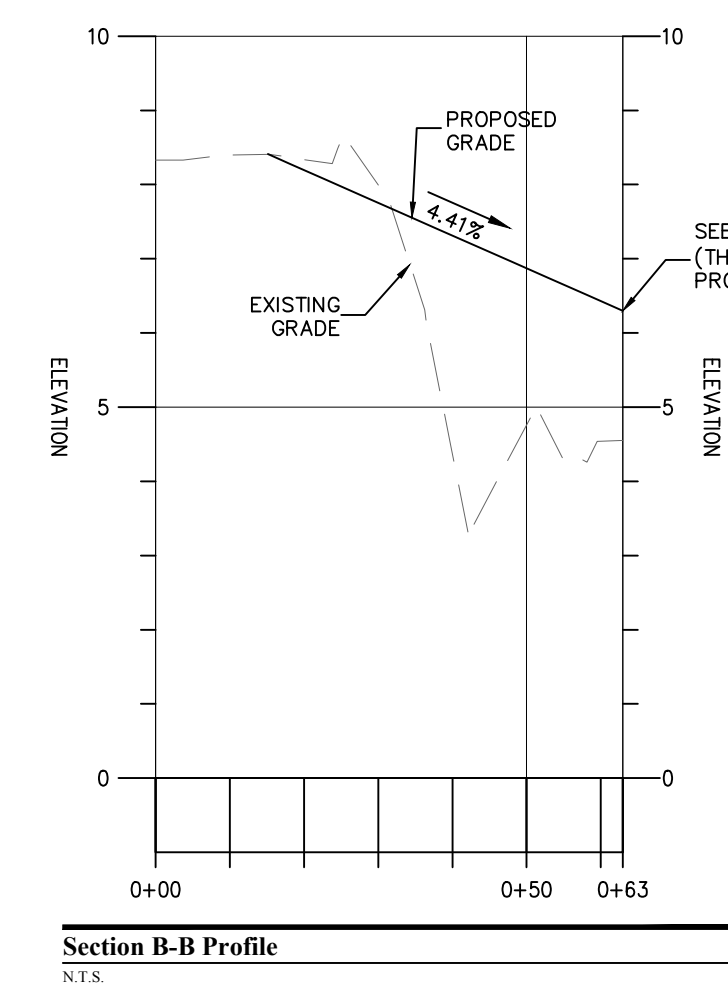
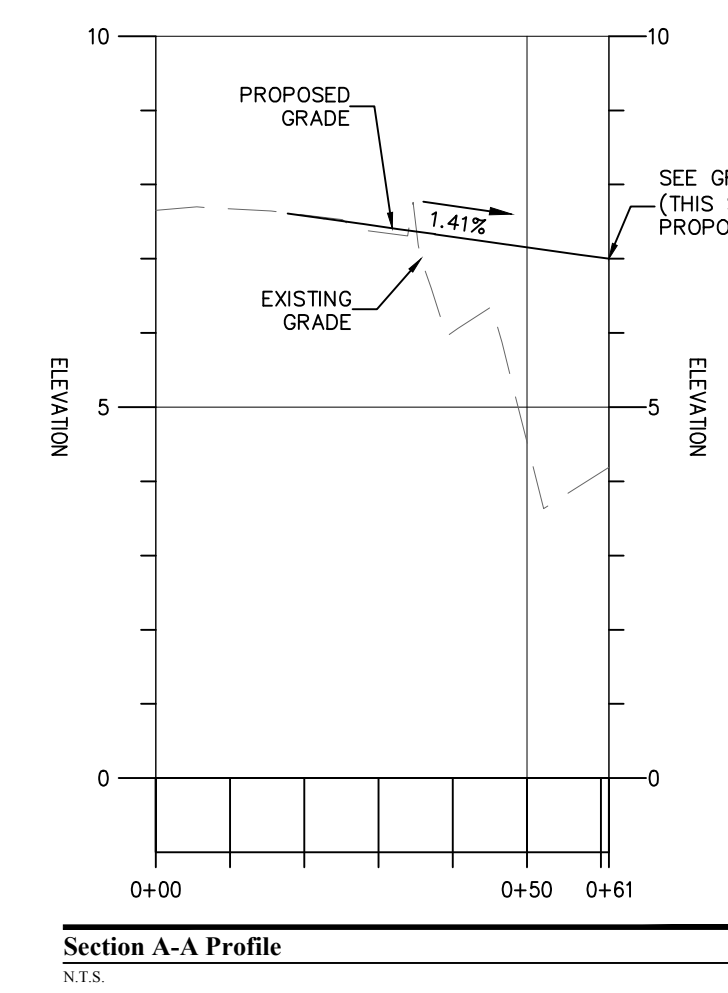
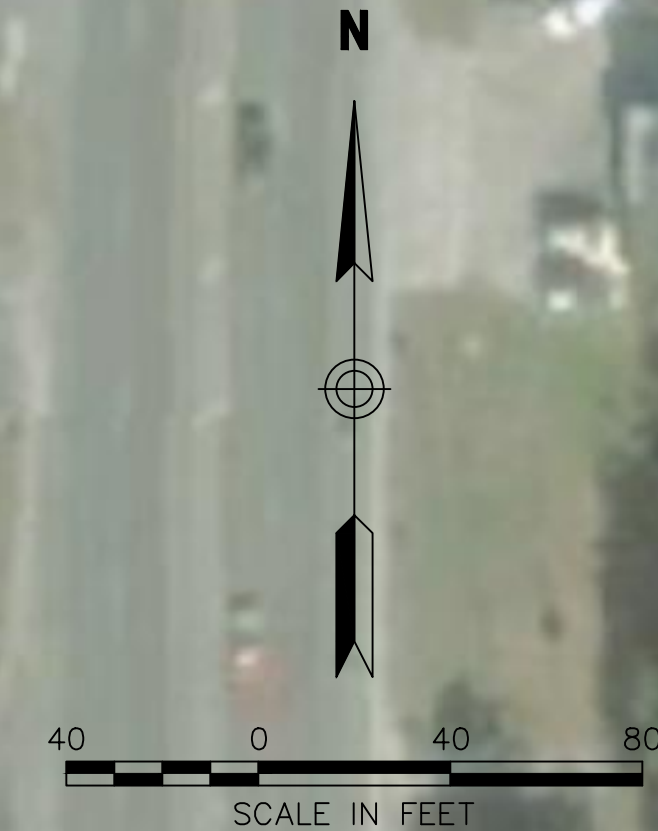
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TYLER MATTHEWS, EL FDOT CONSTRUCTION
0:352.848.2653 C:813.415.5617
3. SITE CONTRACTOR SHALL NOT INTERFERE WITH THE US 19 CONSTRUCTION WORK. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DELAY CLAIMS BY THE US 19 CONTRACTOR.
 4. IF THE SITE CONTRACTOR WANTS TO USE THE SOUTH CONSTRUCTION ENTRANCE WHILE THE TEMPORARY DRAINAGE OUTFALL IS BEING USED, A TEMPORARY PIPE MUST BE INSTALLED UNDER THE DRIVE TO MAINTAIN THE OUTFALL FOR THE US 19 CONSTRUCTION.



No.	Revision	Date	Appvd.
1	SWFWM Comments	12/27/17	JK
2	SWFWM Comments	09/30/17	JK
3	SWFWM Comments	08/02/17	JK
4	SWFWM Comments	04/25/17	JK

Designed by SS Drawn by SS Checked by JK
CAD checked by JK Approved by JK
Scale As Noted Date June 2018

Homosassa Square Outparcel S. Suncoast Blvd. (U.S. 19) & Homosassa Trail

Citrus County, Florida

Based for
Permit

Datum NGVD 29
Drawing Title

Grading & Drainage Plan

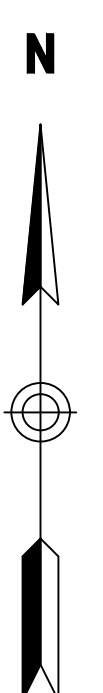
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Drawing Number
C4.0
Sheet of
Project Number
62480.00

Saved Wednesday, May 30, 2018 2:12:06 PM SSTEERS Plotted Wednesday, May 30, 2018 2:33:34 PM Steers, Shawn \\FL-001-PROJ\PROJECTS\62480.00 HOMOSSASSA WETLAND IMPACT\CAD\LD\PLANS\SET\62480.00 - 00



225 E. Robinson Street
Suite 300
Orlando, FL 32801
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F: 407.839.4008
Certificate of Authorization
Number FL #3932



Δ	SWFWMD Comments	12/27/17	JK
Δ	SWFWMD Comments	09/30/17	JK
Δ	SWFWMD Comments	08/02/17	JK
Δ	SWFWMD Comments	04/25/17	JK
No.	Revision	Date	Appvd.
Designed by	SS	Drawn by	SS
		Checked by	JK
CAD checked by	JK	Approved by	JK
Scale	As Noted	Date	June 2018

**Homosassa Square Outparcel
S. Suncoast Blvd. (U.S. 19)
& Homosassa Trail**

Citrus County, Florida

Issued for
Permit

Datum NGVD 29
Drawing Title

**Grading & Drainage
Plan**

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Number FL #3932

NOTE:
DETAILS ON THIS SHEET ARE NOT TO BE USED INSIDE FDOT RIGHT-OF-WAY

GENERAL NOTES

- These inlets are designed for use in ditches, medians, pavement areas, or other areas subject to heavy wheel loads, minimal debris, and bicycle traffic. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. When inlet is placed in areas subject to bicycle traffic, install filter bar when clearance or gap is greater than 1" as shown in Index 218 Inset B.
- When Alternate G grate is specified in plans, the grate is to be hot dip galvanized after fabrication.
- These inlets may be used with Alternate B structure bottoms, Index 200. The inlet and bottom combinations are to be paid for under the contract unit price for inlets (see Note 2) Type F or G (i.e. See, Depth), Eo.
- All exposed edges and corners shall be 3/4" chamfer or tool to 1/2" radius.
- For supplemental details, see Index 201.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening, as shown.
- All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

RECOMMENDED MAXIMUM PIPE SIZES

INLET INSIDE WIDTH	PIPE SIZE
2'-0" (Type F)	18"
4'-0" (Type F)	30"
4'-10" / 5'-0" (Type G)	42"

TYPE F INLET (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (sq/ft)	MAX. SPACING BARS	WWF
4'-0"	A12	0.20	12"	6"
4'-7"	A6	0.20	6"	5"
7'-12"	B5.5	0.24	5 1/2"	5"
12'-15"	Special I	0.267	5"	4"

TYPE G INLET (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (sq/ft)	MAX. SPACING BARS	WWF
4'-0"	A12	0.20	12"	6"
7'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

PAVEMENT AND SODDING

Notes:
1. Pavement and/or sod to be used only where called for in the plans.
2. Cost of paving to be included in cost of inlet.

FDOT FY 2017-18 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES F AND G

INDEX NO. 233 SHEET NO. 1 of 2

GENERAL NOTES

- These inlets are designed for use in ditches, medians, pavement areas, or other areas subject to heavy wheel loads, minimal debris, and bicycle traffic. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. When inlet is placed in areas subject to bicycle traffic, install filter bar when clearance or gap is greater than 1" as shown in Index 218 Inset B.
- When Alternate G grate is specified in plans, the grate is to be hot dip galvanized after fabrication.
- These inlets may be used with Alternate B structure bottoms, Index 200. The inlet and bottom combinations are to be paid for under the contract unit price for inlets (see Note 2) Type F or G (i.e. See, Depth), Eo.
- All exposed edges and corners shall be 3/4" chamfer or tool to 1/2" radius.
- For supplemental details, see Index 201.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening, as shown.
- All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

RECOMMENDED MAXIMUM PIPE SIZES

INLET INSIDE WIDTH	PIPE SIZE
2'-0" (Type F)	18"
4'-0" (Type F)	30"
4'-10" / 5'-0" (Type G)	42"

TYPE G INLET (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (sq/ft)	MAX. SPACING BARS	WWF
4'-0"	A12	0.20	12"	6"
7'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

PAVEMENT AND SODDING

Notes:
1. Pavement and/or sod to be used only where called for in the plans.
2. Cost of paving to be included in cost of inlet.

FDOT FY 2017-18 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES F AND G

INDEX NO. 233 SHEET NO. 2 of 2

DIMENSIONS AND QUANTITIES

D	X	A	B	C	E	F	G	H	5 1/2" CONCRETE SLAB (CY)				SODDING (SY)								
									Single	Double	Triple	Quart.	Single	Double	Triple	Quart.					
15'	2'-2"	1.92	2.18	4.10	2.06	5'	1.22	2.29	4.67	7.21	9.79	12.37	1.19	0.38	0.58	0.77	0.96	21	24	27	30
18'	2'-10"	1.59	2.14	3.56	1.41	3.4	4.8	7.38	10.58	13.44	17.1	21.44	0.84	0.65	0.87	1.09	1.31	22	25	28	31
20'	3'-5"	2.00	2.85	5.91	1.56	7'	1.73	3.4	5.59	8.92	12.33	15.75	1.25	0.54	0.83	1.12	1.49	24	28	32	35
30'	4'-1"	2.19	4.88	7.10	4.56	8'	2.00	3.4	6.09	10.19	14.58	18.87	1.29	0.66	1.09	1.50	1.91	26	31	35	40
42'	5'-1"	2.28	6.08	6.33	5.56	9'	2.28	3.4	6.67	11.59	16.83	21.92	1.32	0.81	1.30	1.85	2.31	28	34	39	45
48'	6'-0"	2.34	7.21	6.55	6.56	10'	2.49	3.4	7.21	12.75	18.29	25.29	1.38	0.97	1.70	2.45	3.19	30	37	43	50
54'	7'-0"	2.43	8.32	10.76	7.56	11'	2.69	3.4	7.83	14.58	21.33	28.68	1.42	1.13	2.04	2.93	3.84	32	39	47	54
60'	7'-8"	2.52	9.44	11.96	8.56	12'	2.87	3.4	8.47	16.08	23.75	31.42	1.46	1.31	2.44	3.58	4.72	34	42	51	59
66'	8'-0"	2.62	10.56	13.19	9.56	14'	3.09	3.4	9.09	17.58	26.09	34.50	1.50	1.51	2.89	4.26	5.68	36	45	55	64
66'	9'-2"	2.71	11.68	14.39	10.56	15'	3.18	4.4	9.59	18.75	27.92	37.09	1.54	1.68	3.25	4.84	6.41	38	48	58	68
72'	10'-0"	2.80	12.80	15.60	11.56	16'	3.30	4.4	10.18	20.18	30.16	40.16	1.58	1.89	3.74	5.59	7.45	40	51	62	72
72'	10'-2"	2.89	13.92	16.80	12.56	18'	3.52	4.4	10.79	21.59	32.39	42.39	1.62	2.07	4.15	6.14	8.23	42	54	66	78
78'	11'-0"	2.98	15.04	18.00	13.56	19'	3.64	4.4	11.40	23.00	34.59	44.59	1.66	2.22	4.45	6.54	8.73	44	57	70	83
84'	12'-0"	3.07	16.16	19.16	14.56	20'	3.76	4.4	12.01	24.40	36.79	46.79	1.70	2.39	4.78	6.93	9.18	46	60	74	88
90'	13'-0"	3.16	17.28	20.28	15.56	22'	3.98	4.4	12.62	25.80	38.99	48.99	1.74	2.59	5.17	7.38	9.67	48	63	78	93
96'	14'-0"	3.25	18.40	21.38	16.56	24'	4.19	4.4	13.23	27.20	41.19	51.19	1.78	2.80	5.56	7.83	10.12	50	66	82	98
102'	15'-0"	3.34	19.52	22.48	17.56	26'	4.41	4.4	13.84	28.60	43.39	53.39	1.82	3.01	5.94	8.12	10.41	52	69	86	103
108'	16'-0"	3.43	20.64	23.58	18.56	28'	4.62	4.4	14.45	30.00	45.59	55.59	1.86	3.22	6.32	8.37	10.70	54	72	90	108
114'	17'-0"	3.52	21.76	24.68	19.56	30'	4.84	4.4	15.06	31.40	47.79	57.79	1.90	3.43	6.70	8.64	11.00	56	75	94	113
120'	18'-0"	3.61	22.88	25.78	20.56	32'	5.05	4.4	15.67	32.80	49.99	59.99	1.94	3.64	7.08	8.96	11.30	58	78	98	118

MANHOLE COVERS

STRUCTURE TOPS

MANHOLE FRAME & COVER FOR USE IN PRIVATE PROPERTY:
U. S. F. 420G-(S. W.) OR APPROVED EQUAL

NOTES (TOPS, FRAMES, AND COVER)

- ALL STEEL BARS SHALL HAVE 1 1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED.
- MANHOLE TOP TYPE 7 SLABS SHALL BE OF CLASS II CONCRETE. CONCRETE AS SPECIFIED IN ASTM C-478 MAY BE USED FOR PRECAST UNITS; SEE GENERAL NOTE NO. 2.
- MANHOLE TOP TYPE 7 SLABS MAY BE OF CAST-IN-PLACE OR AND IN LIEU OF DWELS. FRAME AND SLAB OPENINGS ARE TO BE OMITTED WHEN TOP IS USED OVER A JUNCTION BOX. FRAMES CAN BE ADJUSTED WITH FROM ONE TO SIX COURSES OF BRICK.
- MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST PRECAST CONSTRUCTION. THE OPTIONAL KEY IS FOR PRECAST TOPS CONCRETE CONSTRUCTION. FOR CONCRETE CONSTRUCTION, THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT. AN ECCENTRIC CONE MAY BE USED.
- MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS.
- ALL MANHOLES AND INLET LIDS SHALL BE RATED HEAVY DUTY.

FDOT FY 2017-18 DESIGN STANDARDS

CROSS DRAIN MITERED END SECTION

INDEX NO. 272 SHEET NO. 1 of 6

Manhole Frame and Cover

FDOT INDEX 201

SWFWD Comments	Date	Appr.
SWFWD Comments	12/27/17	JK
SWFWD Comments	09/30/17	JK
SWFWD Comments	08/02/17	JK
SWFWD Comments	04/25/17	JK

Designed by SS Drawn by SS Checked by JK
CAD checked by JK Approved by JK
Scale: N.T.S. Date: June 2018

**Homosassa Square Outparcel
S. Suncoast Blvd. (U.S. 19)
& Homosassa Trail**

Citrus County, Florida
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**Pond and Drainage
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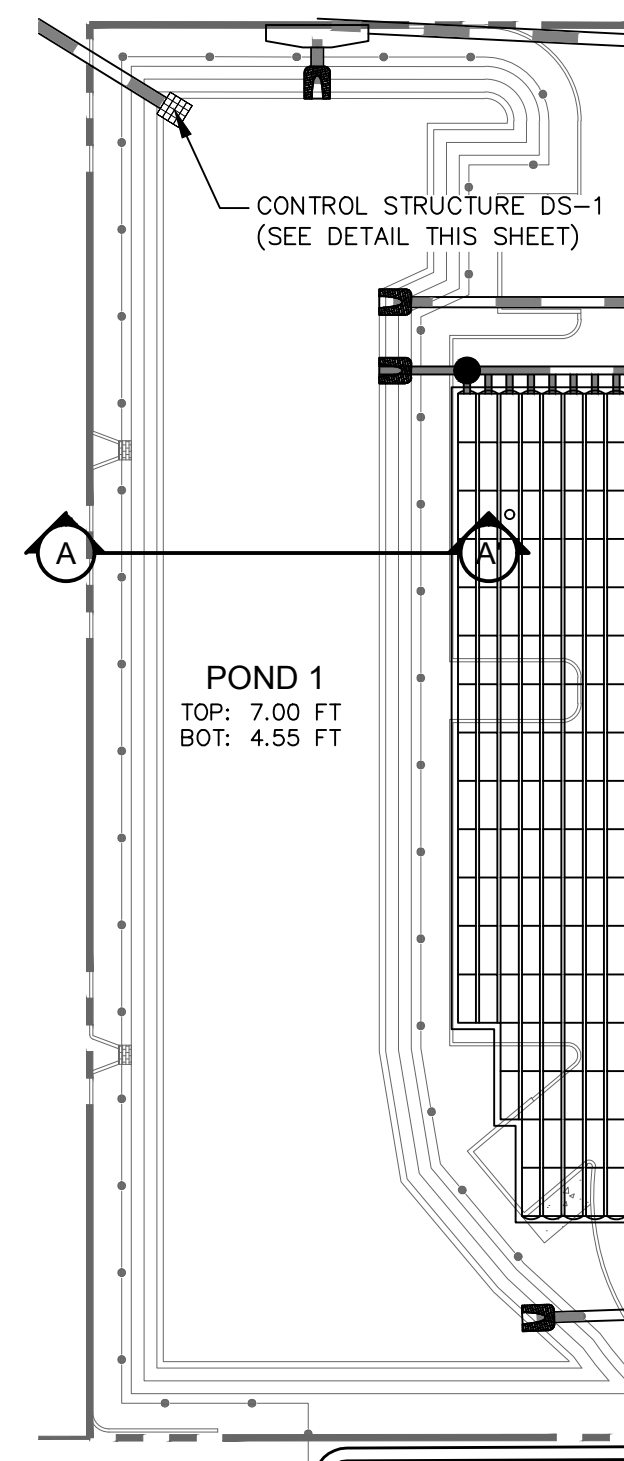
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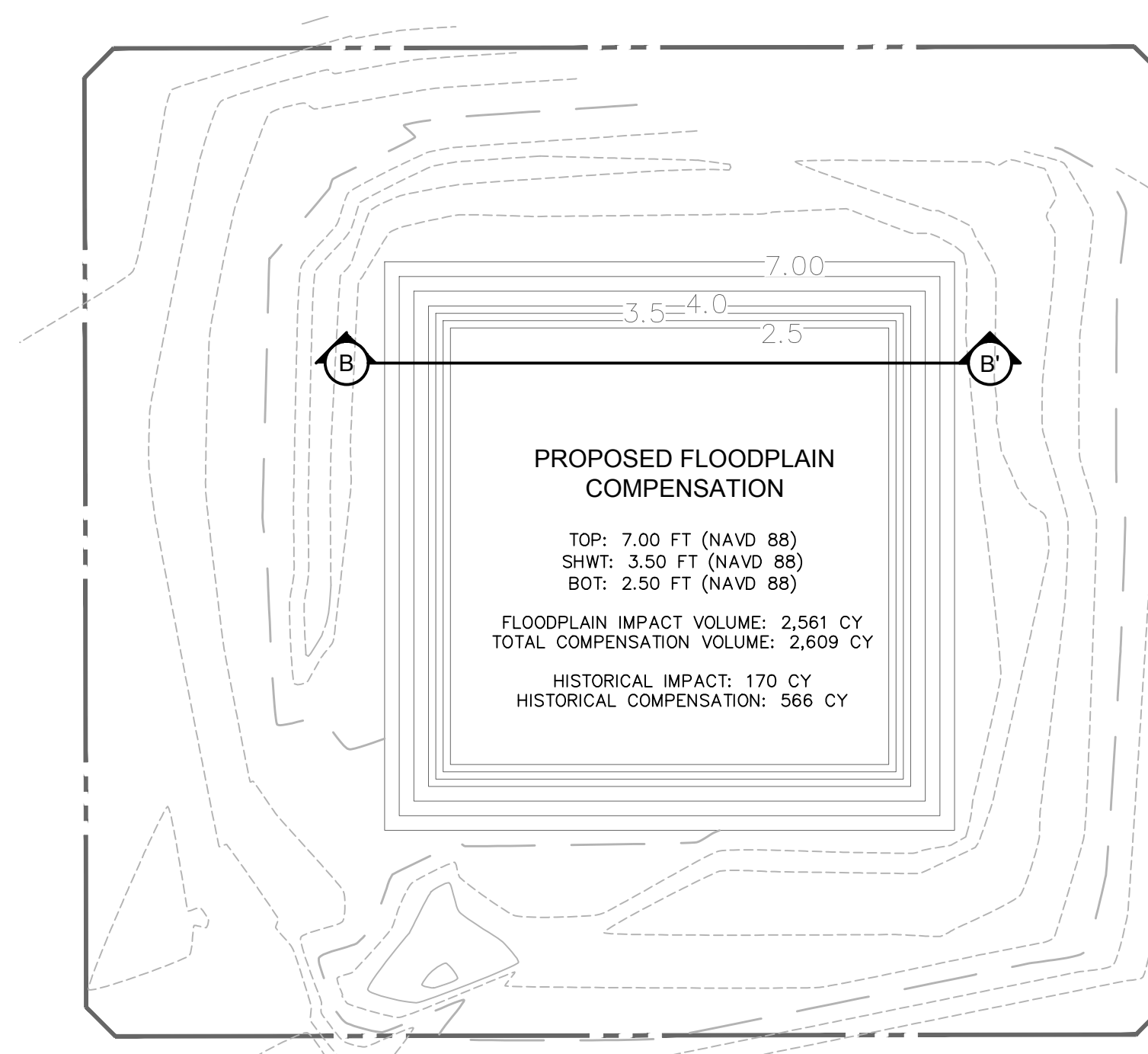
NOTE:
DETAILS ON THIS SHEET ARE NOT TO BE USED INSIDE FDOT RIGHT-OF-WAY



Pond 1 Plan Layout

2016

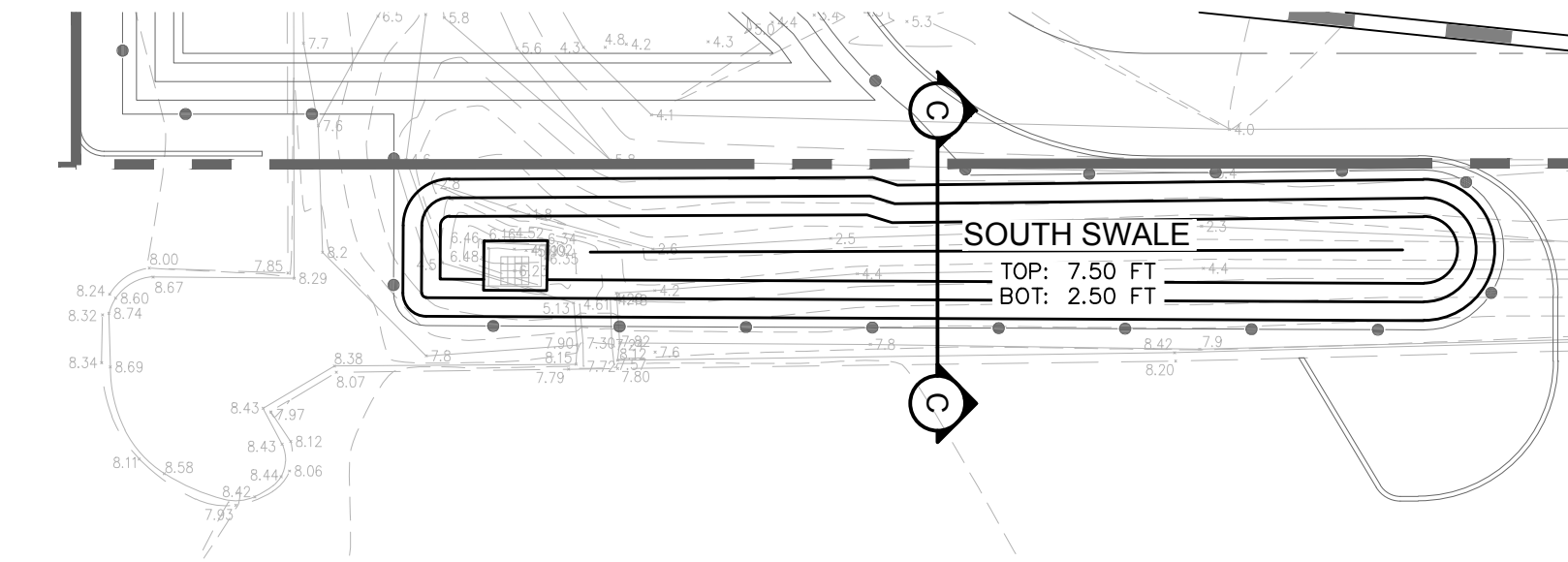
N.T.S.



Compensation Area Plan Layout

2016

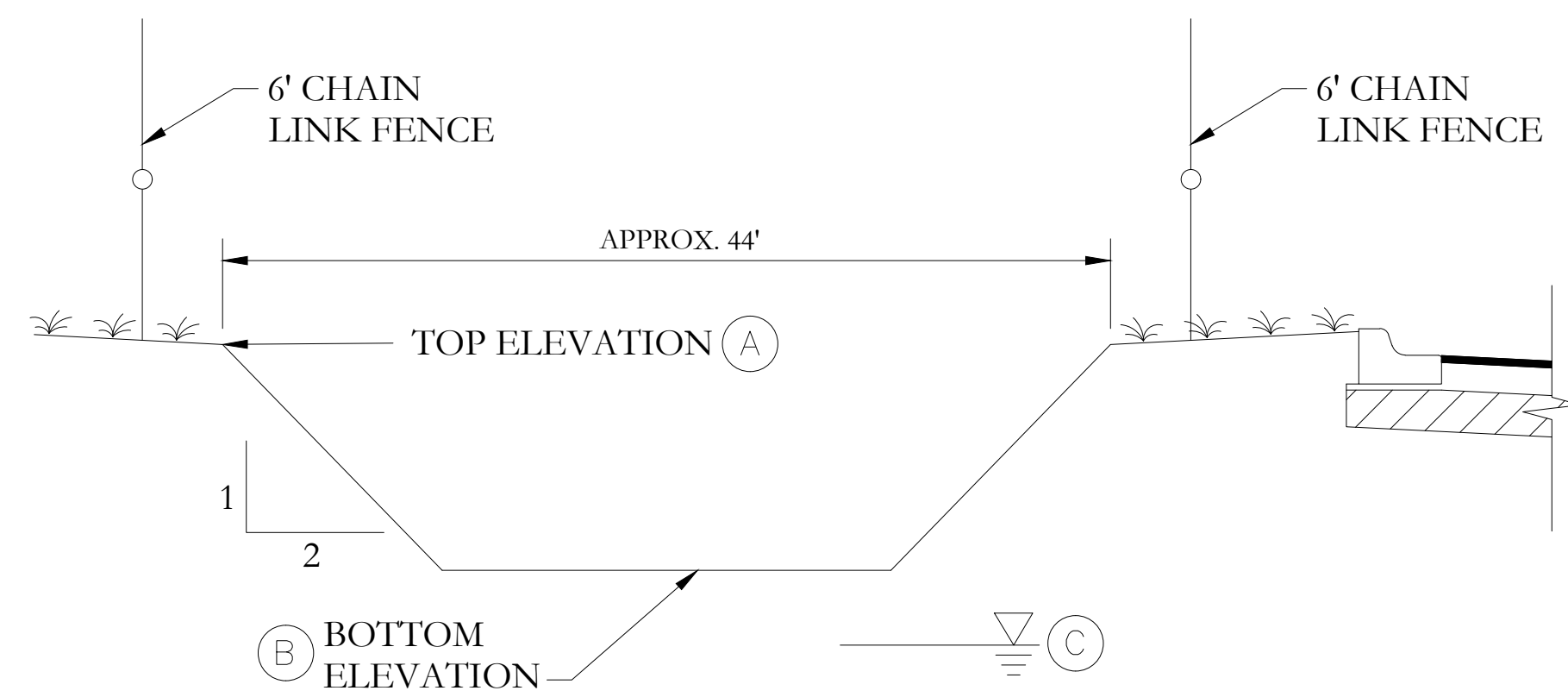
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South Swale Plan Layout

2016

N.T.S.

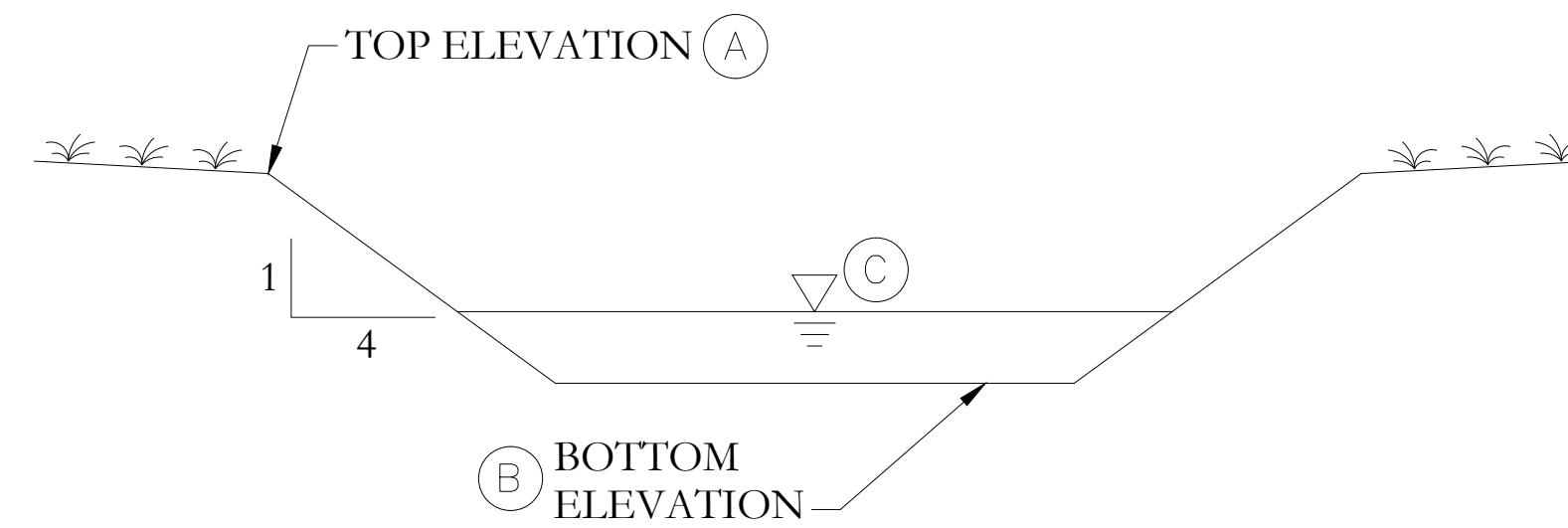


Typical Section A-A'

2016

N.T.S.

- NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL DRAINAGE STRUCTURES BEFORE FABRICATION.
 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES & CHAINS.
 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

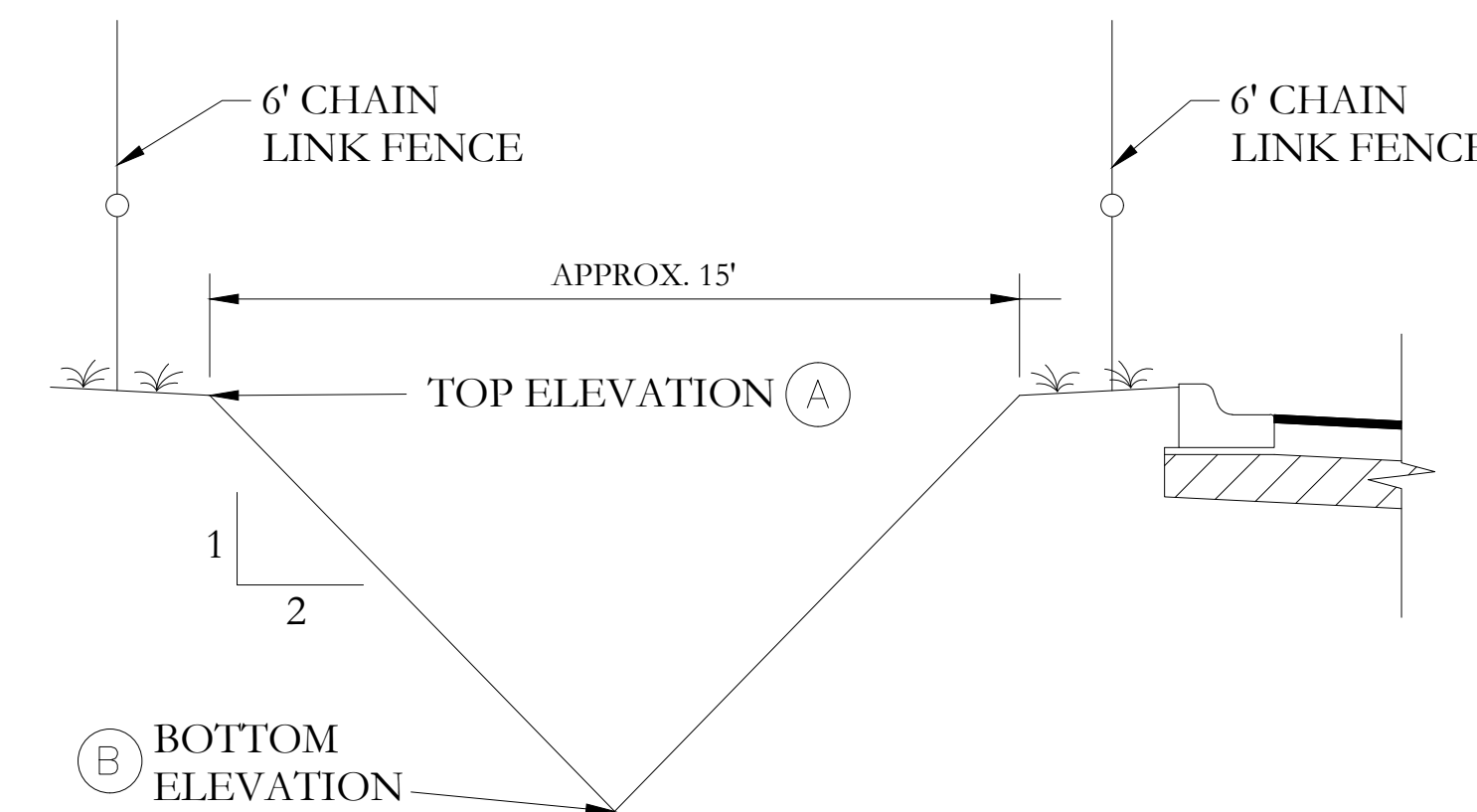


Typical Section B-B'

2016

N.T.S.

- NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL DRAINAGE STRUCTURES BEFORE FABRICATION.
 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES & CHAINS.
 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

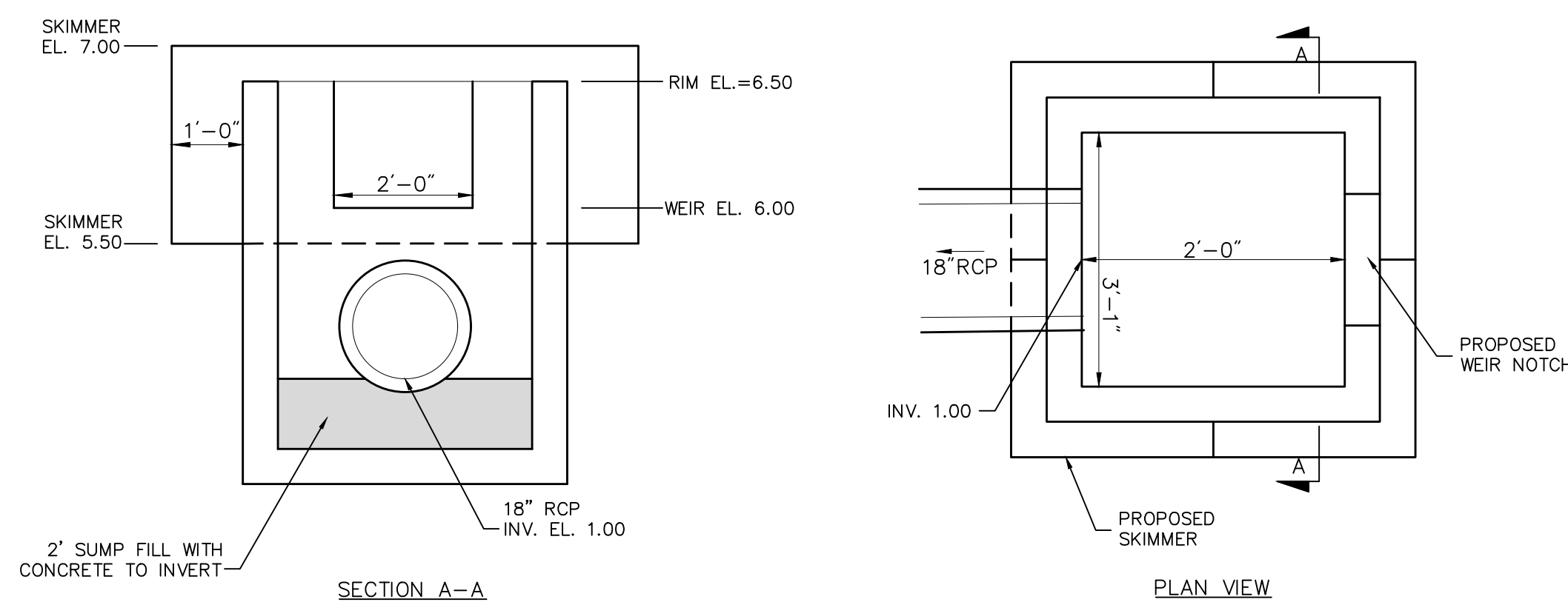


Typical Section C-C'

2016

N.T.S.

- NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY ENGINEER FOR ALL DRAINAGE STRUCTURES BEFORE FABRICATION.
 2. ALL BOX STRUCTURES TO INCLUDE STEEL GRATES & CHAINS.
 3. A BENCH MARK IS TO BE SET ON TOP OF OUTFALL STRUCTURE.
 4. SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



Control Structure DS-1 - Type C

N.T.S.

TYPICAL SECTION TABLE							
NAME	(A) TOP ELEVATION	(B) BOTTOM ELEVATION	(C) SHWT	WEIR INVERT	RIM ELEVATION	STRUCTURE BOTTOM ELEVATION	25 YR 24 HR DESIGN PEAK STAGE
POND 1 ³	7.00	4.55	3.80	6.00 ¹	6.50 ¹	-1.00 ¹	6.48
COMP. AREA ⁴	7.00	2.50	3.50	-	-	-	4.86
SOUTH SWALE ³	7.50	2.50	-	2.	5.56 ²	2.	4.98

1. SEE DETAIL FOR CONTROL STRUCTURE DS-1.
2. EXISTING CONTROL STRUCTURE TO REMAIN. REMOVE EXISTING 1.5" ORIFICE AND REPLACE WITH 1/4" ORIFICE WITH TURN DOWN ELBOW AT EL.=3.80.
3. ELEVATIONS IN NGVD 29 (FT).
4. ELEVATIONS IN NAVD 88 (FT).

Pond Elevation Table

N.T.S.

No.	Revision	Date	Appvd.
1	SWFWM Comments	12/27/17	JK
2	SWFWM Comments	09/30/17	JK
3	SWFWM Comments	08/02/17	JK
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Designed by SS | Drawn by SS | Checked by JK
GAD checked by JK | Approved by JK
Scale: N.T.S. | Date: June 2018

Homosassa Square Outparcel
S. Suncoast Blvd. (U.S. 19)
& Homosassa Trail

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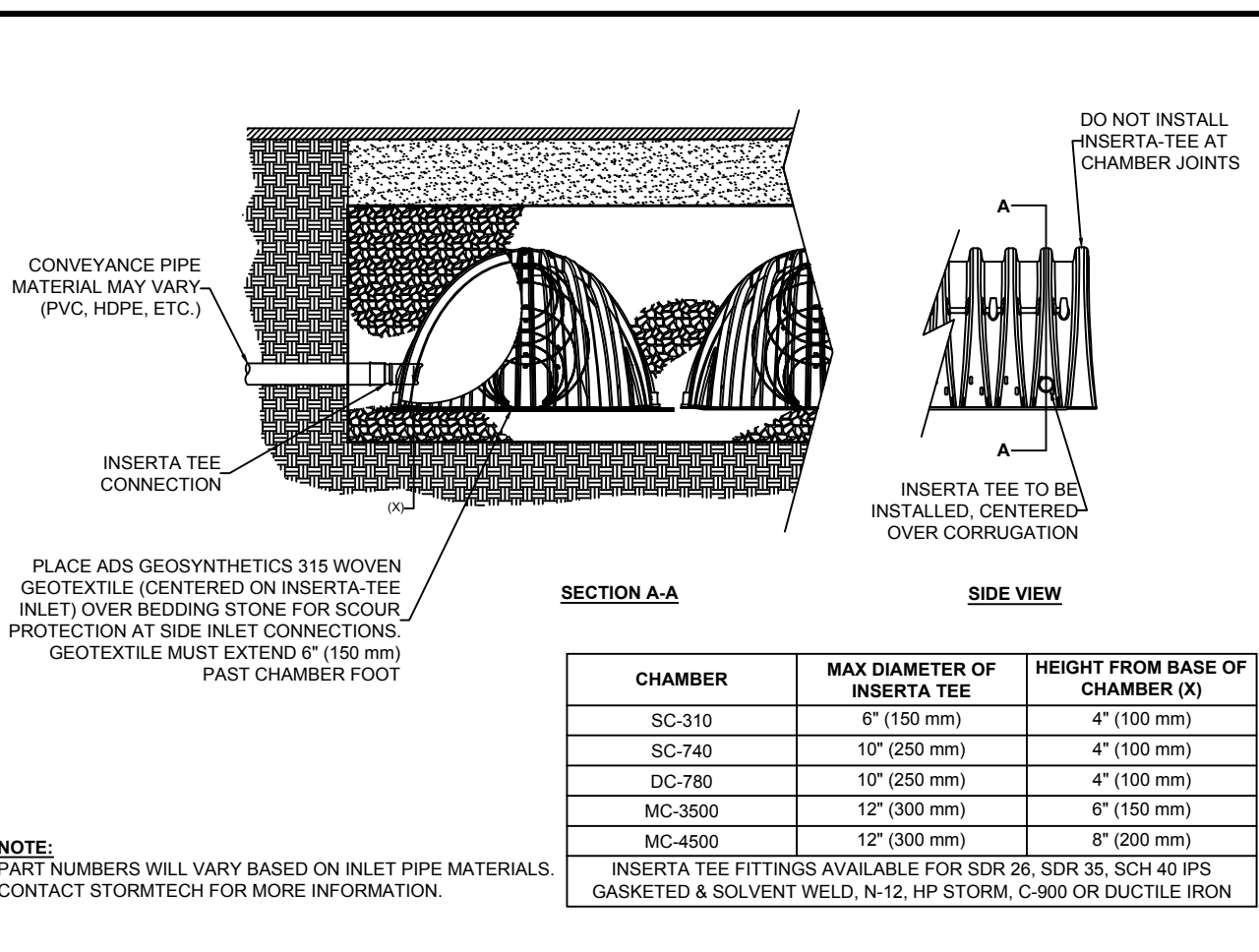
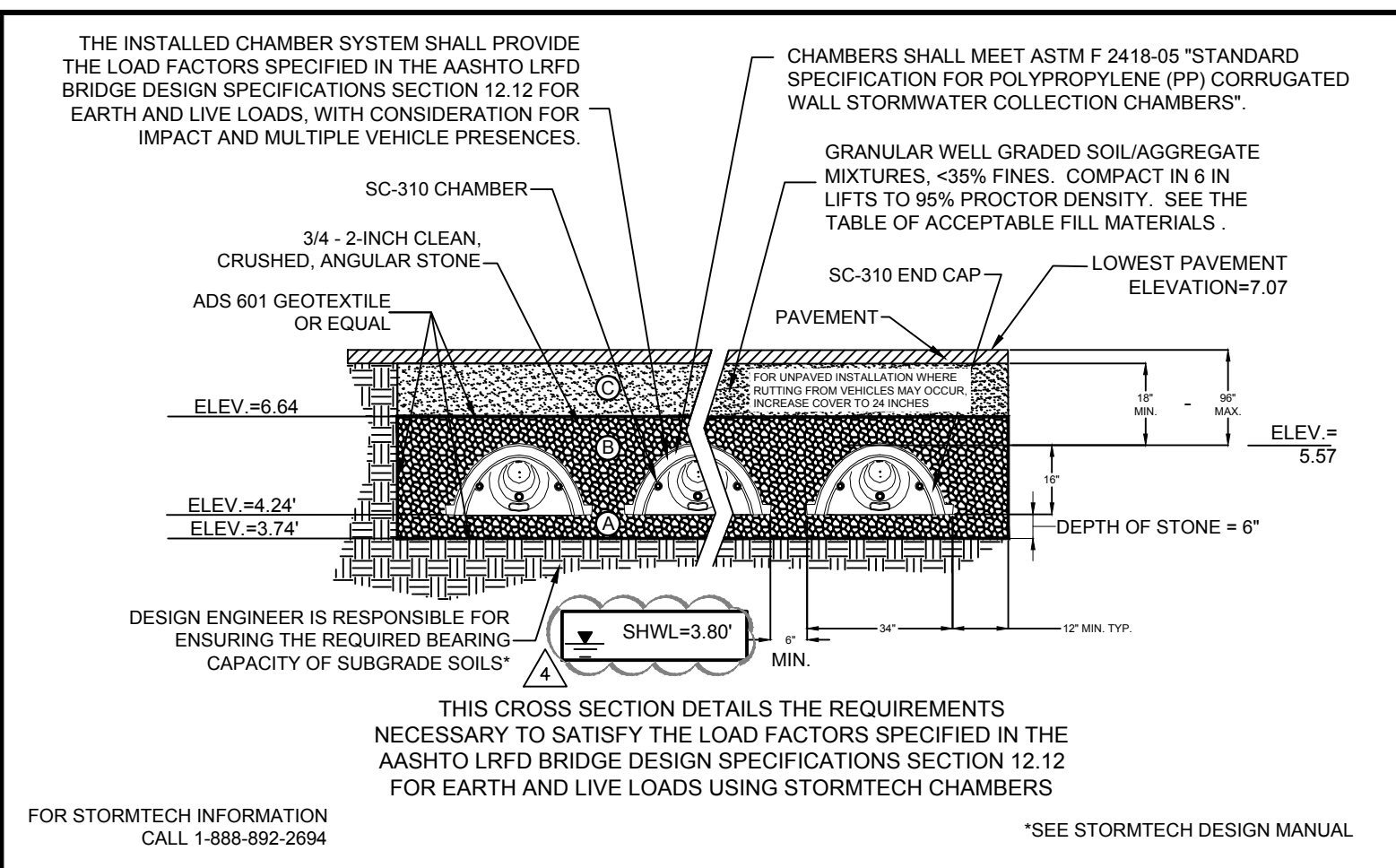
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Number FL #3932



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

ST 1.0 SC-310 TYPICAL CROSS SECTION

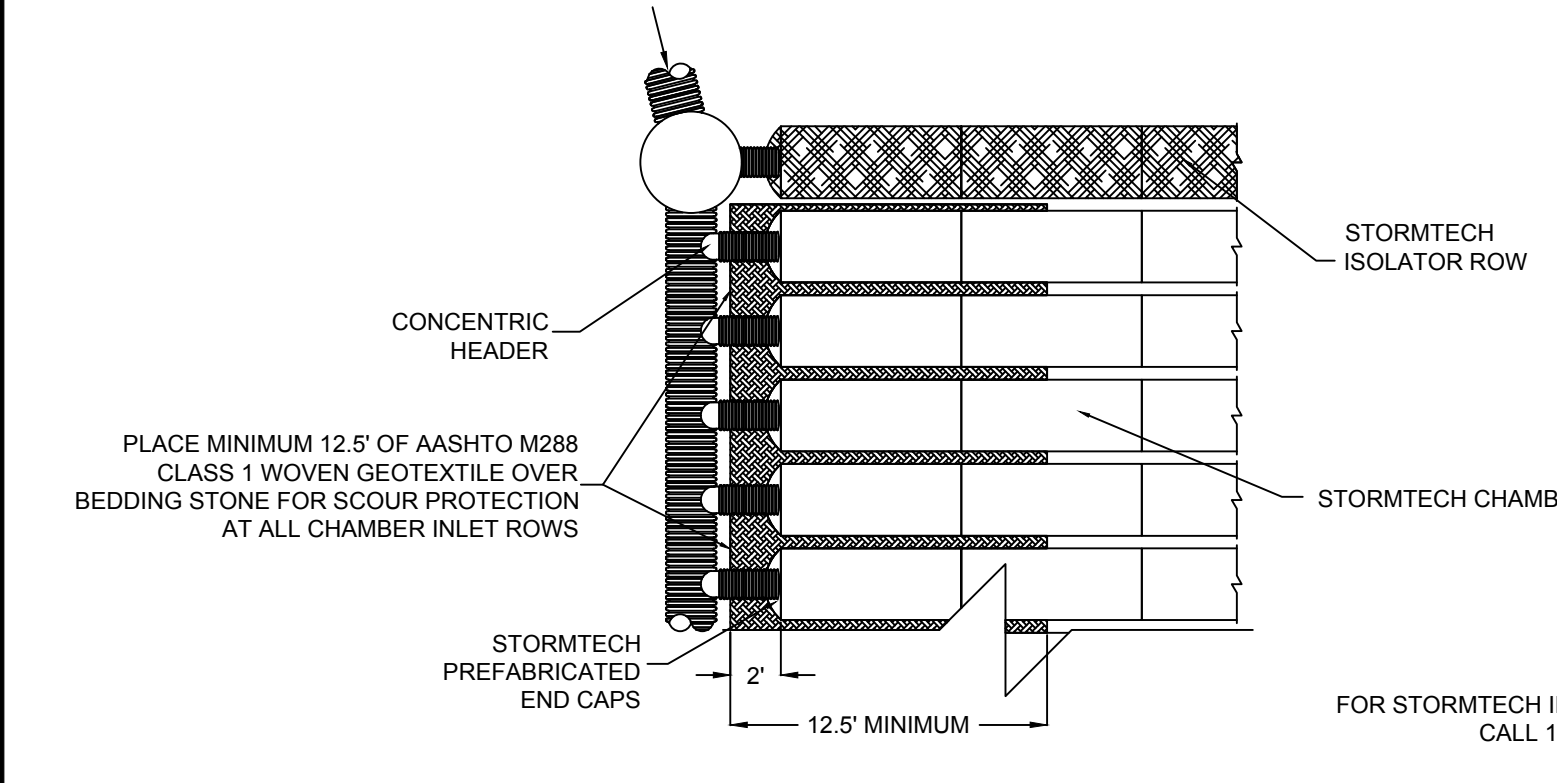
ST 2.0 INSERTA TEE DETAIL

**ACCEPTABLE FILL MATERIALS
STORMTECH SC-310 CHAMBER SYSTEMS**

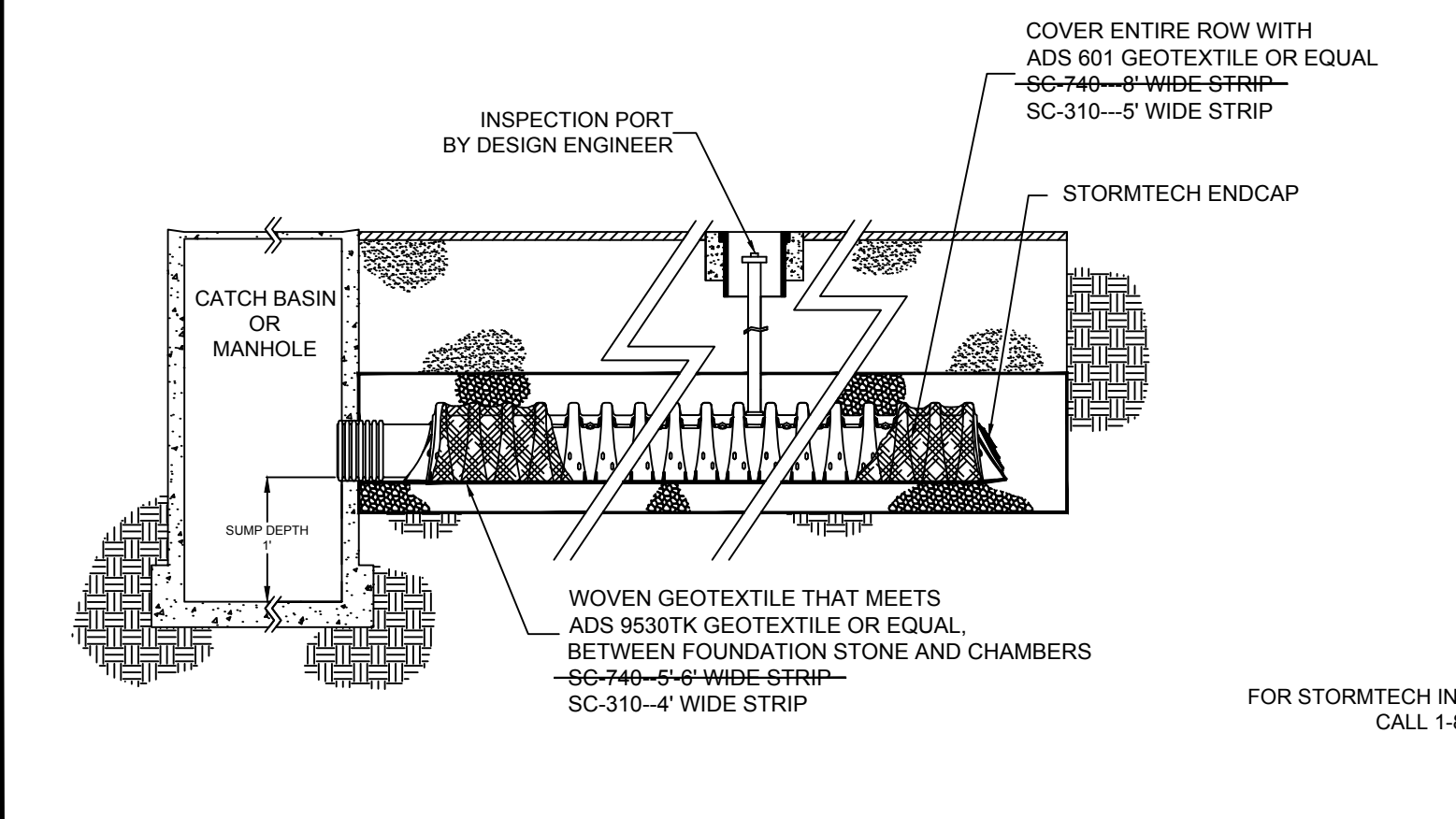
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOLIDROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (2" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	A-1, A-2, A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	CLEAN ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
FOUNDATION STONE BELOW CHAMBERS	CLEAN ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN CRUSHED ANGULAR. FOR EXAMPLE, THE STONE MUST BE SPECIFIED AS CLEAN, CRUSHED, ANGULAR NO. 4 STONE.

ST 3.0 STORMTECH ACCEPTABLE FILL MATERIALS

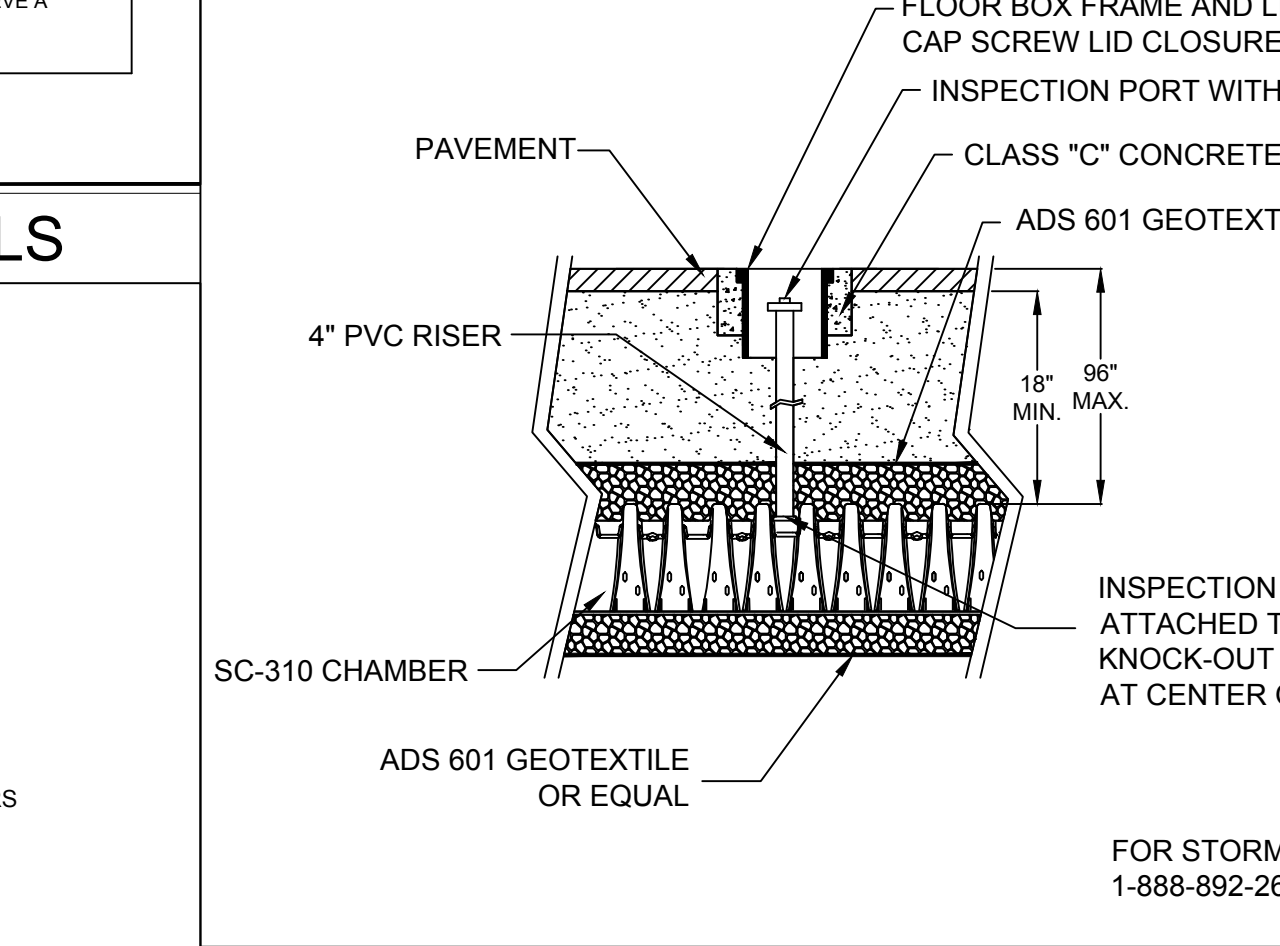


ST 4.0 STORMTECH ISOLATOR™ ROW MANIFOLD DETAIL

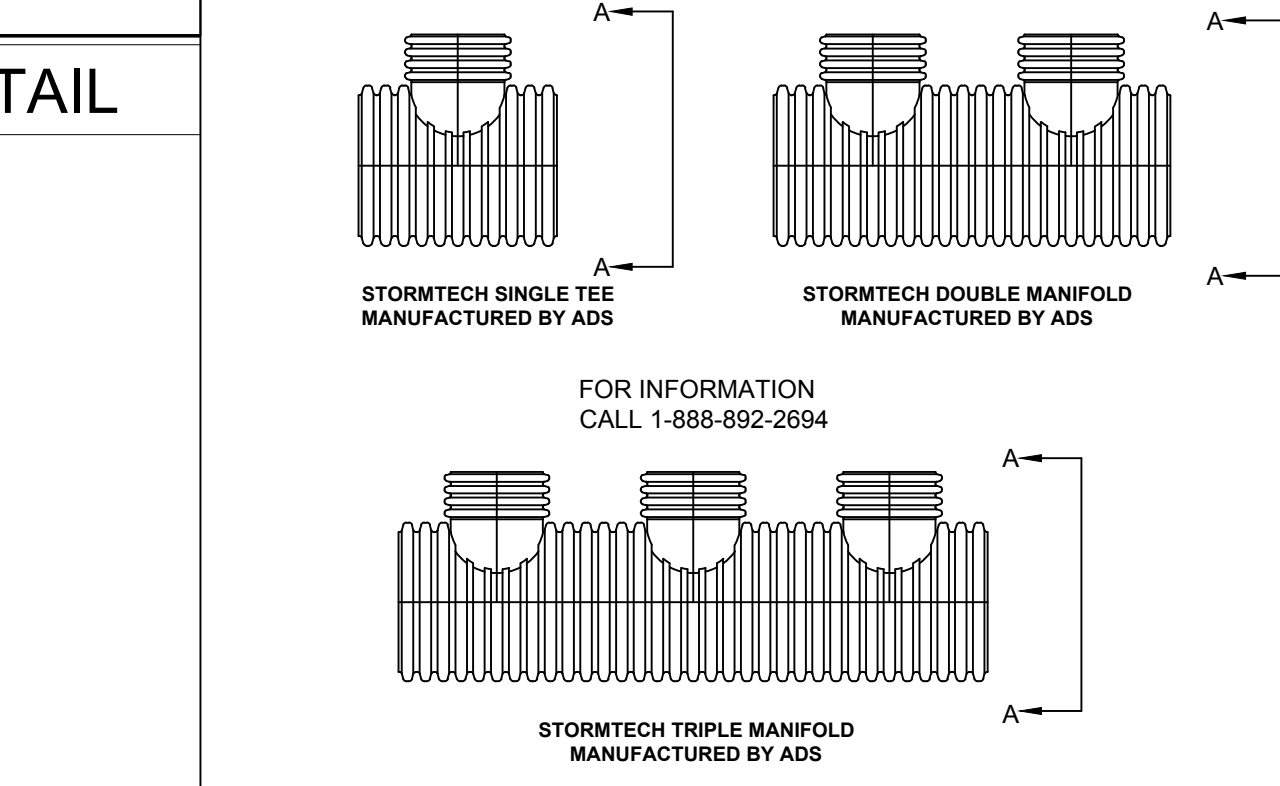


ST 6.0 STORMTECH ISOLATOR™ ROW DETAIL

NOTES:
1. ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
2. THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
4. CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.



ST 5.0 STORMTECH INSPECTION PORT DETAIL

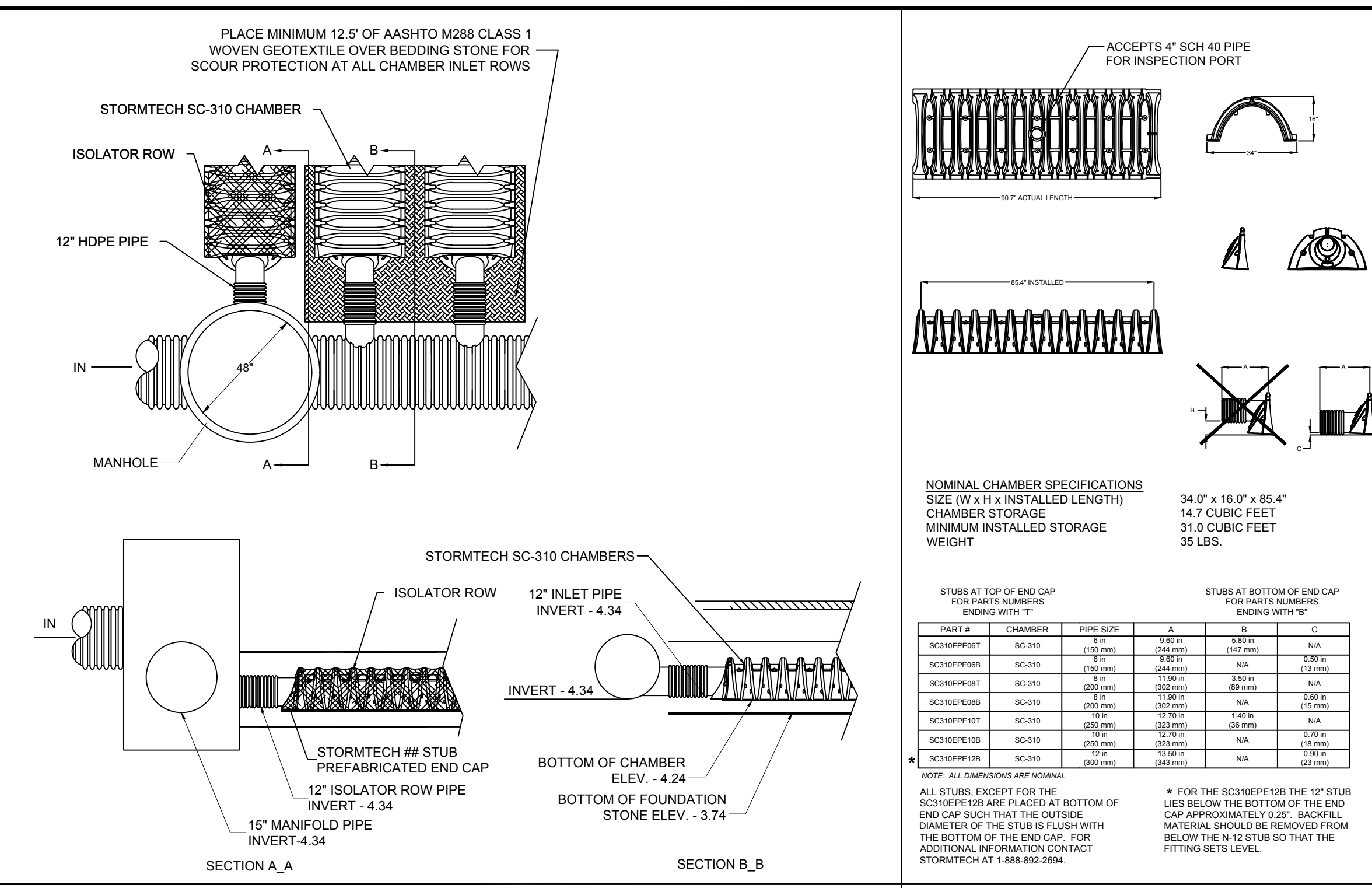


FOR INFORMATION CALL 1-888-892-2694

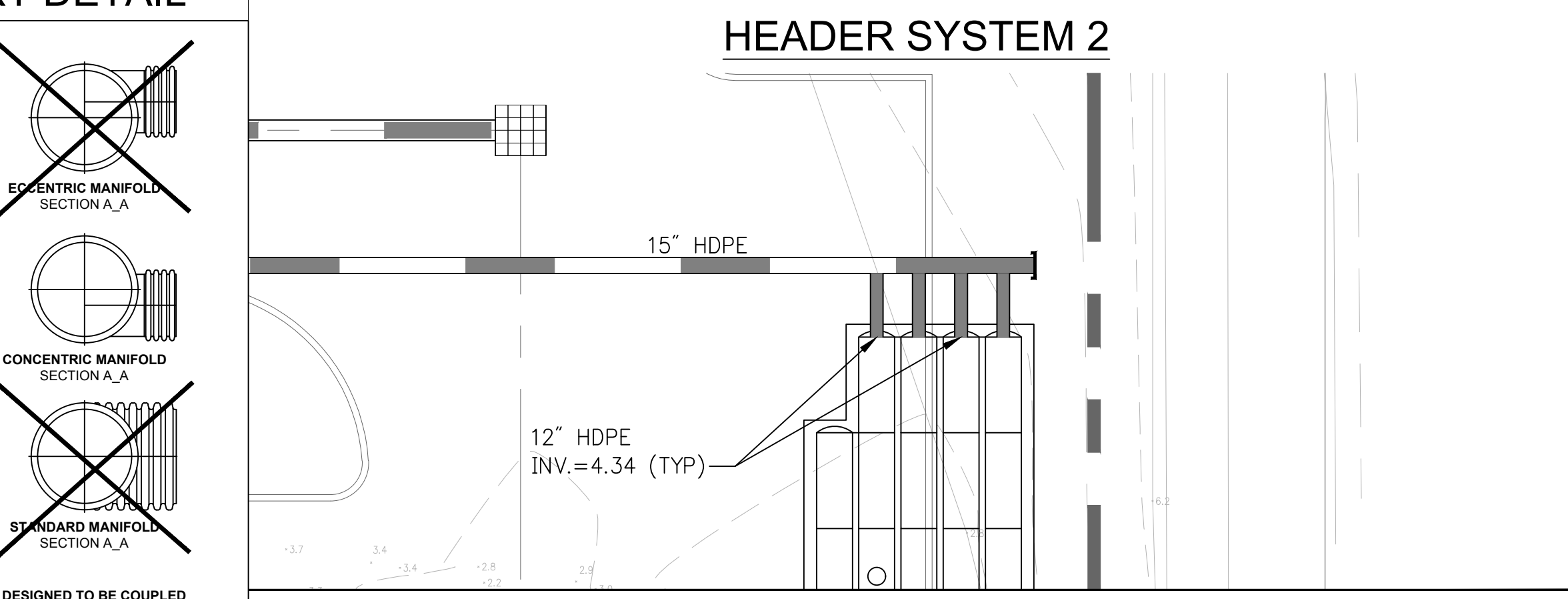
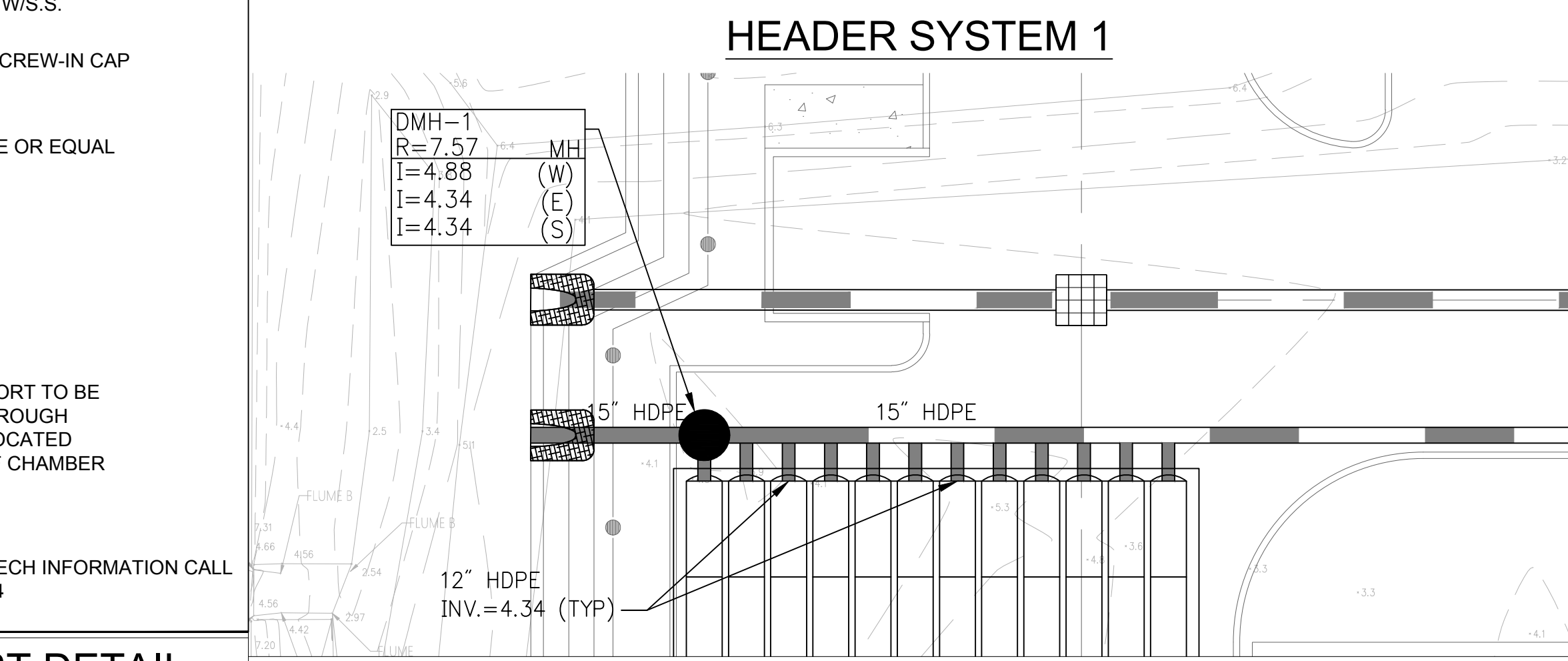
STUB SIZE	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
24"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
18"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
12"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL
6"	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL	AVAIL

AVAIL - STANDARD HEADERS AVAILABLE

ST 7.0 ADS MANIFOLD DETAILS



ST 8.0 STORMTECH ELEVATIONS



ST 10.0 STORMTECH SC-310 HEADER LAYOUT

NOTE:
DETAILS ON THIS SHEET ARE NOT TO BE USED INSIDE FDOT RIGHT-OF-WAY

No.	Revision	Date	Apprv.
1	SWFWD Comments	12/27/17	JK
2	SWFWD Comments	09/30/17	JK
3	SWFWD Comments	08/02/17	JK
4	SWFWD Comments	04/25/17	JK

Designed by SS, Drawn by SS, Checked by JK
CAD checked by JK, Approved by JK
Scale: N.T.S., Date: June 2018

Project Title: **Homosassa Square Outparcel**
S. Suncoast Blvd. (U.S. 19)
& Homosassa Trail

Citrus County, Florida
Based for: **Permit**

Datum NGVD 29
Drawing Title

Pond and Drainage
Details

This item has been electronically signed and sealed by Joseph F. Kolb, Jr., PE on 05-30-18 using a SHA-1 authentication code.
Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

C5.3

Saved Wednesday, May 30, 2018 2:26:58 PM SSTEERS Plotted Wednesday, May 30, 2018 2:35:24 PM Steers, Shawn \\FL-CR1\PROJECTS\62480.00\HOWDAS\SSA\NETLAND_IMPACT\CAD\LD\PLANSET\62480.00 - 01-POUD