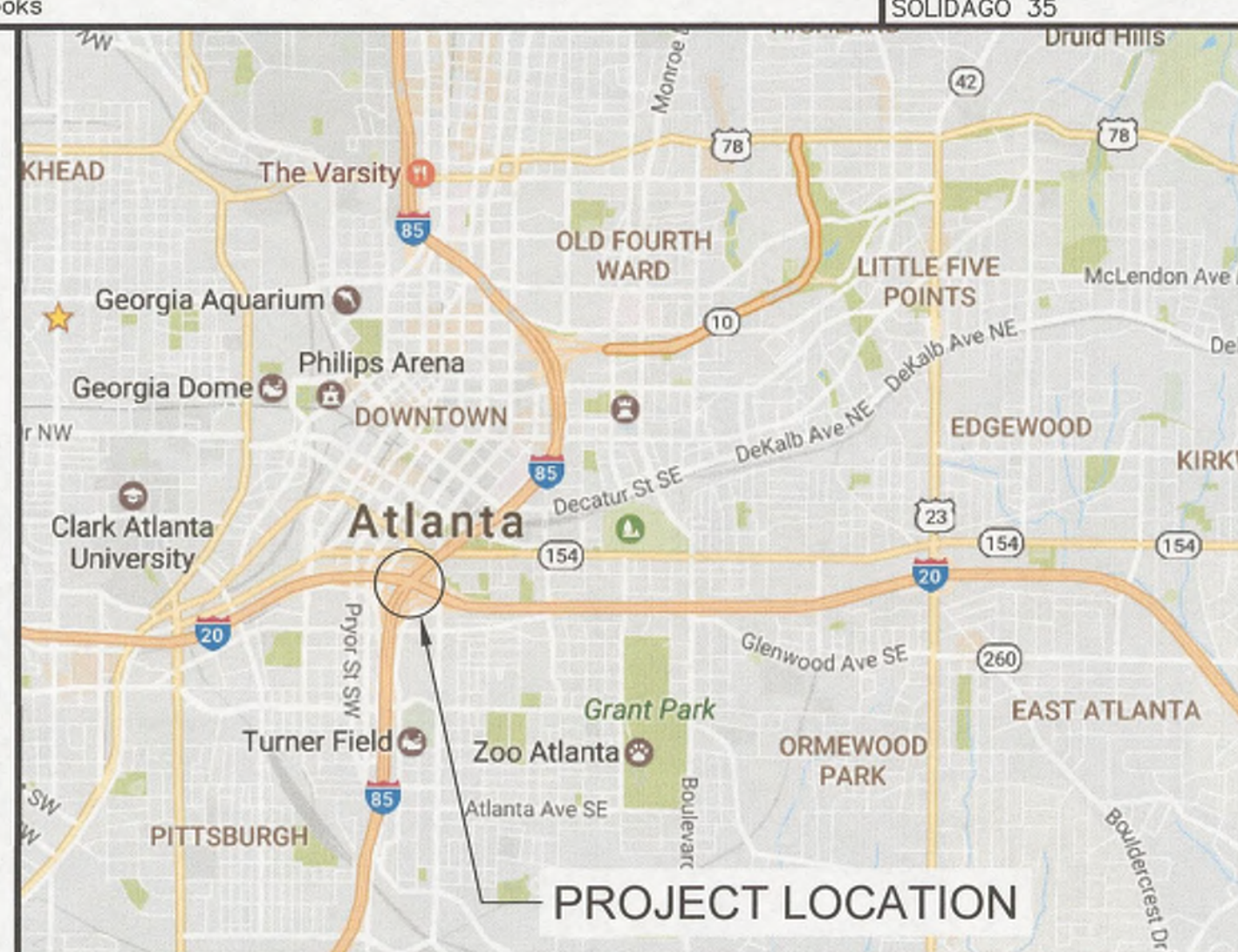


THE DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT I-20 AT I-85/I-75 INTERCHANGE & CAPITOL AVENUE SE FULTON COUNTY, GEORGIA



LOCATION SKETCH

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

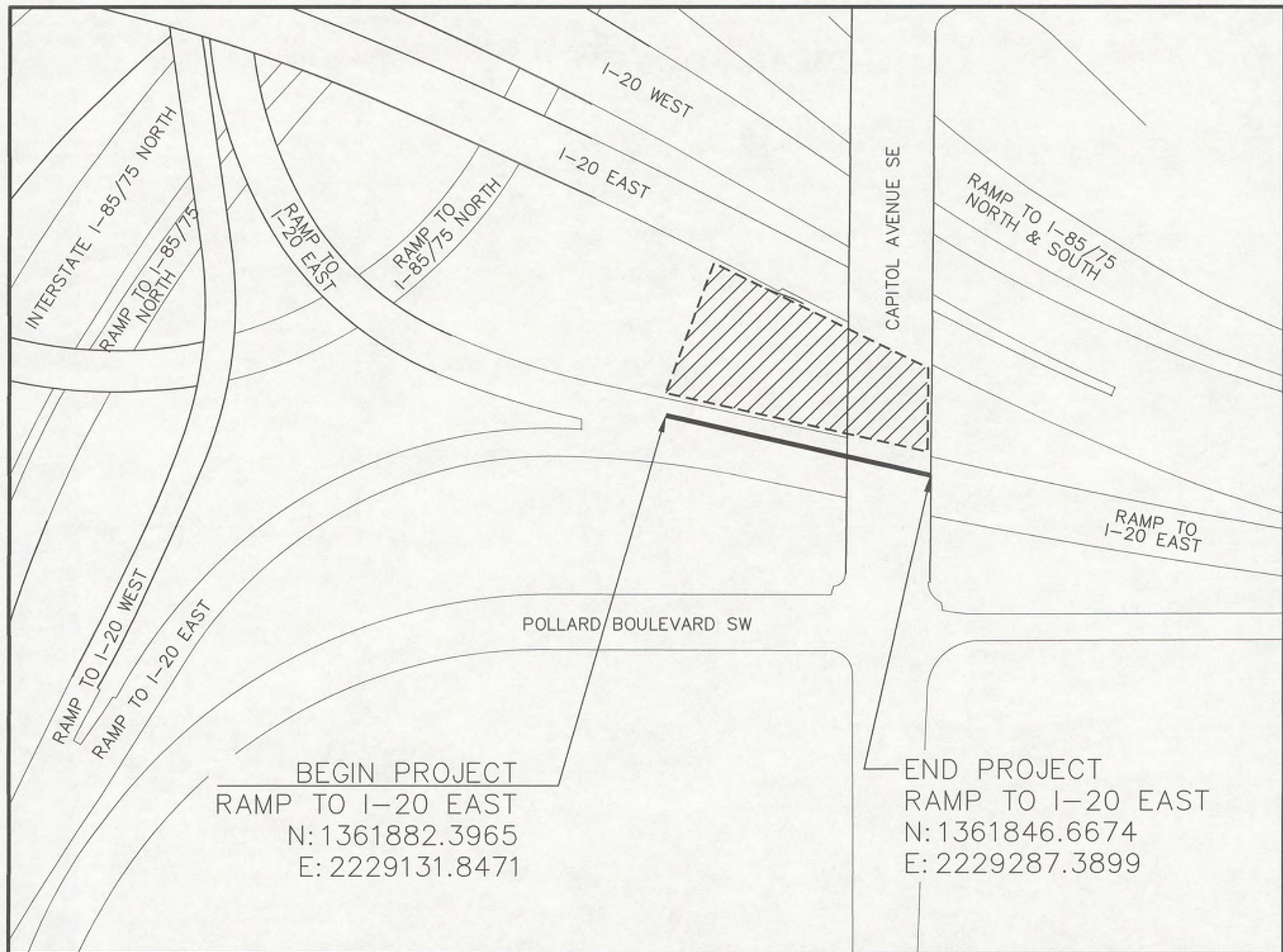
MIDPOINT COORDINATES	
STA.	21+23
N	1361846.6674
E	2229287.3899

DESIGN DATA:	
TRAFFIC A.D.T.:	38,500
TRAFFIC D.H.V.:	N/A
DIRECTIONAL DIST.:	N/A
% TRUCKS:	N/A
24 HR. TRUCKS %:	N/A
SPEED DESIGN:	55 mph

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY, THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

PROJECT TO BE CONSTRUCTED AS PER CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

COUNTY: FULTON GA. P.I. NO. 1234567	
LENGTH OF PROJECT	COUNTY NO. 121
	MILES
NET LENGTH OF ROADWAY	0.046
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.046
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.046



NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

PREPARED BY: **SOLIDAGO** DESIGN SOLUTIONS, INC.
3316A SOUTH COBB DRIVE
SUITE 149
SMYRNA, GEORGIA 30080
www.SOLIDAGODESIGN.com

SUBMITTED BY: *M. B. Diklo*
STATE ROADWAY HYDRAULICS ENGINEER

8/23/19	<i>Margaret B. Diklo</i>
DATE	CHIEF ENGINEER
	RMR
PLANS COMPLETED:	
REVISIONS: 26-JUN-2019 GDOT REVIEW	
8-AUG-2019 FOR BID	

DRAWING NO.	DESCRIPTION
01-001	COVER SHEET
02-001	DRAWING INDEX
03-001	REVISION SUMMARY
04-001	GENERAL NOTES
06-001	SUMMARY OF QUANTITIES
11-001	EXISTING CONDITIONS SURVEY
11-002	PROPOSED SITE PLAN
11-003	EXISTING TREE PLAN
13-001	MAINLINE PLAN
18-001	GRADING PLAN
21-001	DRAINAGE AREA PLAN
22-001	PROFILES
23-001	CROSS SECTION
29-001	LANDSCAPE PLAN
29-002	LANDSCAPE DETAILS
29-003	LANDSCAPE DETAILS
29-004	LANDSCAPE DETAILS
38-001	SPECIAL CONSTRUCTION DETAILS - BIORETENTION BASIN OUTLET STRUCTURE
38-002	SPECIAL CONSTRUCTION DETAILS - BIORETENTION DESIGN TABLE
38-003	SPECIAL CONSTRUCTION DETAILS - RIPRAP FOREBAY
38-004	SPECIAL CONSTRUCTION DETAILS - UNDERDRAIN
38-005	SPECIAL CONSTRUCTION DETAILS - D9 FLUME
38-006	SPECIAL CONSTRUCTION DETAILS - BIORETENTION SIGN INFORMATION
52-001-007	EROSION CONTROL LEGEND UNIFORM CODE SHEET
54-001	BMP PHASE 1 - INITIAL PHASE
54-002	BMP PHASE 2 - INTERMDIATE PHASE
54-003	BMP PHASE 3 - FINAL PHASE

DRAWING NO.	GEORGIA CONSTRUCTION DETAILS	REV. DATE
D-24A	TEMPORARY SILT FENCE	Jan-2011
D-24C	TEMPORARY SILT FENCE	Jan-2011
D-4	DITCH DROP INLET	Oct-2000
D-33	V GUTTER DETAILS	Aug-2013
D-41	CONSTRUCTION ENTRANCE	Apr-2006
D-42	INLET SEDIMENT TRAP	May-2008
D-54	SOD INSTALLATION	Apr-2016
T-1	DETAILS OF SIGN PLATES	Jan-2000
T-3A	SQUARE TUBE POST INSTALLATION DETAILS	Jul-2002
DRAWING NO.	GEORGIA CONSTRUCTION STANDARDS	REV. DATE
1030-D 1	STANDARD CONCRETE & METAL PIPE CULVERTS	Sept-2011
1030-d 2	STANDARD CONCRETE & METAL PIPE CULVERTS	Sept-2001
1401	PAVEMENT PATCHING DETAILS	Aug-1999
4960	TEMPORARY BARRIER (END TREATMENT OPTIONS)	May-2007
4961	CONCRETE TEMPORARY BARRIER	Sept-2006
4962	TEMPORARY IMPACT BARRIER - SAND FILLED	May-2006
9100	STANDARD TRAFFIC CONTROL NOTES	Mar-2006

DATE PLOTTED: 06/14/2017 10:58:12 AM

DATE PLOTTED: 06/14/2017 10:58:12 AM

DATE PLOTTED: 06/14/2017 10:58:12 AM



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES

06/26/2019 GDOT REVIEW
08/08/2019 FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
DRAWING INDEX

CAPITOL AVENUE GREEN INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	02-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

GENERAL NOTES:

1. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

2. THERE IS NO SUITABLE PLACE TO BURY EXISTING DRAINAGE IMPROVEMENTS CONSTRUCTION DEBRIS WITHIN THE PROJECTS' LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

3. TREE REMOVAL AS NOTED IN THE PLANS SHALL BE INCLUDED IN THE BID PRICE FOR GRADING COMPLETE.

4. THE CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE DIGGING TO ELIMINATE ANY CONFLICTS. TO OBTAIN HIGHWAY LIGHTING PLANS, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT AT (404) 631-1531. FOR GDOT ATMS FACILITIES THAT MAY BE IMPACTED, THE CONTRACTOR SHALL CONTACT THE GDOT ITS MANAGER AT (404) 635-2849.

5. THE CONTRACTOR SHALL REPLACE IN LIKE KIND AND SIZE, AT NO ADDITIONAL COST TO THE DEPARTMENT, ANY PAVEMENT MARKINGS, BARRIER WALL, FENCE DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAIL, LANDSCAPING (IN ACCORDANCE WITH GEORGIA SPECIFICATIONS SECTION 702), GRASSING (IN ACCORDANCE WITH GEORGIA SPECIFICATIONS SECTION 700). UTILITY SERVICE LINES, STORM DRAIN PIPES, RUMBLE STRIPS, ROADWAY AND AND RETAINING WALLS THAT ARE DAMAGED OR DESTROYED BY ANY WORK PERFORMED AS PART OF THIS PROJECT.

6. UNDERGROUND UTILITY LOCATIONS ARE BASED ON A LEVEL "B" INVESTIGATION AND RECORDS PROVIDED BY EACH UTILITY.

7. LAST DAY OF SURVEY FIELD WORK WAS 2/20/2017

8. EXISTING UTILITIES LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTORS/INSTALLERS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS/INSTALLERS EXPENSE. CONTRACTOR/INSTALLER SHALL CONTACT UTILITY LOCATOR SERVICE, 811, PRIOR TO ANY CONSTRUCTION.

9. ALL DRAWING INFORMATION SHOWN BASED ON SURVEY INFORMATION PROVIDED BY KIMLEY HORN (03-06-2017 / PROJECT #:019281024) AND SHOULD BE CONSIDERED APPROXIMATE. ALL WORK SHOULD BE FIELD VERIFIED TO ENSURE NO CONFLICTS WITH EXISTING CONDITIONS.

10. AN NOI IS NOT REQUIRED FOR THIS PROJECT.



UTILITY OWNER	SERVICE
GEORGIA POWER	POWER
GDOT	CCTV
GDOT	FIBER

TREE PROTECTION GENERAL NOTES:

"THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR UNDER THE DRIP LINE OF EXISTING TREES IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION."

TRAFFIC NOTES:

CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLANS TO GDOT FOR REVIEW AND APPROVAL FOR ALL TRAFFIC RELATED OPERATIONS. NO WORK SHALL BE CONDUCTED UNTIL GDOT HAS APPROVED ALL TRAFFIC CONTROL RELATED ACTIONS.

ALL TRAFFIC CONTROL ACTIONS SHALL BE IN ACCORDANCE WITH MUTCD STANDARDS AND GDOT STANDARDS.

SHOULDER CLOSURES REQUIRED SHOULD REMAIN CLOSED FOR THE DURATION OF THE PROJECT.

ALLOWABLE WORK TIMES ARE: WEEKDAYS - 9 AM TILL 3 PM MONDAY THROUGH FRIDAY; WEEKENDS - 10 PM FRIDAY TILL 5 AM MONDAY; NO WORK SHALL BE CONDUCTED DURING HOLIDAYS OR DURING GDOT MANDATED ROAD CLOSURES.

TYPE OF INSTALLATION			PIPE TYPE										
			CONCRETE	STEEL			ALLUMINIUM	THERMOPLASTIC					
			REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTH LINED HDPE TYPE "S" AASHTO M-294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M-330	PVC CORRUGATED SMOOTH INTERIOR ASTM F-949	PVC Profile Wall Drain Pipe AASHTO M-304	
S T O R M D R A I N	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X										
		NON INTERSTATE	X	X		X	X		X	X	X	X	
	TRAVEL BEARING (INSIDE ROADBED)	GRADE ≤ 10%	ADT < 1,500	X	X		X	X		X	X	X	X
			1,500 < ADT < 5,000	X	X		X	X		X	X	X	X
			5,000 < ADT < 15,000	X						X	X	X	X
			ADT > 15,000 & INTERSTATES	X									
	GRADE > 10%				X			X	X	X	X		
SIDE DRAIN			X	X	X	X	X		X	X	X	X	
PERMANENT SLOPE DRAIN				X	X	X	X		X	X	X	X	
PERFORATED UNDERDRAIN				X	X			X	X	X	X	X	

NOTES:

- Allowable materials are indicated by an "X".
- Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications
- The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
- Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.

Rev. 1-12-16



SCALE IN FEET: N.T.S.

REVISIONS	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW	GENERAL NOTES	
08/08/2019 FOR BID	CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED: DATE:	DATE:	DRAWING No.
BACKCHECKED: DATE:	DATE:	04-001
CORRECTED: DATE:	DATE:	
VERIFIED: DATE:	DATE:	

LANDSCAPE

PAY ITEM		UNIT	QTY
201-1500	Clearing & Grubbing	LS	1.00
163-0232	Temporary Grassing	AC	0.43
163-0240	Mulch	TN	17
700-9300	Sod	SY	292
700-6910	Permanent Grassing, includes:	AC	0.26
700-7000	Agricultural Lime, contractor specified	TN	0.00
700-8000	Fertilizer Mixed Grade, contractor specified	TN	0.00
Permanent Grassing Subtotal:			
999-0065	Bioretention Basin West, includes:		
	STN Dumped Rip Rap, TP 3, 18-in	SY	80
	Landscape Mulch	SY	359
	Engineered Bioretention Soil	CY	469
	#89 Gravel Aggregate Drainage Layer	CY	25
	#57 Gravel Aggregate Drainage Layer	CY	100
*Cost of material highlighted above to be provided by Central Atlanta Progress. Contract pricing should only reflect the cost of securing, managing and installing these materials.			
	Slope Underdrains - 8-in	LF	262
	Plastic Filter Fabric		
	Woven Filter Fabric (Spec 881.2.05)	SY	108
	Non-woven Filter Fabric (Spec 881.2.05)	SY	16
	Carex crinata	EA	16
	Carex lurida	EA	457
	Carex vulpenoidea	EA	457
	Juncus effusus	EA	457
	Asclepius incarnata	EA	203
	Chasmanthium latifolium	EA	140
	Iris versicolor	EA	90
	Rudbeckia laciniata	EA	210
	Panicum virgatum	EA	171
	Helianthus angustifolia	EA	14
	Vernonia gigantea	EA	7

CONSTRUCTION ACTIVITIES

PAY ITEM		UNIT	QTY
150-1000	Traffic Control, contractor specified	LS	1
632-0003	Changeable Message Sign, Portable, Type 3	EA	1
150-5010	Traffic Control, Portable Impact Attenuator	EA	1
151-1000	Mobilization	LS	1
620-0100	Temporary Barrier, Method 1	LF	200
205-0001	Unclassified Excavation	CY	1629
636-1020	Highway Signs, TP 1 Matl, Refl Sheeting, TP 3	SF	12
636-2020	Galv Steel Posts, TP 2	LF	48

DRAINAGE

SEE DRAINAGE SUMMARY BELOW "FOR INFORMATION ONLY" REFERENCE

PAY ITEM		UNIT	QTY
	Type A Flume		
500-3200	Class B Concrete	CY	16
511-1000	Bar Reinforcement Steel	LB	245
441-4030	Conc Valley Gutter, 8 IN	LF	10
550-1240	Storm Drain Pipe, 24-in, H 1-10	LF	70
610-0355	Remove Conc Curb & Gutter All Sizes	LF	10
610-6015	Remove Drop Inlet	EA	1
668-9800	Outlet Control Structure	EA	1
668-2100	Drop Inlet - Group 1	EA	1
668-2110	Drop Inlet, GP 1, Addl Depth	LF	6

EROSION & SEDIMENT CONTROL

PAY ITEM		UNIT	QTY
163-0300	Construction Exit	EA	1
165-0101	Maintenance of Construction Exit	EA	1
163-0550	Construct and Remove Inlet Sediment Trap	EA	1
165-0105	Maintenance of Inlet Sediment Trap	EA	1
171-0010	Temp. Silt Fence, Type-A	LF	322
165-0010	Maintenance of Temp. Silt Fence, Type-A	LF	322
643-8200	Barrier Fence (Orange), 4-ft	LF	486

BID DEDUCT/ALTERNATES

	UNIT	QTY
I-20 & Capitol Avenue Combined Project Savings**	LS	1
**Provide cost savings (mobilization, staging, etc.) IF contractor is awarded both the I-20 and Capitol Avenue Green Infrastructure Projects		

DRAINAGE SUMMARY								
STRUCTURE NUMBER	LOCATION	18" STORM DRAIN PIPE		24" STORM DRAIN PIPE		DROP INLET GA DETAIL D-33 EA	ADD'L DEPTH LF	COMMENTS
		LF	H =	LF	H =			
DI A-1	20+10.00			70		1	5.7	REMOVE EXIST. TO RCP & CONSTRUCT NEW
OS B-1	20+77.93					1		CONSTRUCT NEW
TOTAL:		0	0	70	0	2	5.7	

ALL STORM DRAIN PIPES SHALL BE CONCRETE
DRAINAGE SUMMARY PROVIDED AS "FOR INFORMATION ONLY"
SEE SUMMARY OF QUANTITIES ABOVE FOR ALL PAY ITEM INFORMATION



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES

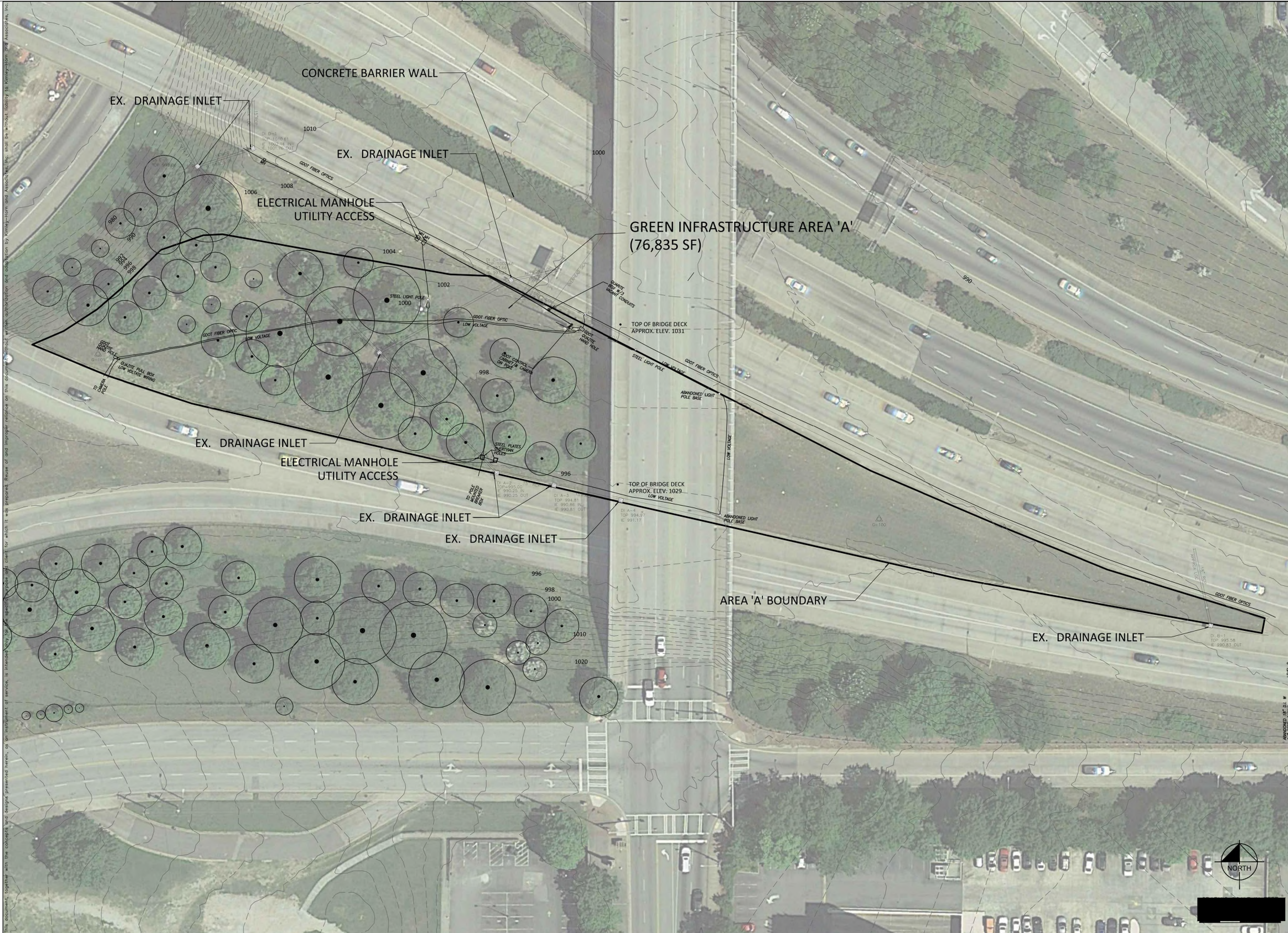
06/26/2019 GDOT REVIEW
08-AUG-2019 FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

CAPITOL AVENUE INFRASTRUCTURE PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



No.	REVISIONS	DATE	BY

Kimley»Horn
Engineering, Planning, and Environmental Consultants
817 W. Peachtree Street, NW, Suite 801
Atlanta, Georgia 30308

KHA PROJECT 019281024	DATE 03-06-2017	SCALE AS SHOWN	DESIGNED BY GPH	DRAWN BY JAD	CHECKED BY GPH
--------------------------	--------------------	-------------------	--------------------	-----------------	-------------------

GREEN INFRASTRUCTURE BASE MAP AREA 'A'

FULTON COUNTY
LANDSCAPE ARCHITECT:
GABE P. HOGAN

I-20 INTERCHANGE GREEN INFRASTRUCTURE BASE MAP
PREPARED FOR
ATLANTA DOWNTOWN IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SHEET NUMBER
EXHIBIT

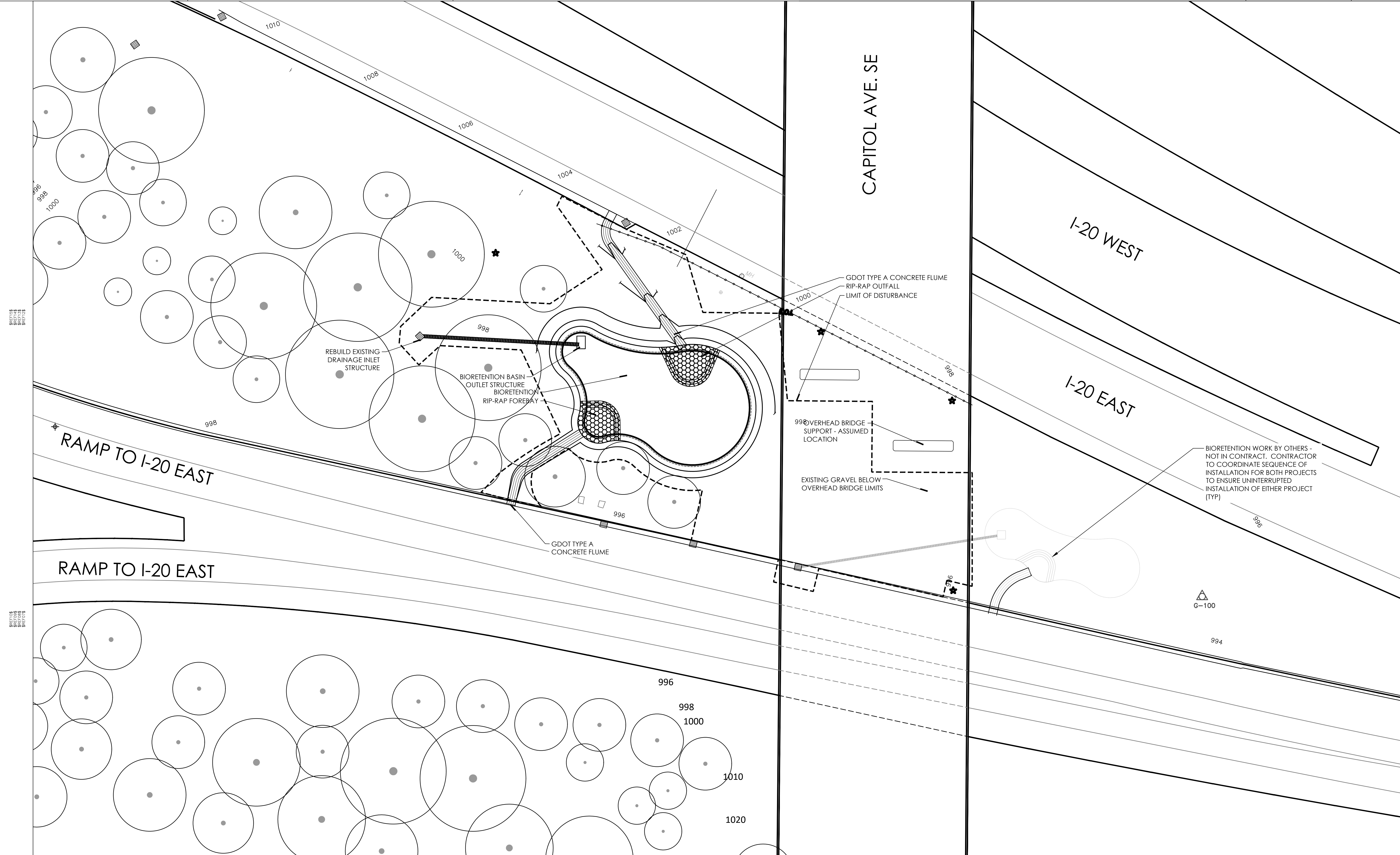
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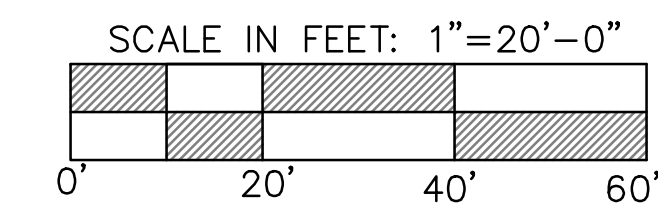
ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

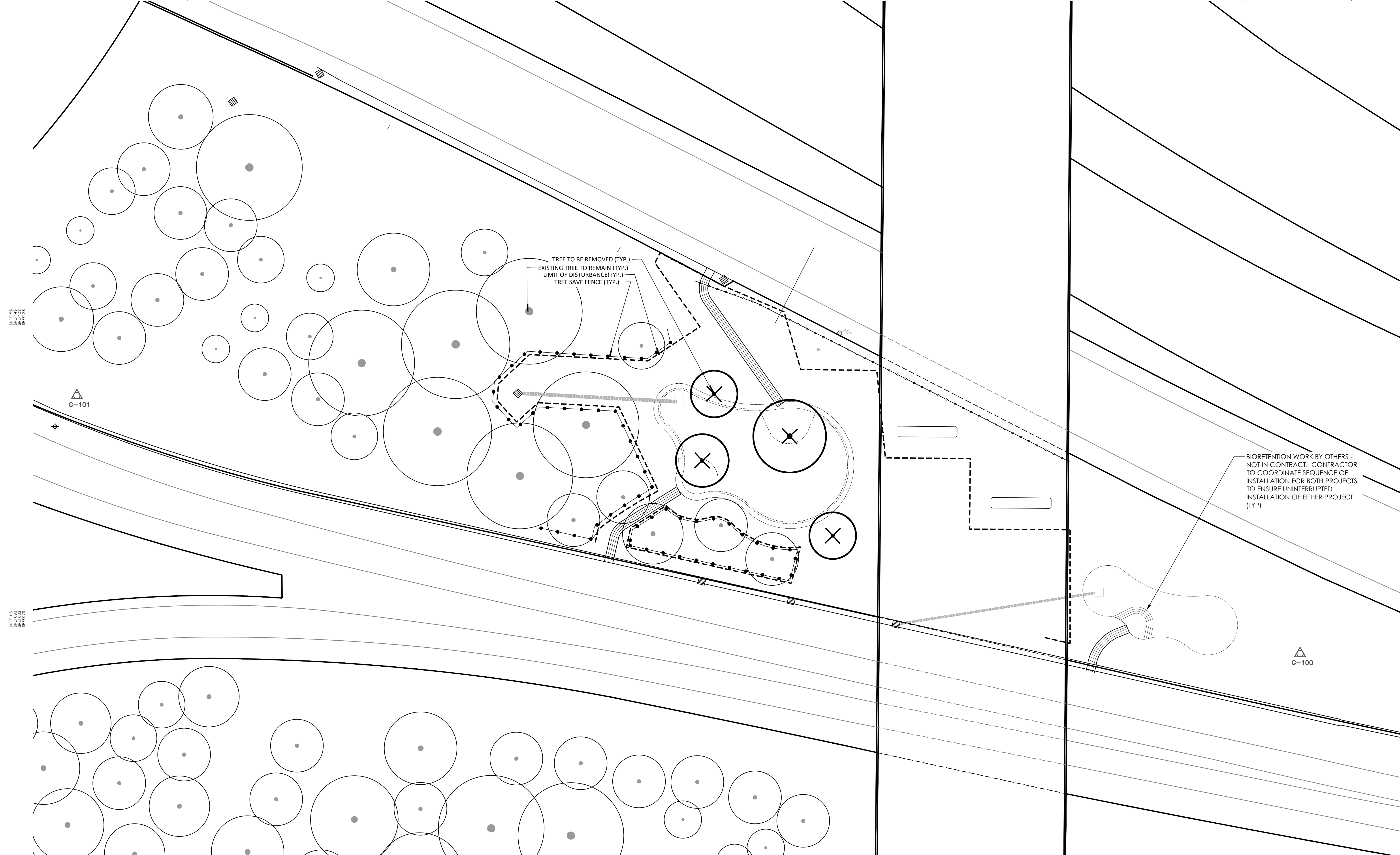
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	EXISTING CONDITION SURVEY	
08/08/2019	FOR BID	CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	BACKCHECKED:	DATE:
CORRECTED:	DATE:	VERIFIED:	DATE:
DRAWING No.			11-001



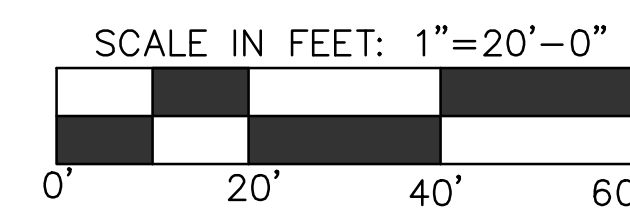
ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



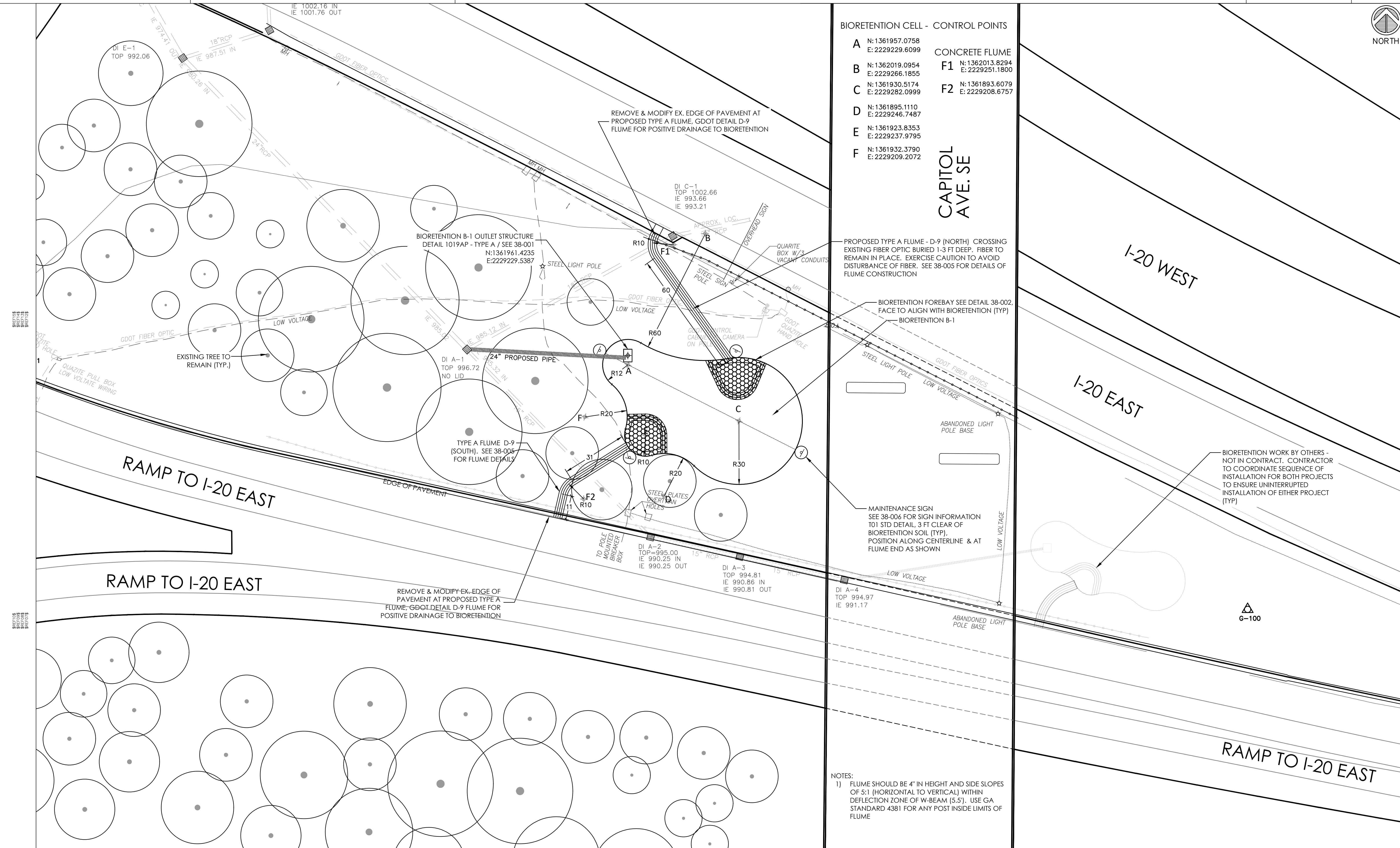
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		PROPOSED SITE PLAN	
08/08/2019 FOR BID		CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	11-002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	EXISTING TREE PLAN	
08/08/2019	FOR BID		
		CAPITOL AVENUE INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	11-003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BIORETENTION CELL - CONTROL POINTS

- | | | |
|----------|------------------------------------|------------------------------------|
| A | N: 1361957.0758
E: 2229229.6099 | CONCRETE FLUME |
| B | N: 1362019.0954
E: 2229266.1855 | F1 |
| C | N: 1361930.5174
E: 2229282.0999 | F2 |
| D | N: 1361895.1110
E: 2229246.7487 | N: 1362013.8294
E: 2229251.1800 |
| E | N: 1361923.8353
E: 2229237.9795 | N: 1361893.6079
E: 2229208.6757 |
| F | N: 1361932.3790
E: 2229209.2072 | |

CAPITOL
AVE. SE

PROPOSED TYPE A FLUME - D-9 (NORTH) CROSSING EXISTING FIBER OPTIC BURIED 1-3 FT DEEP. FIBER TO REMAIN IN PLACE. EXERCISE CAUTION TO AVOID DISTURBANCE OF FIBER. SEE 38-005 FOR DETAILS OF FLUME CONSTRUCTION

BIORETENTION FOREBAY SEE DETAIL 38-002
FACE TO ALIGN WITH BIORETENTION (TYP)
BIORETENTION B-1

MAINTENANCE SIGN
SEE 38-006 FOR SIGN INFORMATION
TO 1 STD DETAIL. 3 FT CLEAR OF
BIORETENTION SOIL (TYP).
POSITION ALONG CENTERLINE & AT
FLUME END AS SHOWN

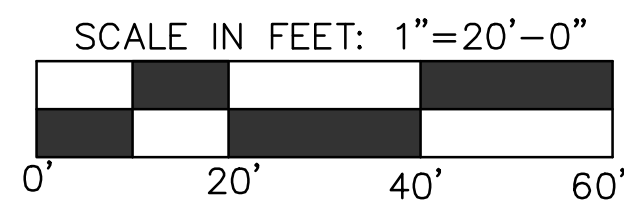
NOTES:
1) FLUME SHOULD BE 4" IN HEIGHT AND SIDE SLOPES OF 5:1 (HORIZONTAL TO VERTICAL) WITHIN DEFLECTION ZONE OF W-BEAM (5.5'). USE GA STANDARD 4381 FOR ANY POST INSIDE LIMITS OF FLUME

BIORETENTION WORK BY OTHERS - NOT IN CONTRACT. CONTRACTOR TO COORDINATE SEQUENCE OF INSTALLATION FOR BOTH PROJECTS TO ENSURE UNINTERRUPTED INSTALLATION OF EITHER PROJECT (TYP)

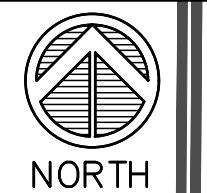
G-100

SOLIDAGO
DESIGN SOLUTIONS, INC.

ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		MAINLINE PLAN	
08/08/2019 FOR BID		CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	13-001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MODIFY EXISTING FLUME TO PROVIDE POSITIVE DRAINAGE CONNECTION WITH PROPOSED TYPE A CONCRETE FLUME

PROPOSED TYPE A CONCRETE FLUME - 72' @ 10.7%
SEE 23-001 FOR FLUME CROSS SECTIONS

PROPOSED TYPE A CONCRETE FLUME CROSSING EXISTING FIBER OPTIC BURIED 1-3 FT DEEP. FIBER TO REMAIN IN PLACE. EXERCISE CAUTION TO AVOID DISTURBANCE OF FIBER

EXISTING GUARDRAIL TO REMAIN

LIMITS OF BIORETENTION SOIL MIX 48 IN DEEP
BIORETENTION B1
4,420 SF @ 9 IN PONDING
PONDING ELEVATION 995.00

BIORETENTION B1 OUTLET STRUCTURE
IE 996.00 TOP, WEIR 995.00
IE 992.00 IN, 8" UNDERDRAIN UPTURNED ELBOW (24" IWS)
IE 988.50 OUT, 24" RCP

DI A-1
TOP 996.72
NO LID

IE 987.97 IN 70' @ 0.75%
PROPOSED 24" PIPE 988.50 OUT

CLEAN OUT (TYP)
UNDERDRAIN (TYP) SEE 38-004
RIP-RAP FOREBAY (TYP) SEE 38-003
23-001
CROSS SECTION

995.00 WEIR
994.25 FOREBAY

10' TYP SOIL = 994.00
MULCH = 994.25
WATER QUALITY = 995.00

994.25 FOREBAY
995.00 WEIR

PROPOSED TYPE A CONCRETE FLUME - 50' @ 1.0%
SEE 23-001 FOR FLUME CROSS SECTIONS

TREE PROTECTION GENERAL NOTES:
"THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR UNDER THE DRIP LINE OF EXISTING TREES IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION."

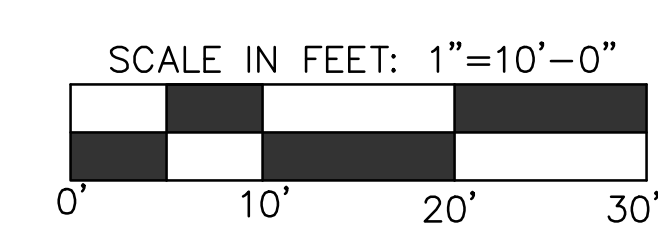
DI A-2
TOP=995.00
IE 990.25 IN
IE 990.25 OUT

DI A-3
TOP 994.81
IE 990.86 IN
IE 990.81 OUT

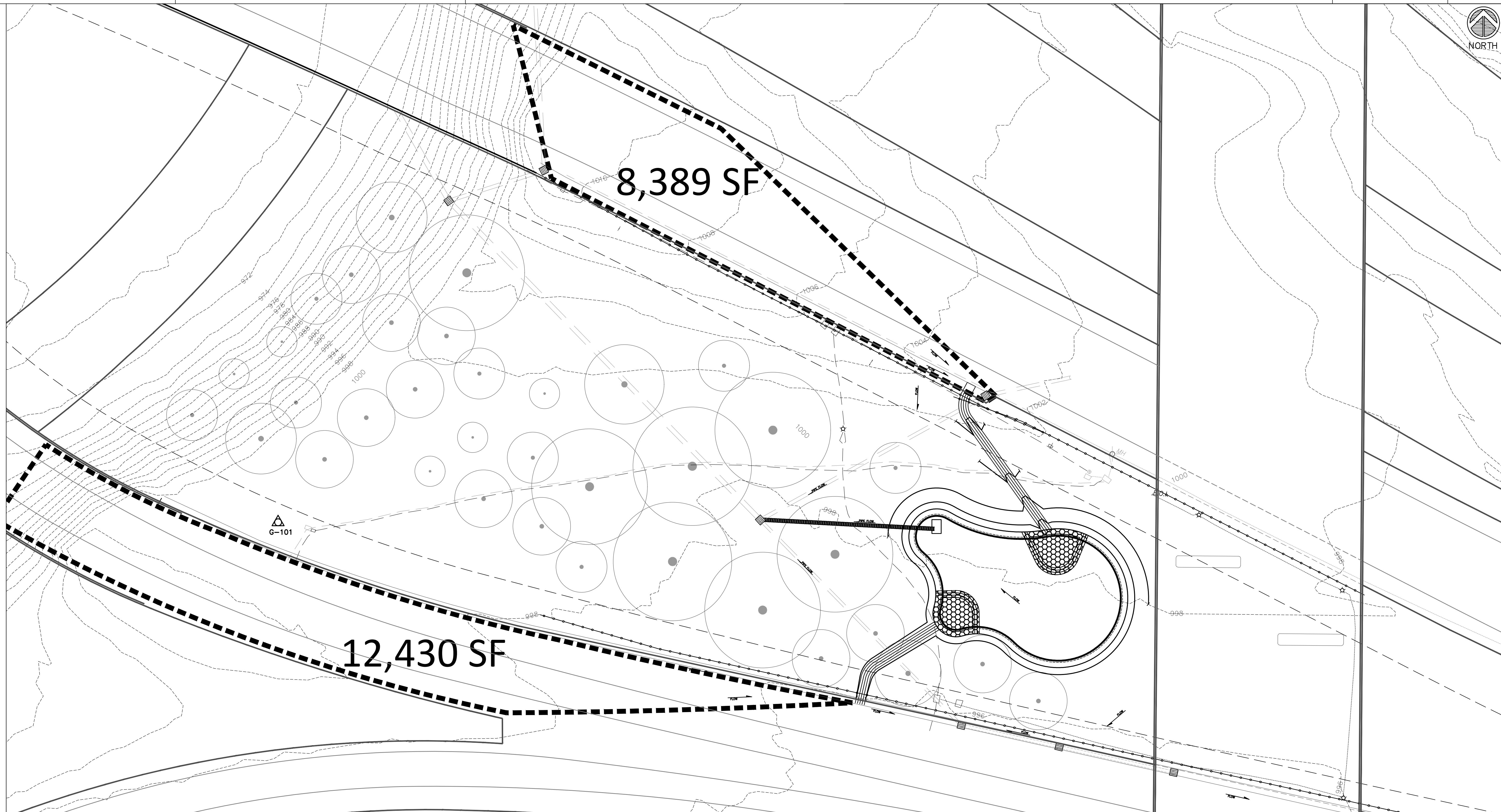
DI A-4
TOP 994.97
IE 991.17



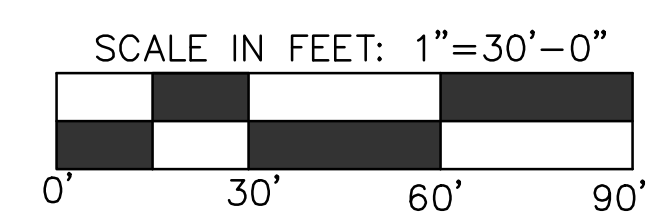
ATLANTA DOWNTOWN IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



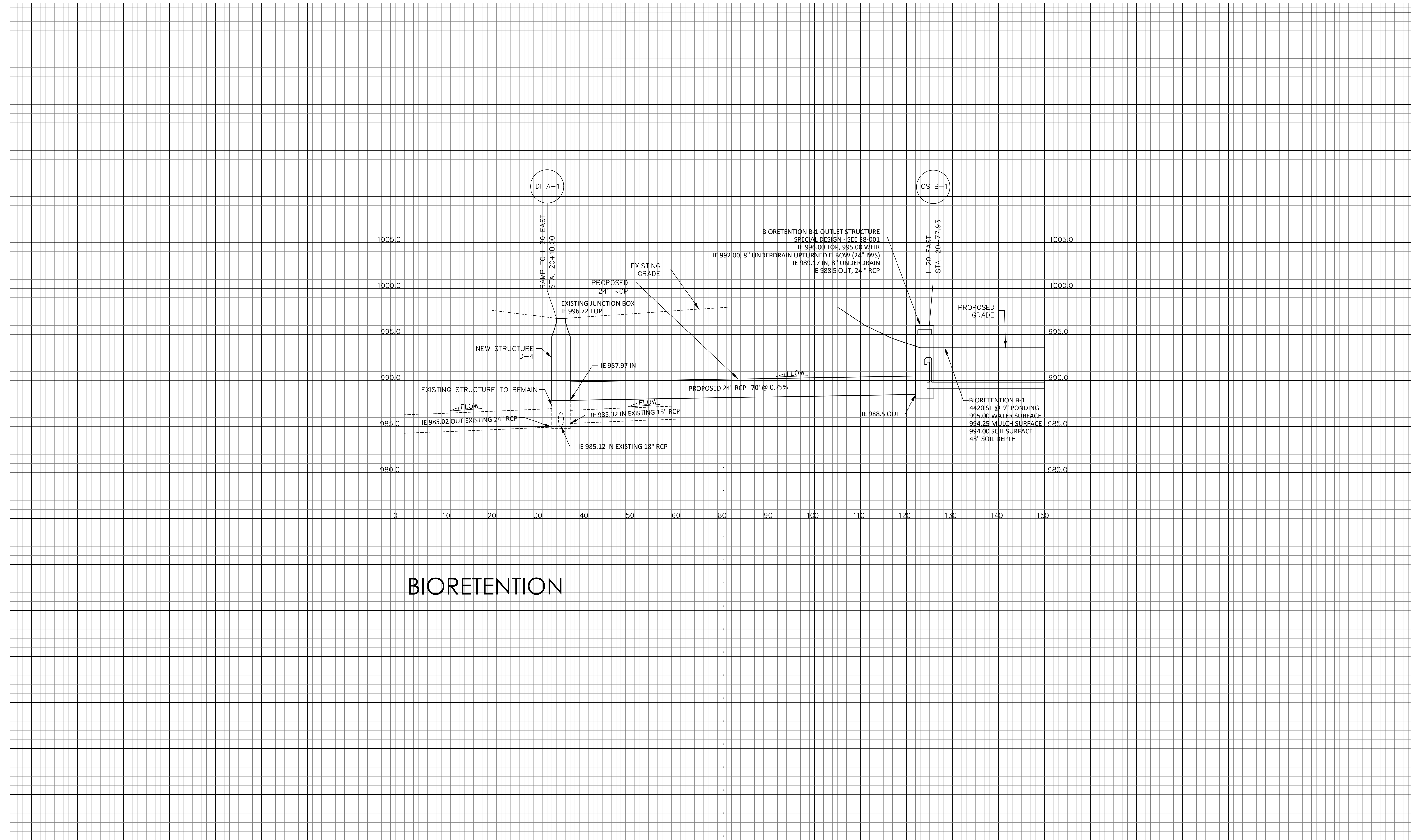
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		SPECIAL GRADING	
08/08/2019 FOR BID		CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	18-001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		DRAINAGE AREA MAP	
08/08/2019 FOR BID		CAPITOL AVENUE INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	21-001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BIORETENTION



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: 1"=10' HORIZONTAL
SCALE IN FEET: 1"=5' VERTICAL

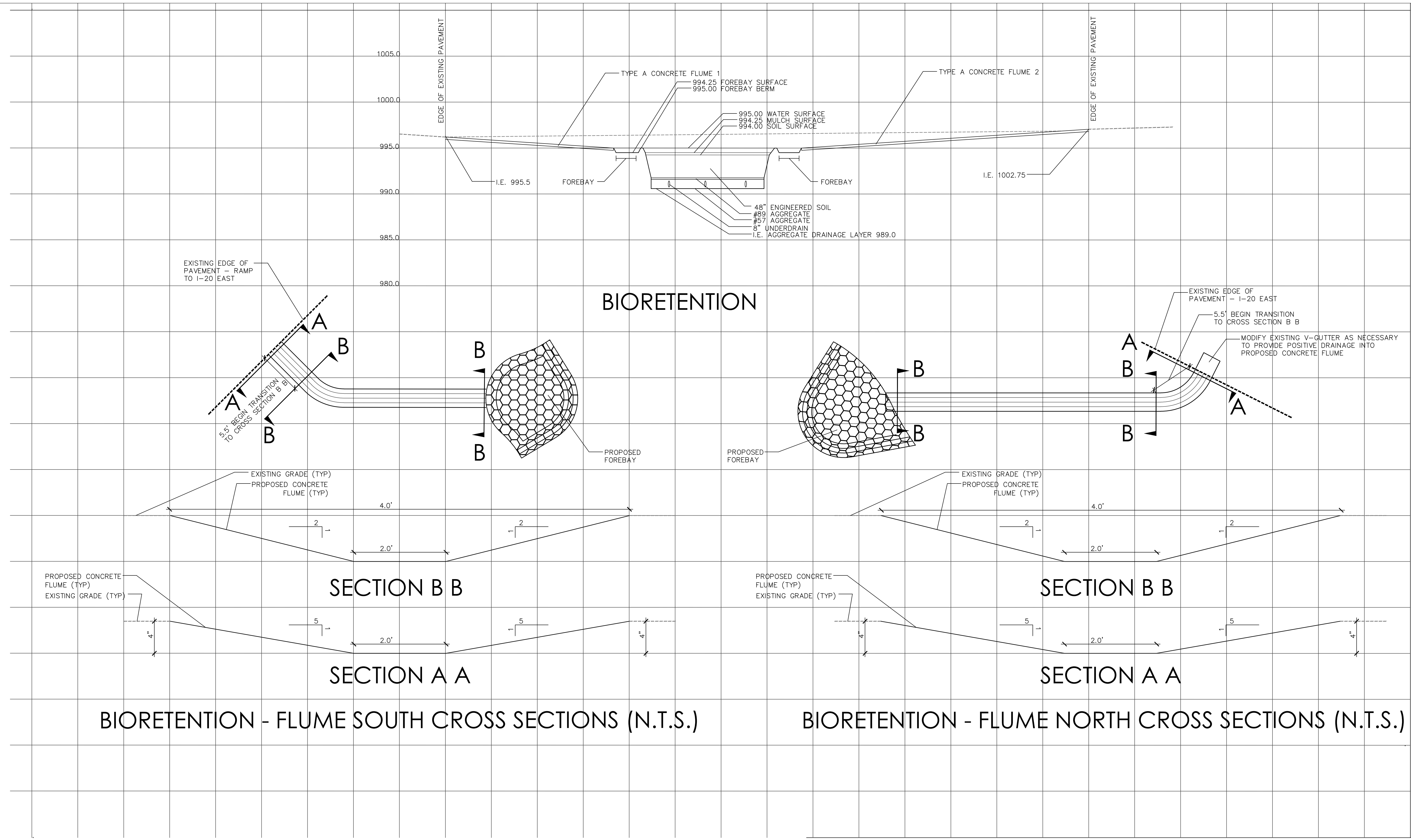
REVISION DATES

06/26/2019 GDOT REVIEW
08-AUG-2019 FOR BID

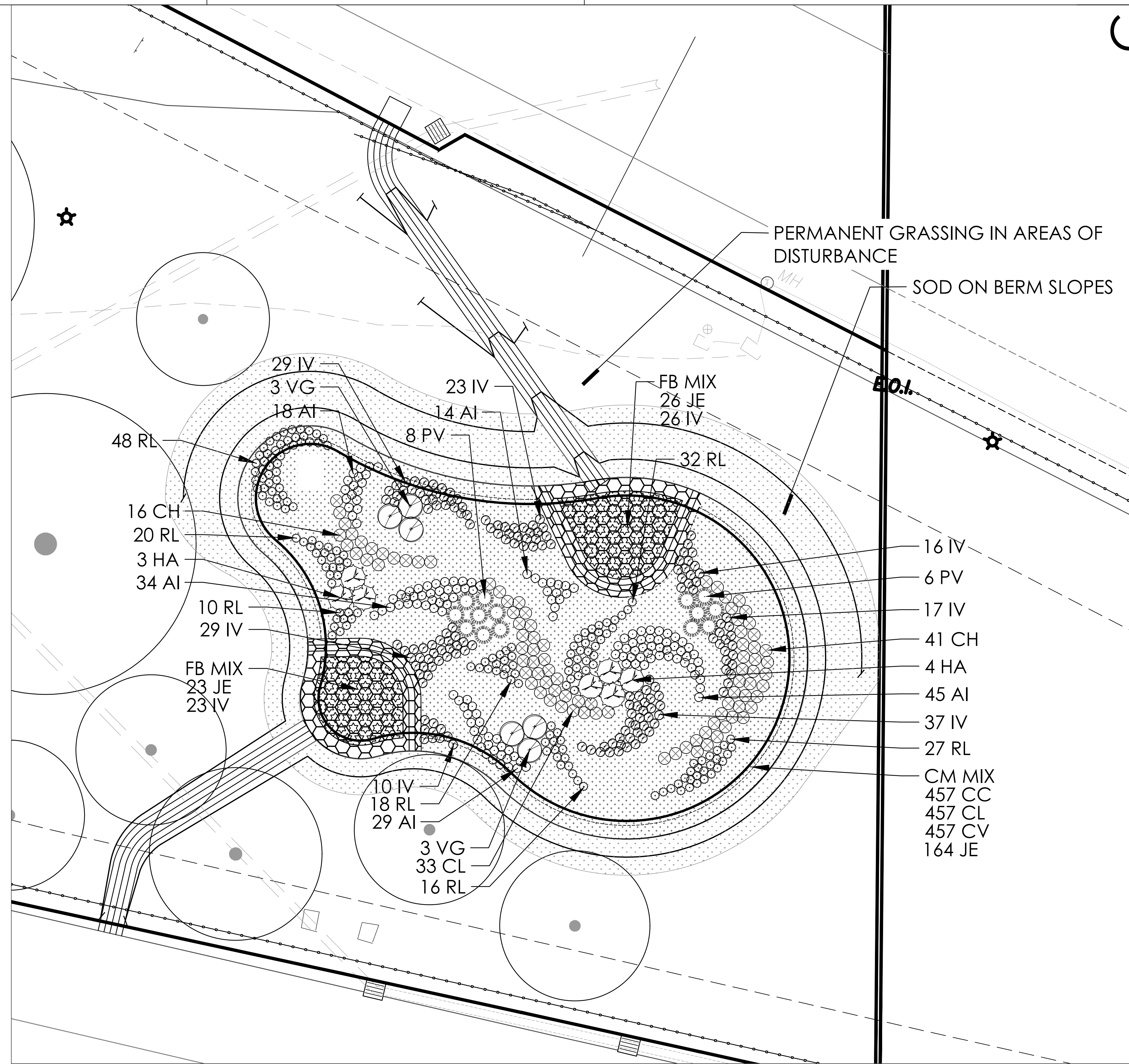
STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
PROFILES

CAPITOL AVENUE INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	22-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



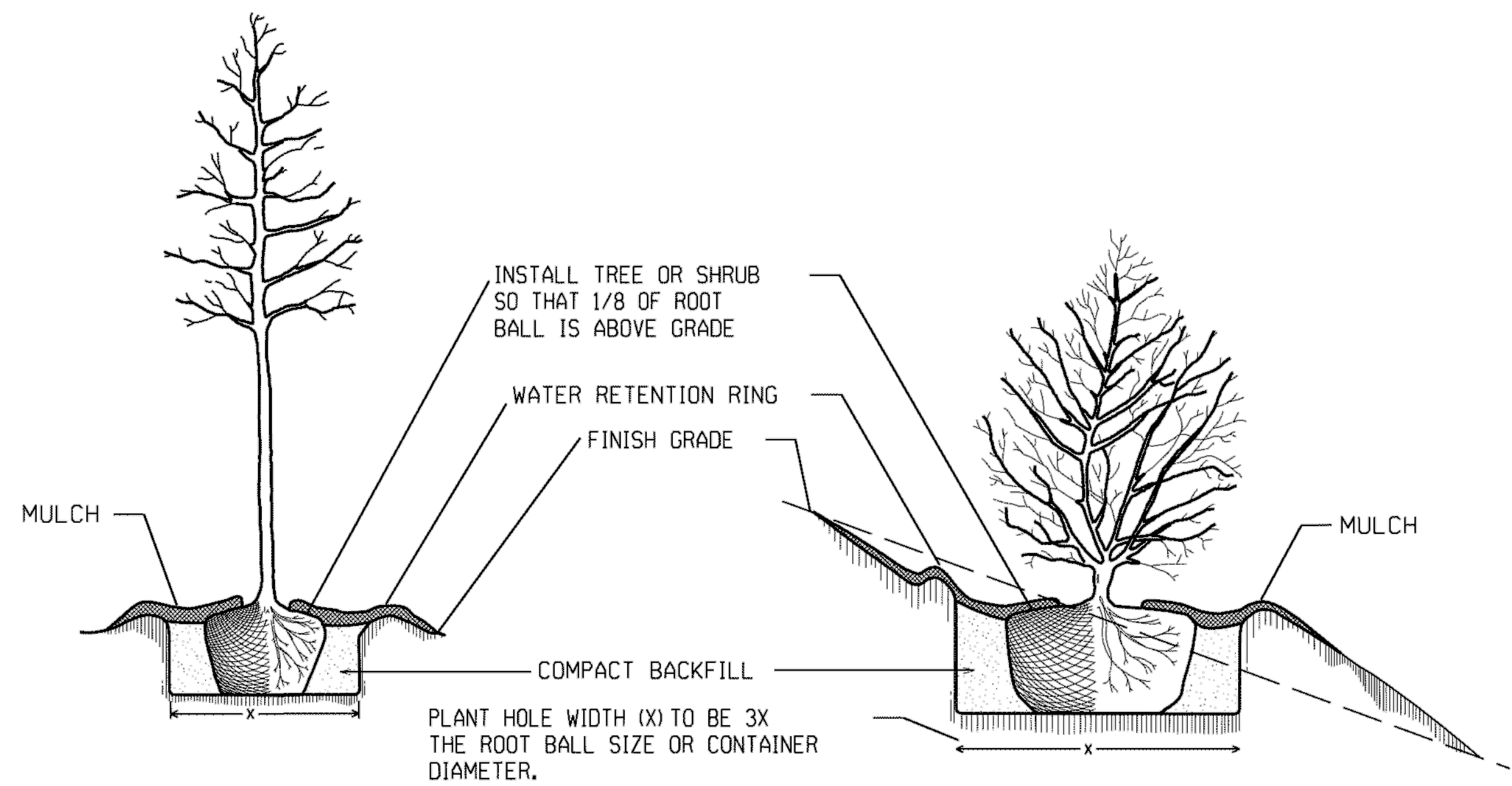
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		CROSS SECTIONS	
08/08/2019 FOR BID		CAPITOL AVENUE INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23- 001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



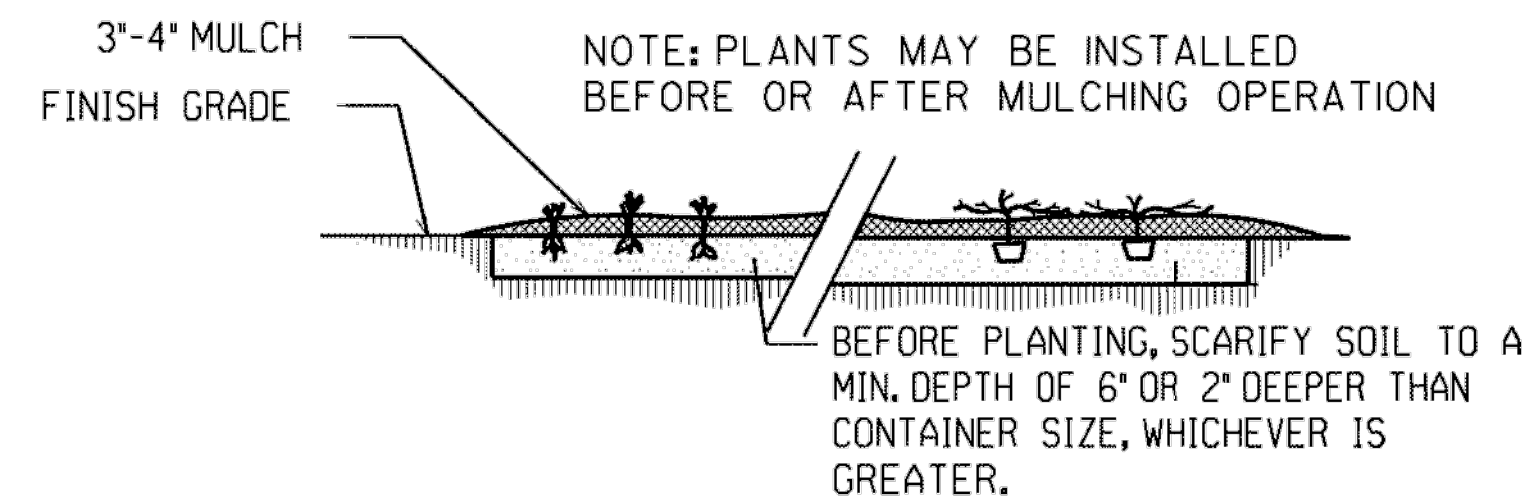
LANDSCAPE ENLARGEMENT B PLANT LIST						
Key	QTY	Botanical Name	Common Name	Size	Spacing	Notes
CAREX MATRIX MIX (CM MIX)						
CC	457	Carex crinata	Fringed Sedge	SP1 (plug)	12"	Plant sedges in cluster of 5-7 of a species, spacing clusters of 1-3 rush throughout the basin.
CL	457	Carex lurida	Shallow Sedge	SP1 (plug)	12"	
CV	457	Carex vulpinoidea	Fox Sedge	SP1 (plug)	12"	
JE	154	Juncus effusus	Soft Rush	SP1 (plug)	12"	
GROUND LAYER MASSES						
AI	140	Asclepius incarnata	Swamp Milkweed	1 gal	18"	
CH	90	Chasmanthium latifolium	River Oats	1 gal	24"	
HA	7	Helianthus angustifolia	Swamp Sunflower	1 gal	48"	
IV	161	Iris versicolor	Blue Flag Iris	1 gal	18"	
PV	14	Panicum virgatum	Switchgrass	1 gal	36"	
RL	171	Rudbeckia laciniata	Cutleaf Coneflower	1 gal	18"	
VG	6	Vernonia gigantea	Giant Ironweed	1 gal	48"	
FOREBAY MIX (FB MIX)						
IV	49	Iris versicolor	Blue Flag Iris	SP1 (plug)	24"	Interplant in between rip-rap, in clusters of 3-5 of a species, approximately 24" on center.
JE	49	Juncus effusus	Soft Rush	SP1 (plug)	24"	

1 LANDSCAPE ENLARGEMENT
29-001

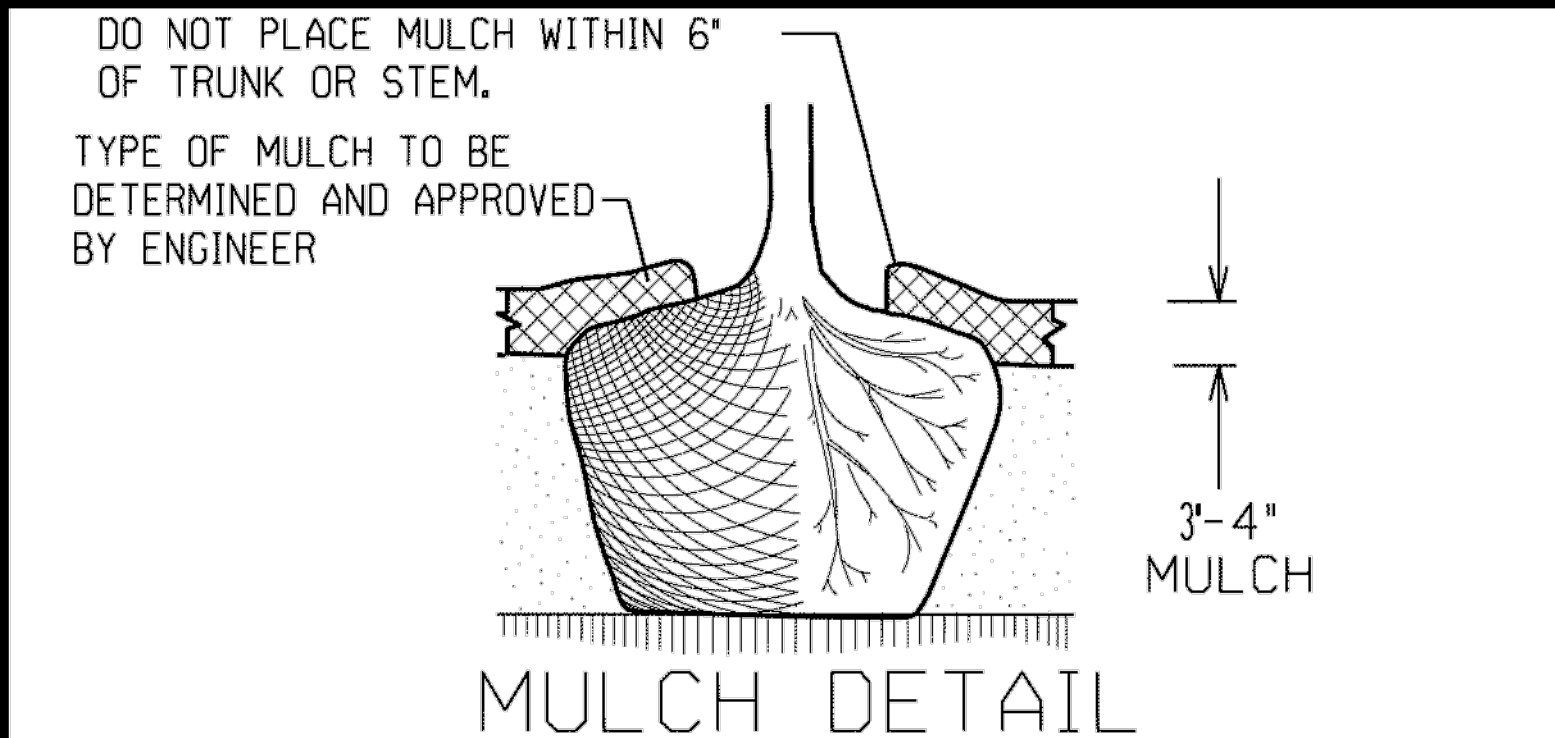
2 LANDSCAPE ENLARGEMENT - PLANT LIST
29-001



TREE OR SHRUB PLANTING DETAIL (LEVEL GROUND) TREE OR SHRUB PLANTING DETAIL (SLOPING GROUND)



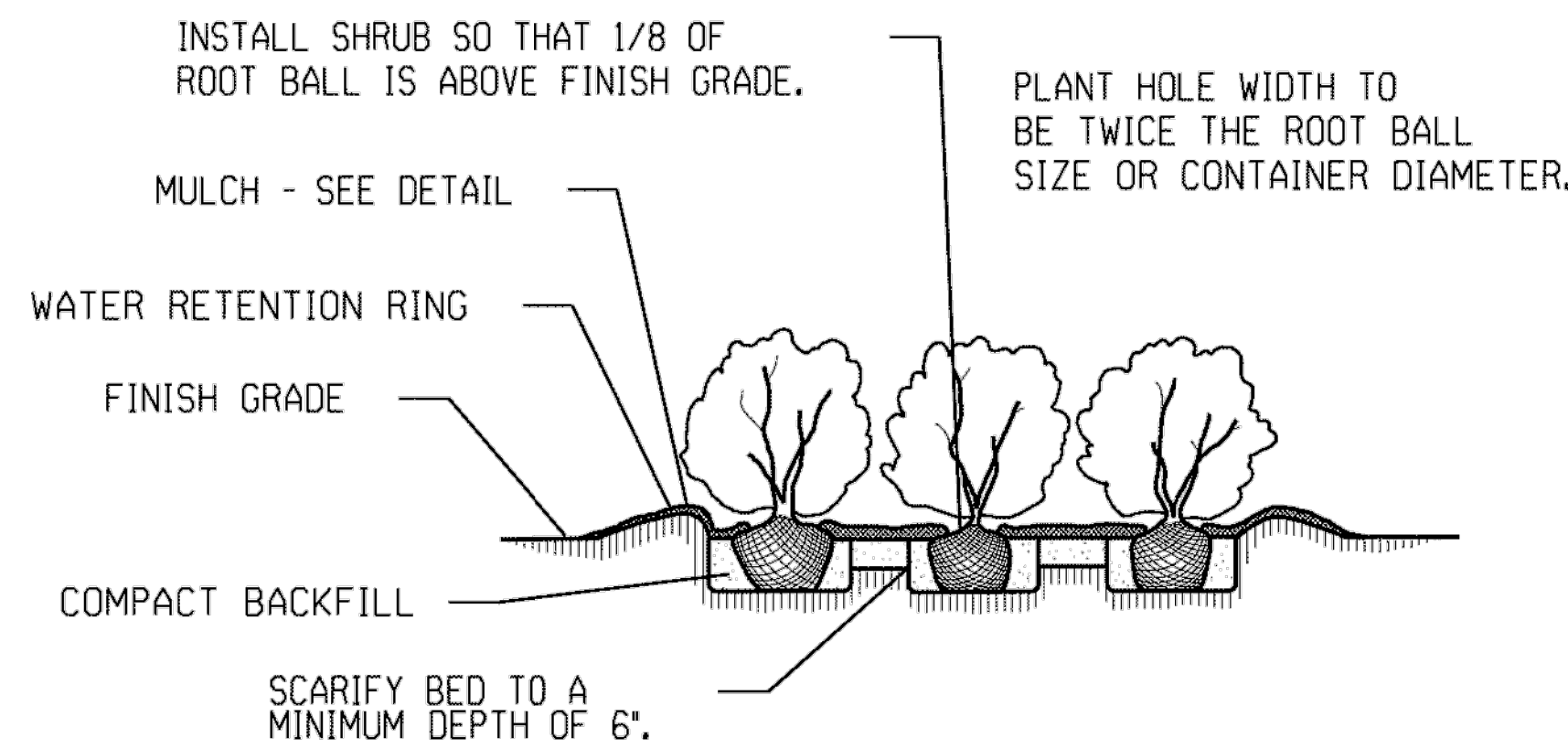
GROUND COVER/ BEDDING PLANT DETAIL



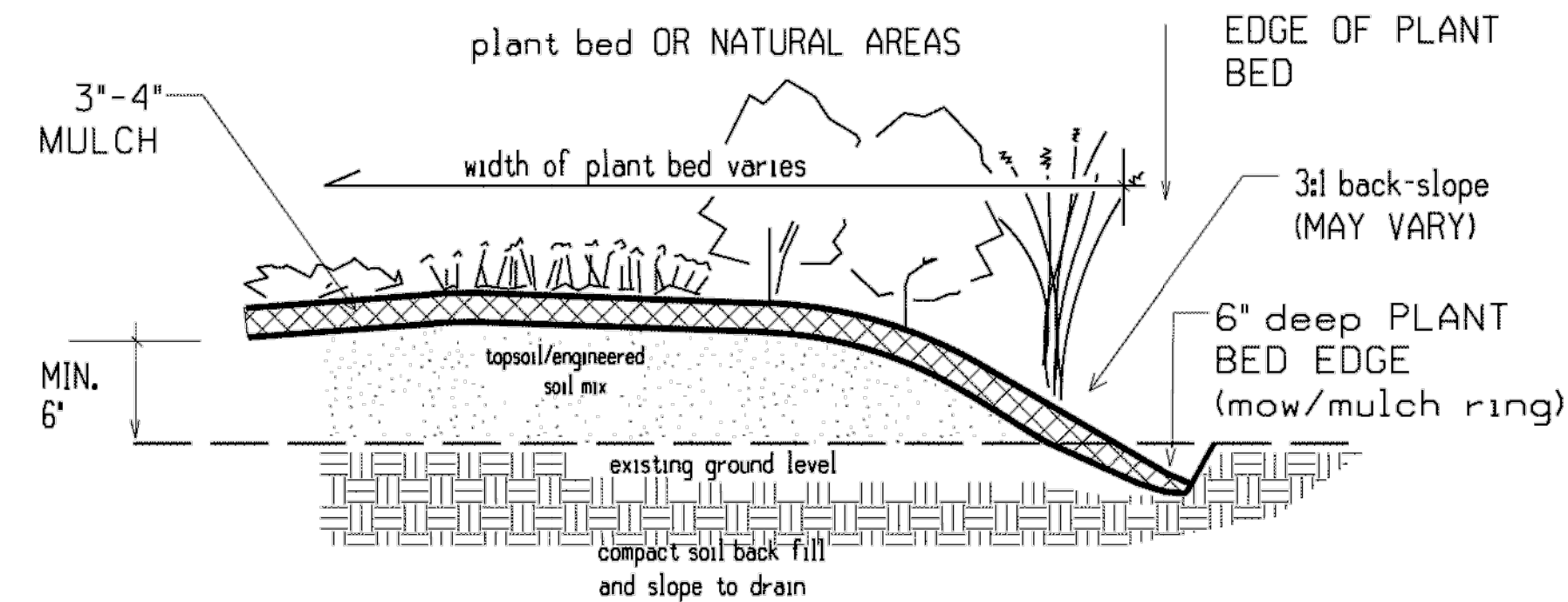
NOTE: MULCH SHOULD BE AT LEAST 6" AWAY FROM THE TRUNKS OF TREES AND STEMS OF SHRUBS. DO NOT MOUND MULCH UP AGAINST THE TRUNKS OF TREES OR BURY THE STEMS OF SHRUBS WITH MULCH.

NOTES:

- SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE 3X THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLETT OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION IN ORDER TO CONFORM TO MS4 REQUIREMENTS.
- REMOVE WIRE BASKET AND REMOVE BURLAP FROM AS MUCH OF THE ROOT BALL AS POSSIBLE WITHOUT DAMAGING THE ROOTS BEFORE BACKFILLING IS COMPLETE.
- ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.
- TABLE BELOW SHALL BE FILLED OUT AND SHOWN ON THE LANDSCAPE PLANS.
- REFER TO THE CURRENT EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60.1 FOR COMMON NURSERY STANDARDS AND TERMINOLOGIES.
- SEE GDOT POLICY "6755-9-Policy for Landscaping and Enhancements on GDOT Right of Way" CHAPTER 6 FOR MINIMUM PLANT HEIGHTS AND MINIMUM ACCEPTABLE CONTAINER SIZES.



SHRUB BED PLANTING DETAIL



PLANT BED EDGE DETAIL

QUANTITIES GLOSSARY:

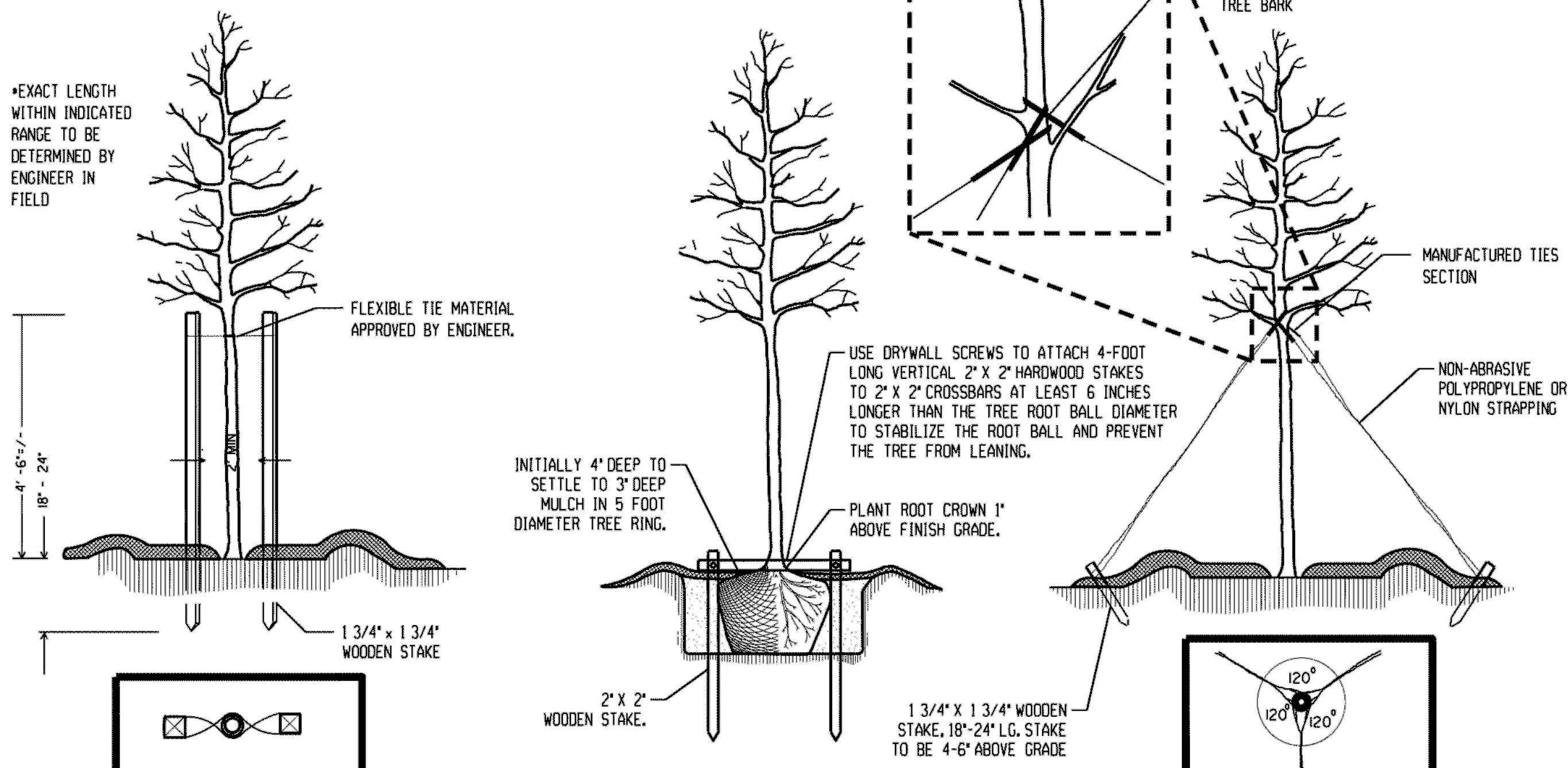
CALIPER - The diameter measurement of the stem or trunk of a nursery plant. The location of measurement depends on plant type.

HEIGHT - Vertical distance between the collar/ground line and the top of the stem.

SPREAD - The horizontal width of a shrub or the crown of a tree.

ROOT - The type/volume of container that contains the root ball of the selected nursery plant. Volume of container based on the height, spread, and type of plant selected.

SPACING - Plant spacing based on mature plant spread.



PLAN VIEW STAKING DETAIL (TREES 6'-10') USE AS DIRECTED BY FIELD ENGINEER
 ALTERNATE STAKING DETAIL (TREES 6'-10') USE AS DIRECTED BY FIELD ENGINEER
 PLAN VIEW GUYING DETAIL (TREES 10' OR LARGER) USE AS DIRECTED BY FIELD ENGINEER

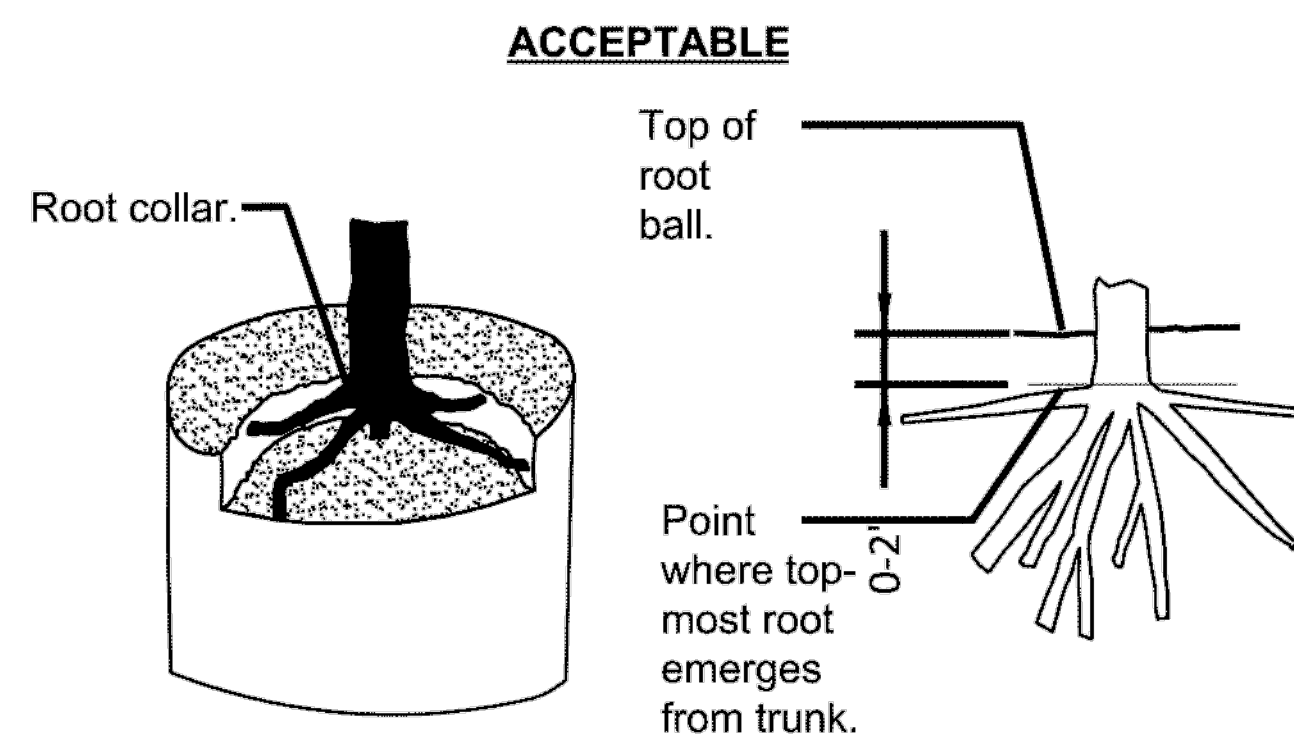
- NOTE:
- IF GUYING TREE ON SLOPE, CONTRACTOR TO ENSURE TENSION FOR GUY WIRE IS ON UPHILL SIDE OF SLOPE.
 - STRAPS SHALL HAVE ENOUGH SLACK TO ALLOW MOVEMENT OF THE TRUNK AND TOP, BUT NOT ENOUGH TO ALLOW THE ROOT BALL TO SHIFT.



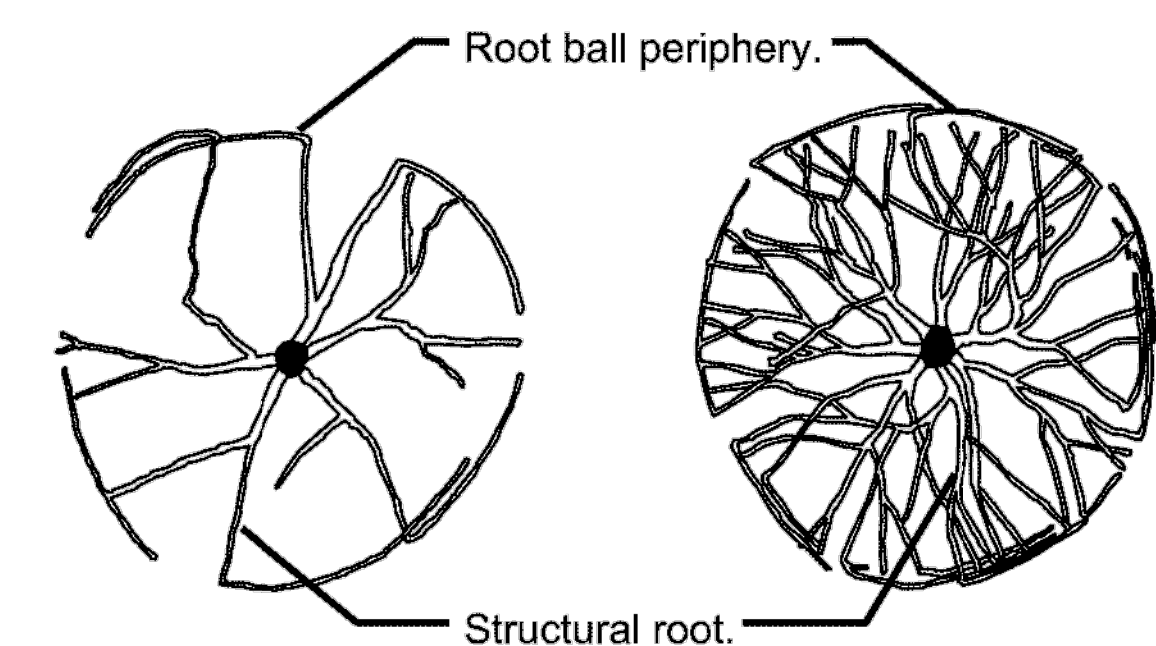
ATLANTA DOWNTOWN IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

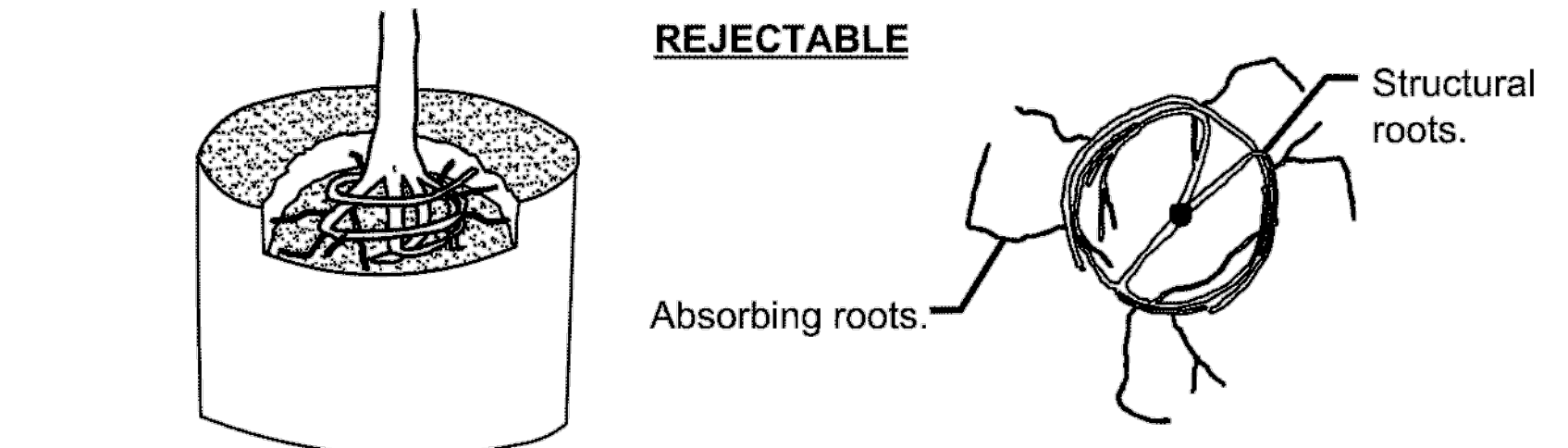
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		LANDSCAPE DETAILS	
08/08/2019 FOR BID		CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



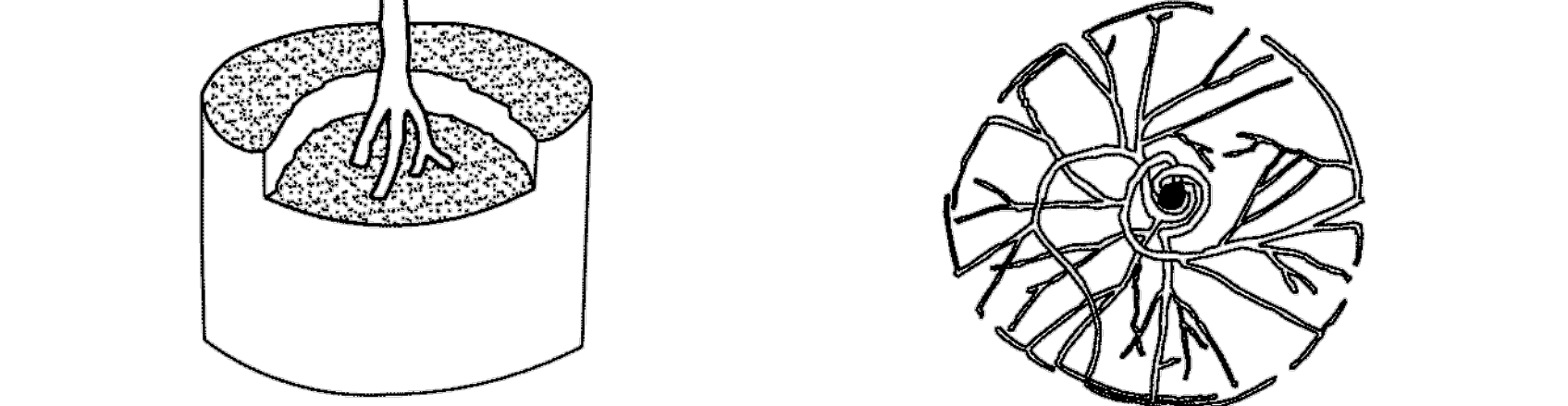
The point where top-most root(s) emerges from the trunk (root collar) should be within the top 2" of substrate. The root collar and the root ball interior should be free of defects including circling, kinked, ascending, and stem girdling roots. Structural roots shall reach the periphery near the top of the root ball.



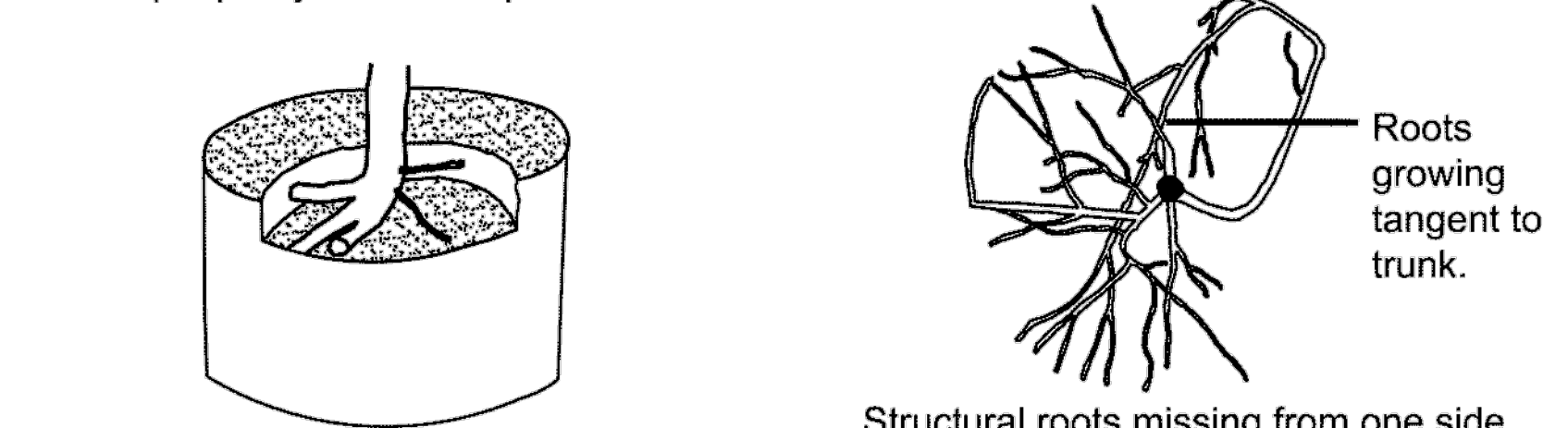
Roots radiate from trunk and reach side of root ball without deflecting down or around.



Structural roots circle interior of root ball. No structural roots are horizontal and reach the root ball periphery near the top of the root ball. Only absorbing roots reach the periphery near the top of the root ball. Structural roots mostly wrap or are deflected on the root ball interior.



Structural roots descend into root ball interior. No structural roots are horizontal and reach the root ball periphery near the top of the root ball. Structural roots circle and do not radiate from the trunk.



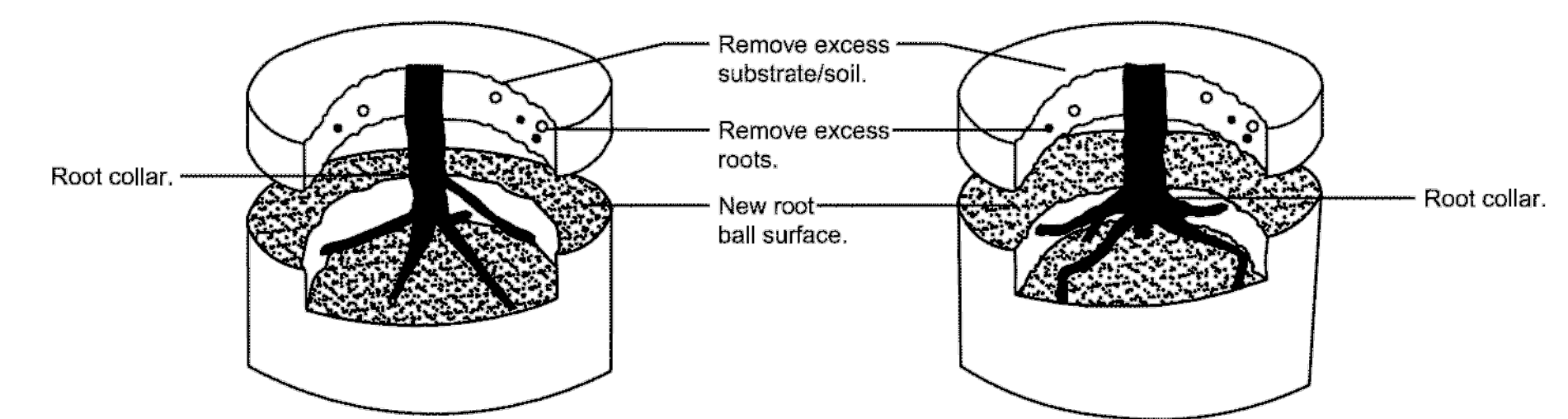
Structural roots primarily grow to one side. Structural roots missing from one side, and/or grow tangent to trunk.

- Notes:
- 1- Observations of roots shall occur prior to acceptance. Roots and substrate may be removed during the observation process; substrate/soil shall be replaced after observation has been completed.
 - 2- Small roots (1/4" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
 - 3- See specifications for observation process and requirements.

ROOT OBSERVATIONS DETAIL - CONTAINER

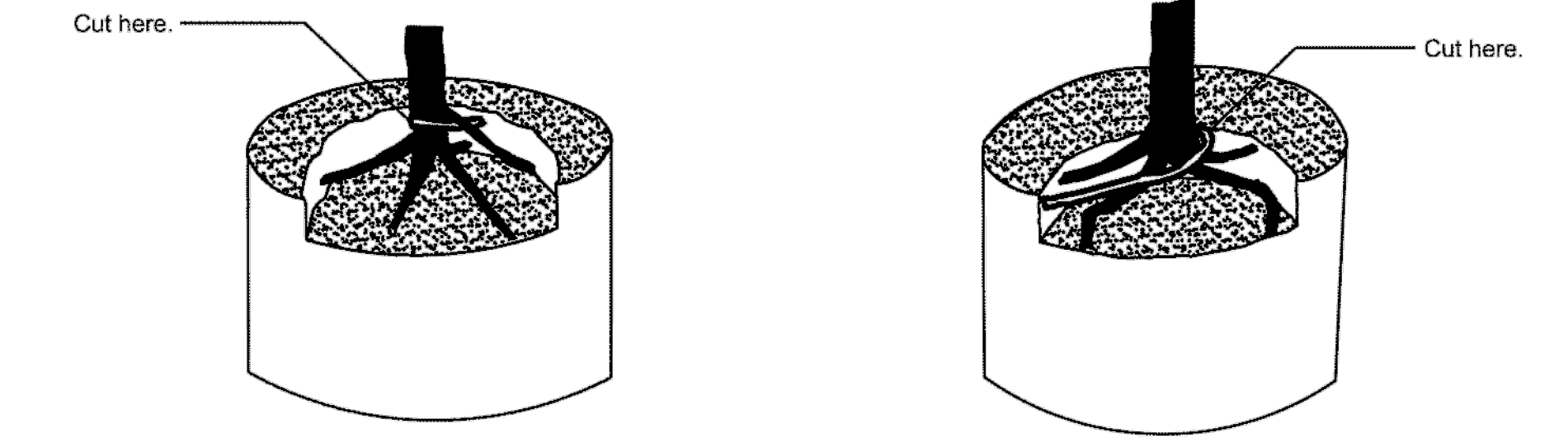
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Step 1 - Remove substrate over root collar.

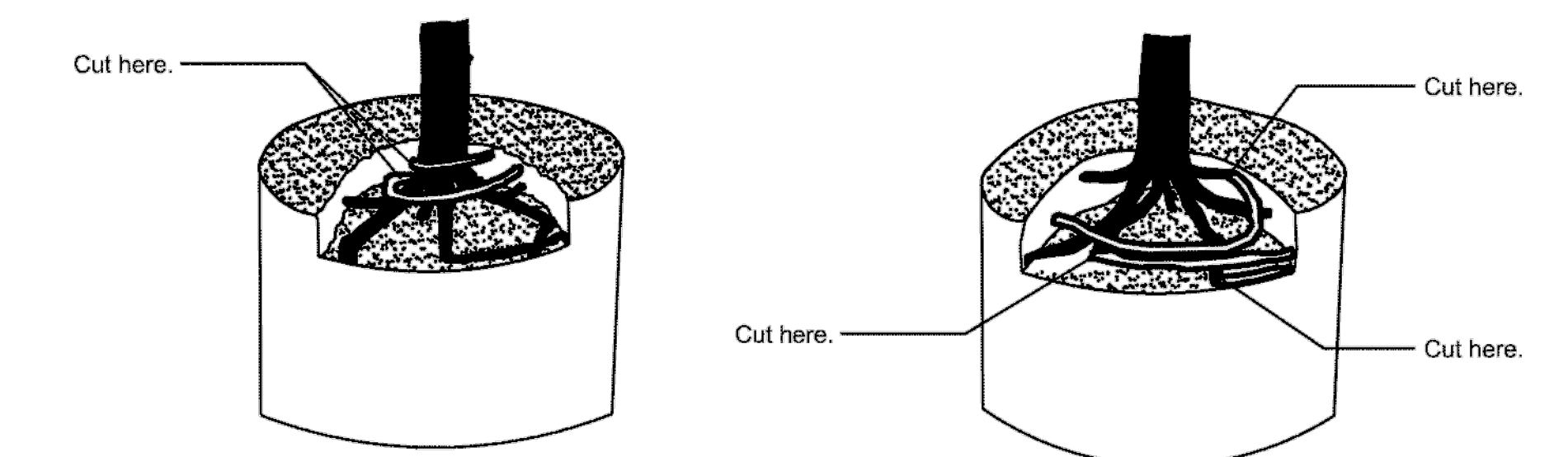


Tree planted too deeply in root ball. Remove excess substrate and roots to meet root inspection detail.

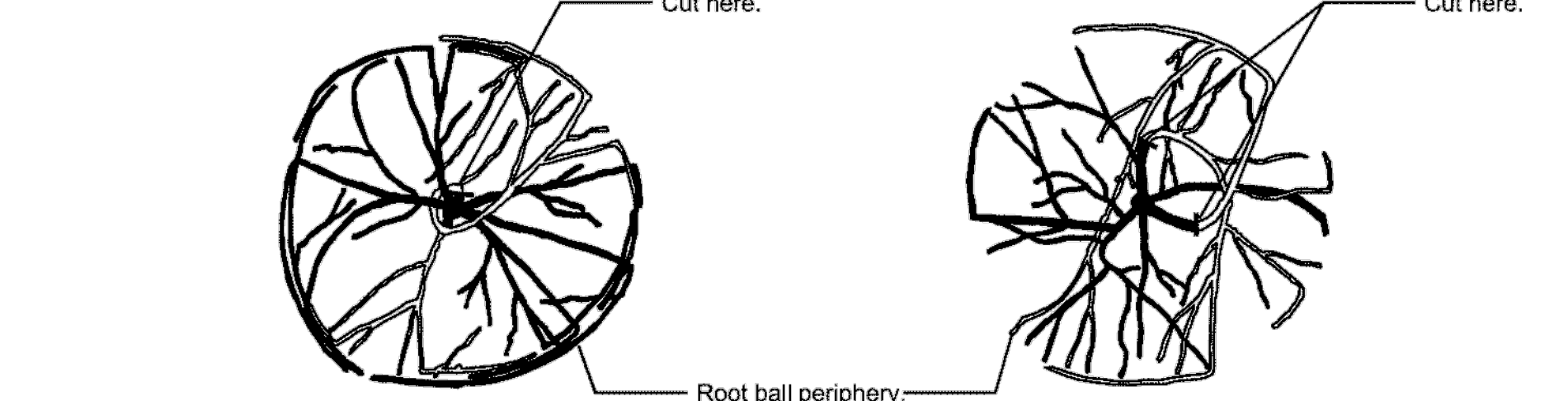
Step 2 - Remove defects.



Five structural (large) roots shown in black. Remove structural root (white) wrapping root collar. Four structural roots shown in black. Remove root (white) growing over structural roots.



Six structural roots shown in black. Remove roots (white) growing over root collar by cutting them just before they make an abrupt turn. Seven structural roots shown in black. Remove structural roots (white) growing around or over root collar by cutting them just before they make an abrupt turn.



Cut structural root just before it makes abrupt turn. Pruning cut should be made tangent (parallel) to the trunk. Cut structural roots just before they make abrupt turn by cutting tangent (parallel) to the trunk (two cuts shown).

- Notes:
- 1- All trees shown are rejectable unless they undergo recommended correction.
 - 2- First Step 1, then Step 2. Roots and soil may be removed during the correction process; substrate/soil shall be replaced after correction has been completed.
 - 3- Trees shall meet root observations detail following correction.
 - 4- Small roots (1/4" or less) on the periphery of the root ball are common with container plant production. These small roots are not defined as "defects" and can be addressed at the time of installation (See root ball shaving container detail).

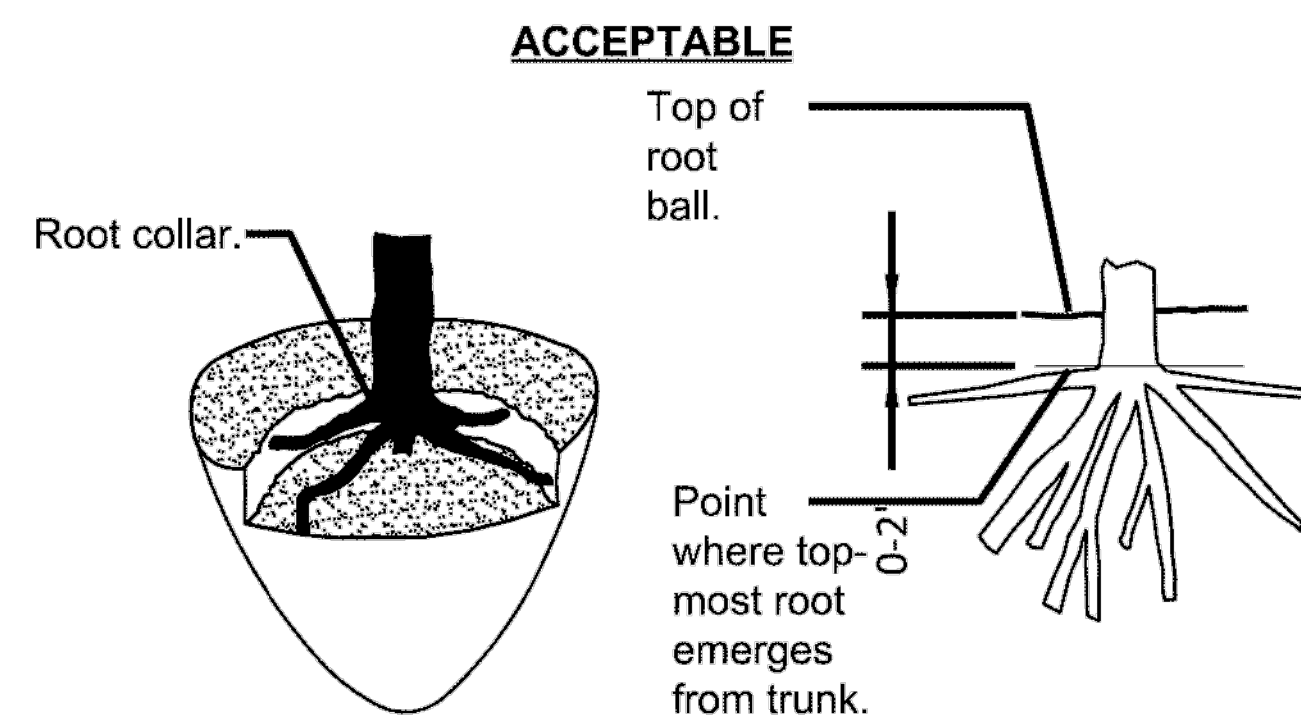
ROOT CORRECTION DETAIL - CONTAINER

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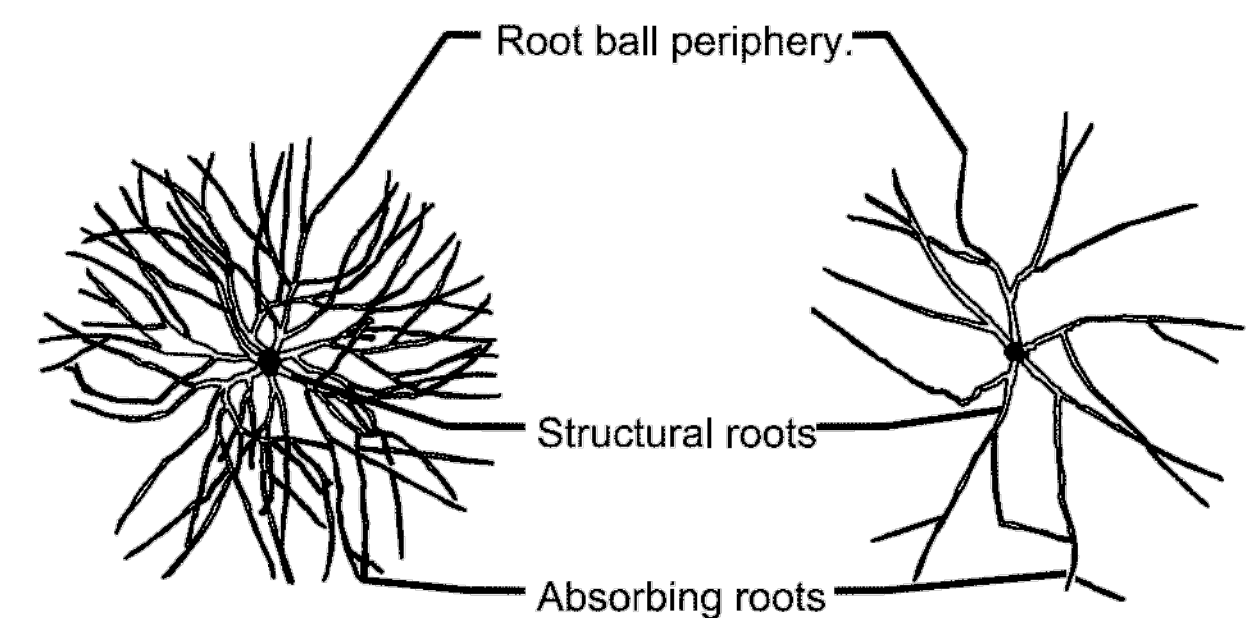
SOLIDAGO
DESIGN SOLUTIONS, INC.
ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

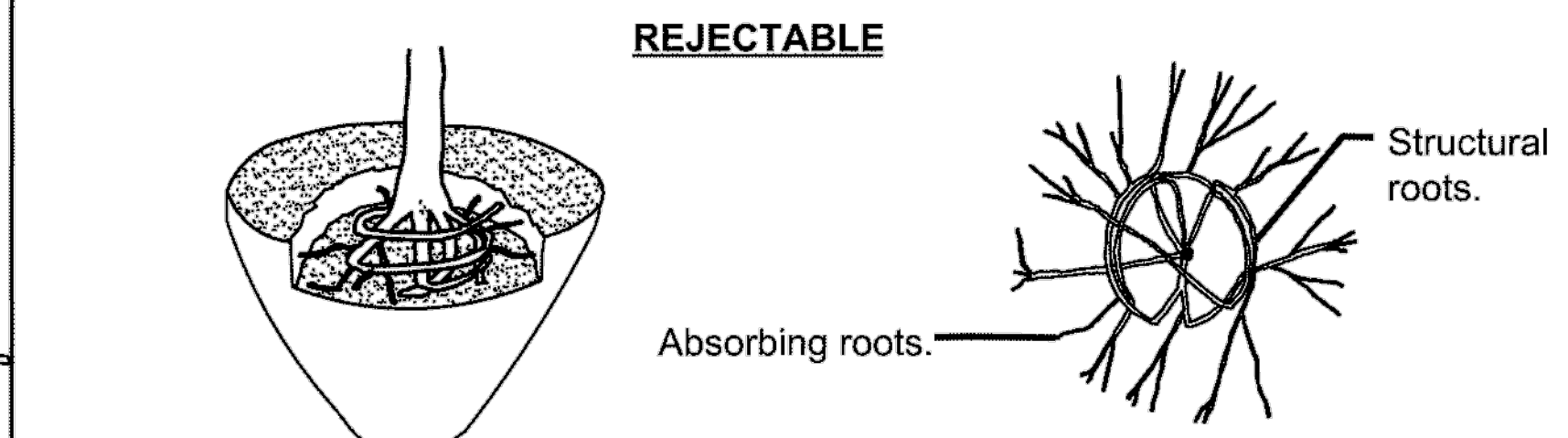
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		LANDSCAPE DETAILS	
08/08/2019 FOR BID		CAPITOL AVENUE INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	29-003	
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The point where top-most root(s) emerges from the trunk (root collar) should be within the top 2" of substrate. The root collar and the root ball interior should be free of defects including circling, kinked, ascending, and stem girdling roots. Structural roots shall reach the periphery near the top of the root ball.

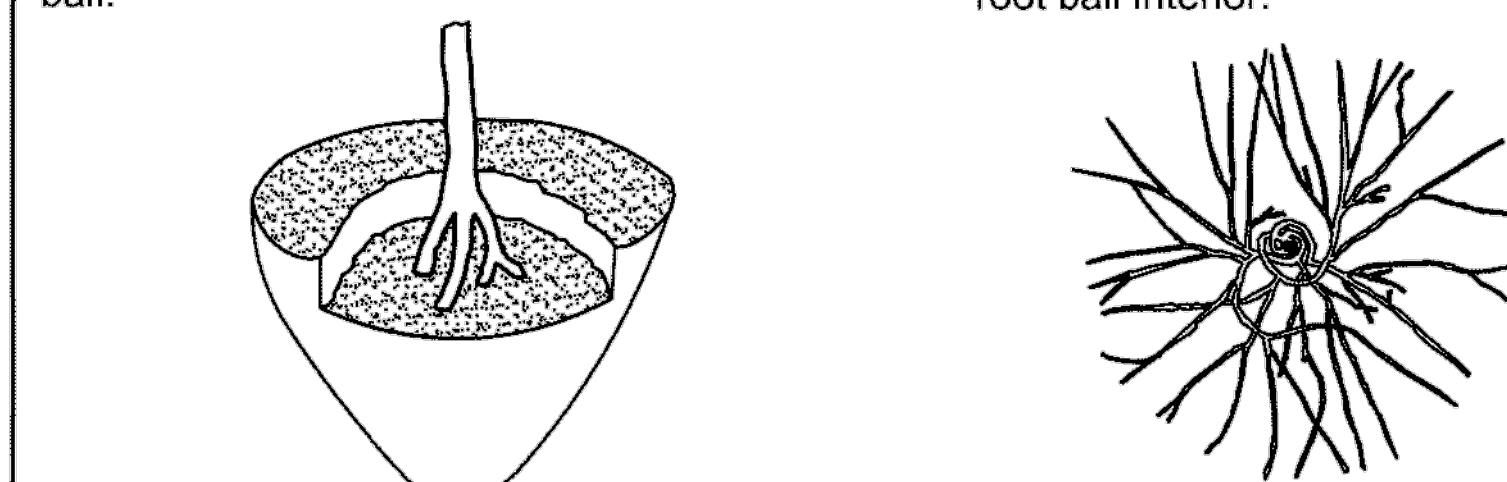


Roots radiate from trunk and reach side of root ball without defecting down or around.



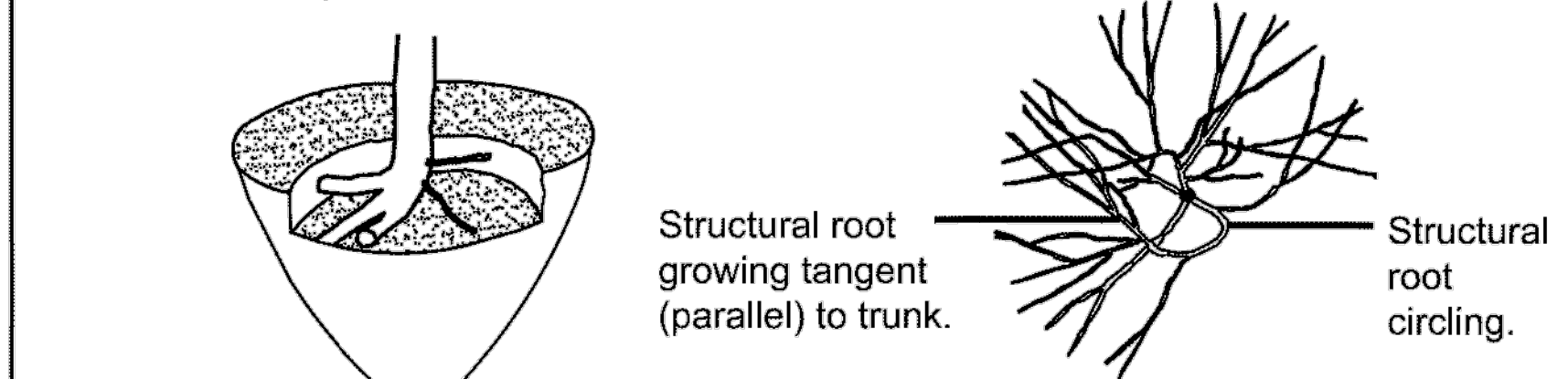
Structural roots circle interior of root ball. No structural roots are horizontal and reach the root ball periphery near the top of the root ball.

Only absorbing roots reach the periphery near the top of the root ball. Structural roots mostly wrap or are deflected on the root ball interior.



Structural roots descend into root ball interior. No structural roots are horizontal and reach the root ball periphery near the top of the root ball.

Structural roots circle and do not radiate from the trunk.



Structural roots primarily grow to one side.

Structural roots missing from one side, and/or grow tangent to trunk.

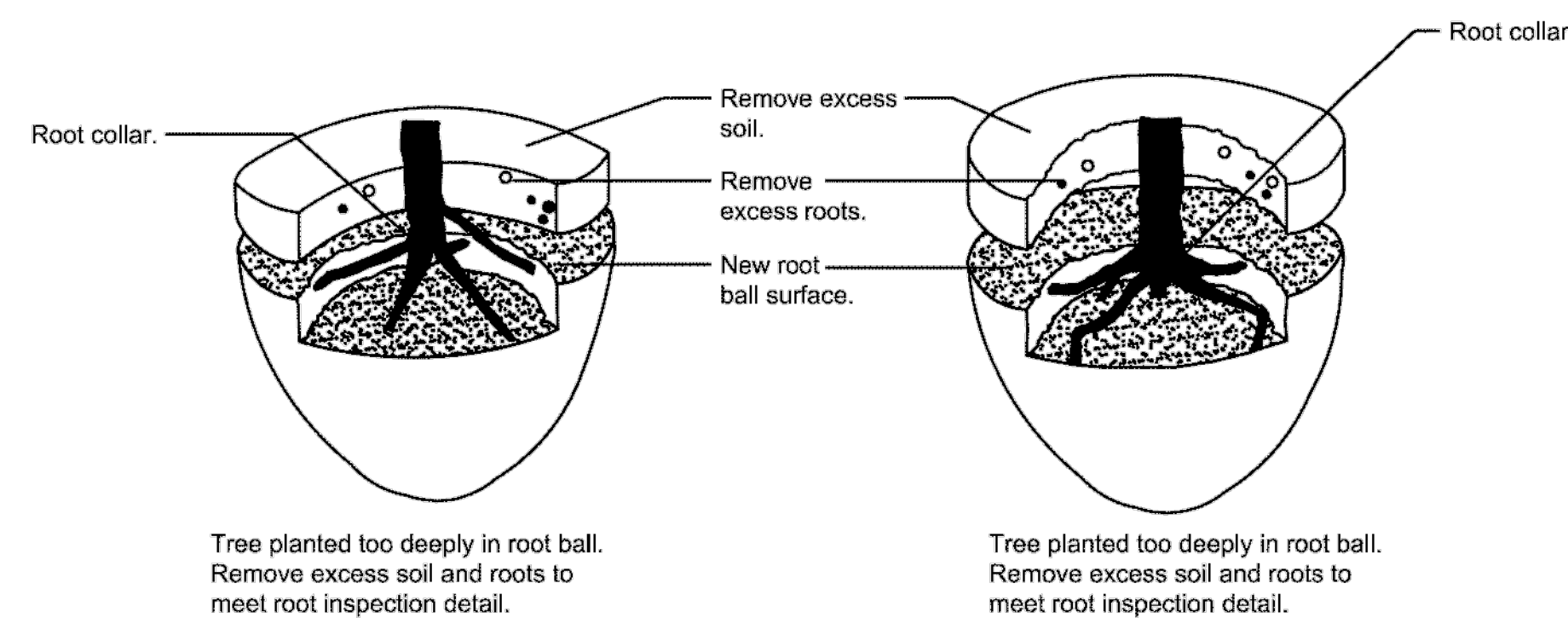
Notes:
1- Observations of roots shall occur prior to acceptance. Roots and soil may be removed during the observation process; substrate/soil shall be replaced after the observations have been completed.

2- See specifications for observation process and requirements.

ROOT OBSERVATIONS DETAIL - BALLED AND BURLAPPED

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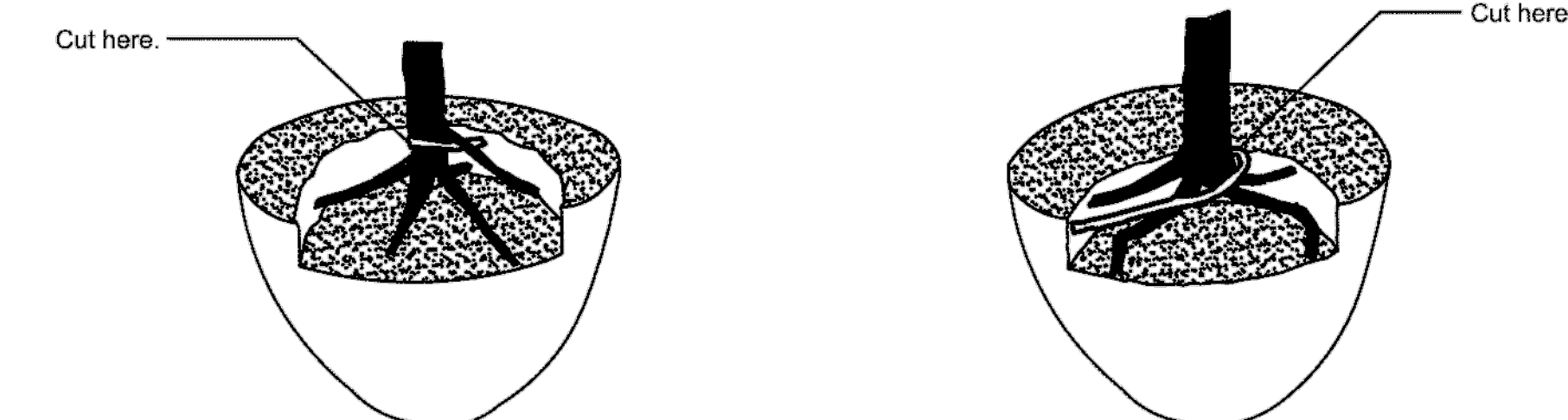
Step 1 - Remove soil and roots over the root collar.



Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

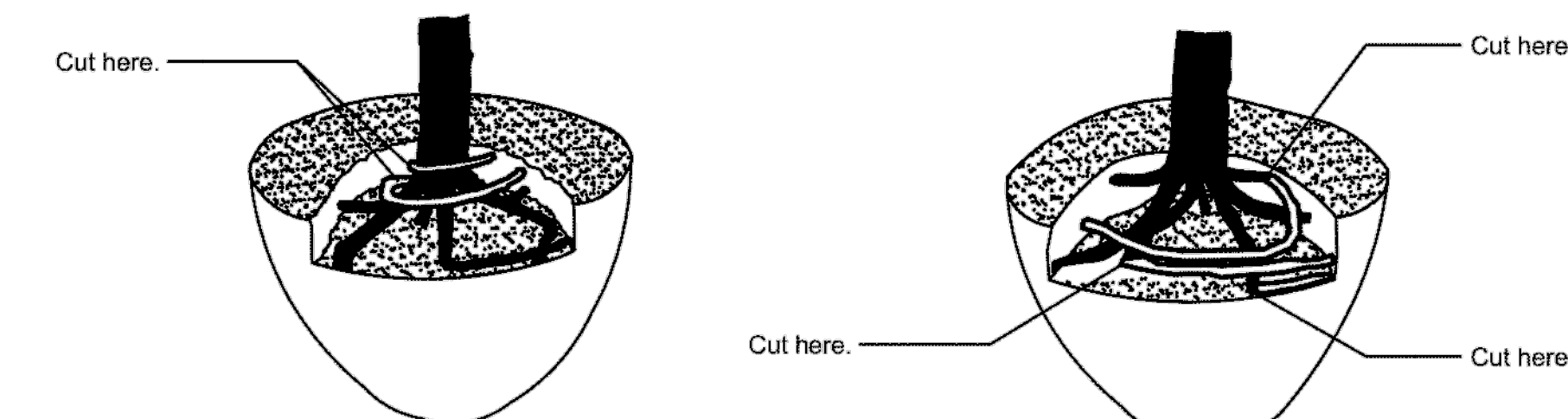
Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

Step 2 - Remove defects.



Five structural (large) roots shown in black. Remove structural (white) root wrapping root collar.

Four structural roots shown in black. Remove root (white) growing over structural roots.



Six structural roots shown in black. Remove structural roots (white) growing over root collar by cutting them just before they make an abrupt turn.

Seven structural roots shown in black. Remove structural roots (white) growing around or over root collar by cutting them just before they make an abrupt turn.



Remove structural roots (4 shown in black) extending from root ball.

Remove structural roots (4 shown in black) deflected on root ball periphery. Small roots (1/2" or less) at the periphery of the root ball are not defined as defects and do not need to be removed.

Notes:
1- All trees shown are rejectable unless they undergo recommended correction.
2- First step 1, then step 2. Adjust hole depth to allow for the removal of excess soil and roots over the root collar.
3- Roots and soil may be removed during the correction process; substrate/soil shall be replaced after the correction has been completed.
4- Trees shall pass root observations detail following correction.

ROOT CORRECTION DETAIL - BALLED AND BURLAPPED

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SCALE IN FEET: N.T.S.

REVISION DATES

06/26/2019 GDOT REVIEW
08/08/2019 FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS

CAPITOL AVENUE INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	29-004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:

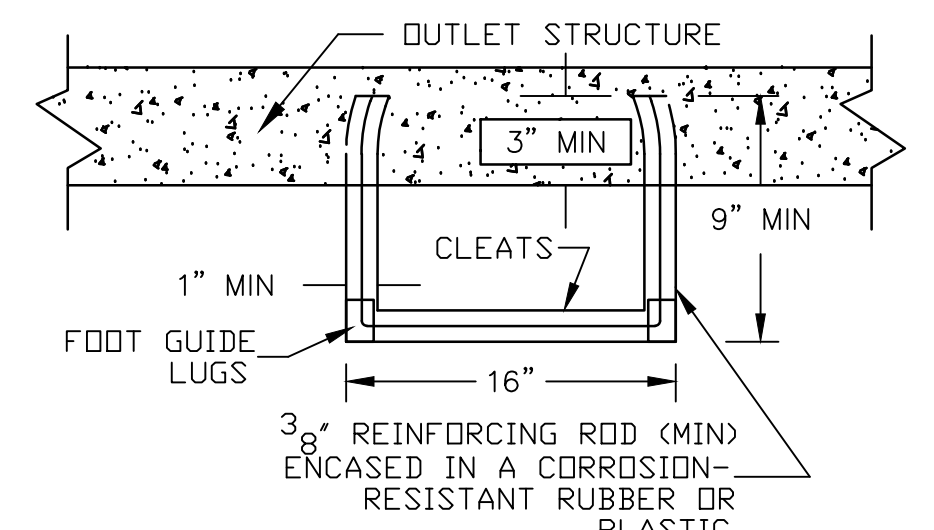
MANHOLE COVER SHOULD BE CENTERED WITH STEPS.

SYMBOL	DEFINITION
a(u)	Underdrain Pipe Invert Elevation
a(iws)	Internal Water Storage Invert Elevation
b	1.8' Design Storm Invert Elevation
c	Extreme Flood Protection Invert Elevation
X	Outlet Structure Width
Y	Outlet Structure Length
H	Outlet Structure Height

Outlet Structure Dimensions					
Pipe Diameter	Min X	Min Y	Max X or Y	Min H	Max H
18"	4'	4'	7'-6"	5'-2"	8'-0"
24"	4'	4'	7'-6"	5'-2"	8'-0"
30"	5'	4'	7'-6"	6'-0"	8'-3"
36"	5'	4'	7'-6"	6'-0"	8'-3"
42"	6'	4'	7'-6"	7'-0"	8'-3"
48"	6'	4'	7'-6"	7'-0"	8'-3"

NOTE:

- DIMENSIONS THAT EXCEED MAXIMUM X OR MAXIMUM Y WILL REQUIRE INDIVIDUAL STRUCTURAL DESIGN.
- OUTLET STRUCTURE SHALL BE CONSTRUCTED AT EVEN 1' INCREMENTS.
- 4'X4' OUTLET STRUCTURES SHALL HAVE A MAXIMUM HEIGHT OF 8'.

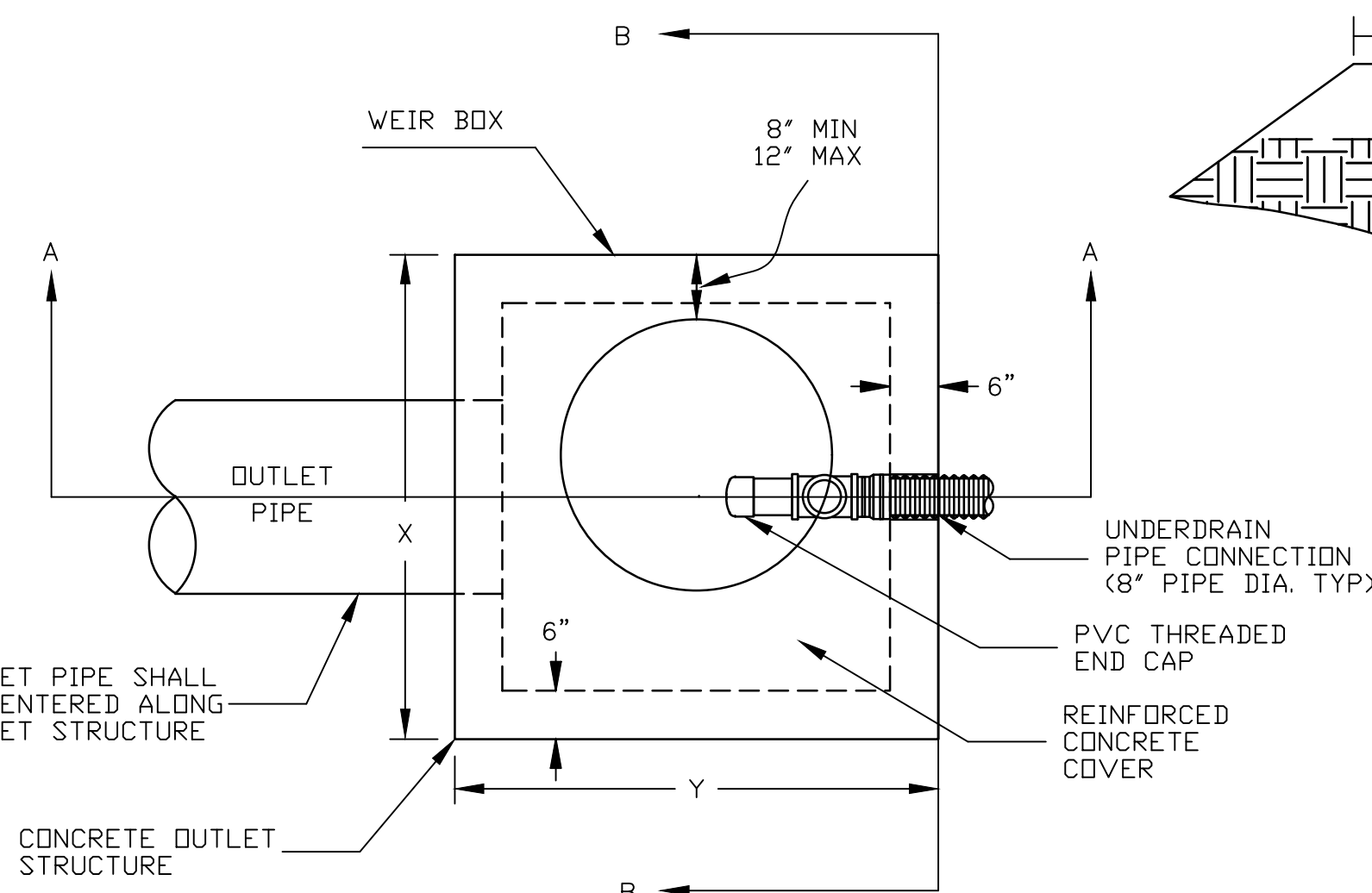


MIN. VERTICAL LOAD RESISTANCE = 400 LBS
MIN. PULLOUT RESISTANCE = 700 LBS

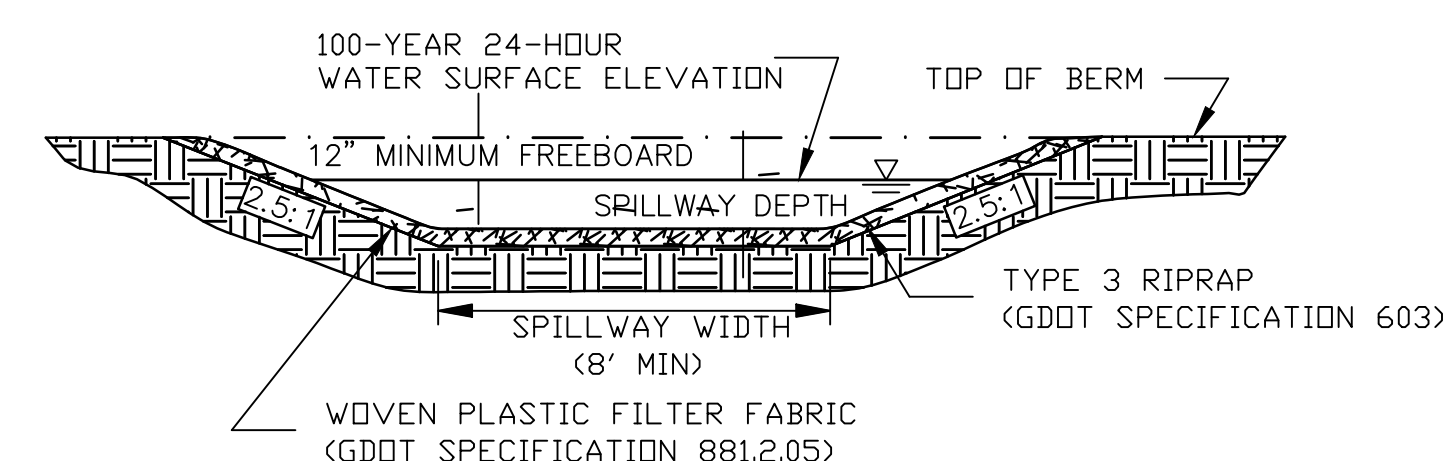
NOTE: PLASTIC OR RUBBER COATED STEPS LISTED IN THE GADOT QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

GENERAL NOTES:

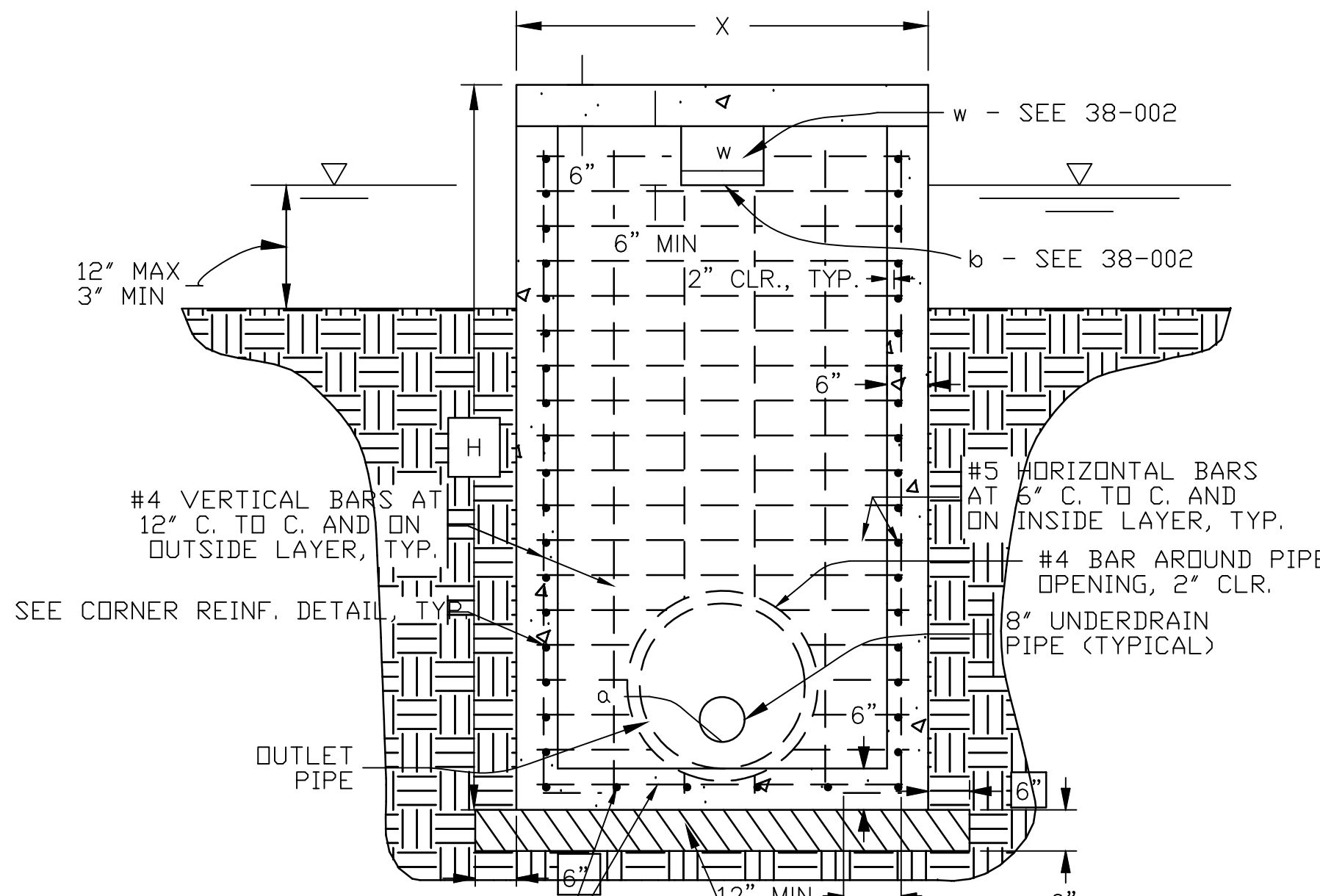
- CONCRETE OUTLET STRUCTURES SHALL BE PRECAST
- OUTLET STRUCTURE SHALL BE DESIGNED TO SAFELY CONVEY THE 25-YEAR, 24-HOUR STORM EVENT.
- SPILLWAY SHALL BE DESIGNED TO SAFELY CONVEY THE 100-YEAR, 24-HOUR STORM EVENT.
- BIORETENTION BASINS SHALL NOT BE USED FOR DETENTION.
- A LANDSCAPE PLAN SHALL BE PROVIDED FOR BIORETENTION BASINS.
- ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE OUTLET STRUCTURE ARE TO BE INCLUDED IN THE OVERALL BID PRICE FOR THE BIORETENTION BASIN.
- IF POST-CONSTRUCTION STORMWATER BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE OFFICE OF PROGRAM DELIVERY PROJECT MANAGER AND AREA ENGINEER. MODIFICATIONS MUST BE APPROVED BY THE GDOT OFFICE OF DESIGN POLICY AND SUPPORT PRIOR TO INSTALLATION.
- DATA TABLE BELOW SHALL BE FILLED OUT AND SHOWN ON THE SPECIAL GRADING PLANS
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE AS-BUILT DATA TO THE CONSTRUCTION PROJECT ENGINEER/INSPECTOR.



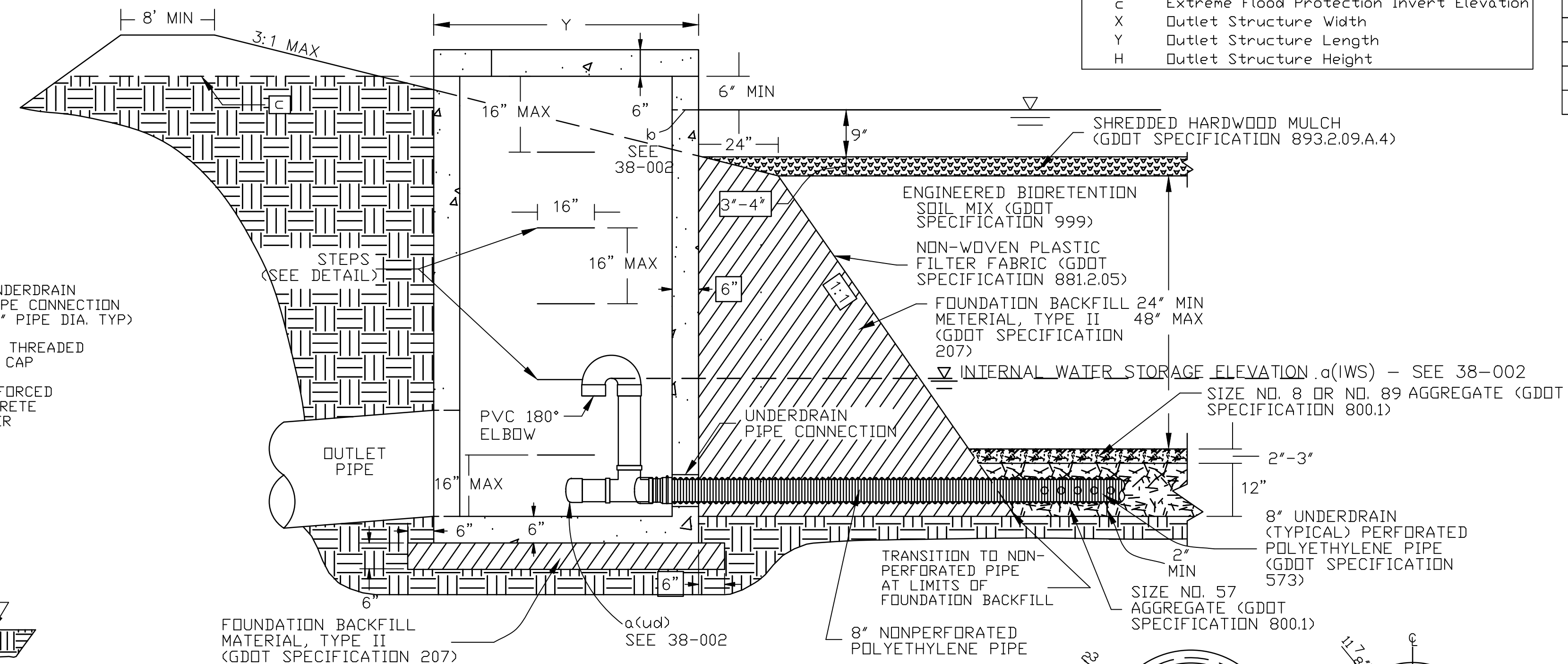
OUTLET STRUCTURE PLAN VIEW



EARTH SPILLWAY

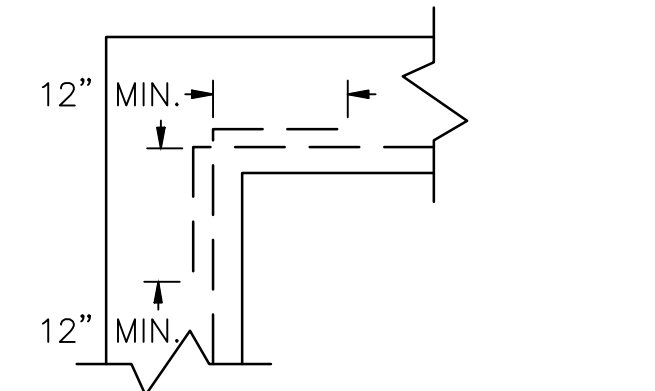


SECTION B-B

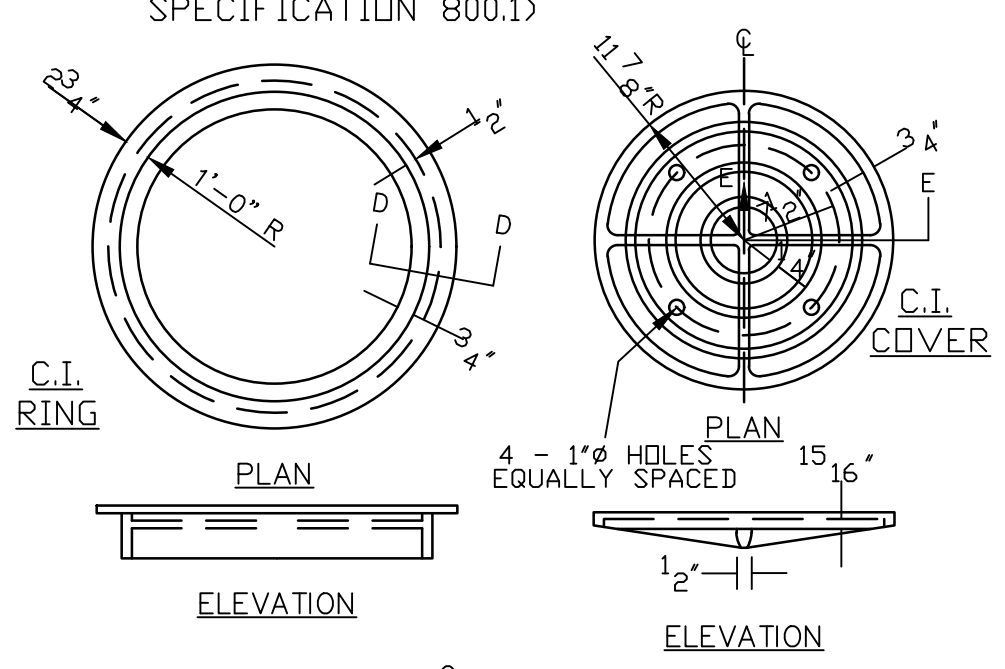


SECTION A-A

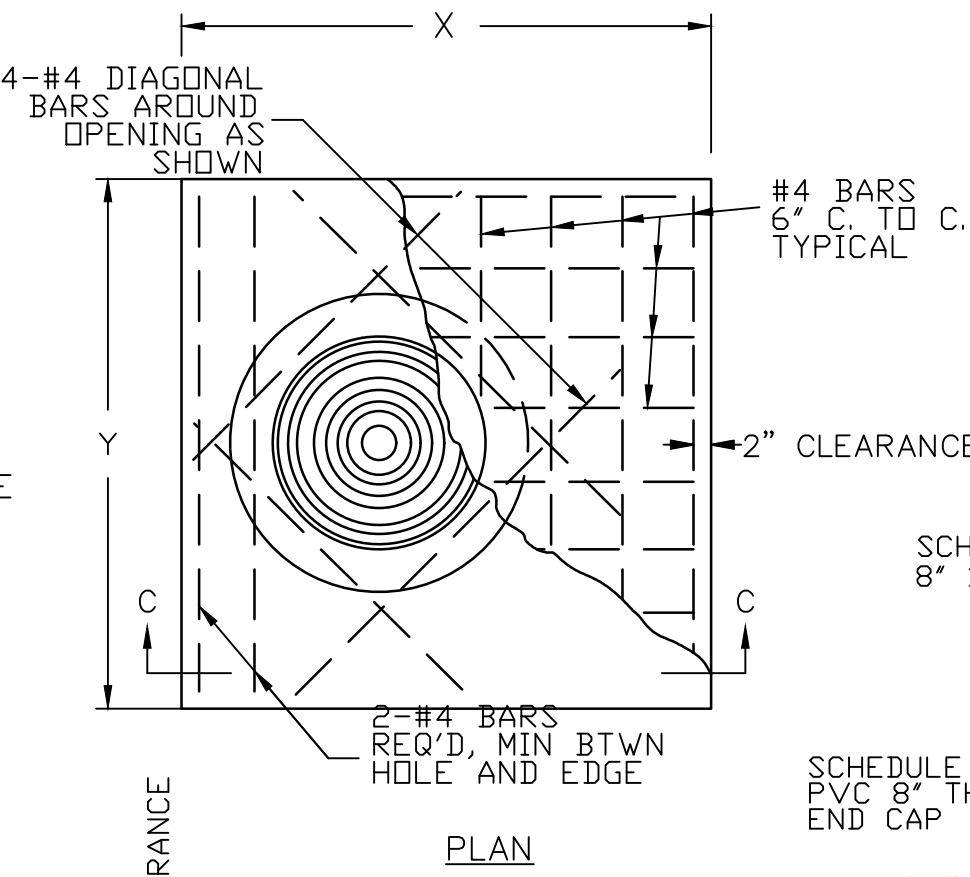
NOTE: SEE SECTION B-B FOR REINFORCING



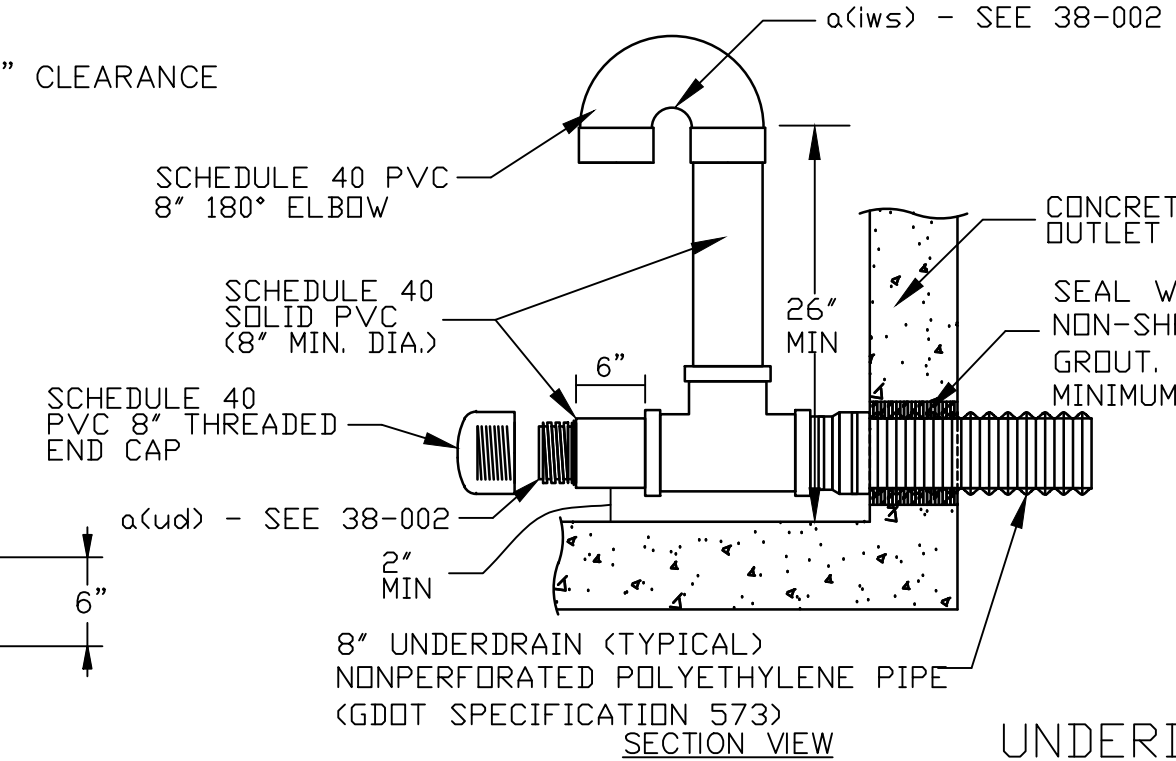
CORNER REINFORCING DETAIL



CASTING DETAILS



REINFORCED CONCRETE COVER



UNDERDRAIN PIPE CONNECTION DETAIL

NOTE:

- ALL JOINTS AND CONNECTION SHALL BE WATERTIGHT AND HAVE ELASTOMERIC SEALS THAT MEET THE REQUIREMENTS OF ASTM F 477.
- BIORETENTION BASINS SIZED FOR RUNOFF REDUCTION SHALL BE CAPPED AT THE UP-TURNED PIPE AND AT INVERT A. BIORETENTION BASINS WITH AN INTERNAL WATER STORAGE ZONE SHALL BE CAPPED AT INVERT A ONLY. STANDARD BIORETENTION BASINS SHALL NOT BE CAPPED.

SEE 38-002 FOR OUTLET STRUCTURE DESIGN DATA



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES

06/26/2019	GDOT REVIEW
08/08/2019	FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION

SPECIAL CONSTRUCTION DETAIL
BIORETENTION BASIN OUTLET STRUCTURE
CAPITOL AVENUE GREEN INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	38-001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

BIORETENTION DESIGN DATA						
X	Y	H	Event	INVERT ELEV.	ORIFICE DIA. (IN)	WEIR LEN. w (FT)
6	4	7.50	a(ud)	989.17	8	N/A
			a(iws)	992.00	8	N/A
			b	995.00	N/A	16
			c	996.00	N/A	XXX
STRUCTURE INVERT ELEV. = 988.50' STRUCTURE TOP ELEV. = 996.00' OUTLET PIPE DIA. = 24" OUTLET PIPE SLOPE = 0.75% OUTLET PIPE LENGTH = 70.34' OUTLET PIPE INVERT = 988.50' OUTLET PIPE HEADWALL = 100-YR, 24-HR WSE=						
AS-BUILT DATA						
X	Y	H	Event	INVERT ELEV.	ORIFICE DIA. (IN)	WEIR LEN. w (FT)
			a(ud)			N/A
			a(iws)			N/A
			b		N/A	
			c		N/A	
STRUCTURE INVERT ELEV. = STRUCTURE TOP ELEV. = OUTLET PIPE DIA. = OUTLET PIPE SLOPE = OUTLET PIPE LENGTH = OUTLET PIPE INVERT = OUTLET PIPE HEADWALL =						

SEE 38-001 FOR ADDITIONAL DETAILS



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

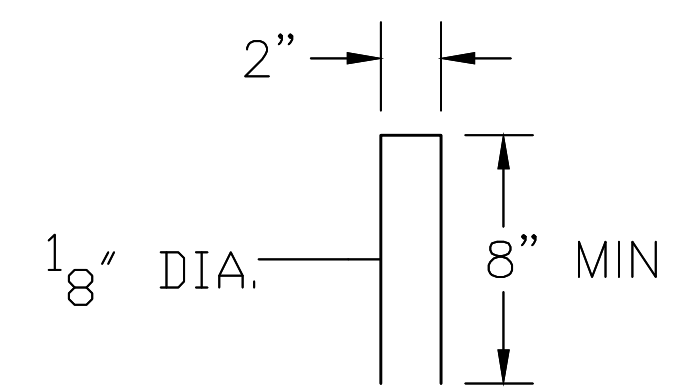
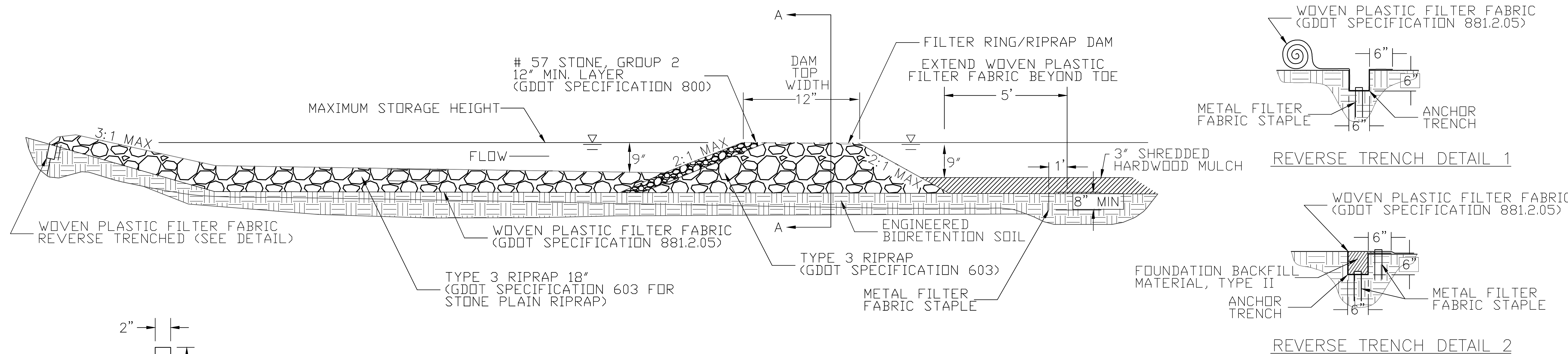
REVISION DATES

06/26/2019 GDOT REVIEW
08/08/2019 FOR BID

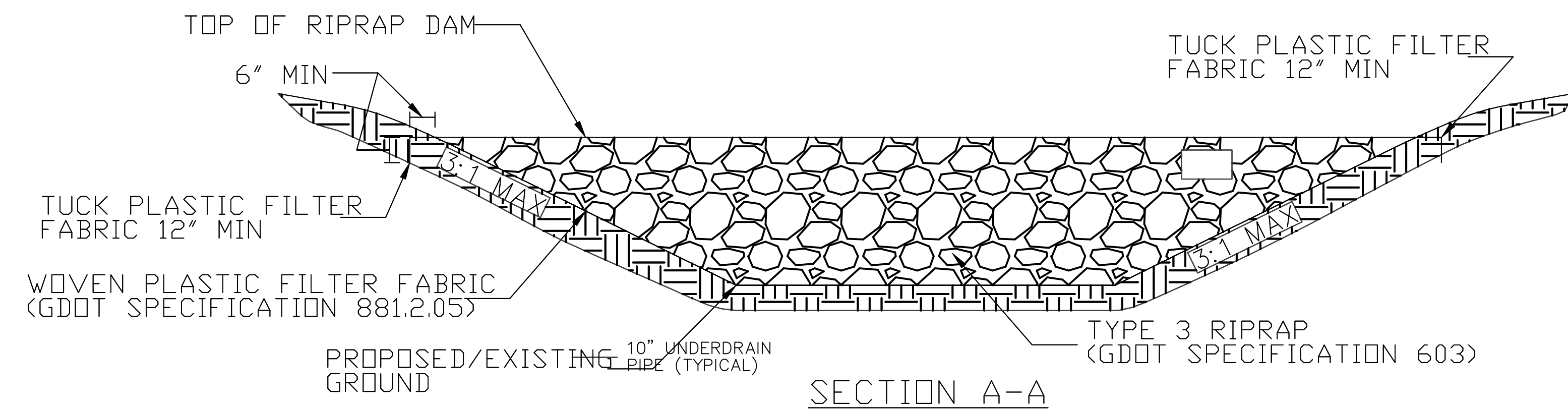
STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION

SPECIAL CONSTRUCTION DETAIL
BIORETENTION DESIGN TABLE
CAPITOL AVENUE INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	38-002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



METAL FILTER FABRIC STAPLE



*NOTES:

- 1) THE MINIMUM SPILLWAY WIDTH SHALL MATCH THE MEDIA WIDTH FOR ENHANCED DRY/WET SWALES.
- 2) RIPRAP FOREBAYS SHALL BE CONSTRUCTED WITHOUT SPILLWAYS FOR BIORETENTION BASINS AND SAND FILTERS.

GENERAL NOTES:

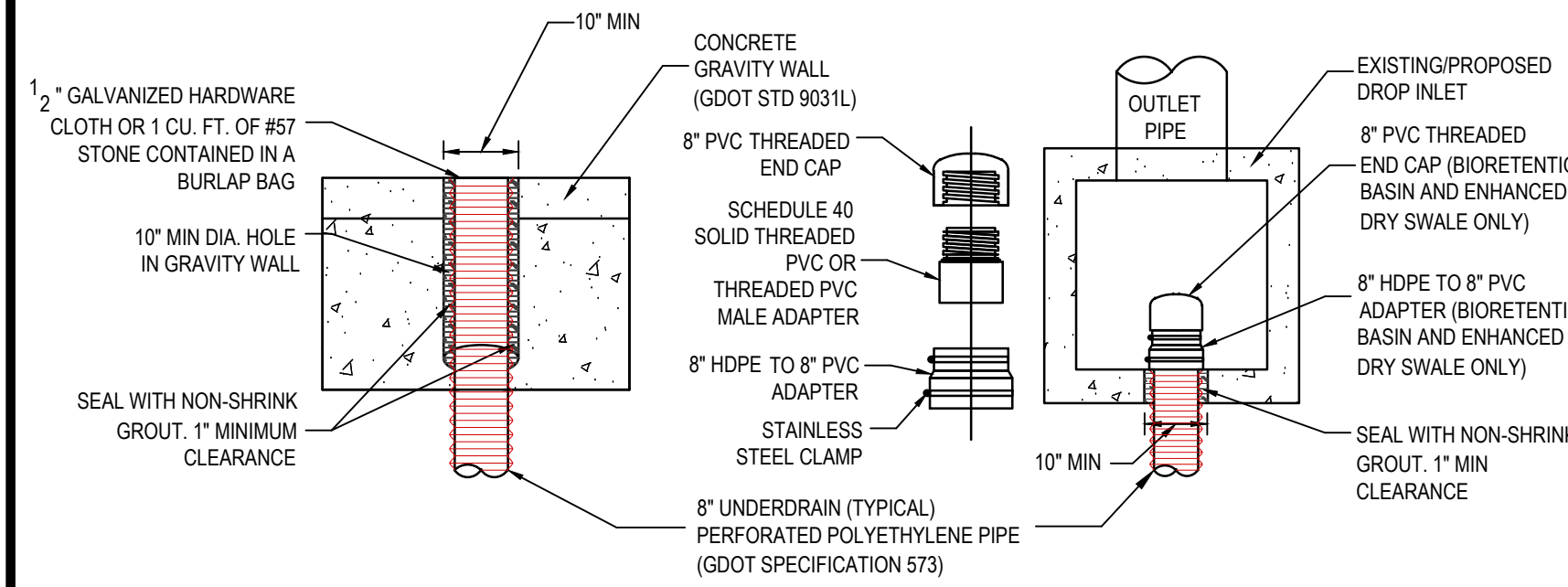
- 1) WOVEN PLASTIC FILTER FABRIC IS REQUIRED UNDER ALL RIPRAP.
- 2) ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
- 3) THE CLEAN OUT VOLUME IS ONE-THIRD THE TOTAL STORAGE VOLUME. THE CLEAN OUT VOLUME SHALL BE CALCULATED AND MARKED WITH A STAKE AT THE OUTLET.
- 4) RIPRAP FOREBAY SHALL BE PLACED ON THE SAME GRADE AS THE MULCH LAYER FOR BIORETENTION BASINS.
- 5) RIPRAP FOREBAYS SHALL BE PROVIDED AT ANY INLET THAT CONTRIBUTES CONCENTRATED FLOW THAT IS OVER 10% OF THE TOTAL FLOW TO THE STORMWATER BMP.
- 6) ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE RIPRAP FOREBAY ARE TO BE INCLUDED IN THE OVERALL BID PRICE FOR THE POST-CONSTRUCTION STORMWATER BMP.
- 7) IF POST-CONSTRUCTION STORMWATER BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE OFFICE OF DESIGN POLICY AND SUPPORT. MODIFICATIONS MUST BE APPROVED BY THE GDOT OFFICE OF DESIGN POLICY AND SUPPORT PRIOR TO INSTALLATION.



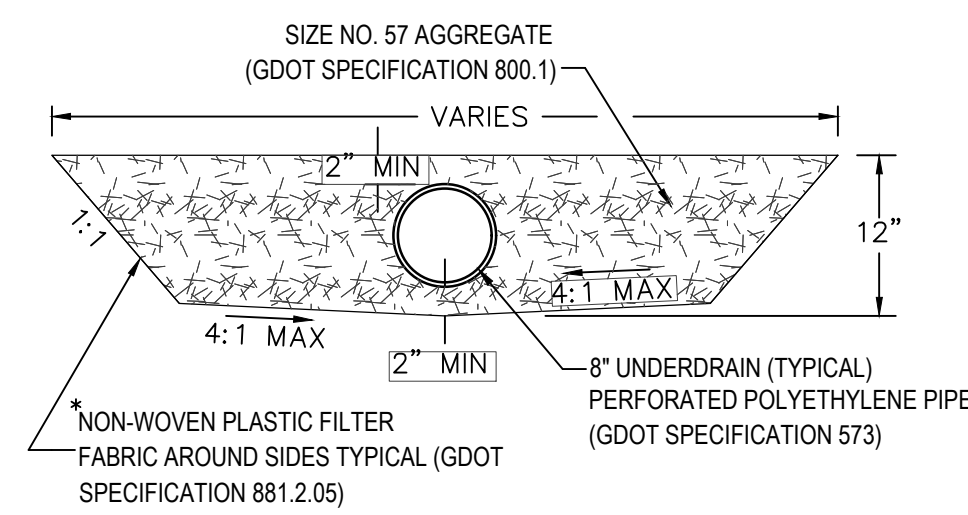
ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

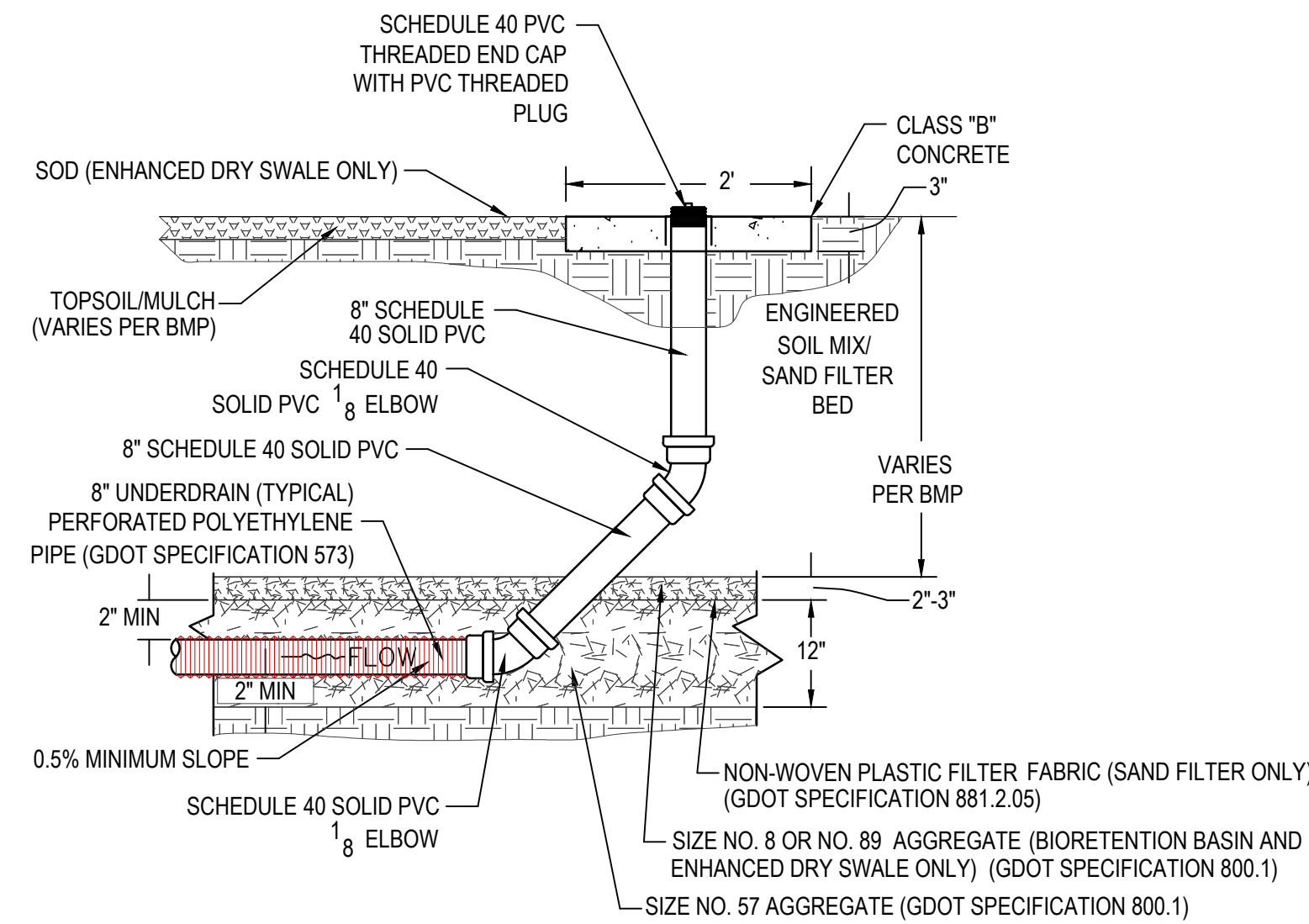
REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019 GDOT REVIEW		SPECIAL CONSTRUCTION DETAIL RIPRAP FOREBAY	
08/08/2019 FOR BID			
		CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



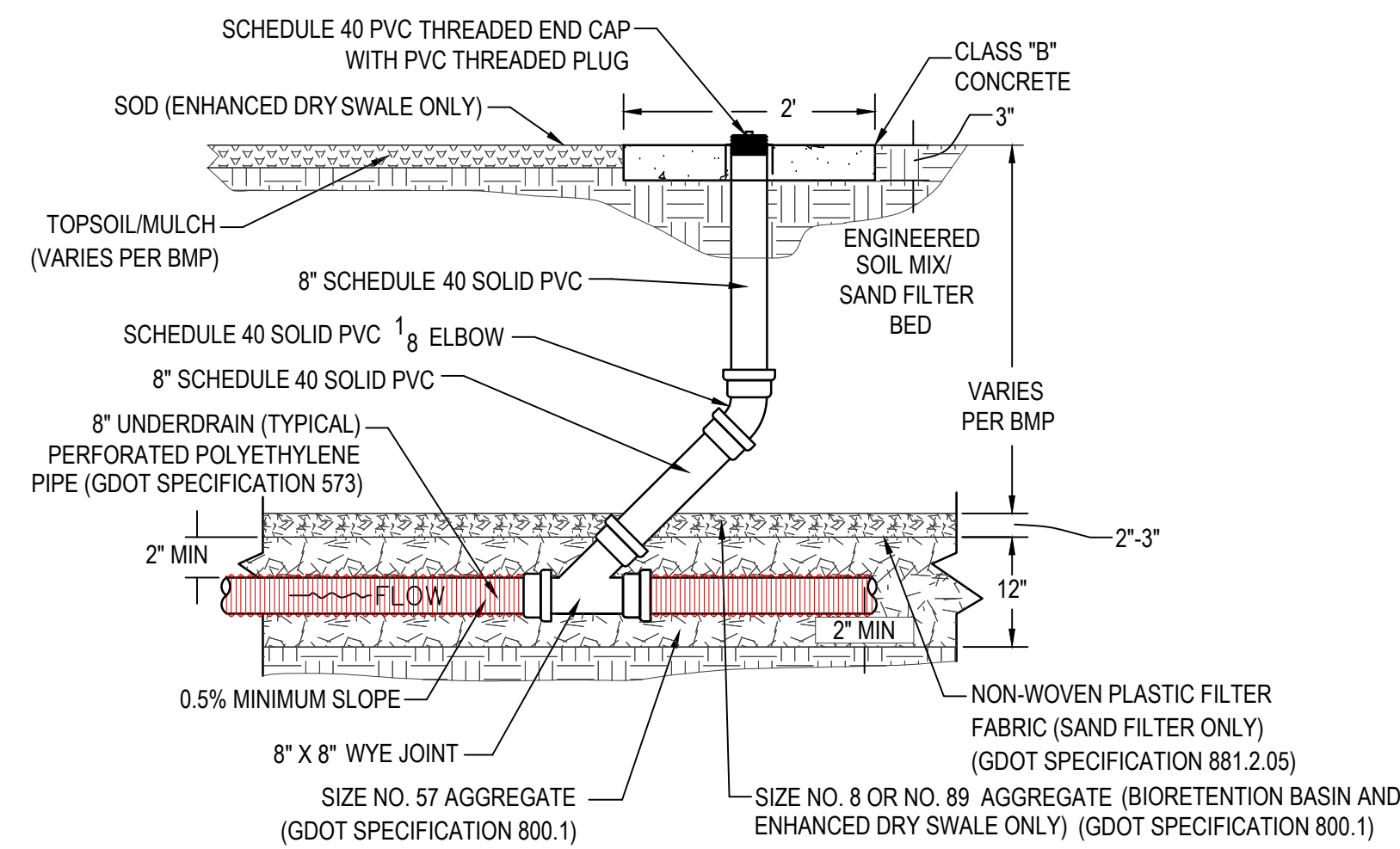
UNDERDRAIN PIPE CONNECTION TO EXISTING STRUCTURES DETAIL



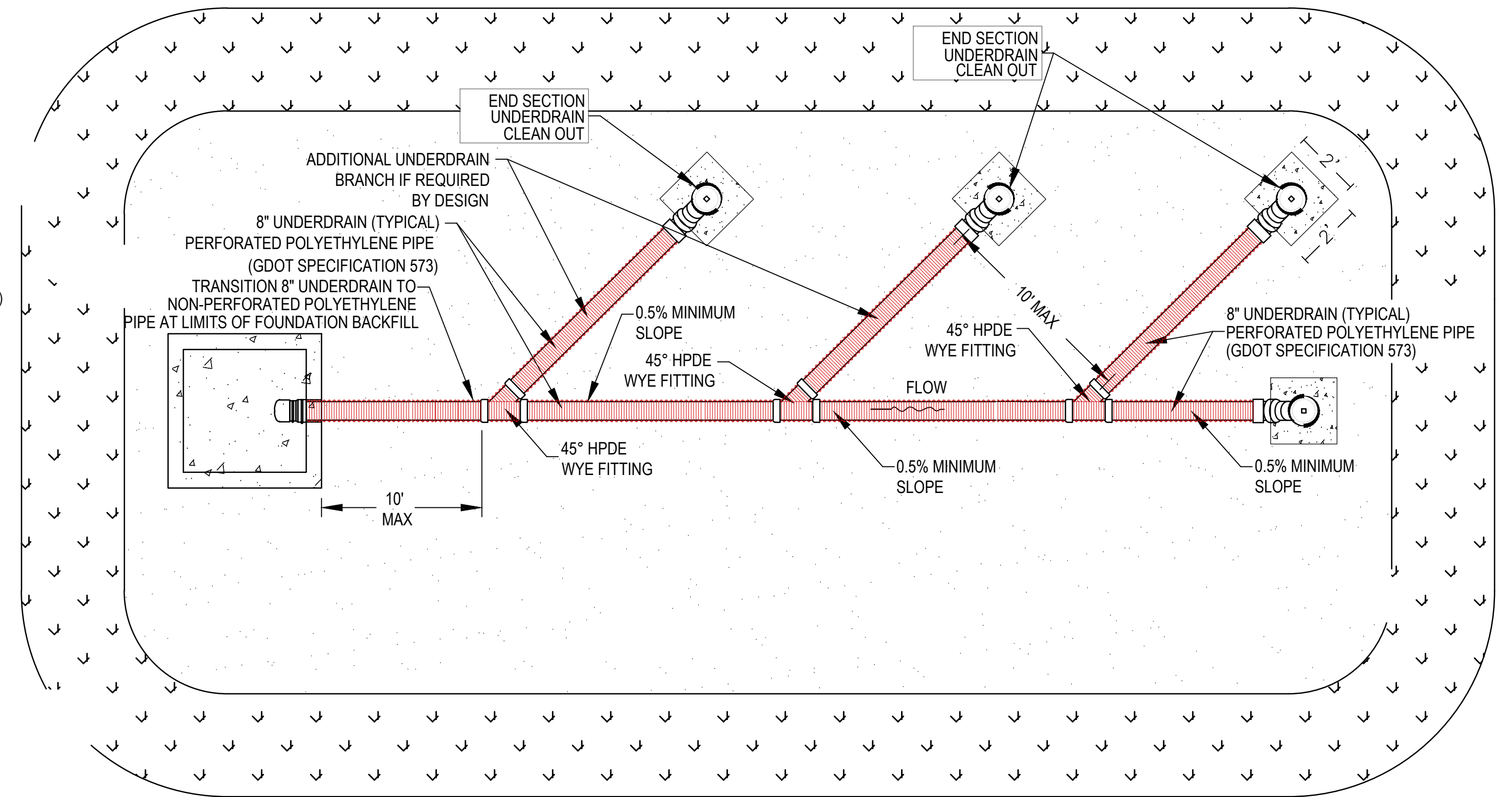
AGGREGATE LAYER DETAIL



END SECTION UNDERDRAIN CLEANOUT



IN-LINE UNDERDRAIN CLEANOUT



BIORETENTION UNDERDRAIN SYSTEM PLAN VIEW

- NOTE:
- 1) A CLEANOUT SHALL BE PLACED AT A MAXIMUM SPACING OF 100 LINEAR FEET.
 - 2) ADDITIONAL UNDERDRAIN BRANCHES CAN BE ADDED TO BOTH OPTIONS IF REQUIRED BY DESIGN.
 - 3) 0.5% SLOPE MINIMUM ON ALL PIPES

POST-CONSTRUCTION STORMWATER BMP	MATERIAL THICKNESS			
	ENGINEERED SOIL MIX	SAND FILTER BED	MULCH	TOPSOIL
BIORETENTION BASIN	24"-48"	N/A	3"-4"	N/A
ENHANCED DRY SWALE	30" (TYPICAL)	N/A	N/A	N/A
SAND FILTER	N/A	18"-48"	N/A	3"

GENERAL NOTES:

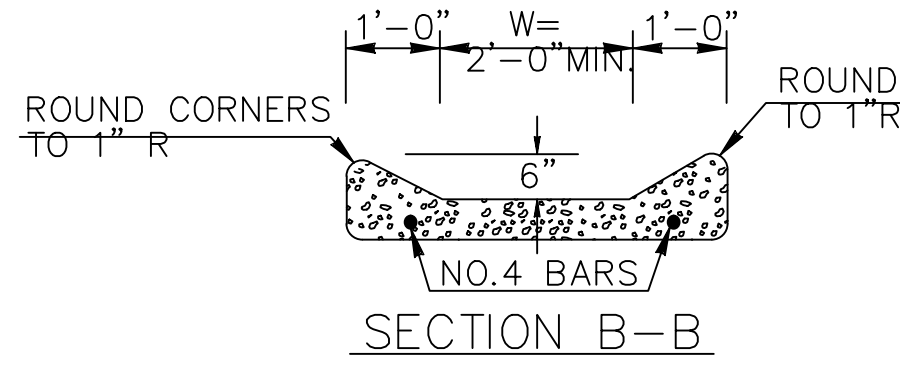
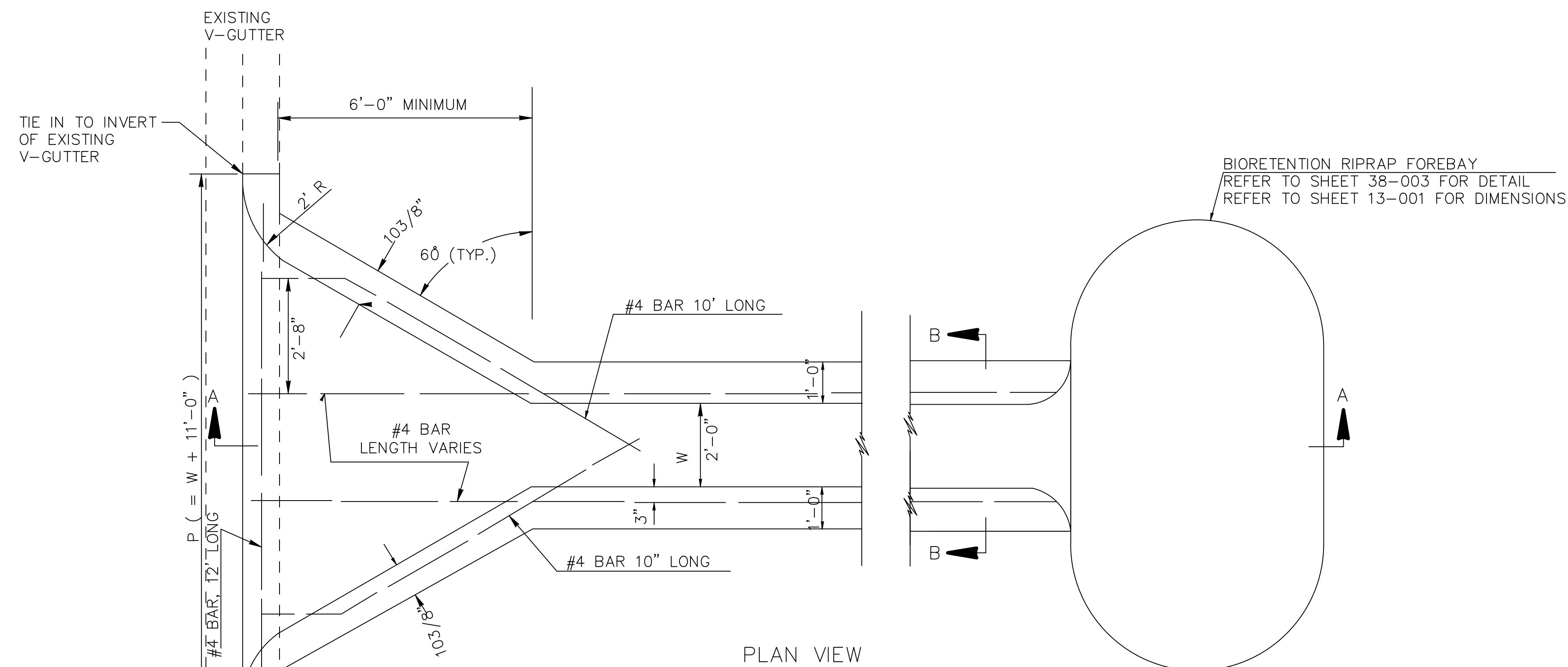
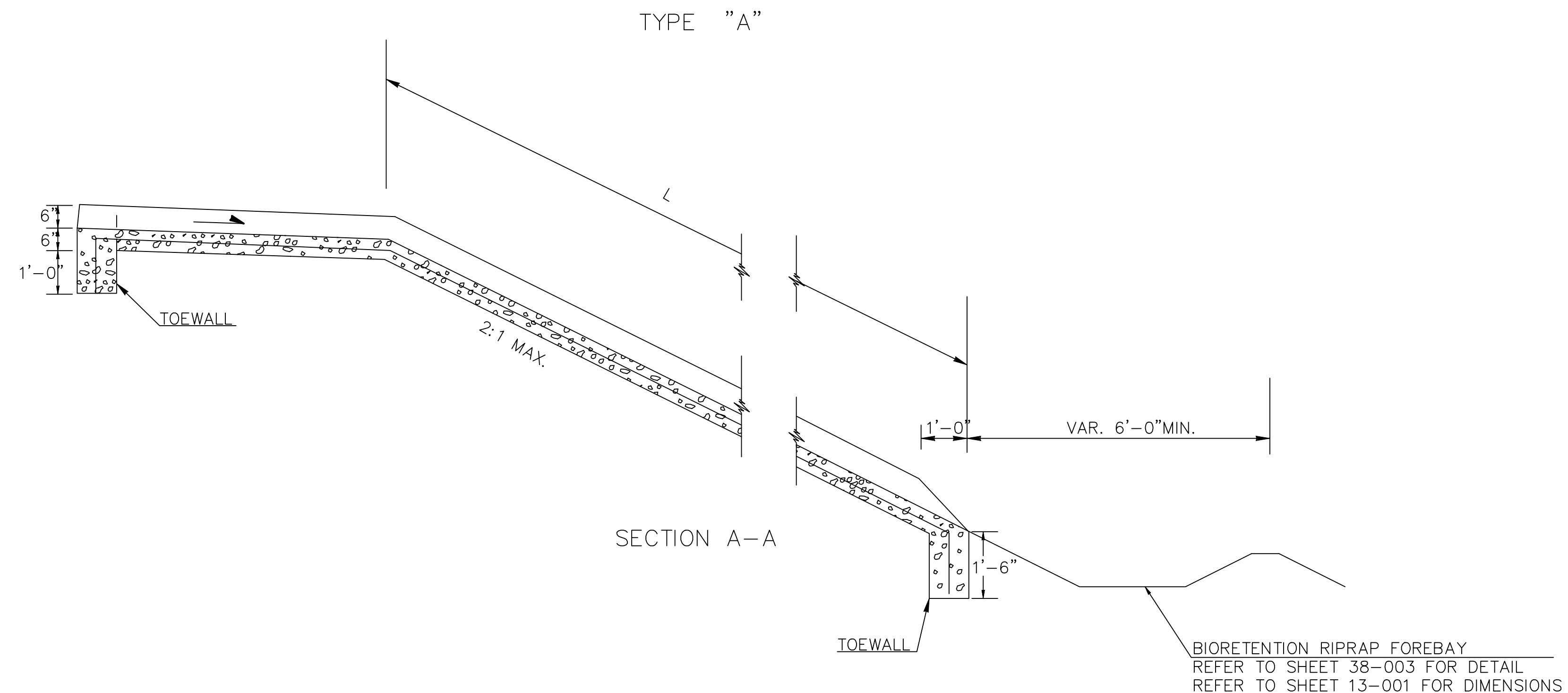
- 1) CLEANOUTS SHALL BE PVC STRUCTURES IN ALL VERTICAL SECTIONS WITH ADAPTERS TO CONNECT TO DISTRIBUTION AND UNDERDRAIN PIPING MATERIALS AS REQUIRED.
- 2) CLEANOUTS SHALL BE PROVIDED AT ALL BENDS AND AT THE END OF EACH UNDERDRAIN BRANCH.
- 3) IF MULTIPLE UNDERDRAIN BRANCHES ARE UTILIZED, THE BRANCHES SHALL CONNECT WITHIN THE BMP SO THAT ONLY ONE PIPE ENTERS THE OUTLET STRUCTURE.
- 4) ALL JOINTS AND FITTINGS SHALL BE WATERTIGHT AND HAVE ELASTOMERIC SEALS THAT MEET THE REQUIREMENTS OF ASTM F 477.
- 5) PERFORATIONS SHALL BE PER AASHTO M252 OR BE 3/8" DIAMETER SPACED 6" ON CENTER ALONG FOUR LONGITUDINAL ROWS THAT ARE SPACED 90° APART.
- 6) NON-WOVEN PLASTIC FILTER FABRIC MEETING GDOT SPECIFICATION 881.2.05 SHALL BE PLACED AROUND THE SIDES OF THE ENGINEERED SOIL MIX AND SAND FILTER BED FOR BIORETENTION BASINS, ENHANCED DRY SWALES, AND SAND FILTERS.
- 7) TRIPLE SHREDDED HARDWOOD MULCH MEETING GDOT SPECIFICATION 893.2.09.A.4 SHALL BE USED IN BIORETENTION BASINS. MULCH SHALL BE RESISTANT TO FLOATING.
- 8) ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR THE UNDERDRAIN ARE TO BE INCLUDED IN THE OVERALL BID PRICE FOR THE POST-CONSTRUCTION STORMWATER BMP.
- 9) IF POST-CONSTRUCTION STORMWATER BMP CANNOT BE BUILT WITHIN THE TOLERANCES ALLOWED, THE CONSTRUCTION PROJECT MANAGER SHALL NOTIFY THE OFFICE OF PROGRAM DELIVERY PROJECT MANAGER AND AREA ENGINEER. MODIFICATIONS MUST BE APPROVED BY THE GDOT OFFICE OF DESIGN POLICY AND SUPPORT PRIOR TO INSTALLATION.



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	SPECIAL CONSTRUCTION DETAIL UNDERDRAIN CAPITOL AVENUE GREEN INFRASTRUCTURE DEMONSTRATION PROJECT - B	
08/08/2019	FOR BID		
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



TYPE "A" FLUME QUANTITIES
 (FOR W=2'-0") CU. YDS CONCRETE=2.41+0.0926 (L)
 (FOR EITHER W) LBS. STEEL = 41 LBS. +(1.336) (L)
 L=71.79' AND L=50.00'

- GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - SIZE AND DIMENSIONS OF TYPE A OR TYPE B FLUMES MAY BE ADJUSTED FOR AN INDIVIDUAL SITE WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 - POURED IN PLACE CONCRETE SHALL BE CLASS B MINIMUM.
 - BASIS OF PAYMENT:
 CLASS B CONCRETE 9.06 CU. YDS. + 7.04 CU.YDS. = 16.10 CU.YDS.
 BAR REINFORCEMENT STEEL 136.91 LB. + 107.80 LB. = 244.71 LB.



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	SPECIAL CONSTRUCTION DETAIL D-9 FLUME CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
08/08/2019	FOR BID		
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-005	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTES:
SIGN TO BE 24"x18" HORIZONTAL RECTANGLE, SINGLE POST, BLACK LETTERING, WHITE BACKGROUND
HIGHWAY SIGN, TP 1 MATERIAL, REFLECTIVE SHEETING, TP 3
SEE SHEET T01 FOR TYPICAL INFORMATION
SIGN TO BE CONSTRUCTED TO GDOT STANDARDS
SIGN TO BE MOUNTED ON STANDARD TYPE 7 POST
THE FONT ON EACH SIGN SHOULD BE STANDARD GDOT SERIES, 3 INCH LETTERS



BROOKS

BROOKS

BROOKS



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

SCALE IN FEET: N.T.S.

REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	SPECIAL CONSTRUCTION DETAIL BIORETENTION SIGN INFORMATION CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
08/08/2019	FOR BID		
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	38-006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

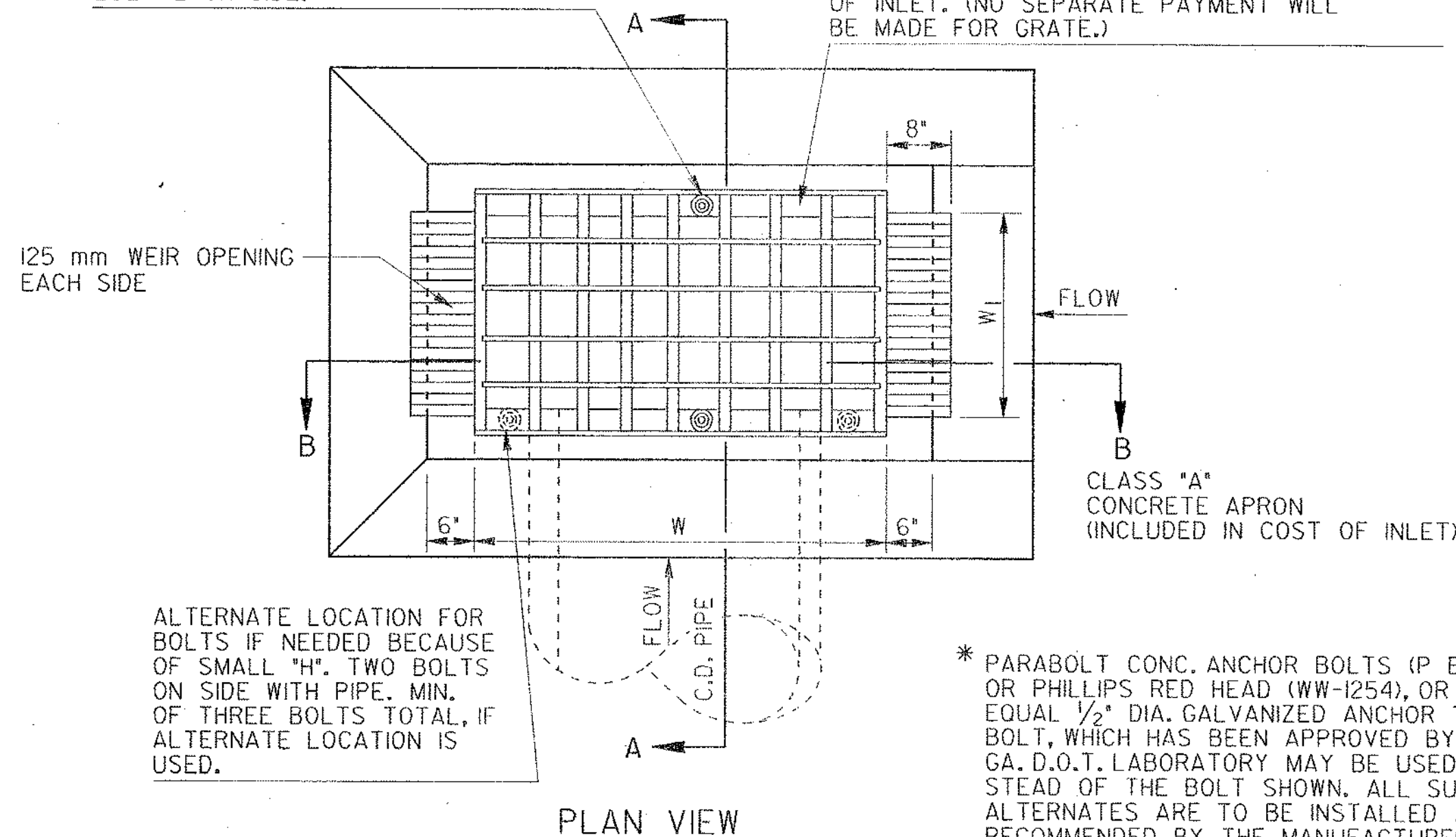
NOTE: MIN. 'H' IS BASED ON TYPICAL OUTSIDE DIAMETER OF CONCRETE PIPES AND MAY BE REDUCED SLIGHTLY WHERE SPECIFIED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

PIPE SIZE	MIN. H	NORMAL W	75° SKEW W	60° SKEW W	45° SKEW W	MIN. H, IF CIRCULAR ALTER. (STD. 1040) IS USED
15"	3'-0"	2'-0"	2'-0"	2'-6"	3'-0"	3'-10"
18"	3'-6"	2'-6"	2'-6"	3'-0"	3'-6"	4'-3"
24"	4'-0"	3'-0"	3'-0"	3'-6"	4'-0"	4'-9"
30"	4'-6"	3'-6"	4'-0"	4'-0"	5'-0"	6'-2"
36"	5'-0"	4'-0"	4'-6"	5'-0"	6'-0"	6'-9"
42"	5'-6"	5'-0"	5'-0"	5'-6"	6'-6"	7'-4"
48"	6'-0"	5'-6"	5'-6"	6'-0"	7'-6"	7'-11"

* FOR LONGITUDINAL PIPE OVER 18" WITH A 2'-0" DITCH, OR A LONGITUDINAL PIPE OVER 36" WITH A 4'-0" DITCH, AN ENLARGED BASE IS REDUCED TO W₁ = DITCH WIDTH WITH APPLICABLE MIN. H IN COLUMN AT EXTREME RIGHT.

1/2" X 6" GALV. ANCHOR BOLT, NUT AND WASHER-STANDARD LOCATION IS APPROX. CENTER OF GRATE WITH ONE BOLT EACH SIDE.

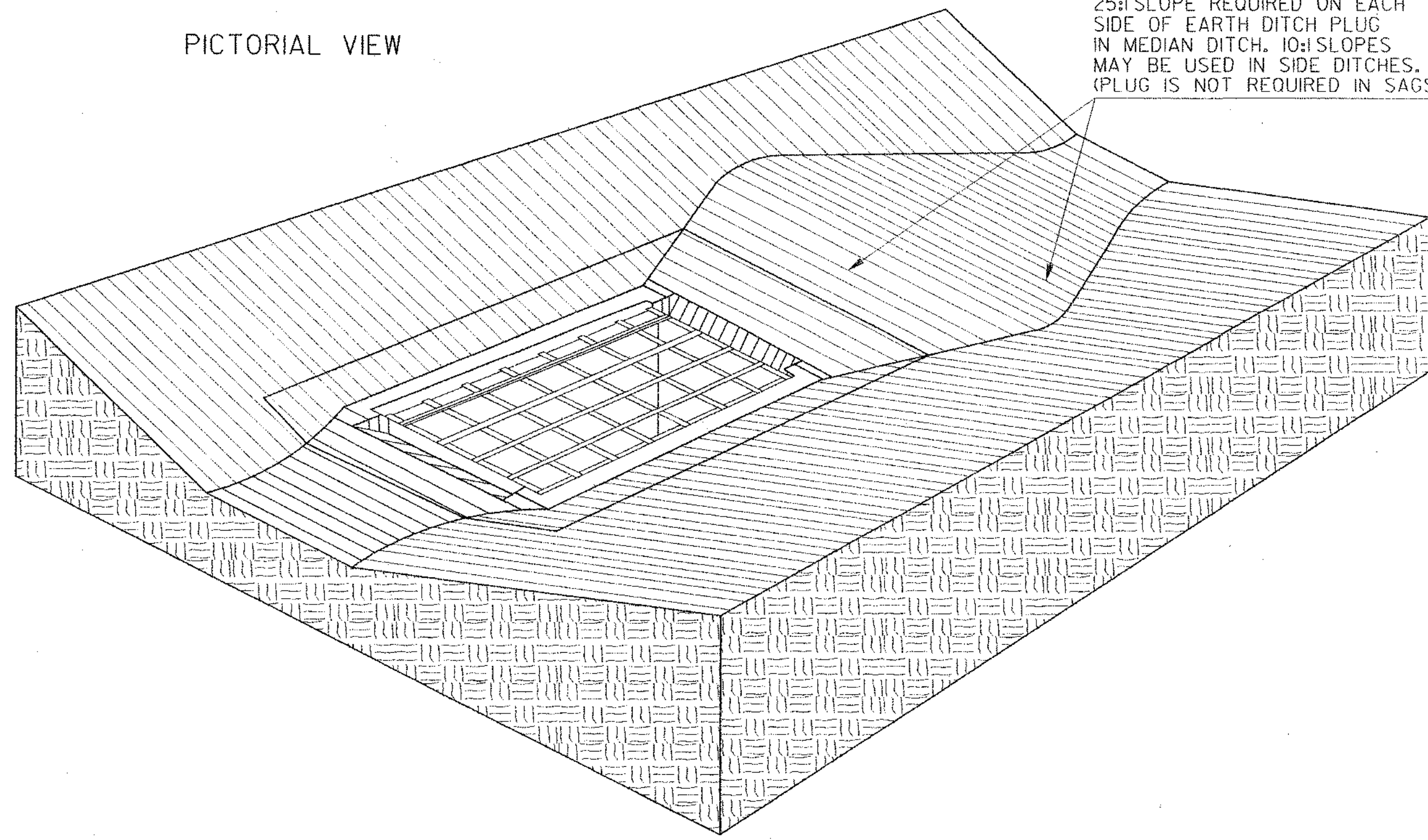
SEE GRATE FABRICATION DETAILS FOR BAR SIZES, ANGLE IRON SIZE AND WELDING DETAILS. GRATE WILL BE INCLUDED IN PAYMENT OF INLET. (NO SEPARATE PAYMENT WILL BE MADE FOR GRATE.)



ALTERNATE LOCATION FOR BOLTS IF NEEDED BECAUSE OF SMALL 'H'. TWO BOLTS ON SIDE WITH PIPE. MIN. OF THREE BOLTS TOTAL, IF ALTERNATE LOCATION IS USED.

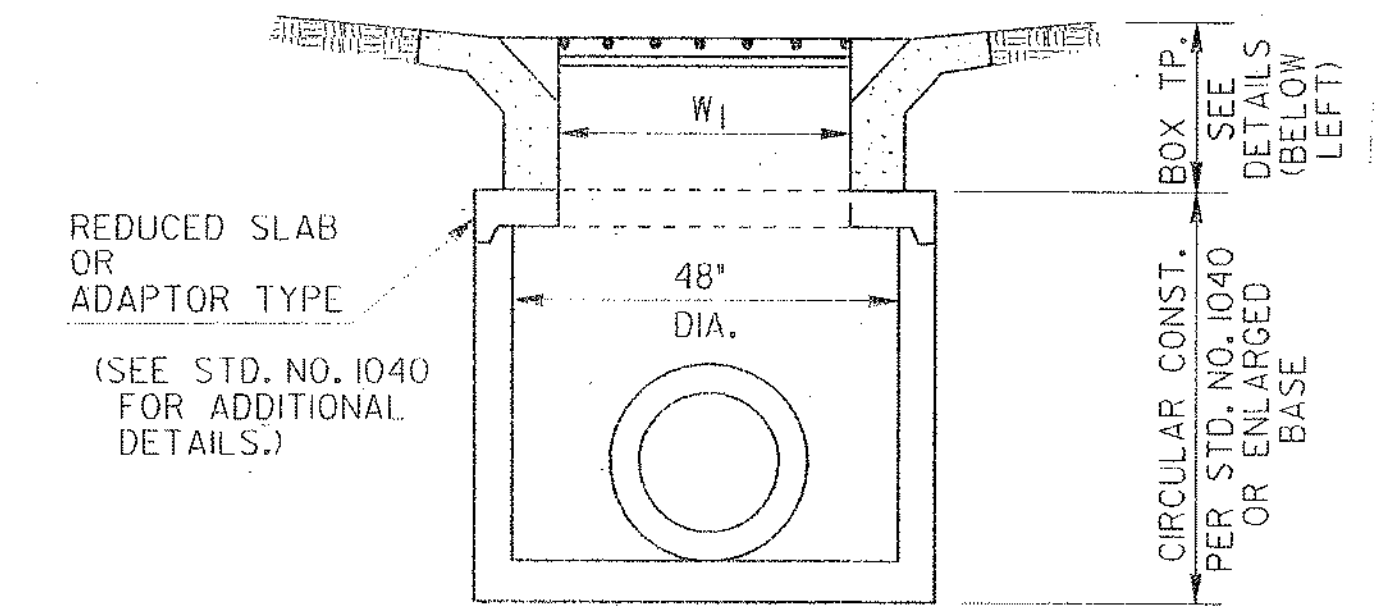
* PARABOLT CONC. ANCHOR BOLTS (P B12-514) OR PHILLIPS RED HEAD (WW-1254), OR AN EQUAL 1/2" DIA. GALVANIZED ANCHOR TYPE BOLT, WHICH HAS BEEN APPROVED BY THE GA. D.O.T. LABORATORY MAY BE USED INSTEAD OF THE BOLT SHOWN. ALL SUCH ALTERNATES ARE TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER.

PICTORIAL VIEW



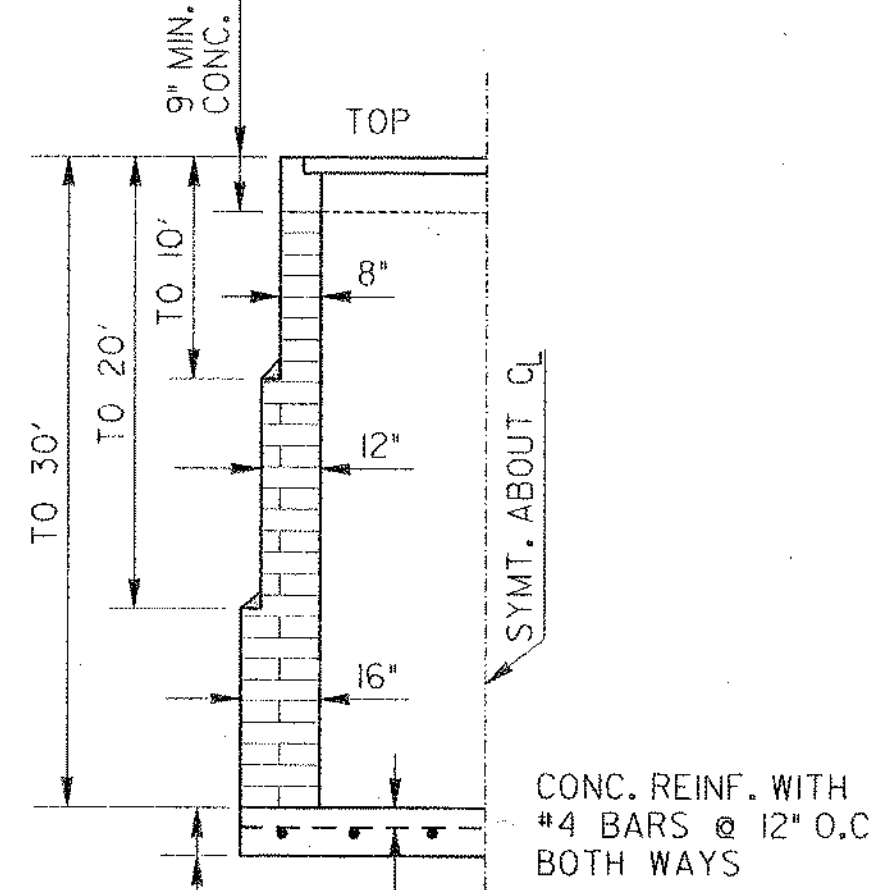
25:1 SLOPE REQUIRED ON EACH SIDE OF EARTH DITCH PLUG IN MEDIAN DITCH. 10:1 SLOPES MAY BE USED IN SIDE DITCHES. (PLUG IS NOT REQUIRED IN SAGS.)

DROP INLET WITH CIRCULAR BASE			
OUTLET PIPE	ADAPTOR	W X W ₁	GRATE SIZE (L. X W.)
TO 18"	TP. 3	2'-0" X 2'-0"	2'-0" X 2'-6"
TO 30"	TP. 2	3'-0" X 2'-0"	3'-0" X 2'-6"

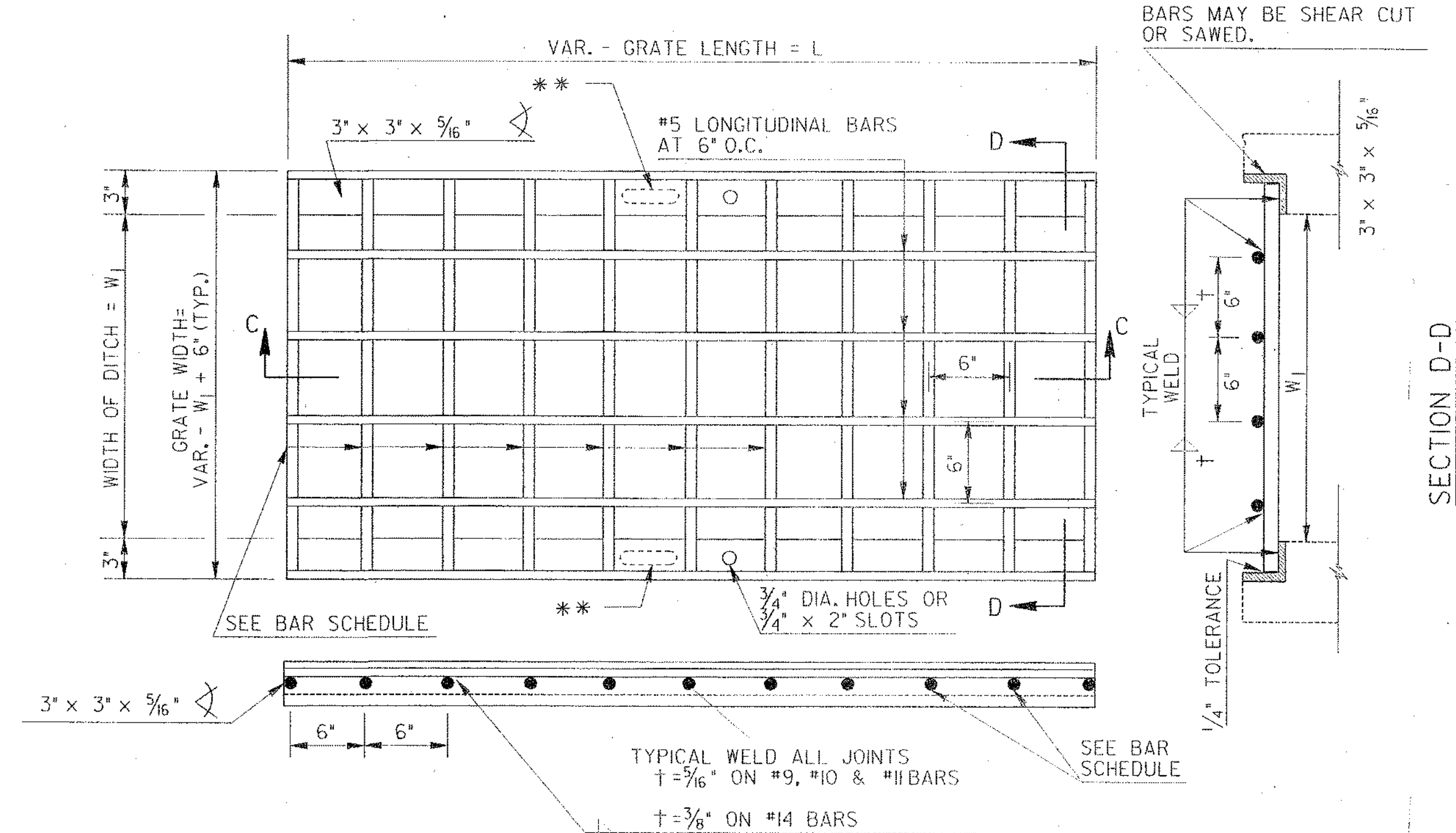


SECTION B-B FOR: CIRCULAR ALTERNATE OR ENLARGED BASE

SAFETY GRATE FABRICATION DETAILS

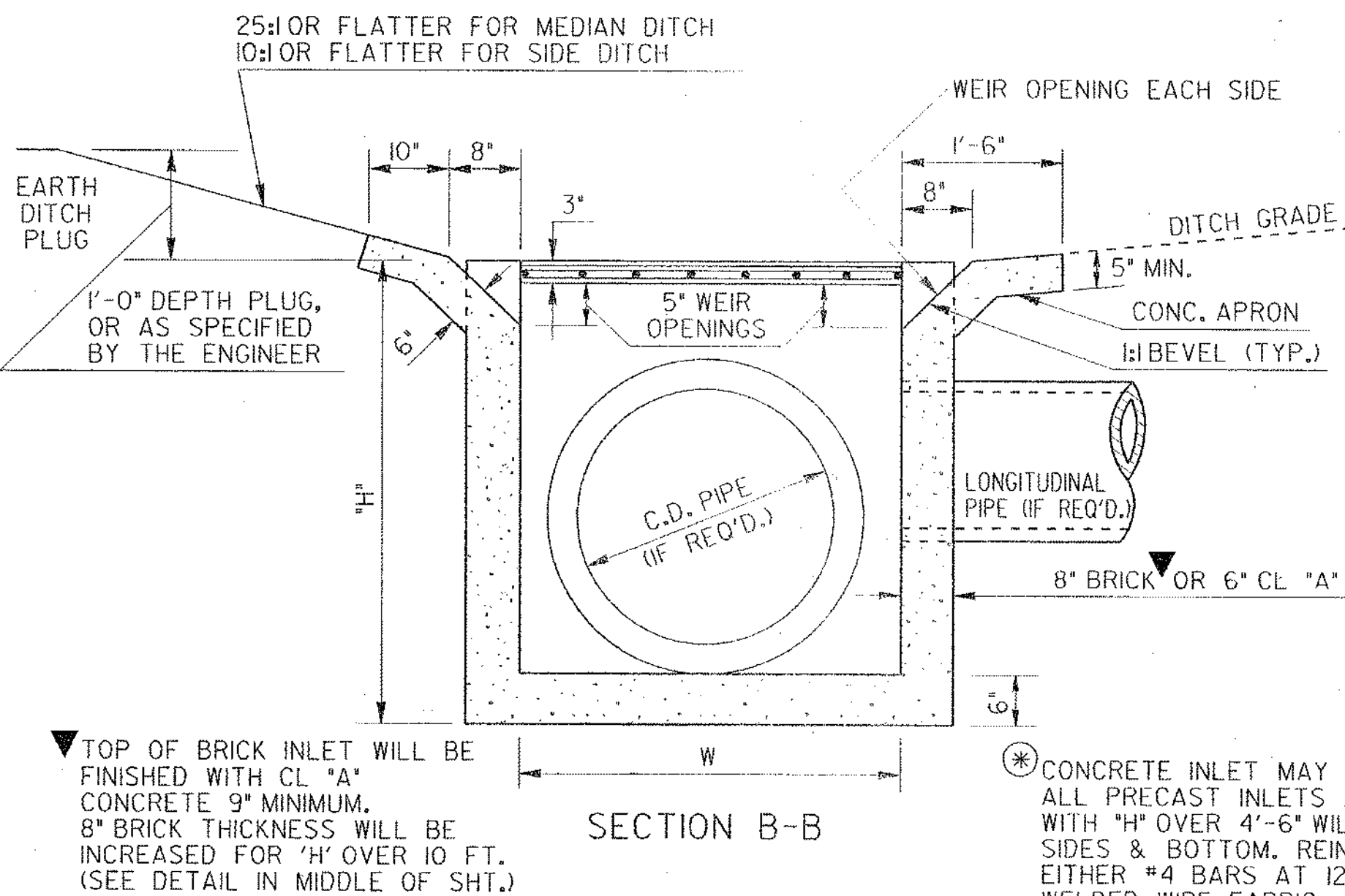


DETAIL OF DEPTH LIMITS FOR BRICK WALL THICKNESS



W ₁	GRATE TYPE	BAR SIZE
1'-6" TO 2'-0"	1	#9
2'-6"	2	#10
3'-0" TO 3'-6"	3	#11
4'-0" TO 4'-6"	4	#14

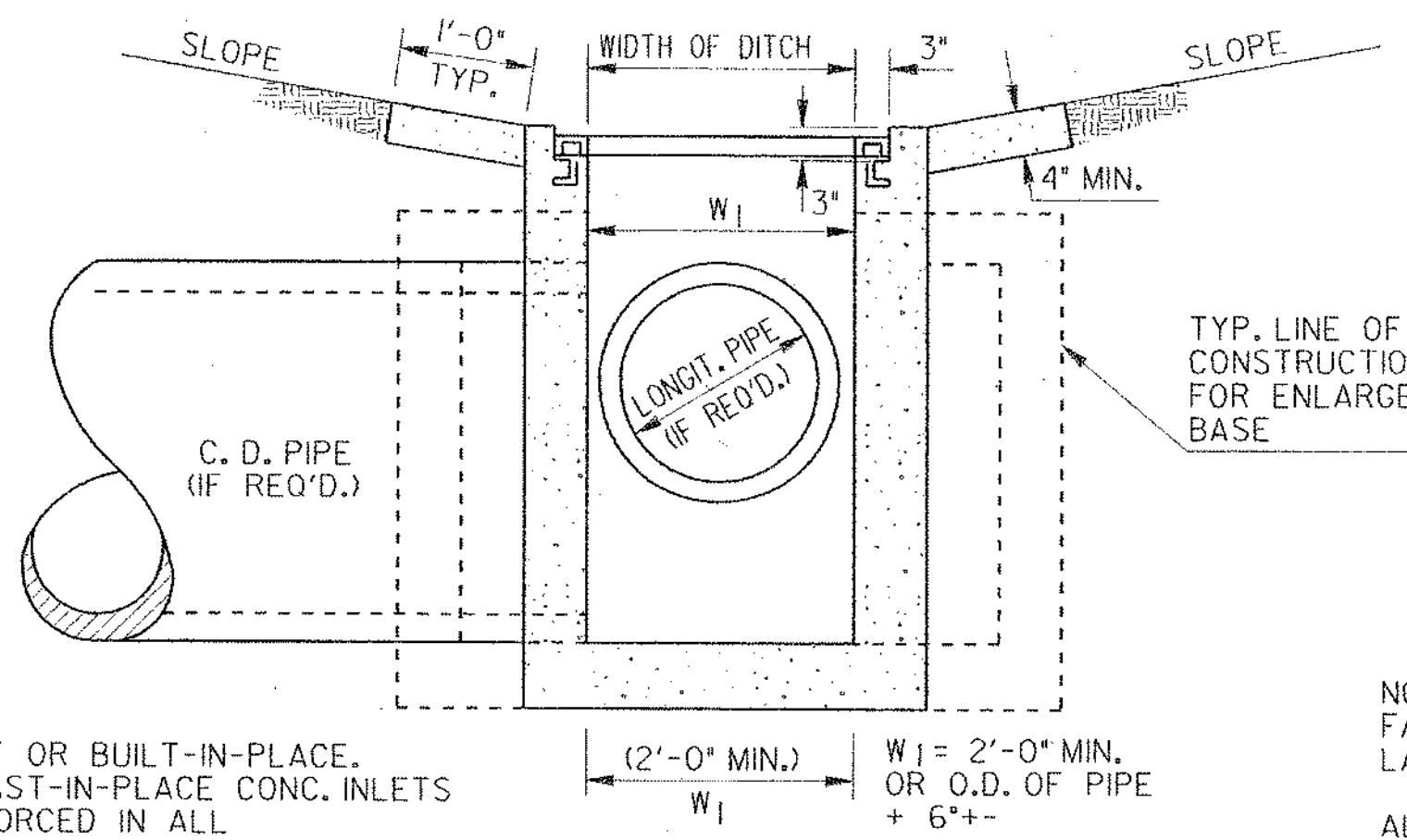
** ALTERNATE: INSTEAD OF 3/4" DIAMETER HOLE, A 2" X 3/4" OVAL HOLE MAY BE PROVIDED.



SECTION B-B

TOP OF BRICK INLET WILL BE FINISHED WITH CL 'A' CONCRETE 9" MINIMUM. 8" BRICK THICKNESS WILL BE INCREASED FOR 'H' OVER 10 FT. (SEE DETAIL IN MIDDLE OF SHT.)

* CONCRETE INLET MAY BE PRECAST OR BUILT-IN-PLACE. ALL PRECAST INLETS AND ANY CAST-IN-PLACE CONC. INLETS WITH 'H' OVER 4'-6" WILL BE REINFORCED IN ALL SIDES & BOTTOM. REINFORCING FOR BOX INLET WILL BE EITHER #4 BARS AT 12" O.C. BOTH WAYS OR 2/2, 6x6 WELDED WIRE FABRIC. ALL REINFORCING WILL HAVE 2" MIN. COVER.



SECTION A-A

NOTES FOR GRATE: FABRICATOR WILL ARRANGE FOR TESTING BY THE GA. D.O.T. LABORATORY 14 DAYS PRIOR TO FABRICATION.

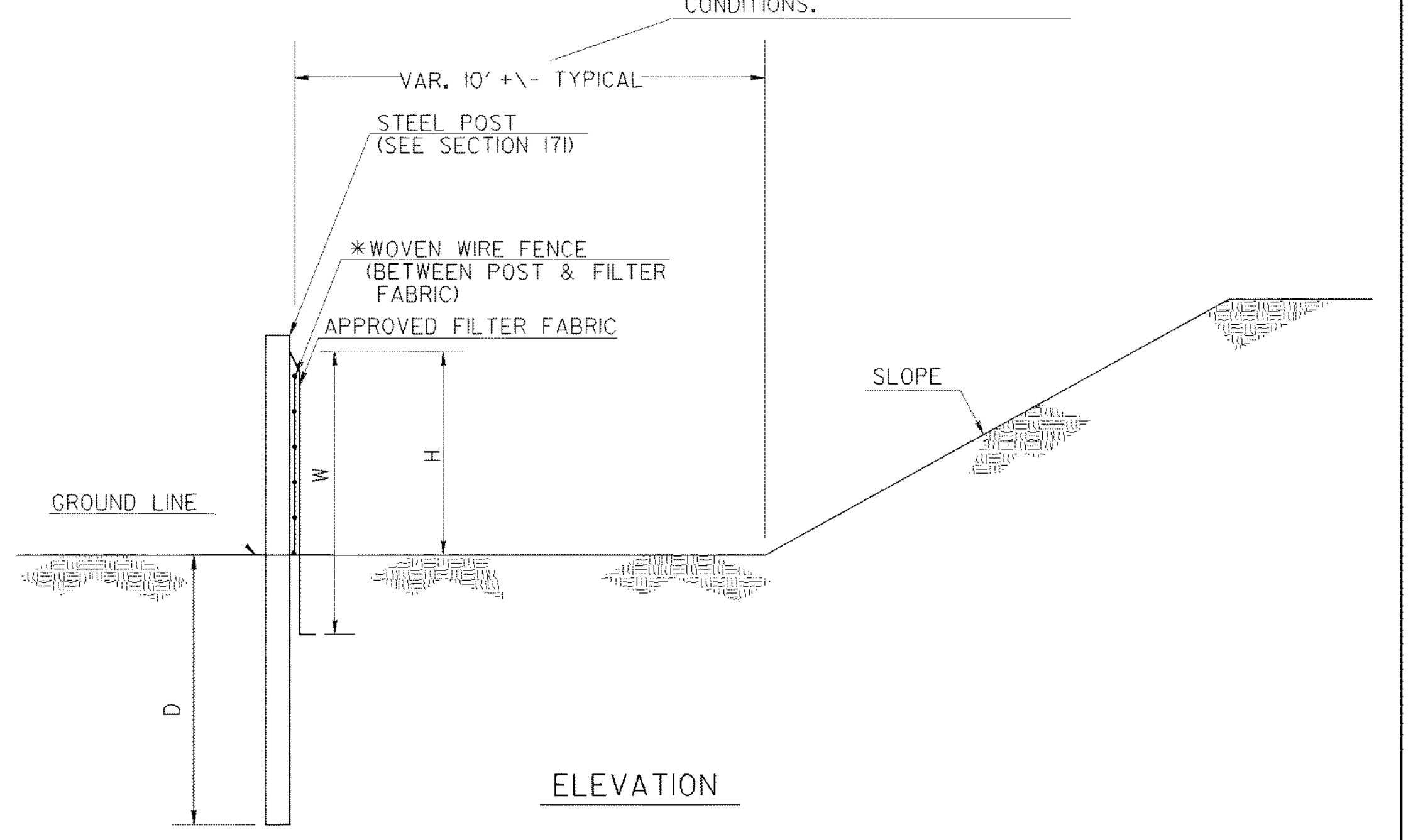
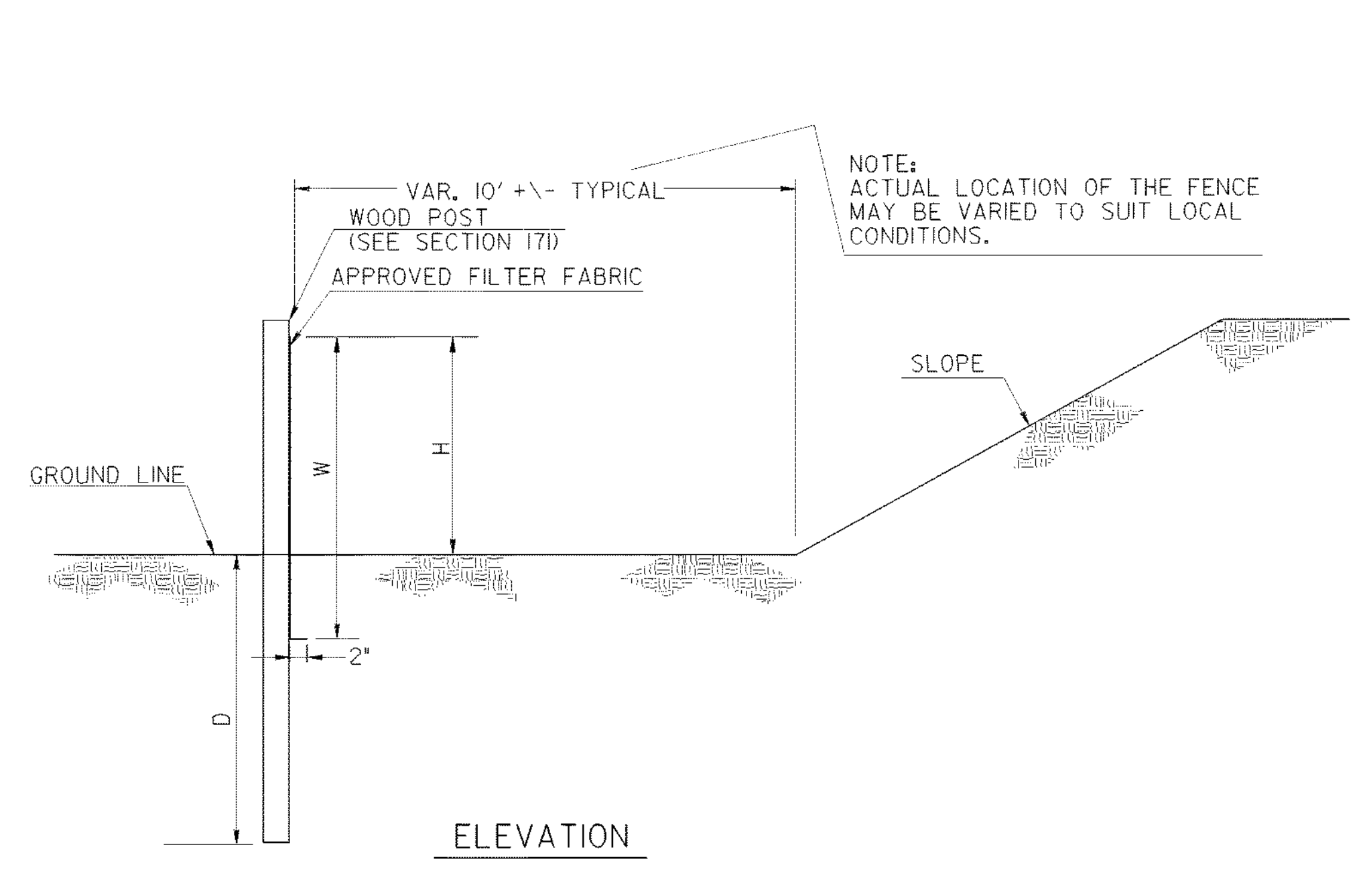
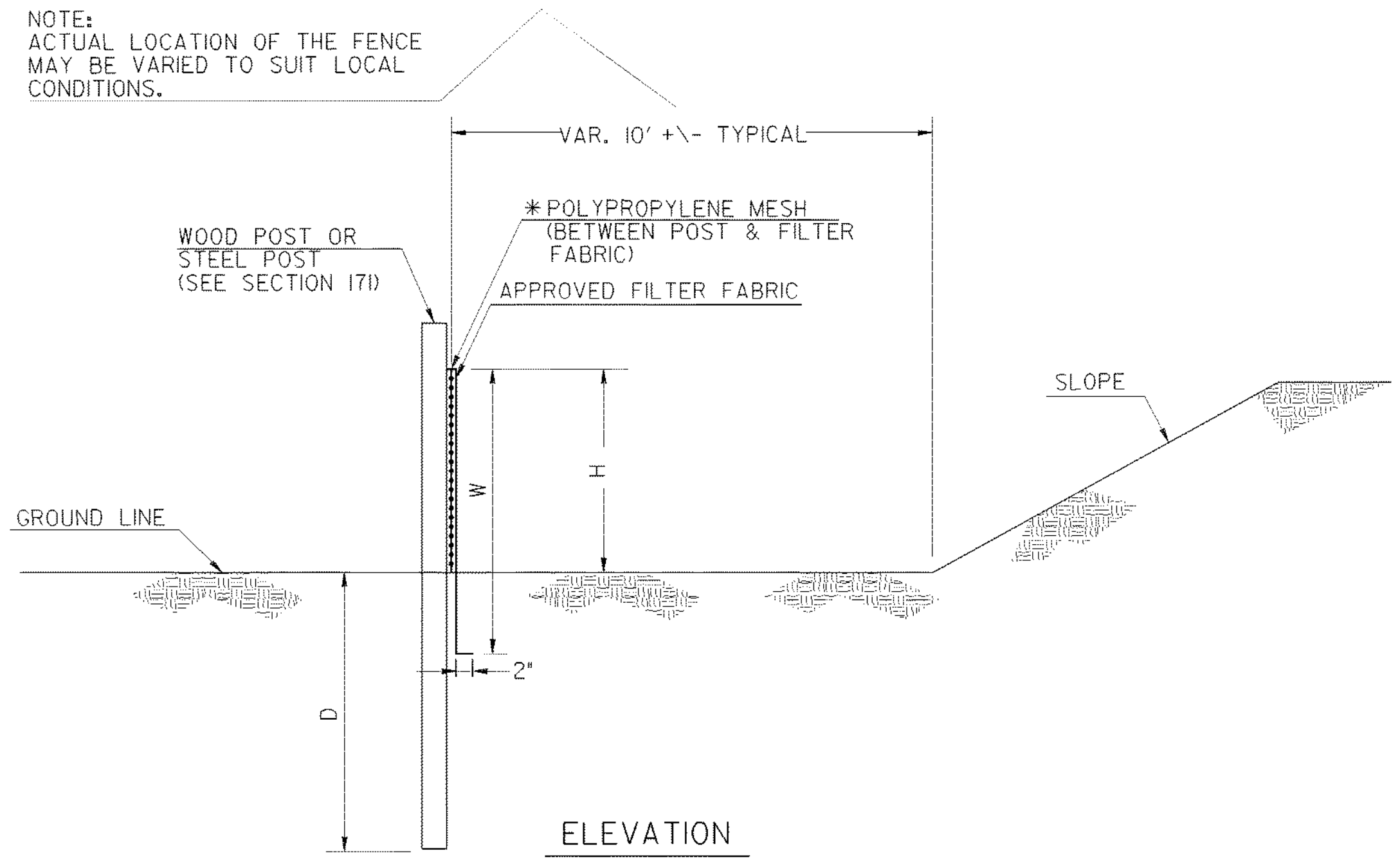
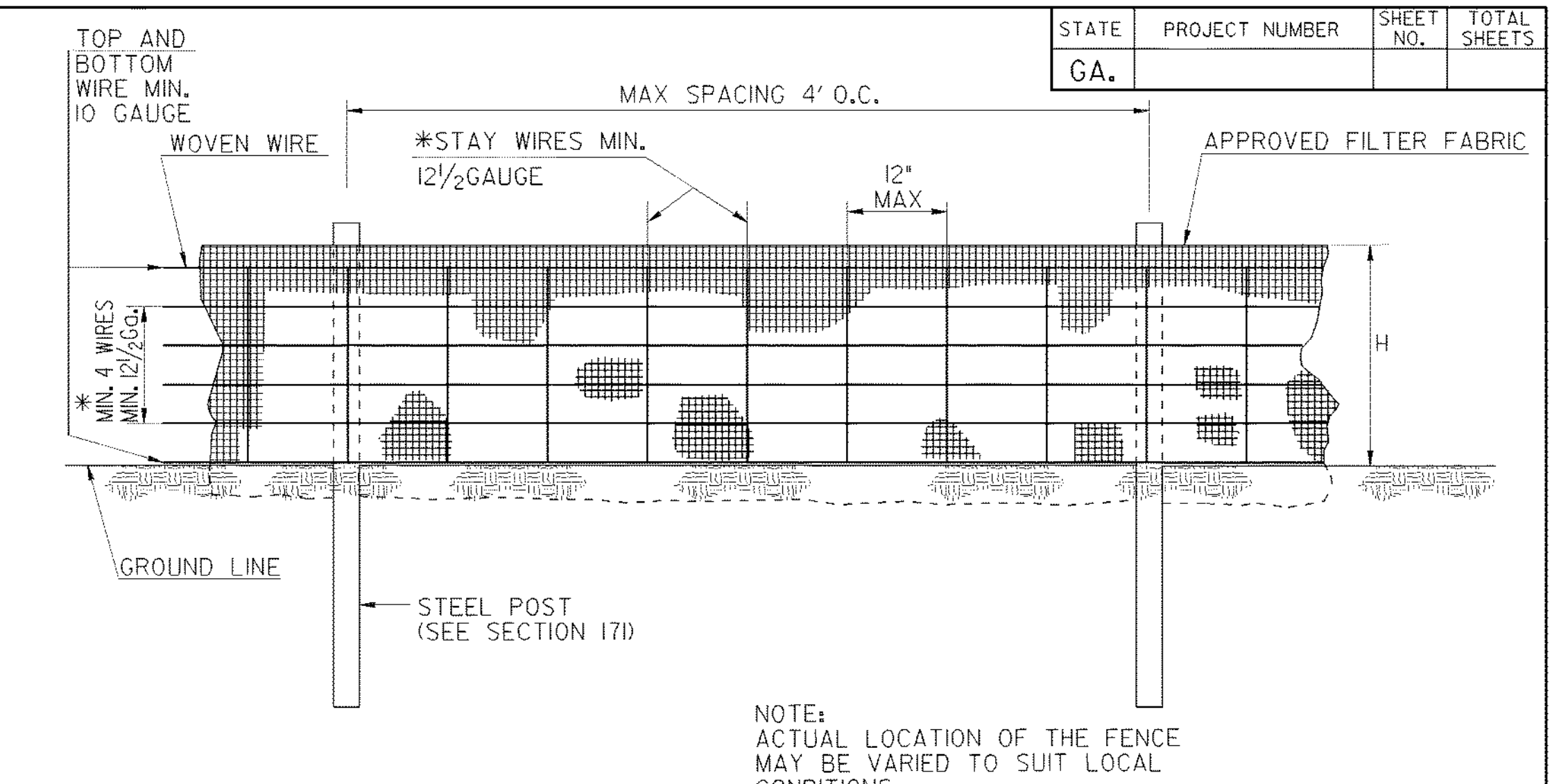
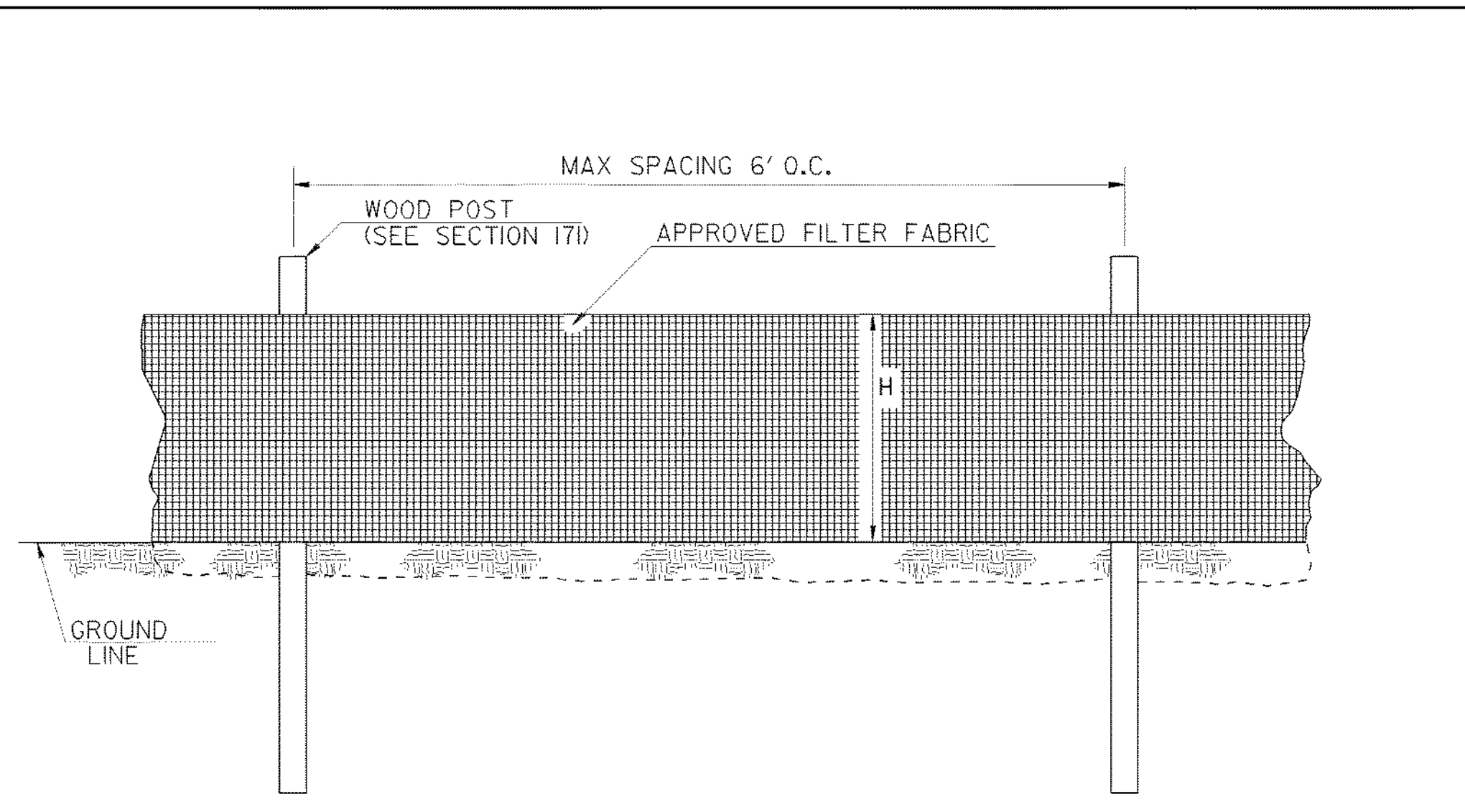
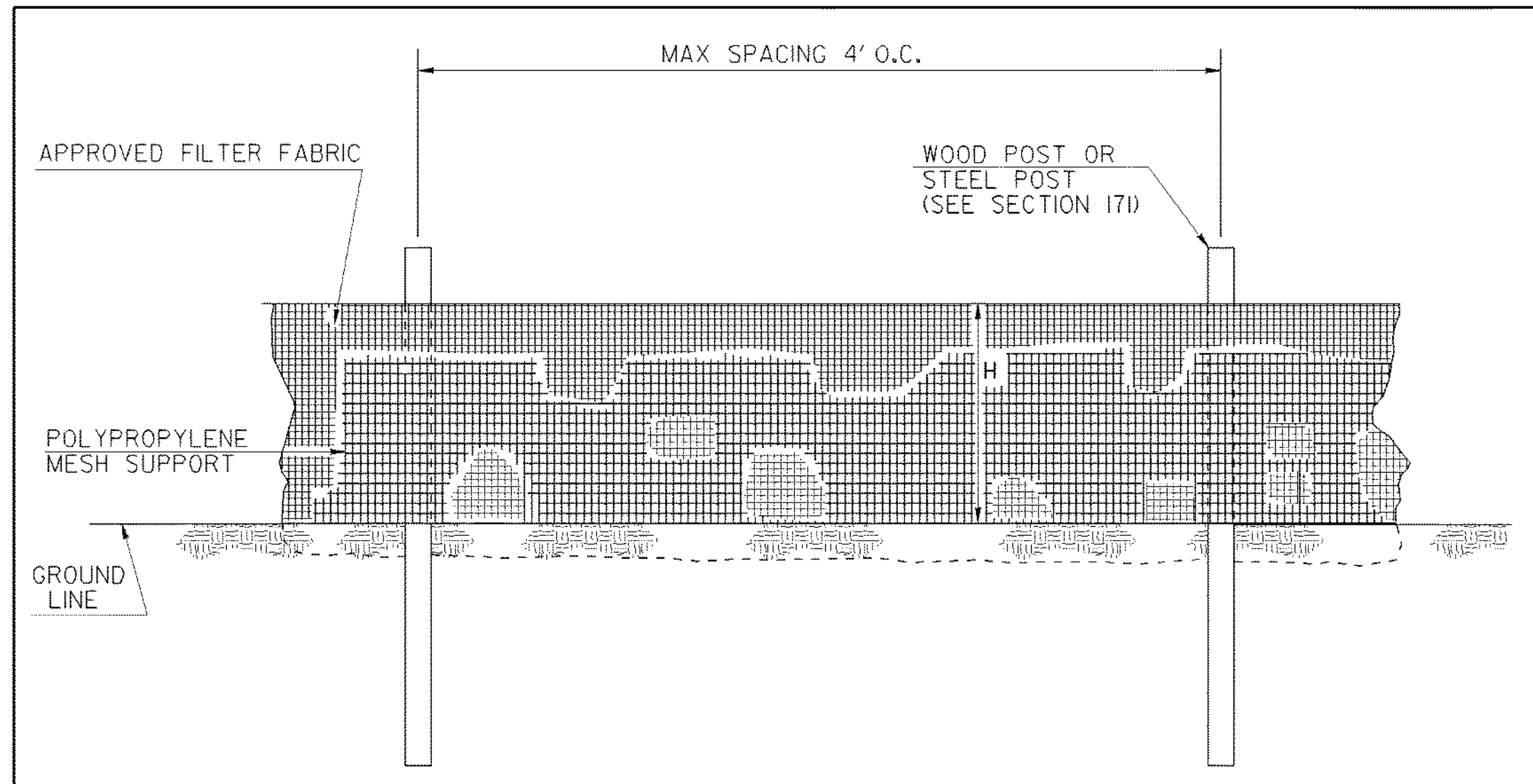
ALL BARS SHALL MEET THE REQUIREMENTS OF AASHTO M 31 GRADE 60.

ALL LONGITUDINAL BARS WILL BE #5 BARS.

GRATE BAR SPACINGS SHOWN ARE 'NOMINAL-MINIMUM' AND MAY BE INCREASED (UP TO 10% TYPICAL) WITH NO ADDITIONAL PAYMENT TO PROVIDE BEST FIT FOR STRUCTURE.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS DITCH DROP INLET WITH FABRICATED SAFETY GRATE AND WEIR OPENINGS	
NO SCALE		OCT., 2000	
DES.	(SUBMITTED)	NUMBER	
DRW.	STATE ROAD & AIRPORT DESIGN ENGR.	D-4	
TRA.	(APPROVED)	CHIEF ENGINEER	
CHK.			

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT

SINGLE ROW TYPE A SILT FENCE

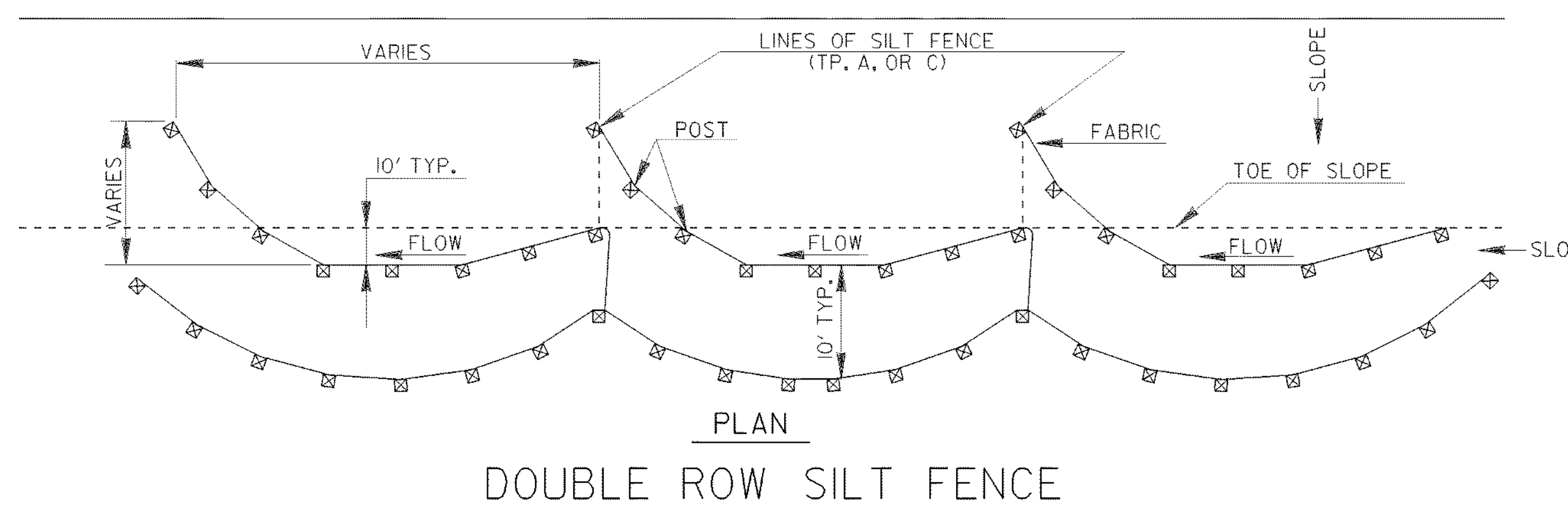
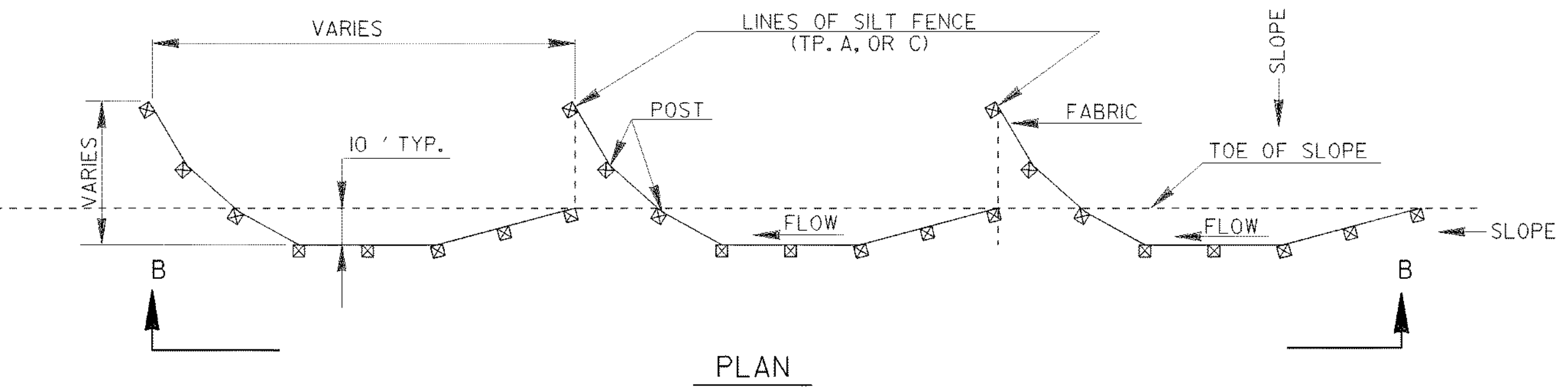
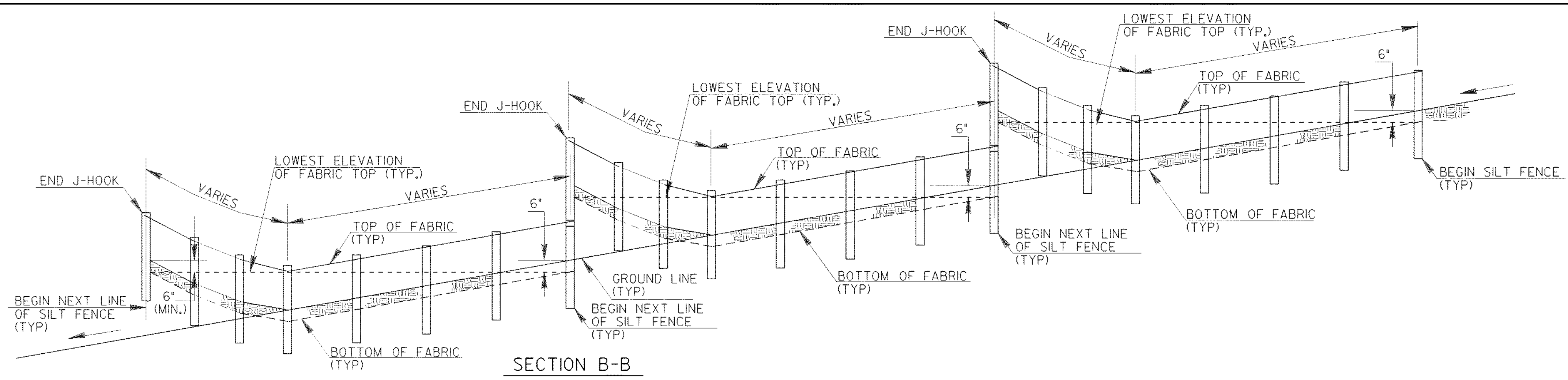
SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

- NOTES:
1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
 2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
 3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
 4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
 6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
 7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
 8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE	
BY		NO SCALE	REV. AND REDRAWN JAN. 2011
		NUMBER D-24A (SHEET 1 OF 4)	

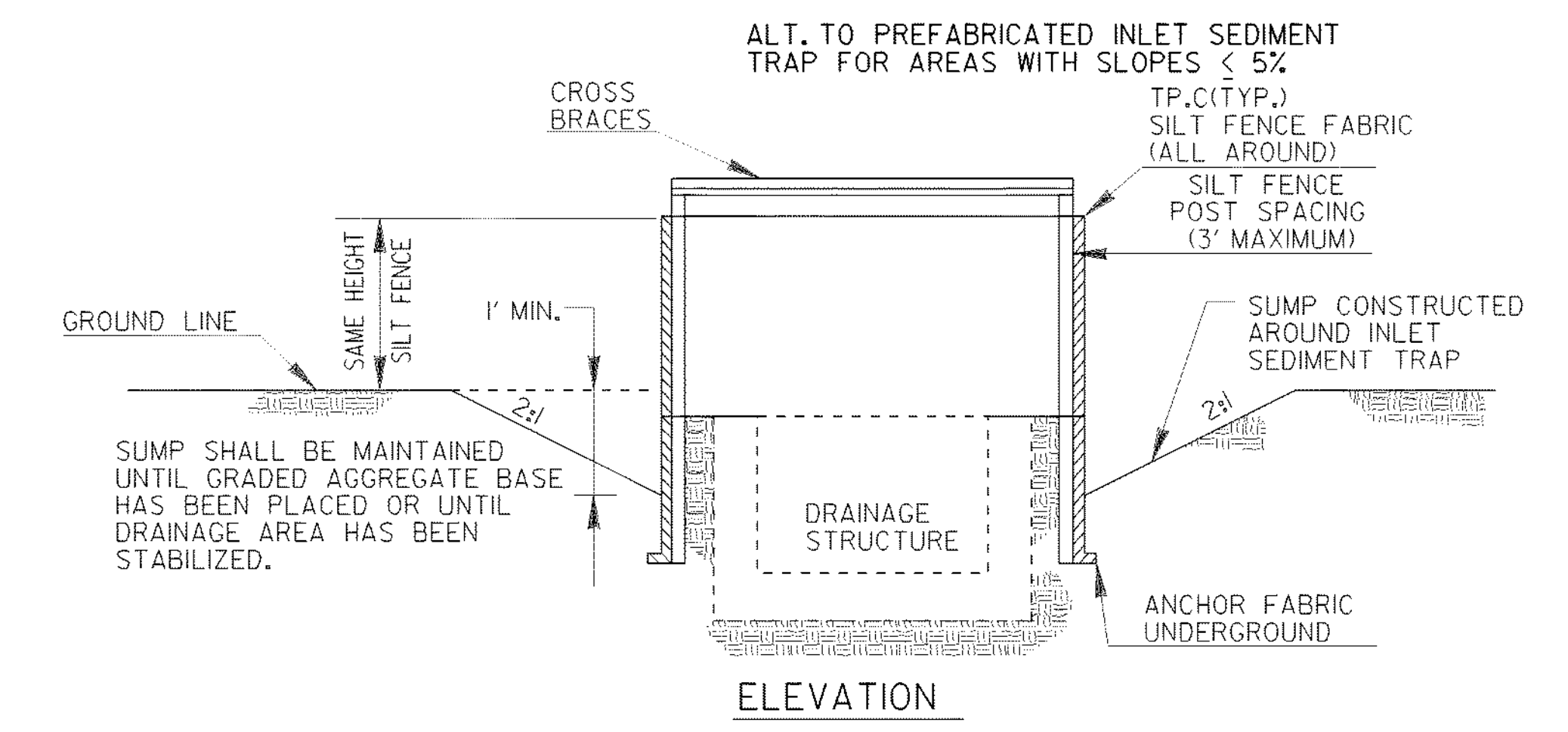
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



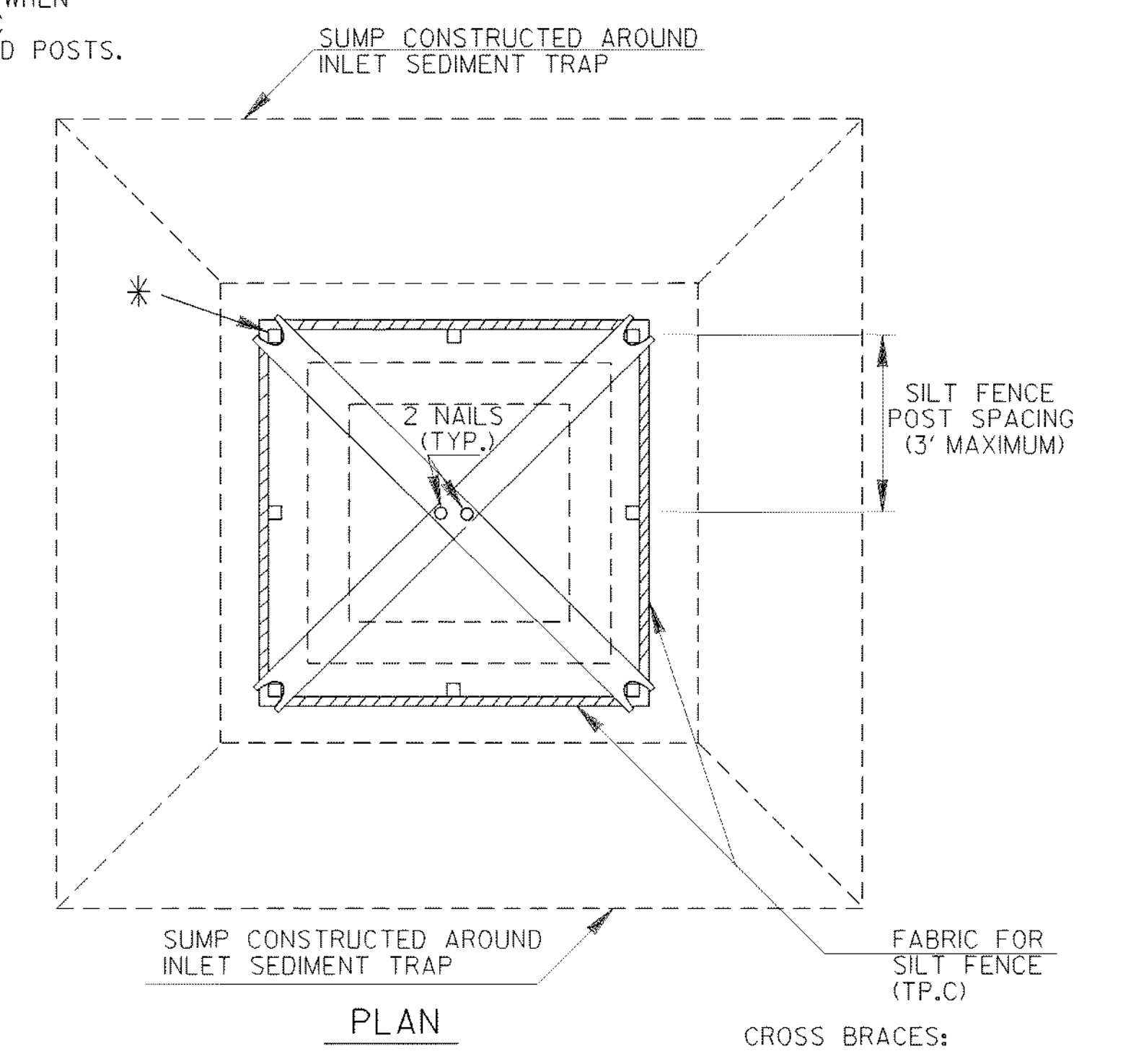
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
 1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
 2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

TYPICAL LOCATION AROUND DROP INLETS

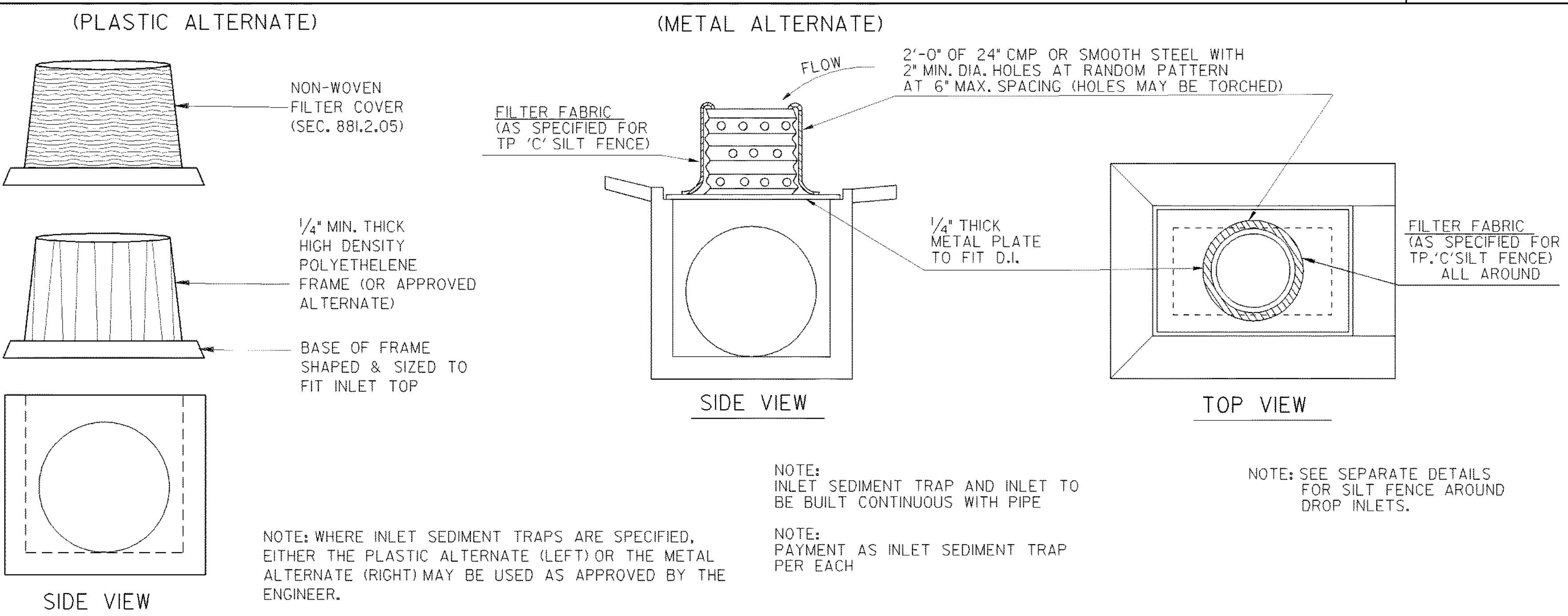


* CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



NOTE: PAYMENT AS INLET SEDIMENT TRAP PER EACH.
 NOTE: SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

NOTE: THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.
 TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE
 1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
 2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
 3. SLIDE THE FILTER OVER THE FRAME.
 4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
 5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
 NOTE: INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

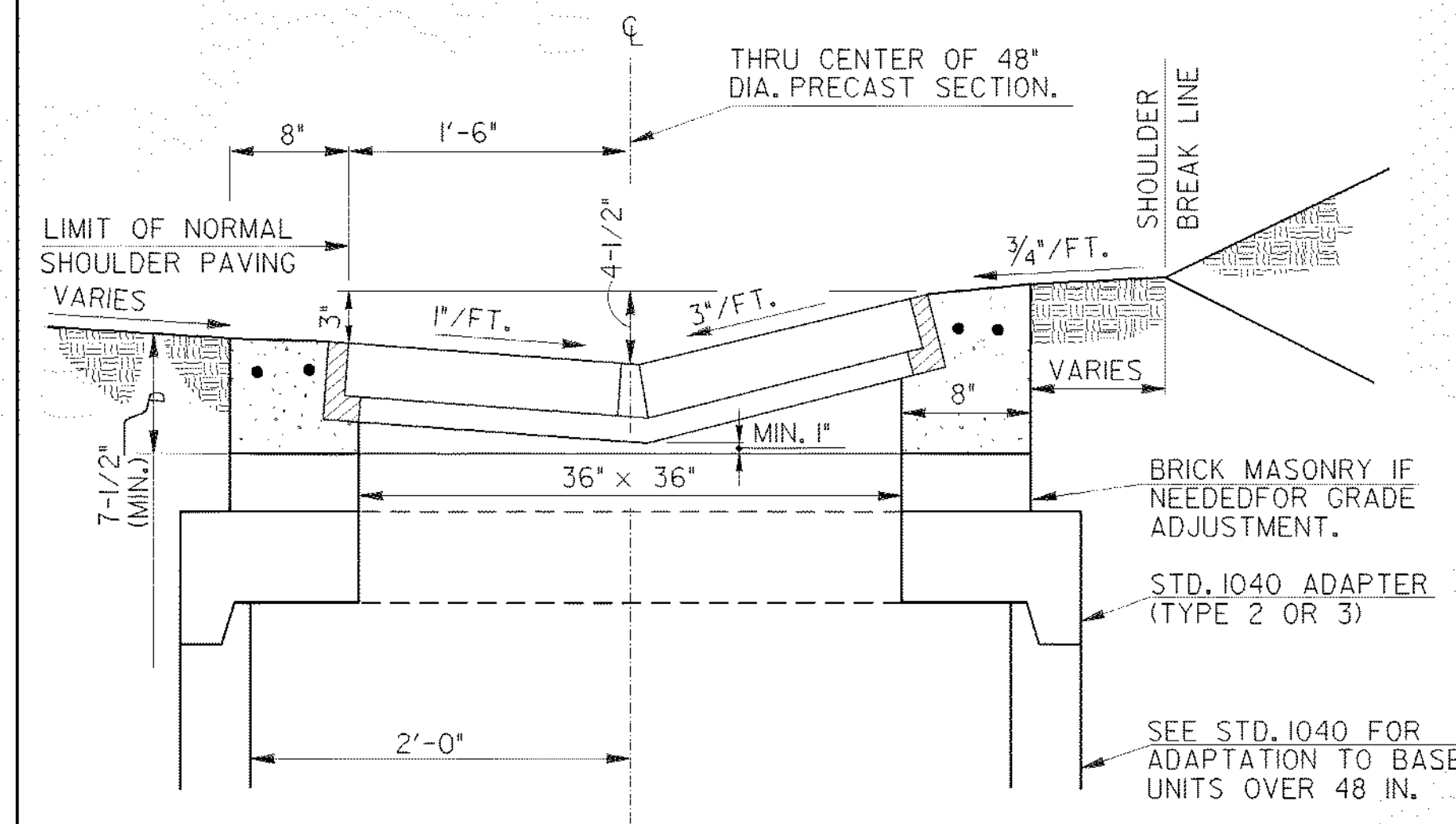


INLET SEDIMENT TRAP - FOR DROP INLETS

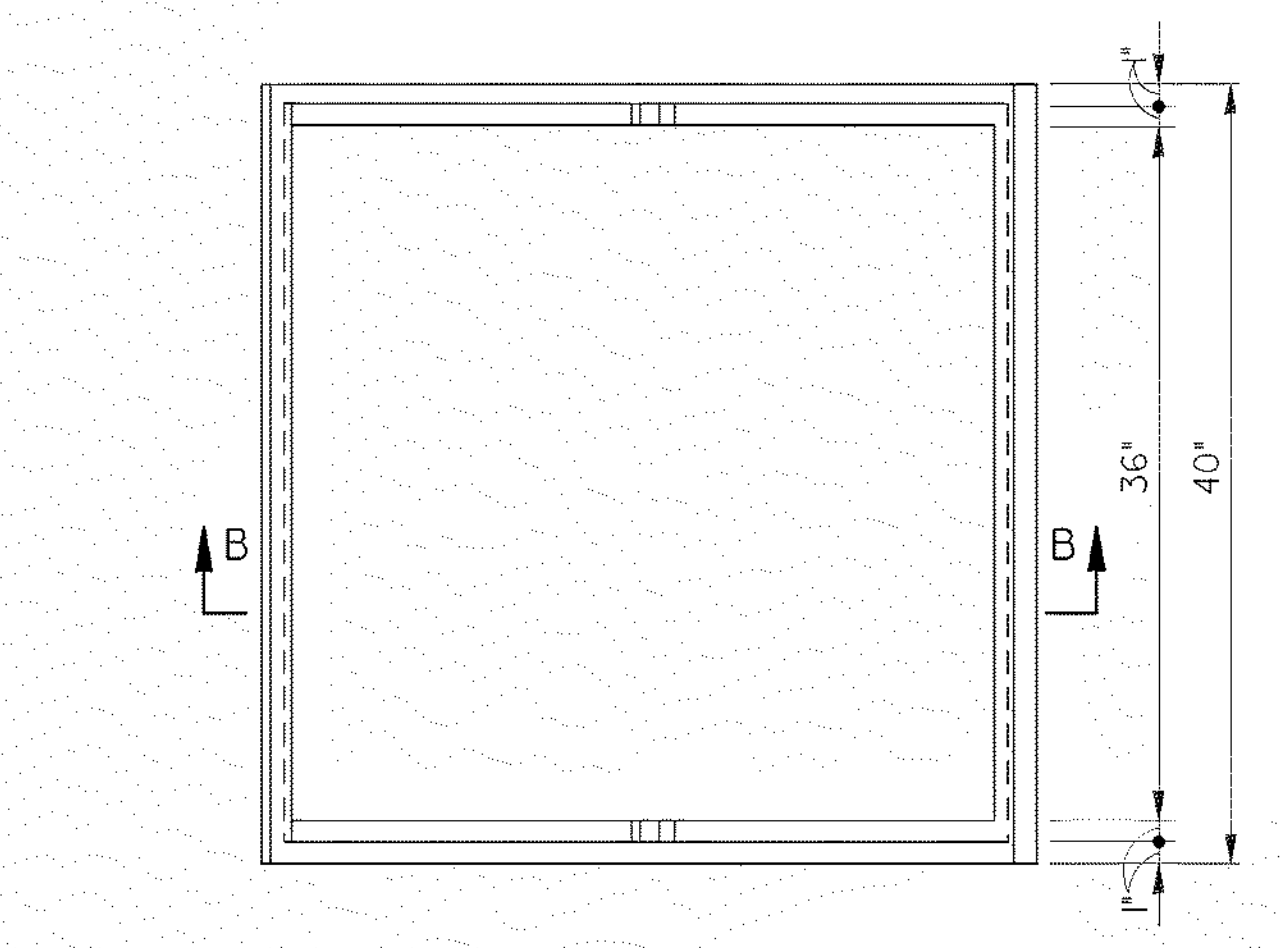
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
BY		NO SCALE	JANUARY 2011
		NUMBER D-24C (SHEET 3 OF 4)	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

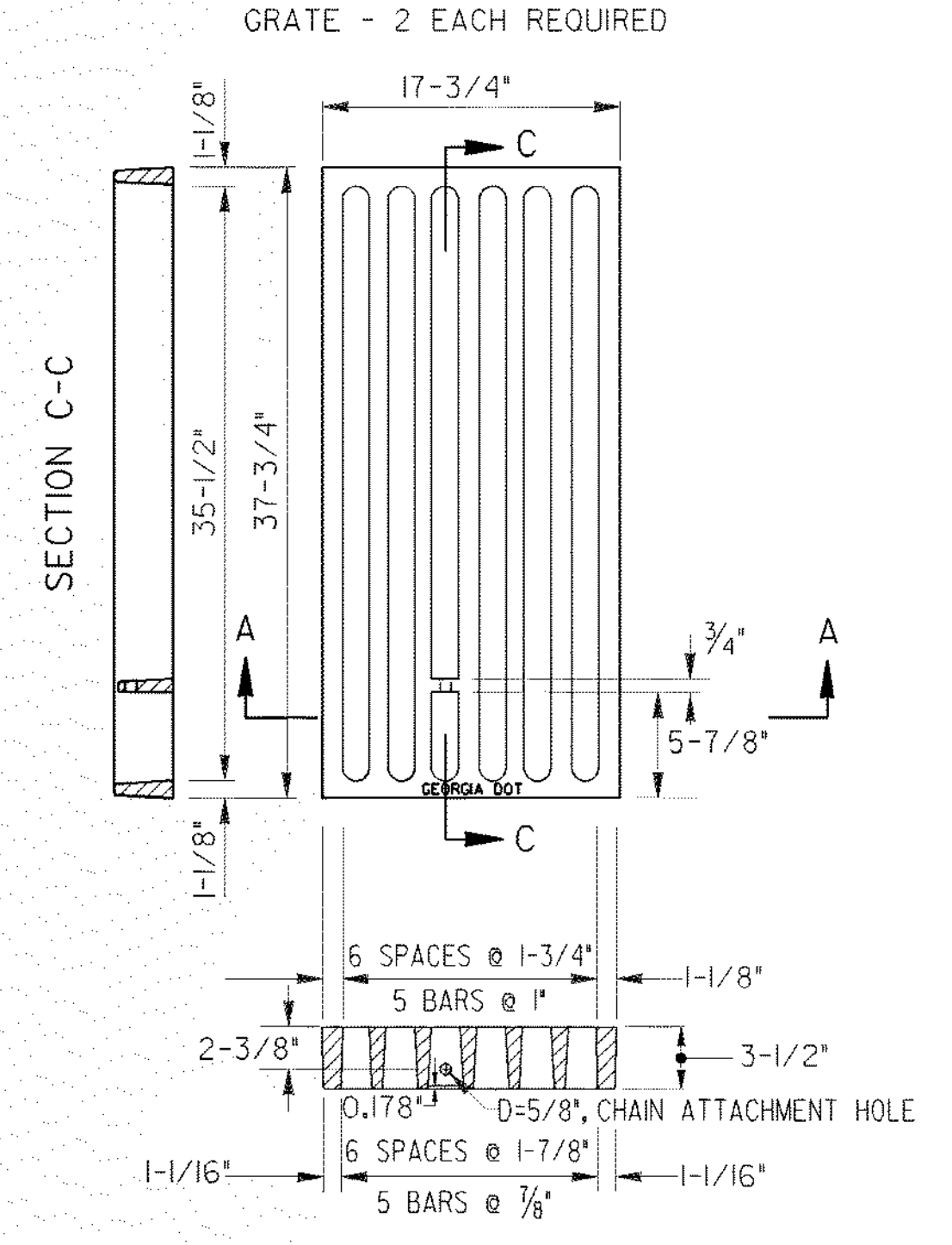
CIRCULAR PRECAST ALTERNATE



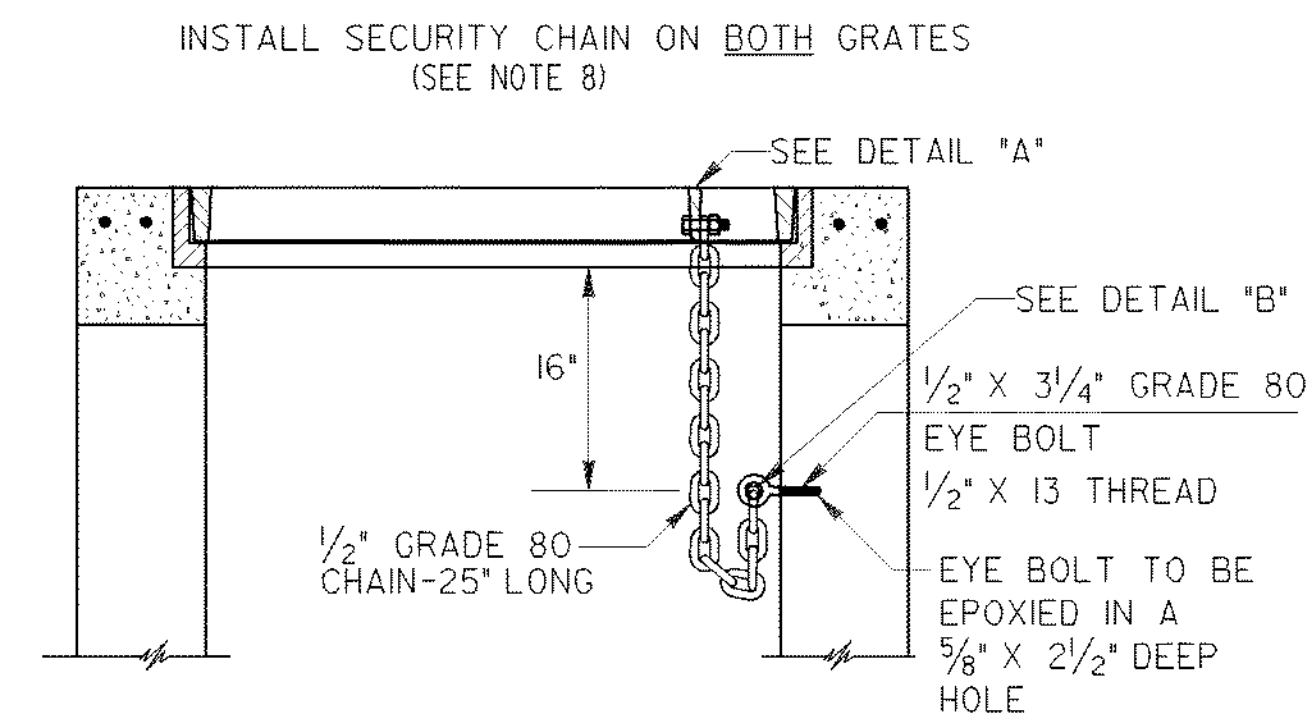
FRAME



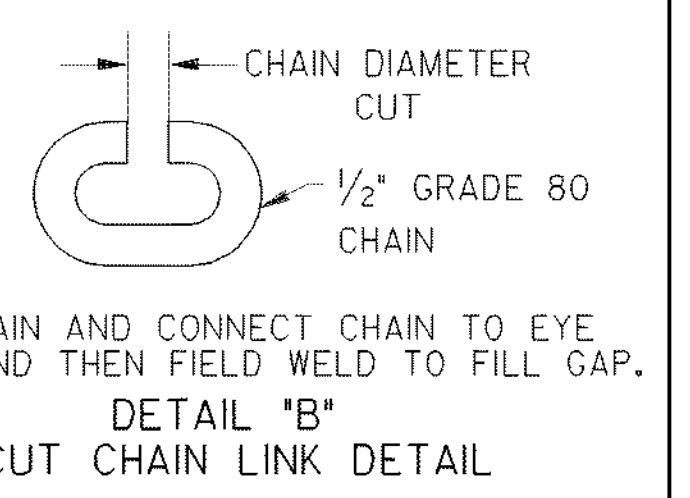
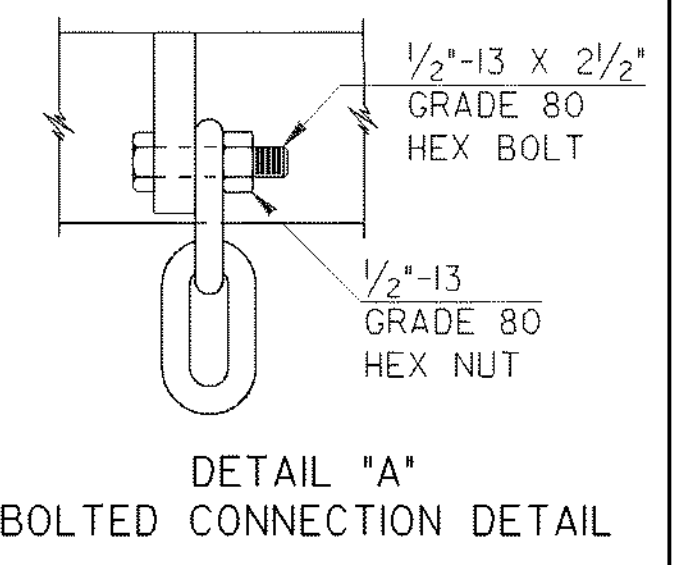
GRATE



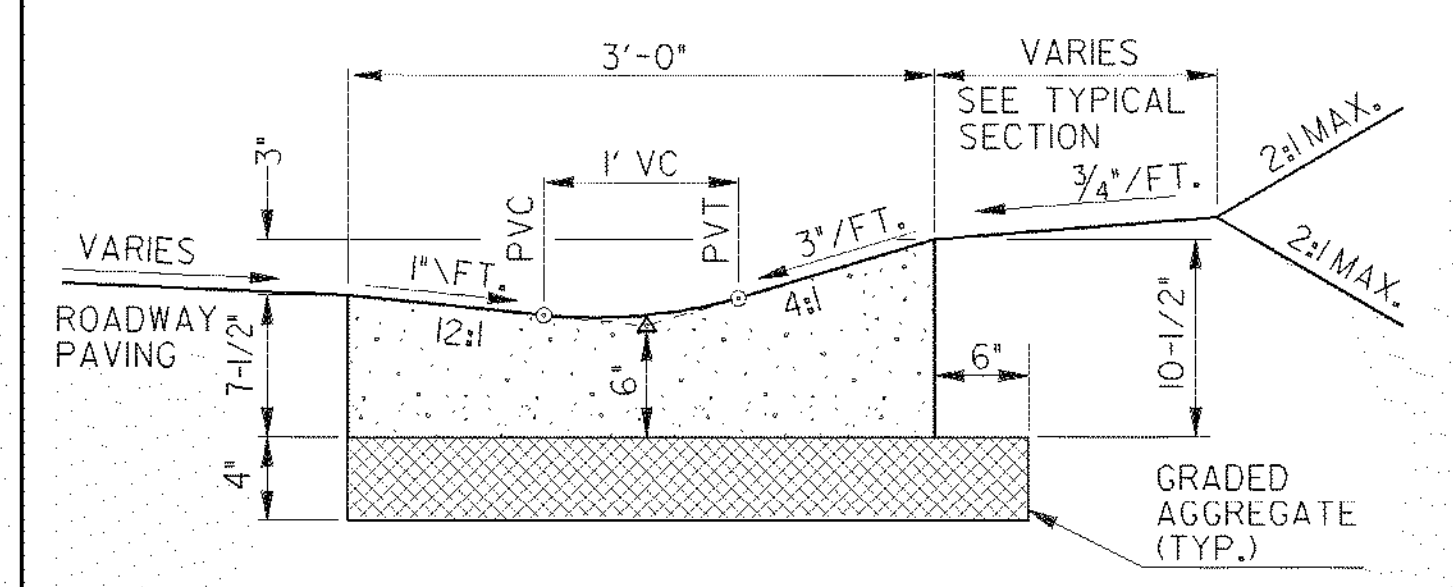
SECURITY CHAIN



CHAIN CONNECTION DETAILS



SPECIAL DESIGN "V" GUTTER DESIGN

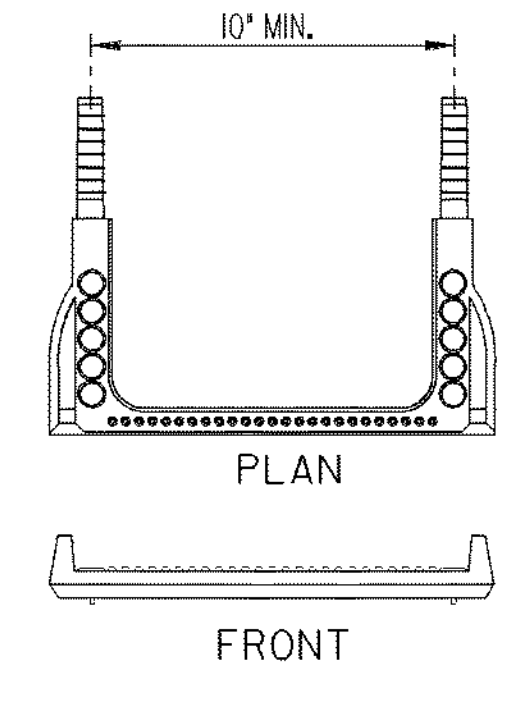


- 1. CONCRETE SHALL BE CLASS "A", OR PER SECTION 441.
- 2. BASIS OF PAVEMENT: CONCRETE "V" GUTTER PER LIN. FT.

NOTE: FRAME AND GRATE SHALL BE GRAY IRON DRAINAGE CASTINGS, SEE GEORGIA D.O.T. STANDARD SPECIFICATIONS 854.

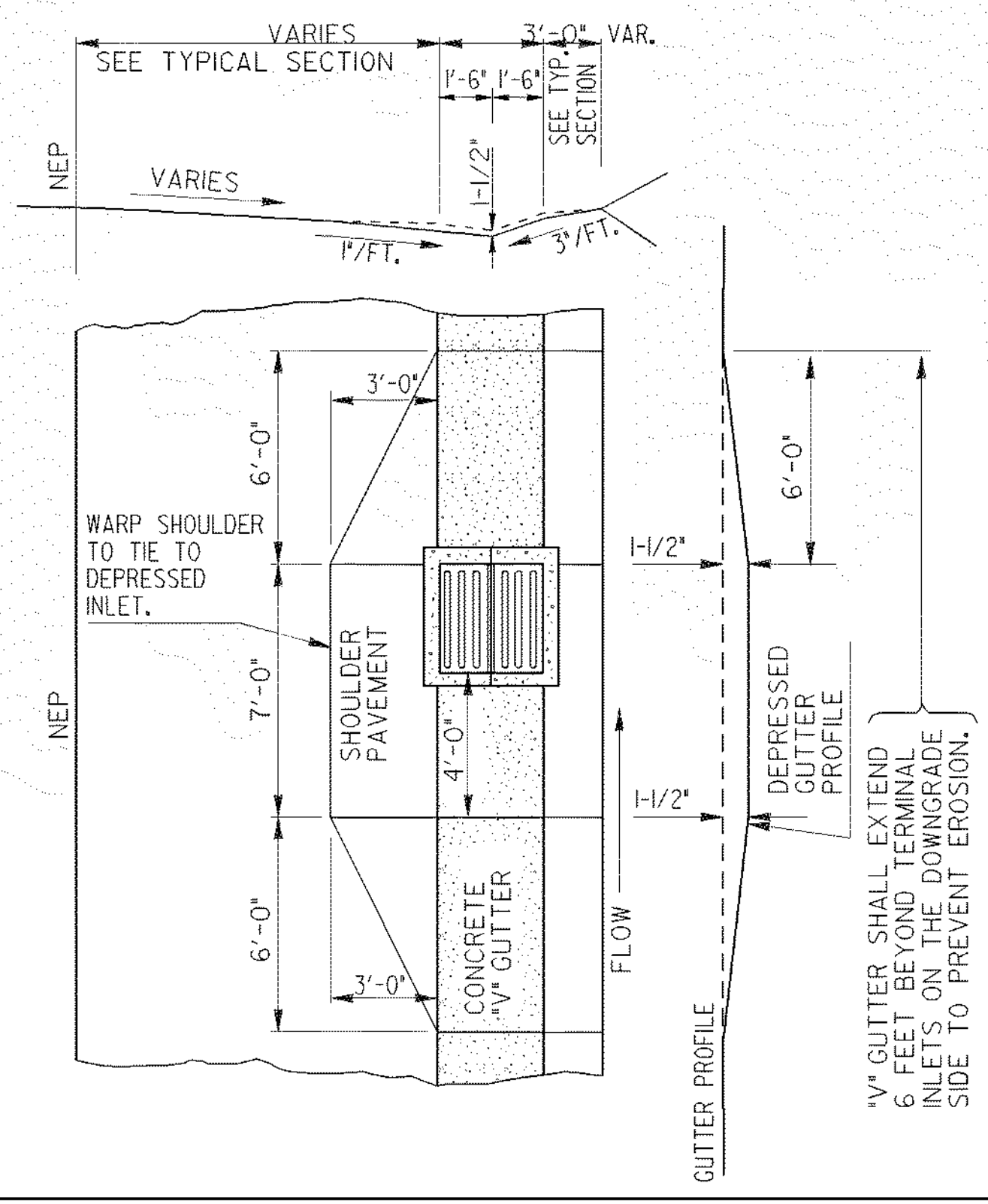
NOTE: GRATE SHOWN ABOVE SHALL NOT BE USED WHERE BICYCLES ARE PERMITTED, SEE CONSTRUCTION DETAIL D-33B FOR BICYCLE GRATE.

STEPS

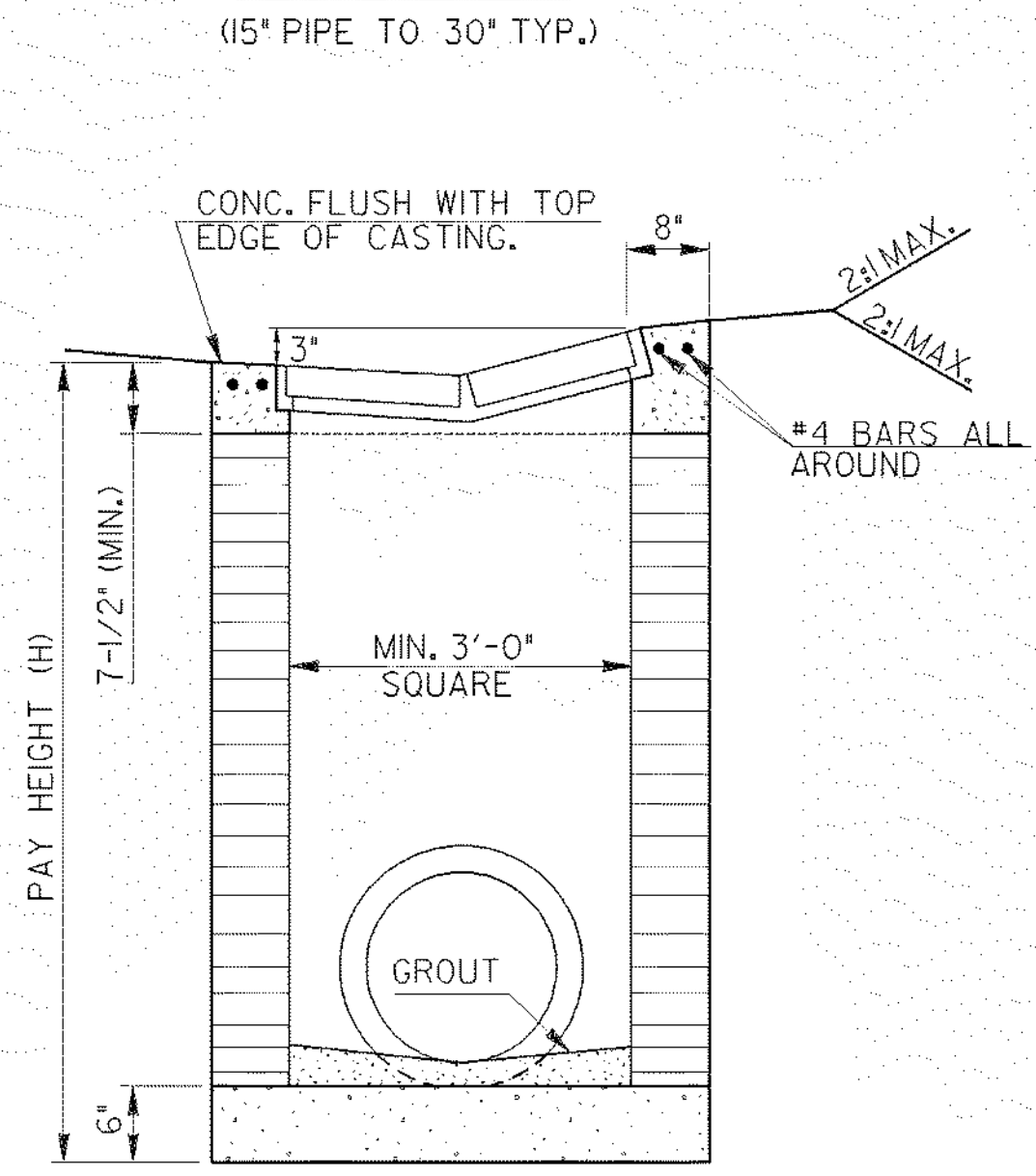


NOTE: STEPS ARE REQUIRED IN ALL INLETS OVER 4 FT IN HEIGHT. STEPS WILL BE ALIGNED TO FORM A CONTINUOUS LADDER WITH RUNGS AT 16" MAXIMUM SPACINGS. THE CONTRACTOR WILL USE ONLY STEPS LISTED IN THE GA, D.O.T. OFFICE OF MATERIALS AND RESEARCH "QUALIFIED PRODUCTS LIST".

DEPRESSED INLET



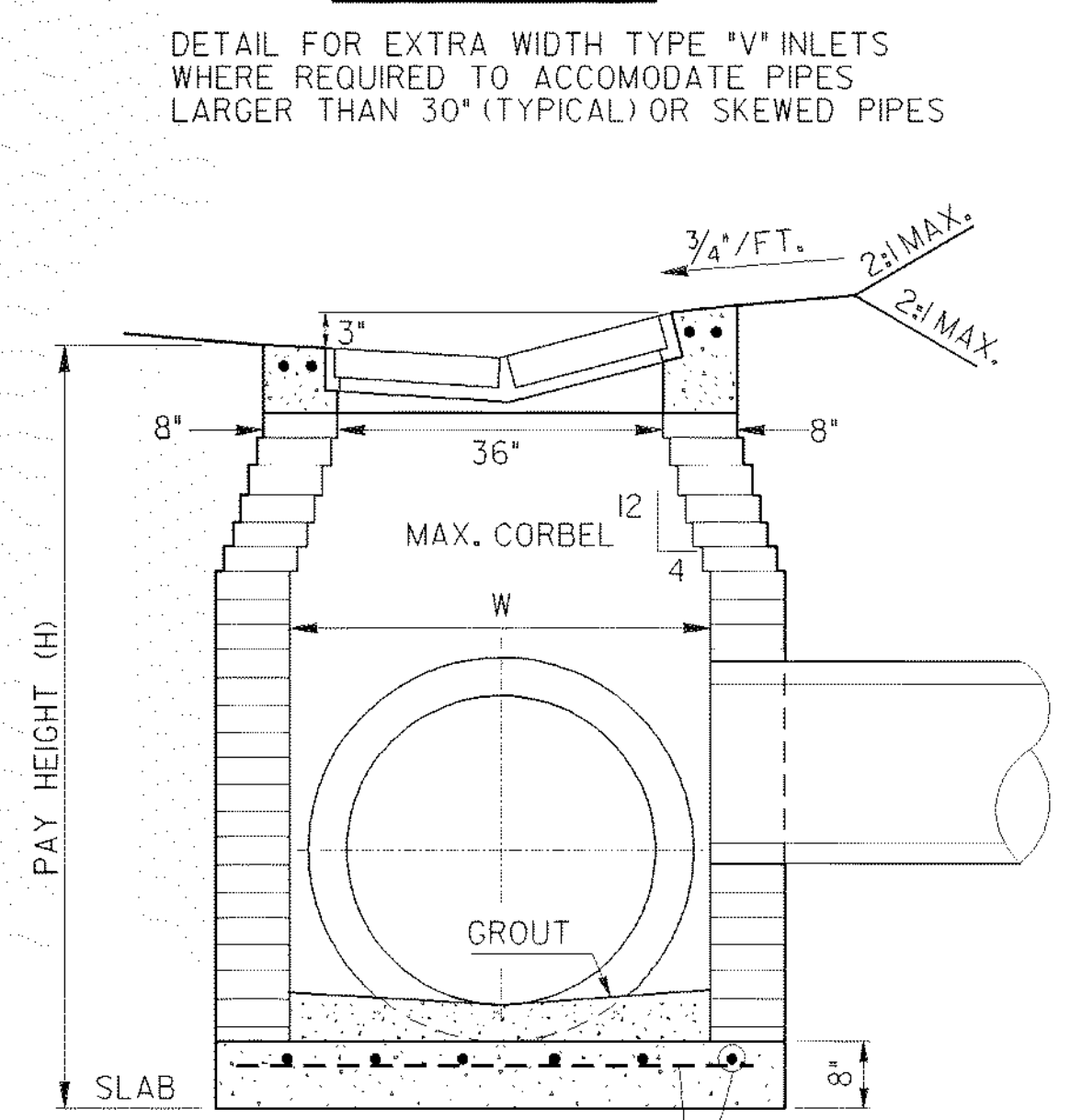
TYPE "V" INLET



PIPE SIZE	MIN. "H"
15"	3'-9"
18"	4'-2"
24"	4'-9"
30"	5'-4"

THICKNESS OF BRICK WALLS	
DEPTH	THICKNESS
0'-10'	8"
10'-20'	12"
OVER 20'	16"

TYPE "V" INLET



PIPE SIZE	W *	MIN. H
36"	4'-0"	6'-6"
42"	4'-8"	7'-8"
48"	5'-0"	8'-2"
54"	5'-6"	9'-9"
60"	6'-6"	11'-9"

* W TO BE INCREASED WHERE NECESSARY TO ACCOMMODATE LARGER PIPES OR PIPES ON SKEWS WITH MINIMUM H INCREASED ACCORDINGLY.

GENERAL NOTES:

- SEE SECTION 668, OF GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR MATERIALS, CONSTRUCTION DETAILS, MEASUREMENTS, & PAYMENT FOR THIS STRUCTURE, EXCEPT AS NOTED.
- ALL CONCRETE SHALL BE CLASS "A" FOR BUILT-IN-PLACE INLET CONSTRUCTION. CONCRETE FOR "V" GUTTER MAY BE EITHER CLASS "A" OR PER SECTION 441. THE COST OF THE "V" GUTTER WILL BE INCLUDED IN THE OVERALL BID PRICE FOR CONCRETE V GUTTER.
- IF "V" GUTTER INLET SYSTEM IS TERMINATED IN SAG OR LOW AREA, AN EXTENSION OF THE GUTTER PAST LOWEST INLET OR OTHER APPROVED EROSION PROTECTION SHALL BE PROVIDED.
- CONSTRUCTION ALTERNATES FOR INLETS SHALL BE: (A) BRICK MASONRY AS SHOWN; (B) CIRCULAR PRECAST (SEE TOP LEFT & STD. 1040.); (C) REINFORCED CONCRETE (SEE STD. 1019-A).
- MINIMUM INLET DIMENSIONS GIVEN IN THE TABLES ARE TYPICAL FOR CONCRETE PIPE AND MAY BE ADJUSTED WHERE SPECIFIED BY EITHER THE DESIGNER OR THE ENGINEER.
- THE COST OF THE STEPS AND INSTALLATION OF CHAINS, EYE BOLTS, AND HEX BOLTS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR DROP INLET.
- APPLY TACK-WELD BEHIND THE NUT, IF CHAIN IS SECURED TO INLET OR GRATE WITH BOLT AND NUT.
- TYPE "V" INLET HAS TWO GRATES, EACH GRATE REQUIRES CHAIN AND EYE BOLT INSTALLED.

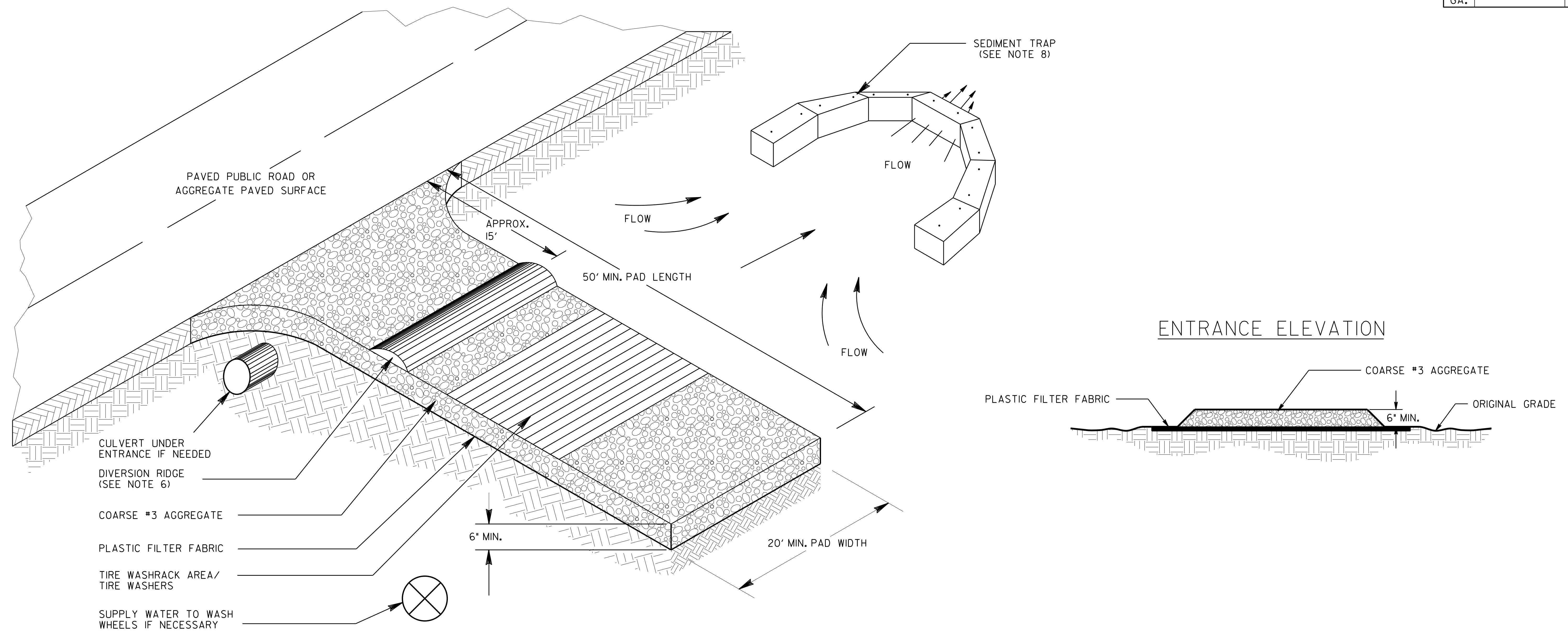
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TYPE "V" INLET
"V" GUTTER DETAILS

NO SCALE

REV. CHAIN GRADE & DETAILS	8-16-13	DATE
ADDED GEN. NOTES 7 & 8	4-4-11	BY
ADDED SAFETY CHAIN		
DETAIL & REV. STEP DETAIL	7-09-07	
REV. GEN. NOTE NO. 6	6-14-90	
REV. GEN. NOTE NUMBER 2.		
GENERAL REVISION		

NUMBER
D-33

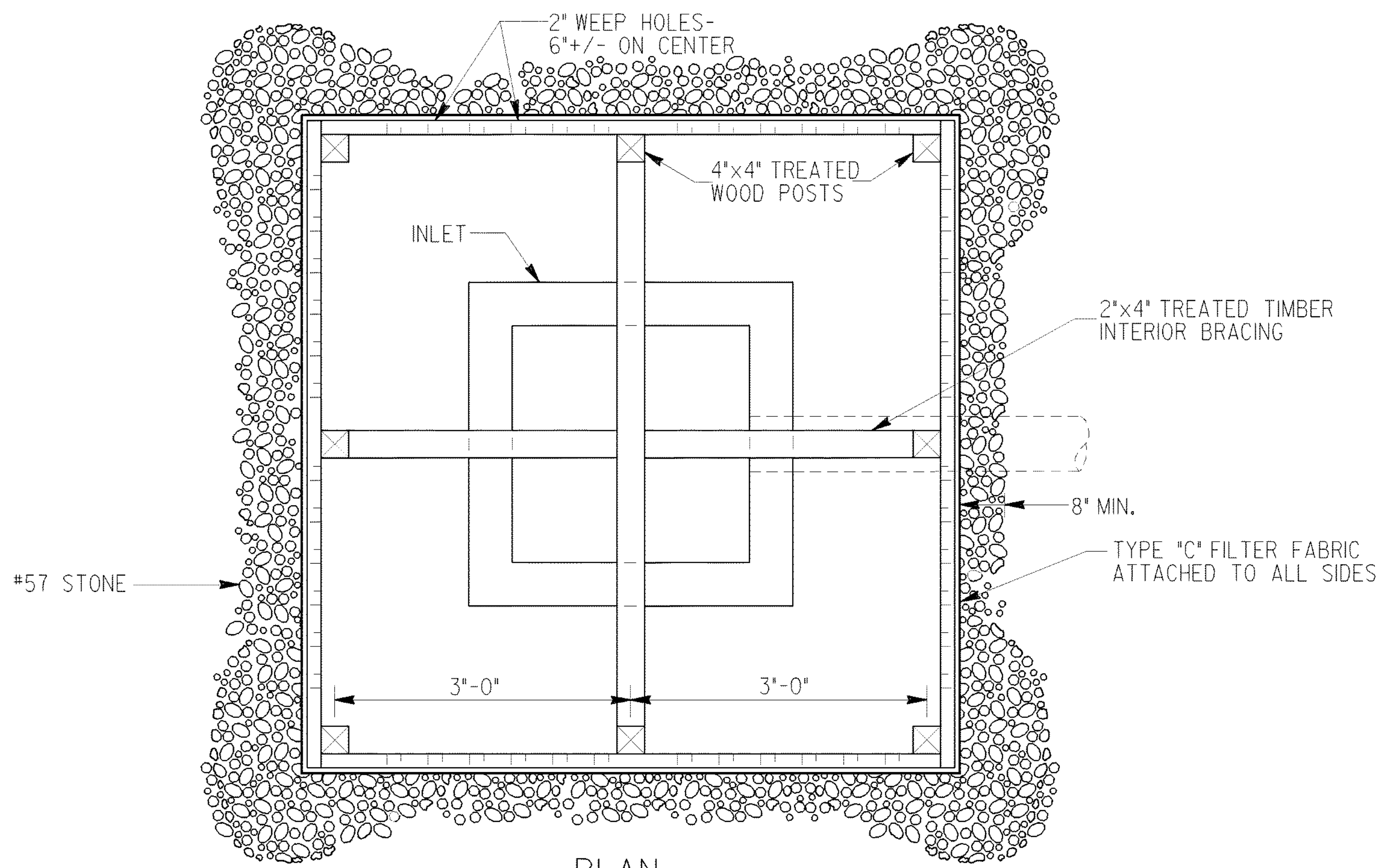


GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE #3 AGGREGATE WITH 0.0% PASSING THE 1" U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED 6" TO 8" HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD, THE TIRES SHALL BE WASHED PRIOR TO ENTERING PUBLIC ROADS. THE WASHING SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

PAY ITEM:
163-0300 CONSTRUCTION EXIT (EA)
165-0101 MAINTENANCE OF CONSTRUCTION EXIT (EA)

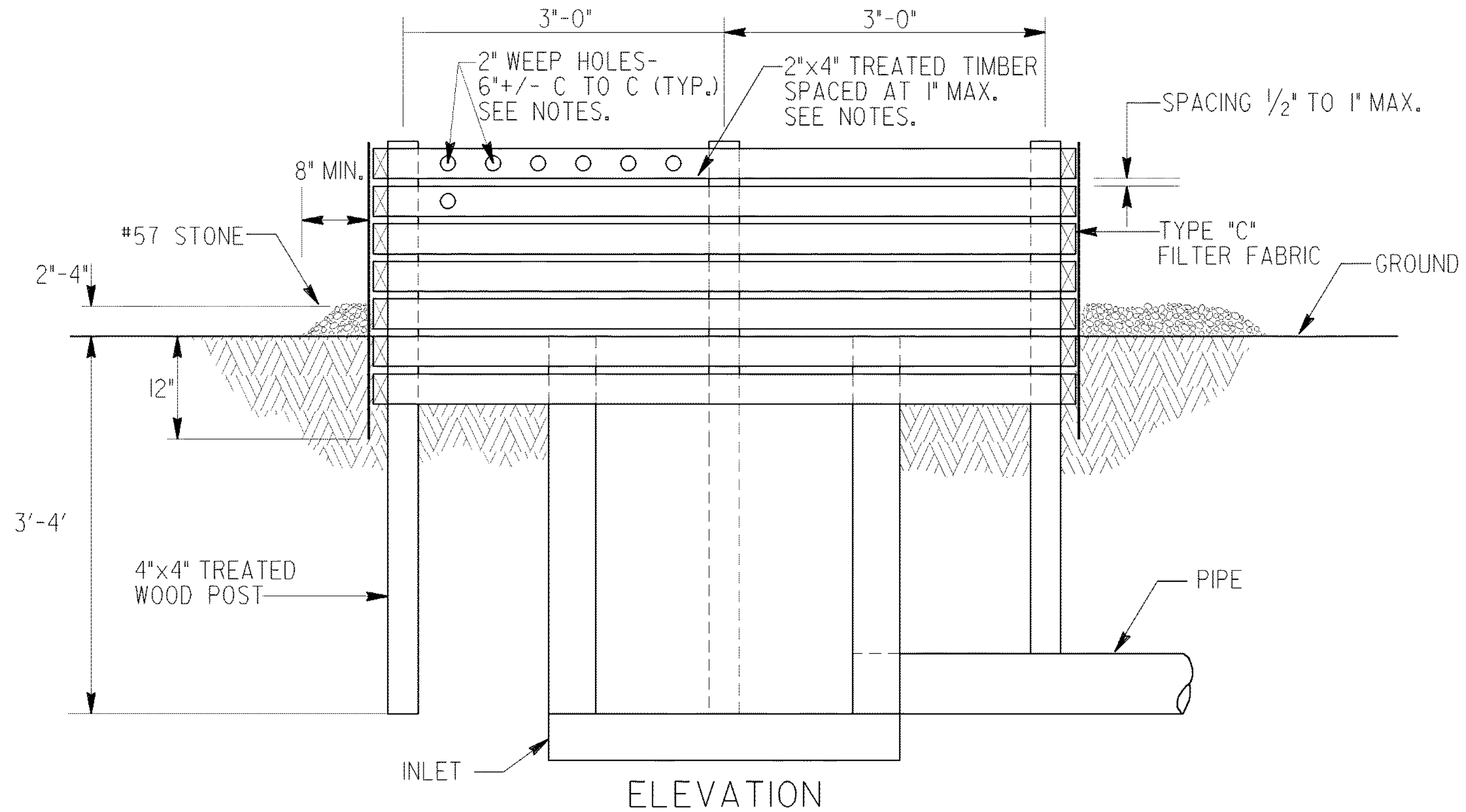
REV. GSWCC 2016 MANUAL 4-22-2016		DATE		DEPARTMENT OF TRANSPORTATION	
REV. CONSTR. EXIT LABELS 01-19-11		REVISION		STATE OF GEORGIA	
				CONSTRUCTION DETAILS	
				CONSTRUCTION EXIT	
				NO SCALE	
				FEBRUARY 2001	
DLE	DESIGNED			NUMBER	
TPC	DRAWN			D-41	
	TRACED				
	CHECKED				



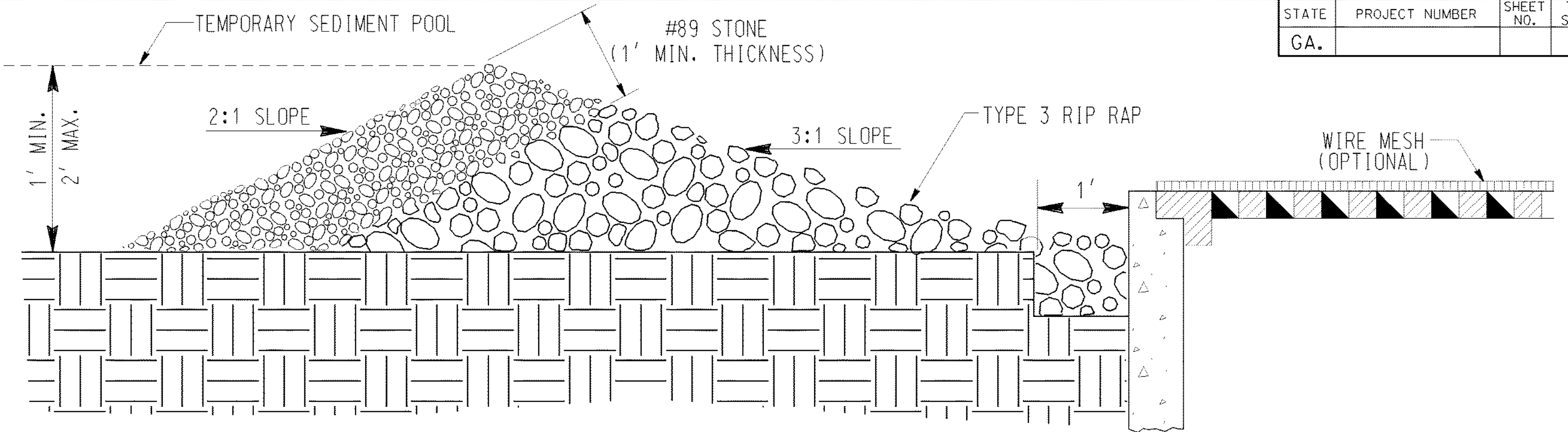
NOTES:

BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1' APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

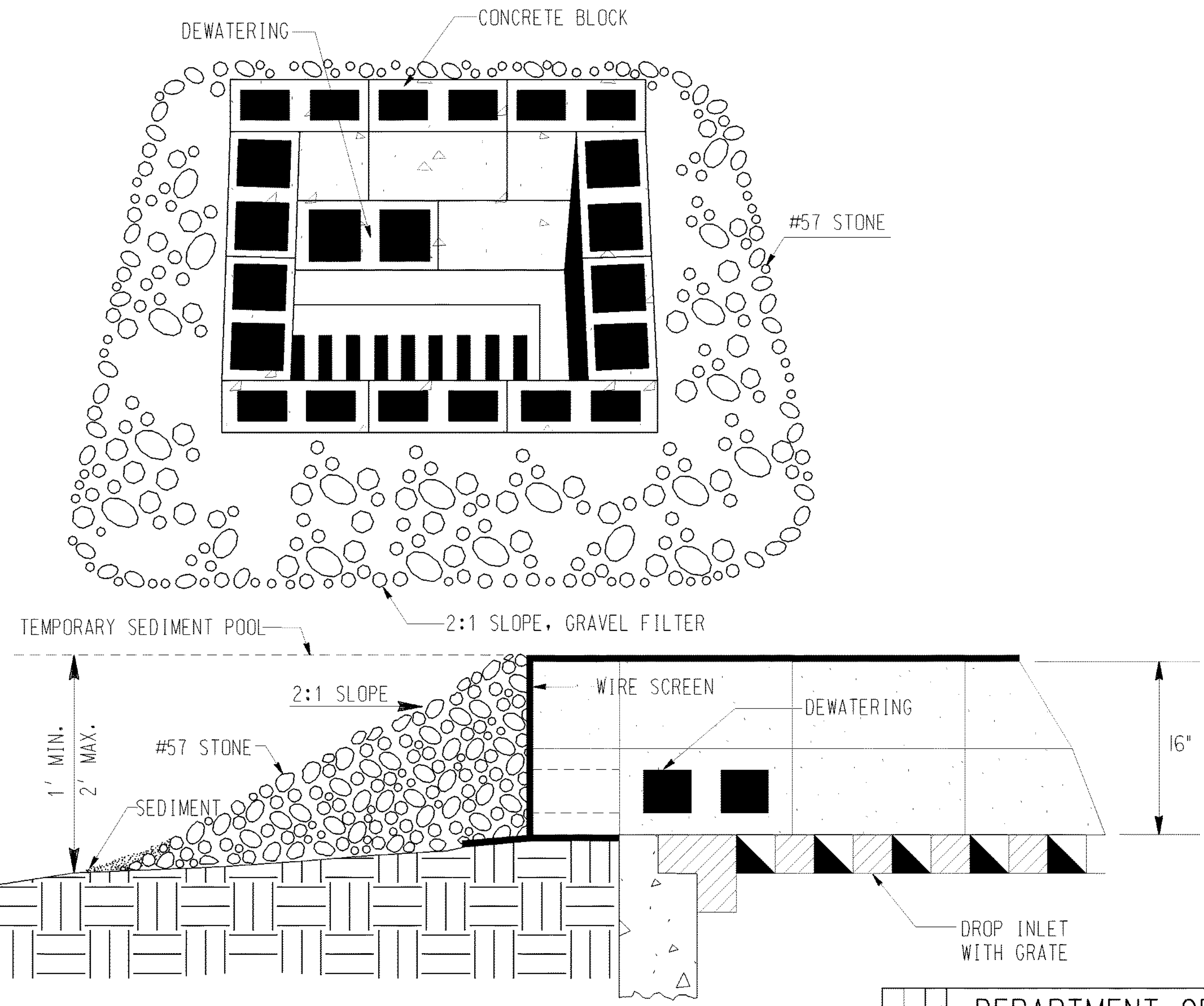
GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.



BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION (GRAVEL DONUT) Sd2-G

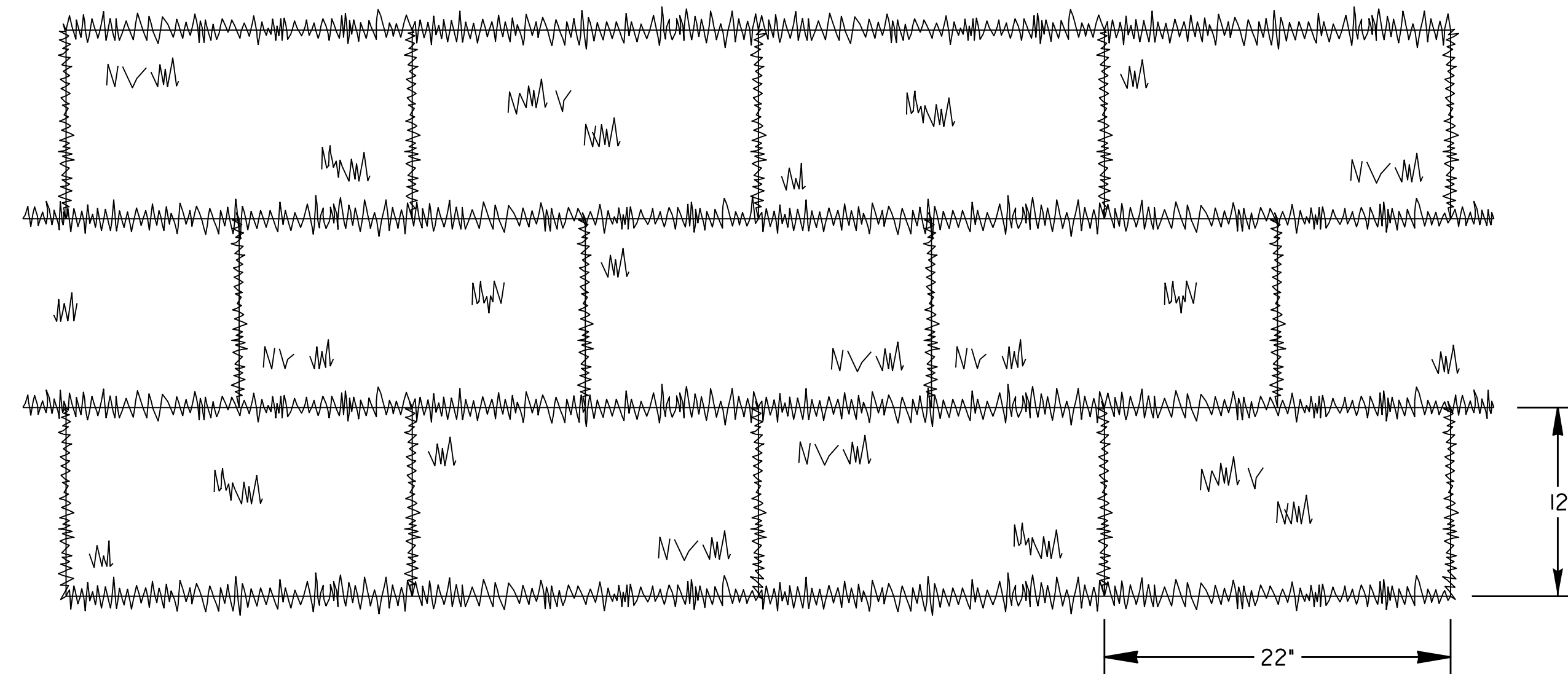


BLOCK & GRAVEL DROP INLET PROTECTION (Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAIL INLET SEDIMENT TRAPS BAFFLE BOX Sd2-B BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg GRAVEL DROP INLET PROTECTION Sd2-G NO SCALE	
BY		MAY 2008 NUMBER D-42	

SOD LAYOUT

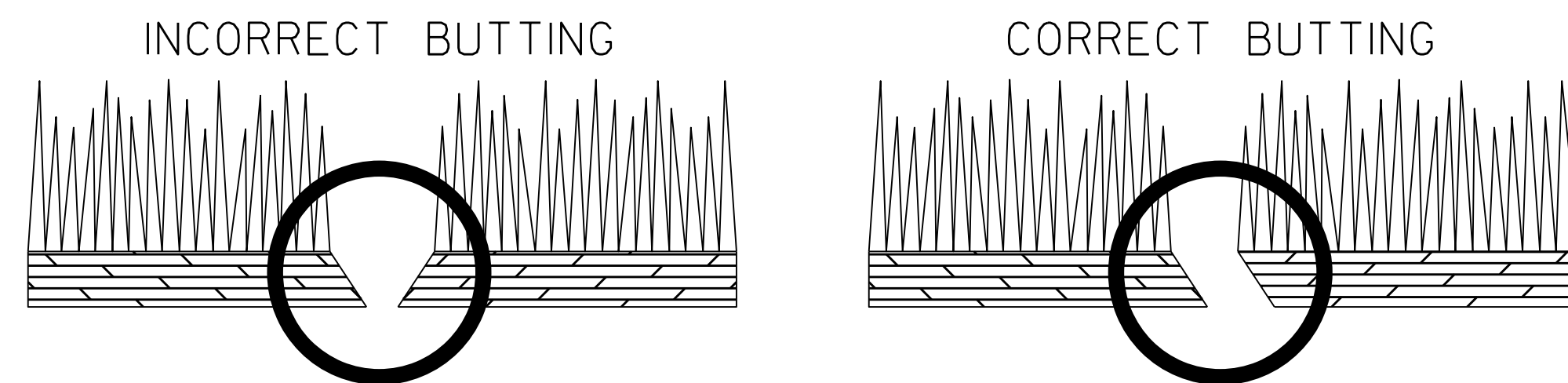


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52" LONG ROLLS.

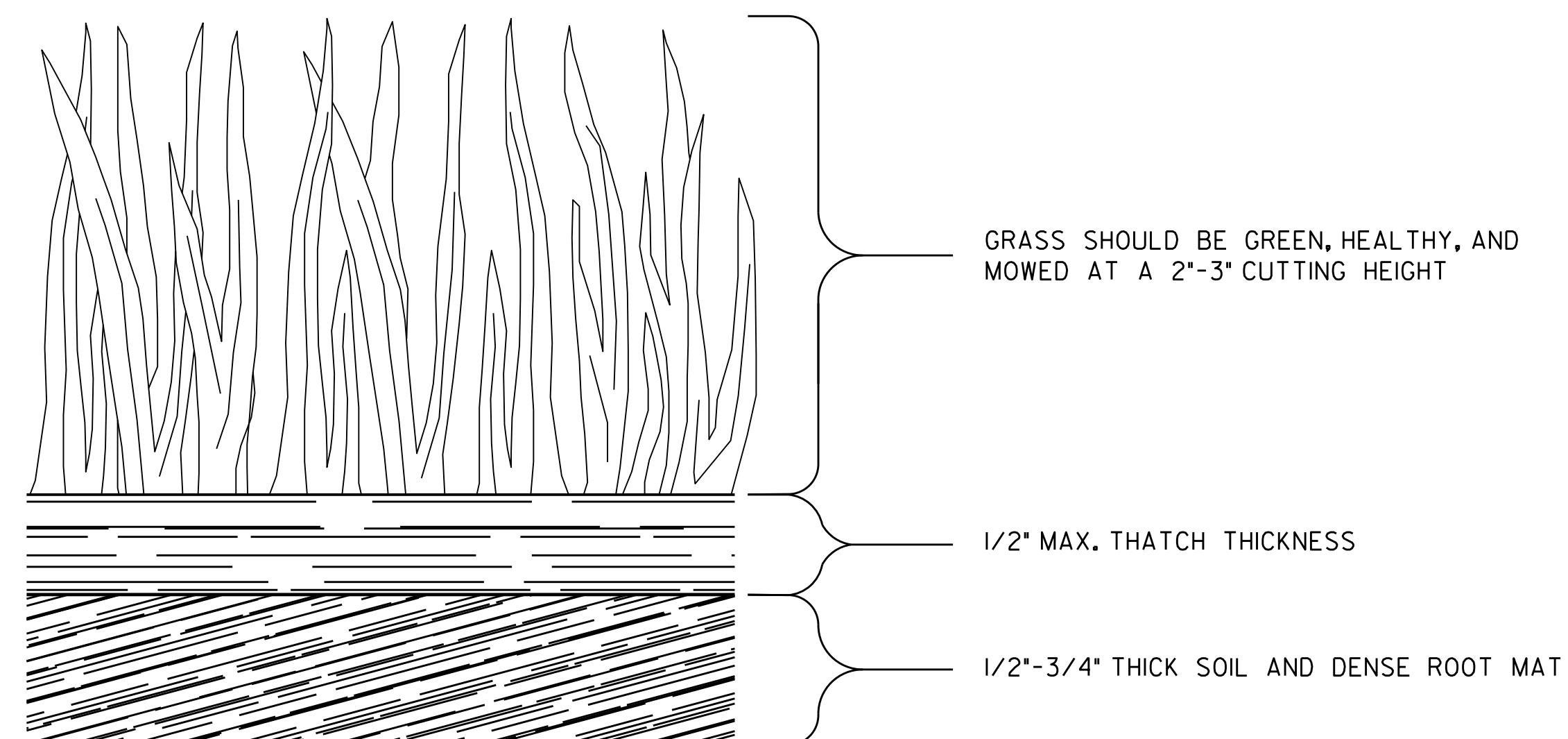
GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52"L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

ABUTTING SOD



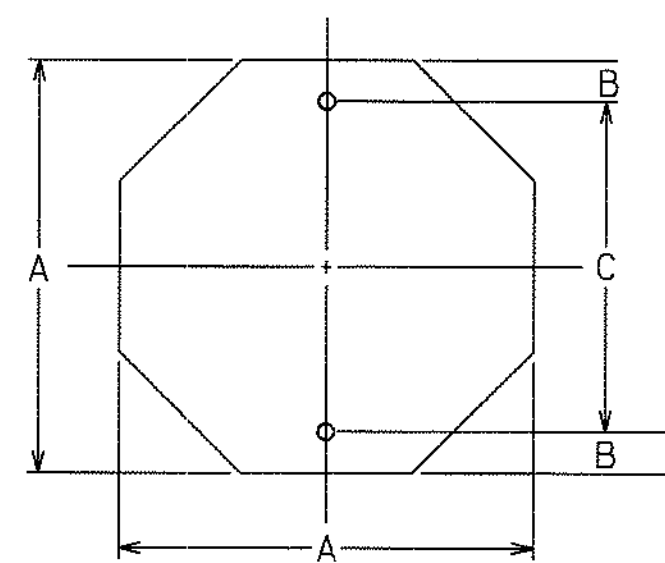
SOD APPEARANCE



PAY ITEM:
700-9300 SOD (SY)

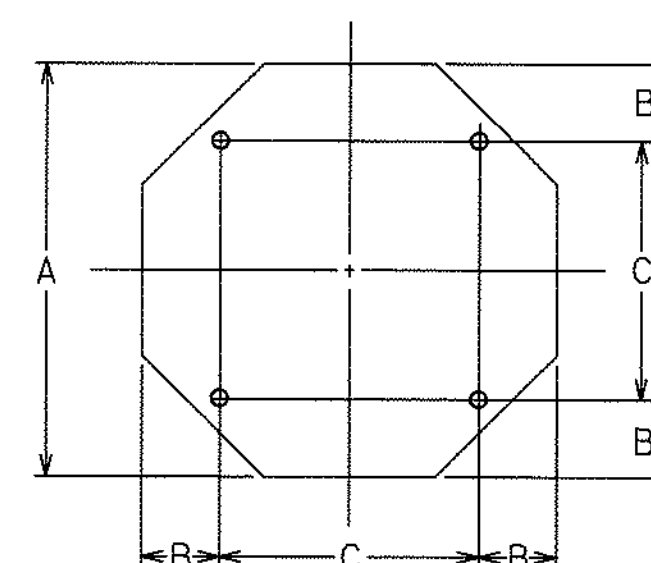
	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
	REVISION	CONSTRUCTION DETAILS SOD INSTALLATION	
		NO SCALE	4-22-2016
BY	DESIGNED	NUMBER	
	DRAWN <u>DLE</u>	D-54	
	TRACED		
	CHECKED		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

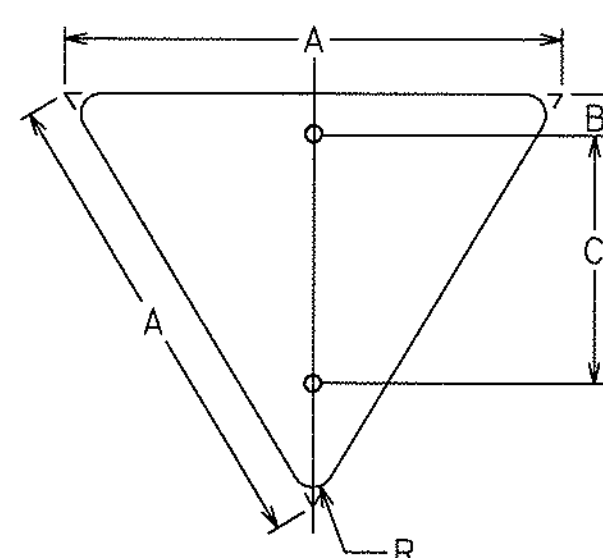


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

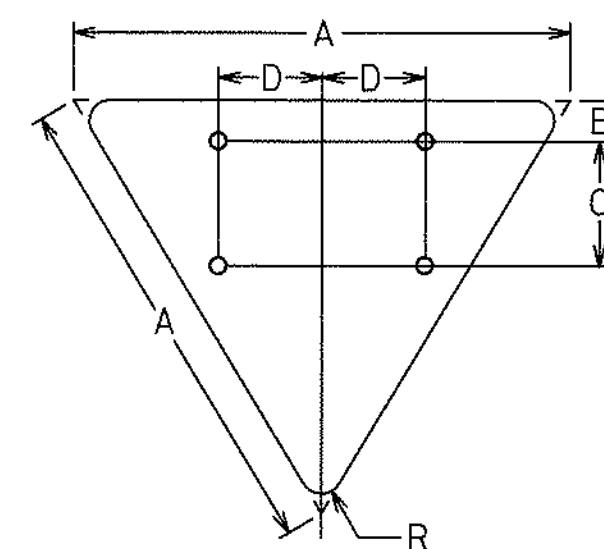


A	B	C
48	9	30

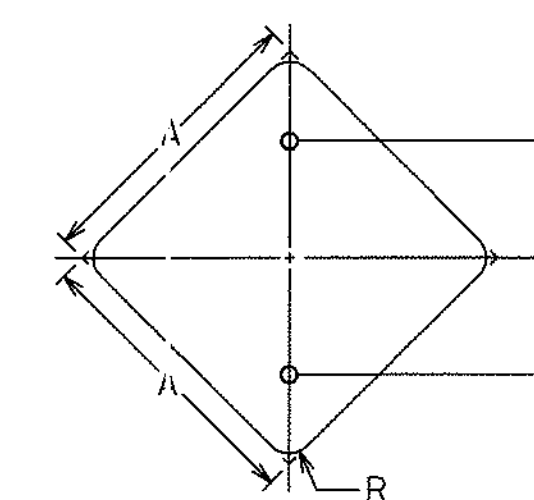


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

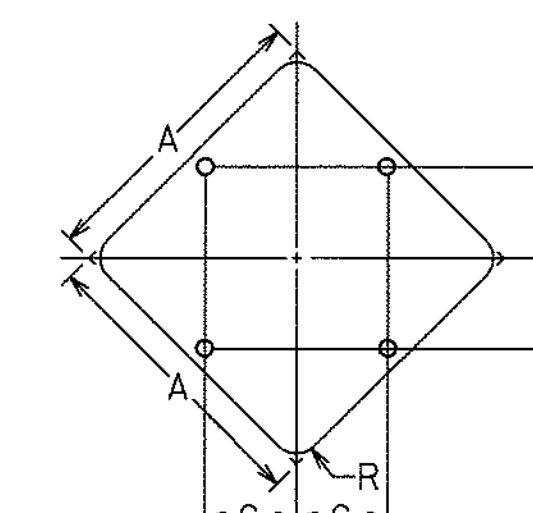


A	B	C	D	R
60	3	18	15	3



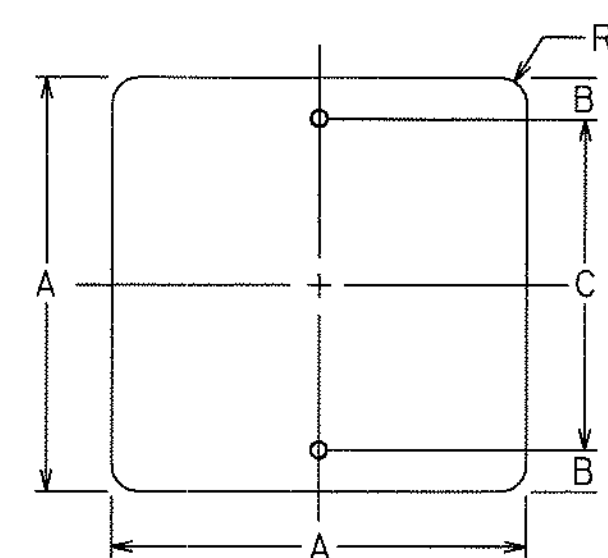
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



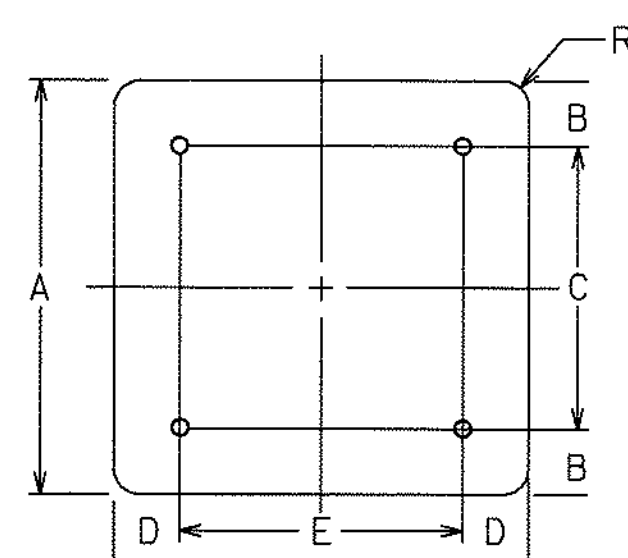
A	B	C	R
36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

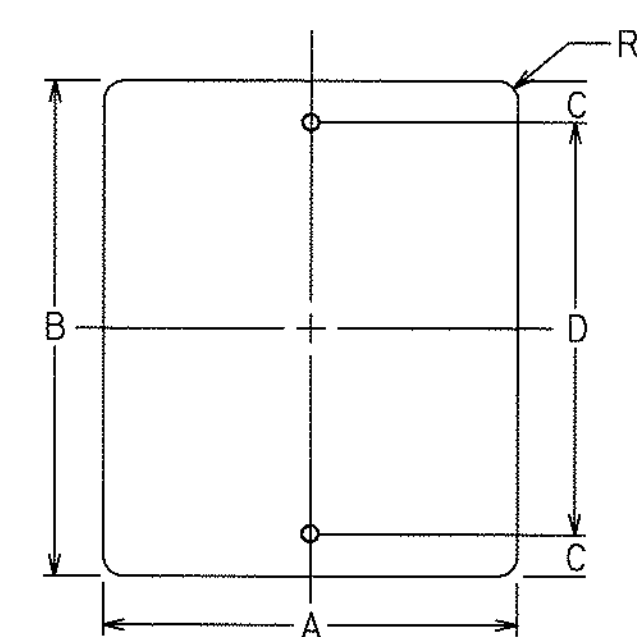


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

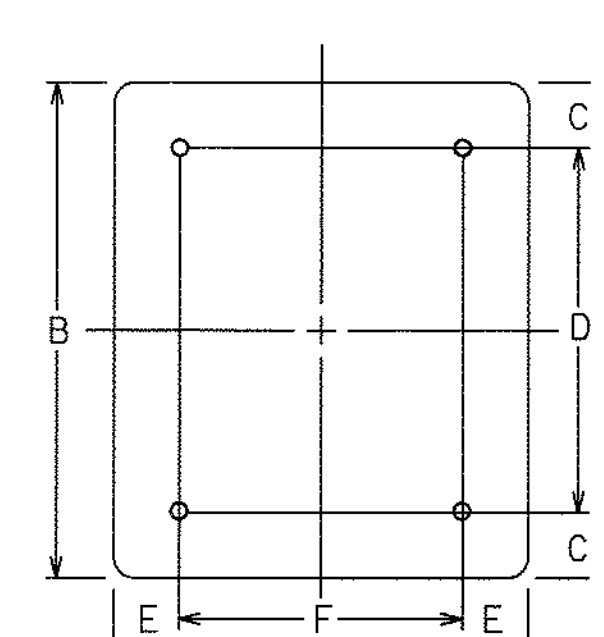


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

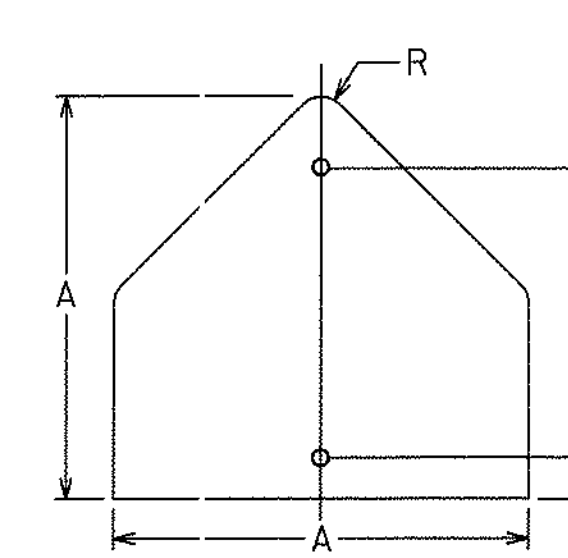


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

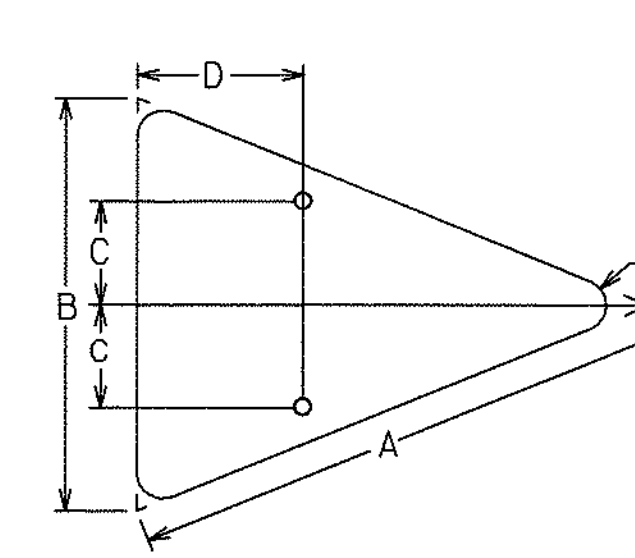


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



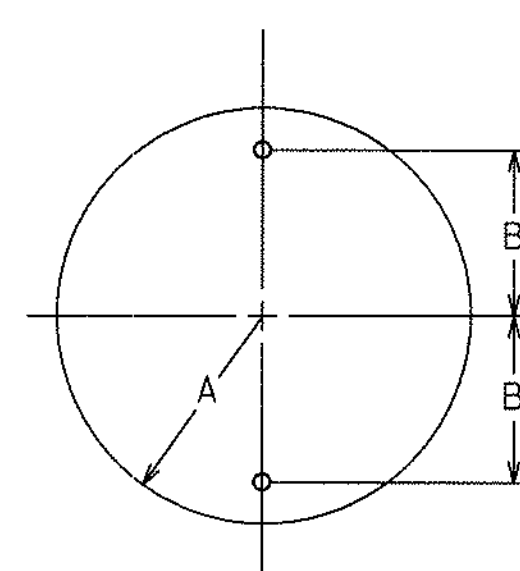
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



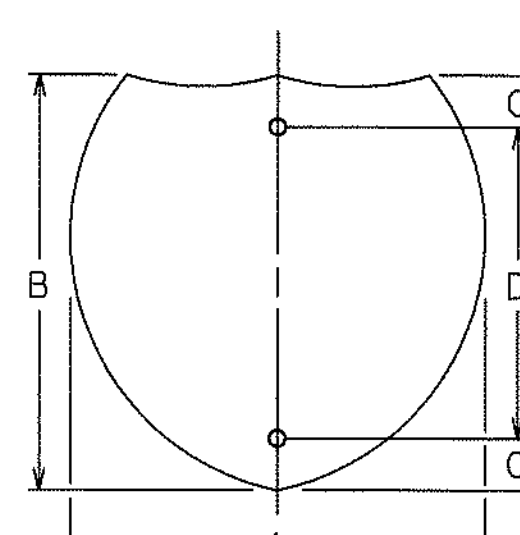
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



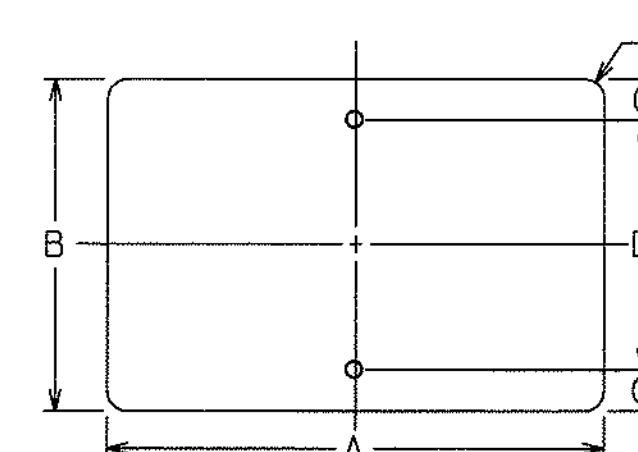
CIRCLE

A	B
15	12
18	15



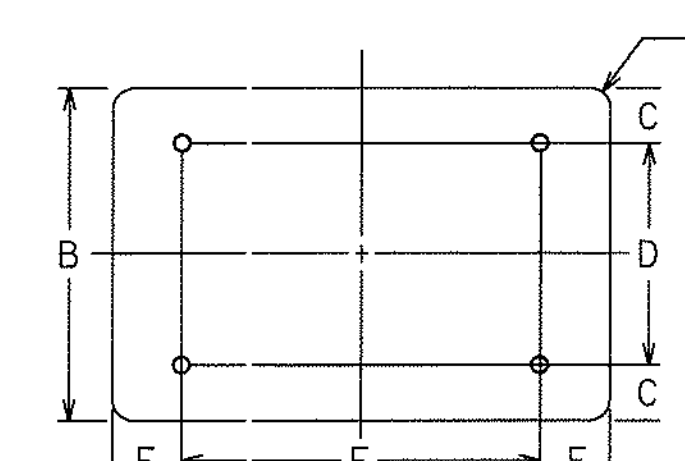
INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



HORIZONTAL RECTANGLE

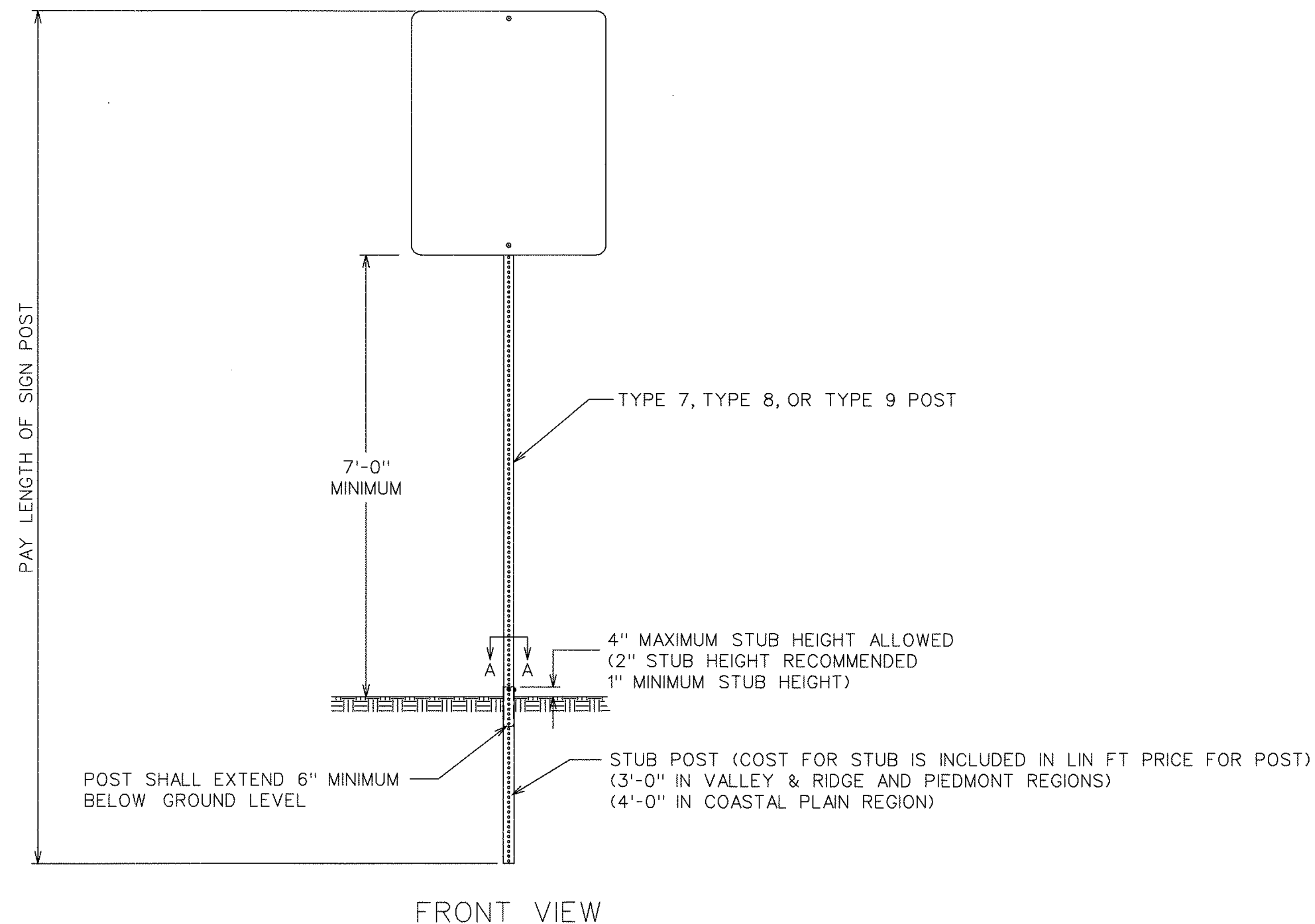
A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 1/2



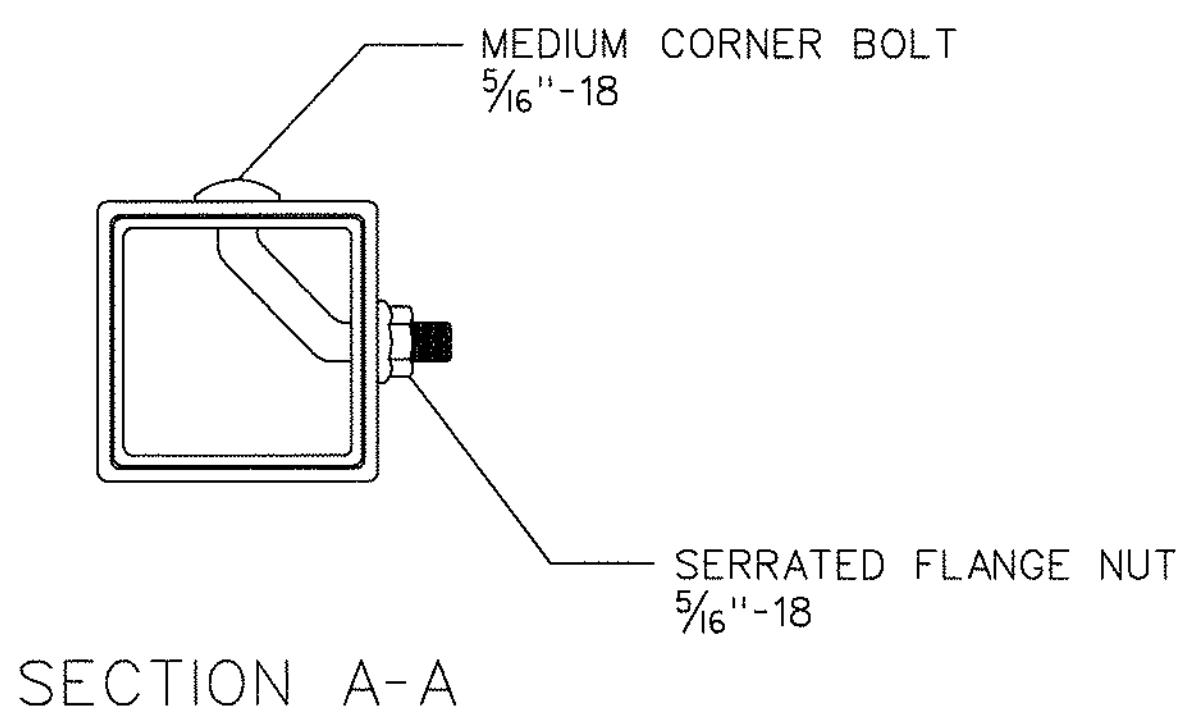
A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		DETAILS OF SIGN PLATES
		NO SCALE
		JANUARY 2000

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



POST	STUB SIZE
TYPE 7	2 1/4" x 2 1/4"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 1/4 ga.		TYPE 9 2 1/4" 14 ga.	TYPE 8 2 1/2" 12 ga.	TYPE 8 2 1/2" 12 ga.		TYPE 8 w / TYPE 9 Insert* 2 1/2" 12 ga. W / 2 1/4" 14 ga.		
	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN PLUS HALF THE HEIGHT OF SIGN.
 EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) PLUS 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINUOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL
		NO SCALE JULY 2002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NORMAL BACKFILL

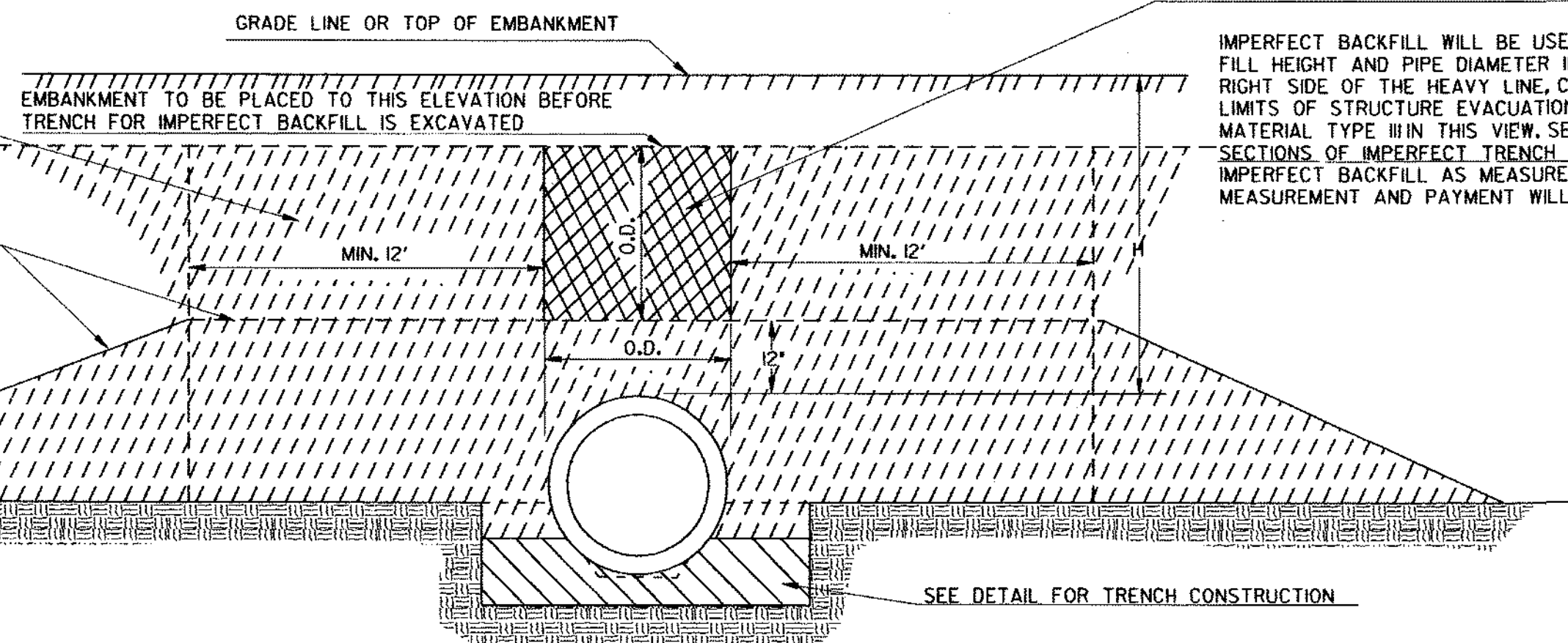
BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

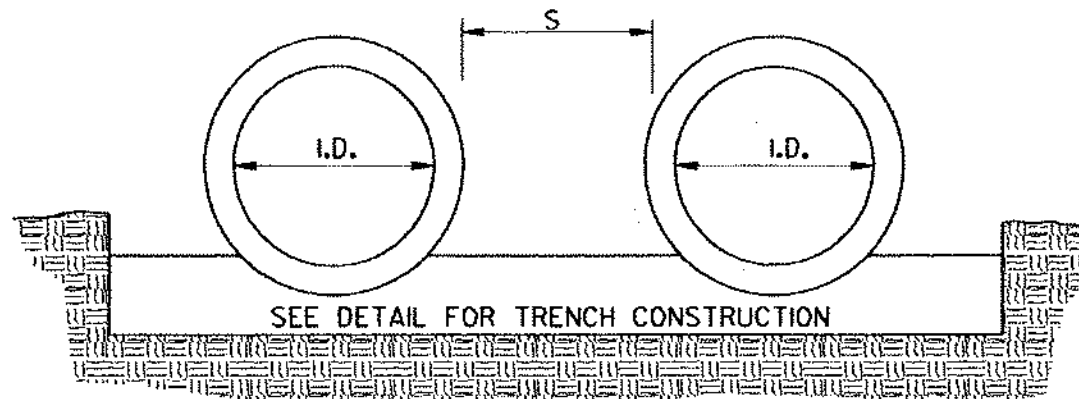
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS

IMPERFECT BACKFILL



IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE, CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EXCAVATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

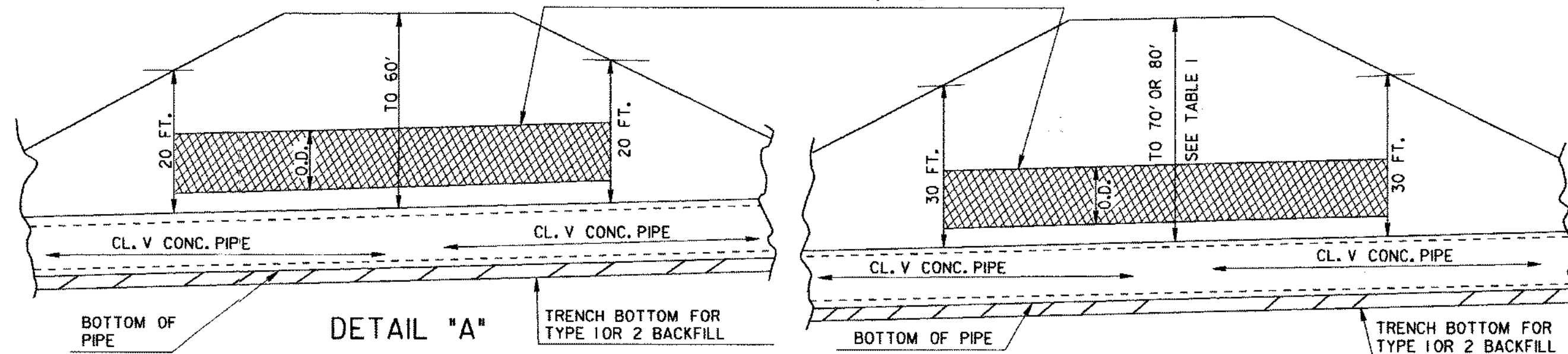


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

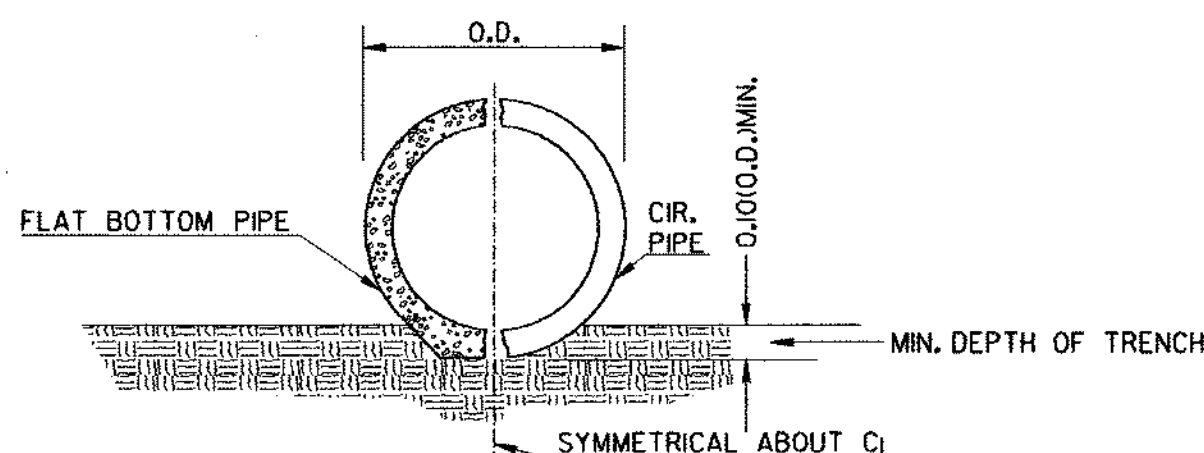
CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



DETAIL "A"
(FOR CONCRETE PIPE DIAMETERS 76" & 84", WITH FILL HEIGHTS OVER 20 FT.)

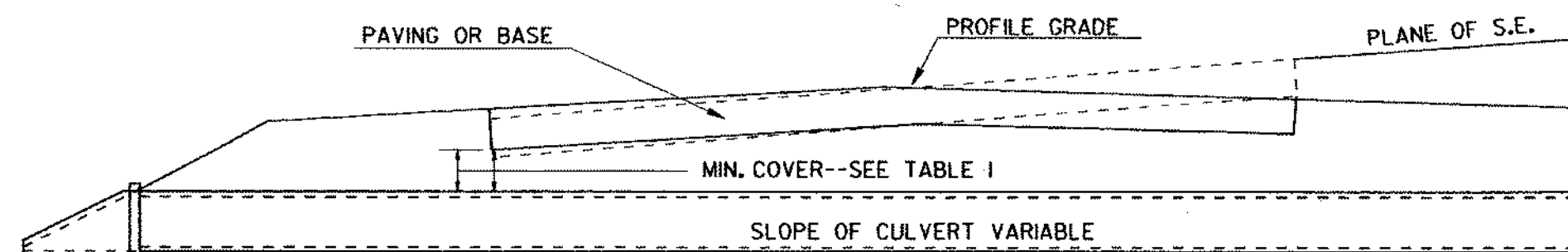
DETAIL "B"
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN



NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSIBLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

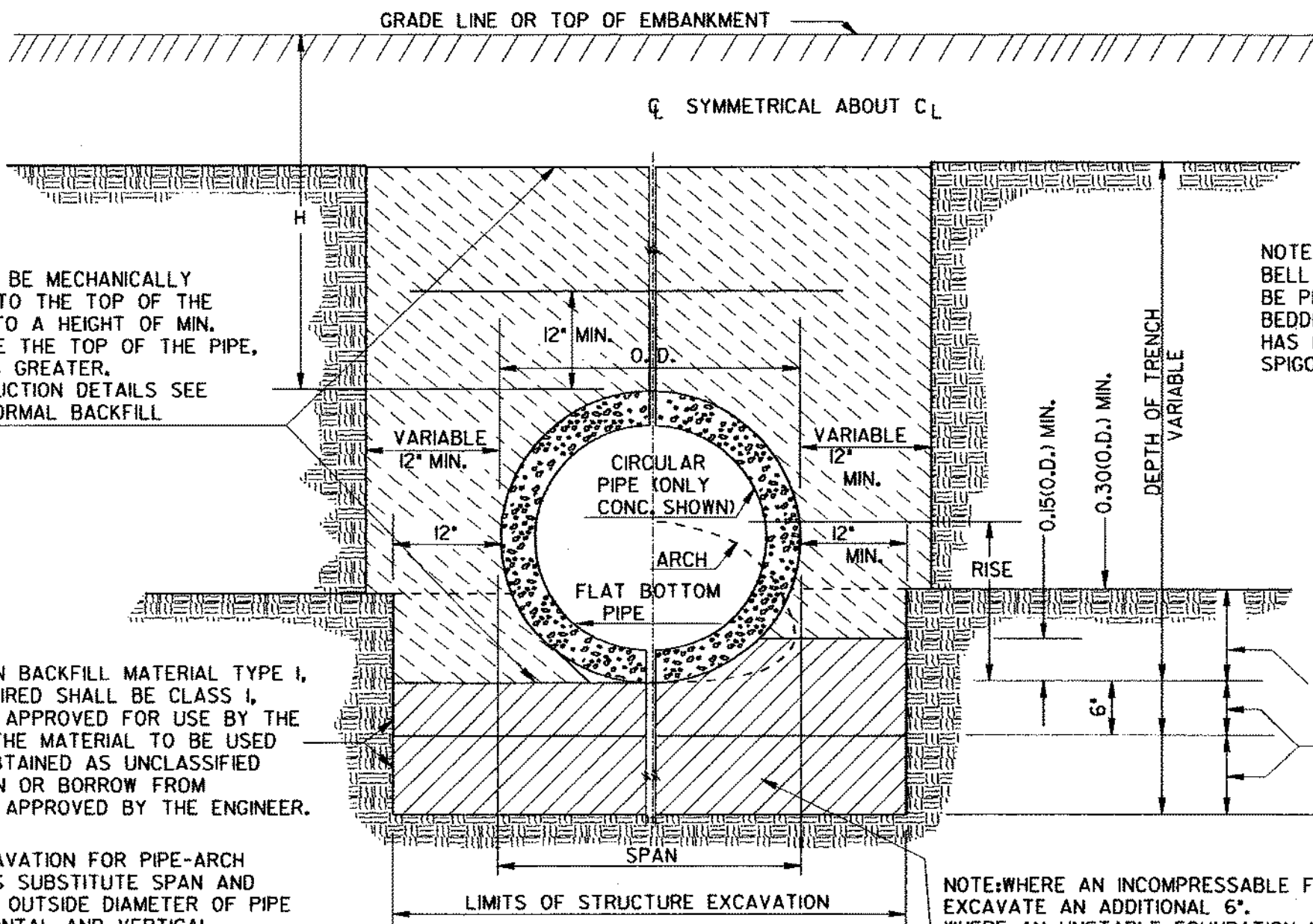
DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

TRENCH CONSTRUCTION FOR STORM DRAIN.



BACKFILL TO BE MECHANICALLY COMPACTED TO THE TOP OF THE TRENCH OR TO A HEIGHT OF MIN. COVER ABOVE THE TOP OF THE PIPE, WHICHEVER IS GREATER. FOR CONSTRUCTION DETAILS SEE NOTE FOR NORMAL BACKFILL.

NOTE: BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE: TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

FOUNDATION BACKFILL MATERIAL TYPE I, WHEN REQUIRED SHALL BE CLASS I, OR II SOILS APPROVED FOR USE BY THE ENGINEER. THE MATERIAL TO BE USED WILL BE OBTAINED AS UNCLASSIFIED EXCAVATION OR BORROW FROM LOCATIONS APPROVED BY THE ENGINEER.

FOR EXCAVATION FOR PIPE-ARCH CULVERTS SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN DETAIL.

NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: WHERE AN INCOMPRESSIBLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6". WHERE AN UNSTABLE FOUNDATION MATERIAL IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		STANDARD CONCRETE & METAL PIPE CULVERTS SHEET 1 OF 3 (TRENCH CONSTRUCTION, BEDDING, BACKFILLING)	
NO SCALE		REV. & REDR.: SEPT., 2001	
DES.	(SUBMITTED)	 JAMES H. KEANEY STATE ROAD & AIRPORT DESIGN ENGR.	
DRW.	(APPROVED)		
TRA.			
CHK.			
		NUMBER 10300	

TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	PIPE TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE										PIPE DIAMETER (INCHES)					
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70		70 - 80	80 - 90			
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
15	ALUM 1	12	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	15
18	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	18
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
30	ALUM 1	12	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	30
36	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	42
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
48	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	54
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
60	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	15	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060	.060
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	66
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
72	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	18	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	78
	STEEL 1	15	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068
84	STEEL 2	15	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 2	21	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075
90	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	90
	STEEL 1	15	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068
96	STEEL 2	18	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 2	24	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075
102	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	102
	STEEL 1	15	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068
108	STEEL 2	24	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079
	ALUM 2	24	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079
114	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V	V	V	V	114
	STEEL 1	15	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068	.068
120	STEEL 2	24	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079
	ALUM 2	24	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079

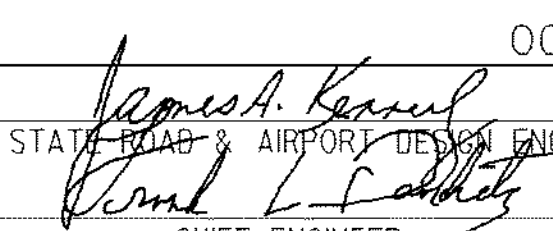

COR. METAL THICKNESS EQUIVALENT GAGE	
STEEL	.064 .079 .109 .138 .168
ALUMINUM	.060 .075 .105 .135 .164

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 10F 3.

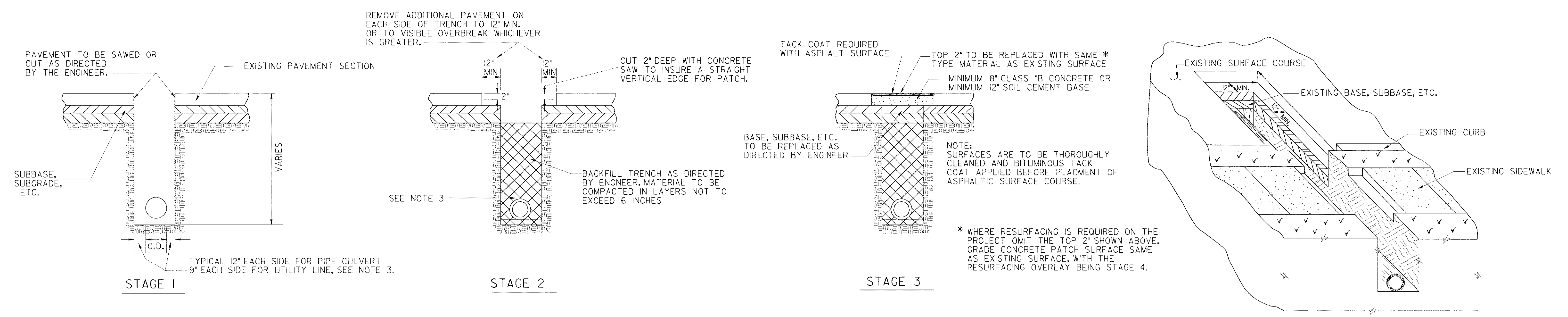
IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDITIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

STEEL 10R ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"
STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)
ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.
MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 10F 3.
FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

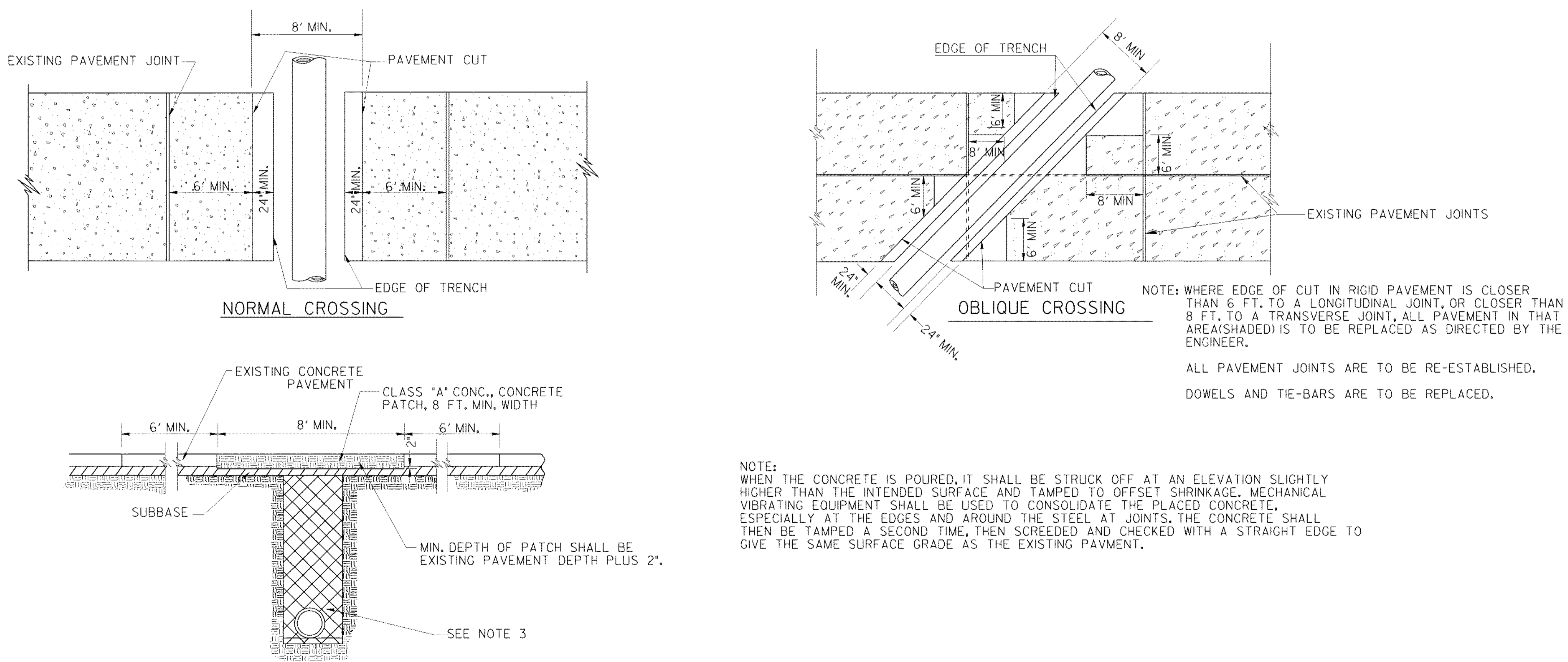
TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:
A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
STANDARD CONCRETE & METAL PIPE CULVERTS SHEET 2 OF 3 (FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)		
NO SCALE		NUMBER 1030D
OCTOBER 21, 1998		
DES. (SUBMITTED) TR. (APPROVED)	 STATE ROAD & AIRPORT DESIGN ENGR.	
G.P. BY	 CHIEF ENGINEER	

STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT - GENERAL



STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT ACROSS P.C. CONCRETE PAVING



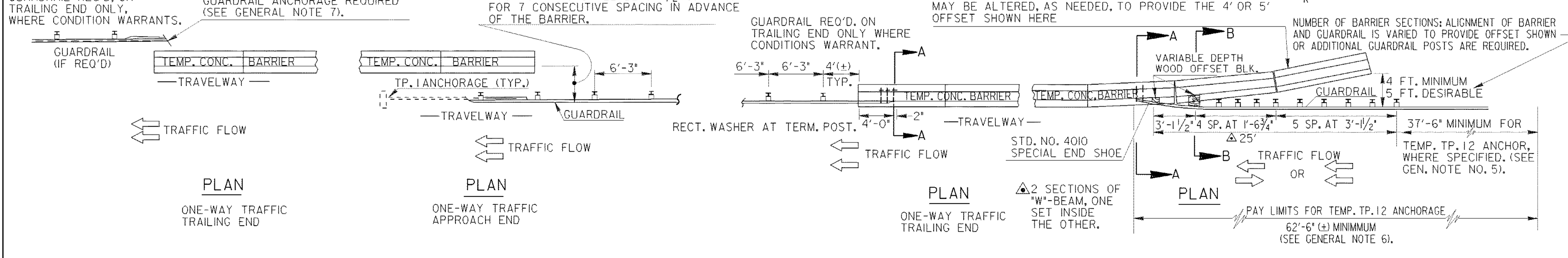
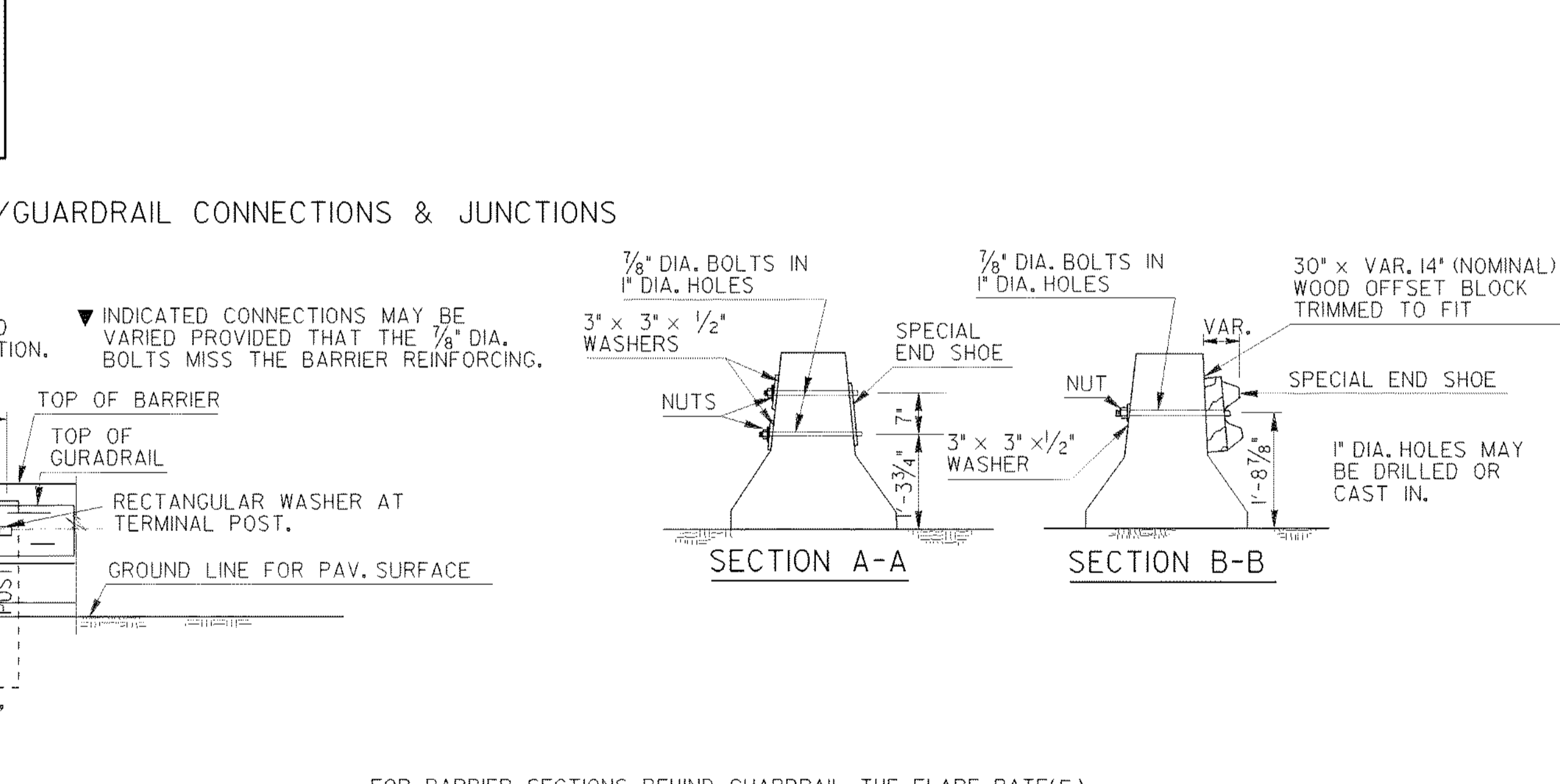
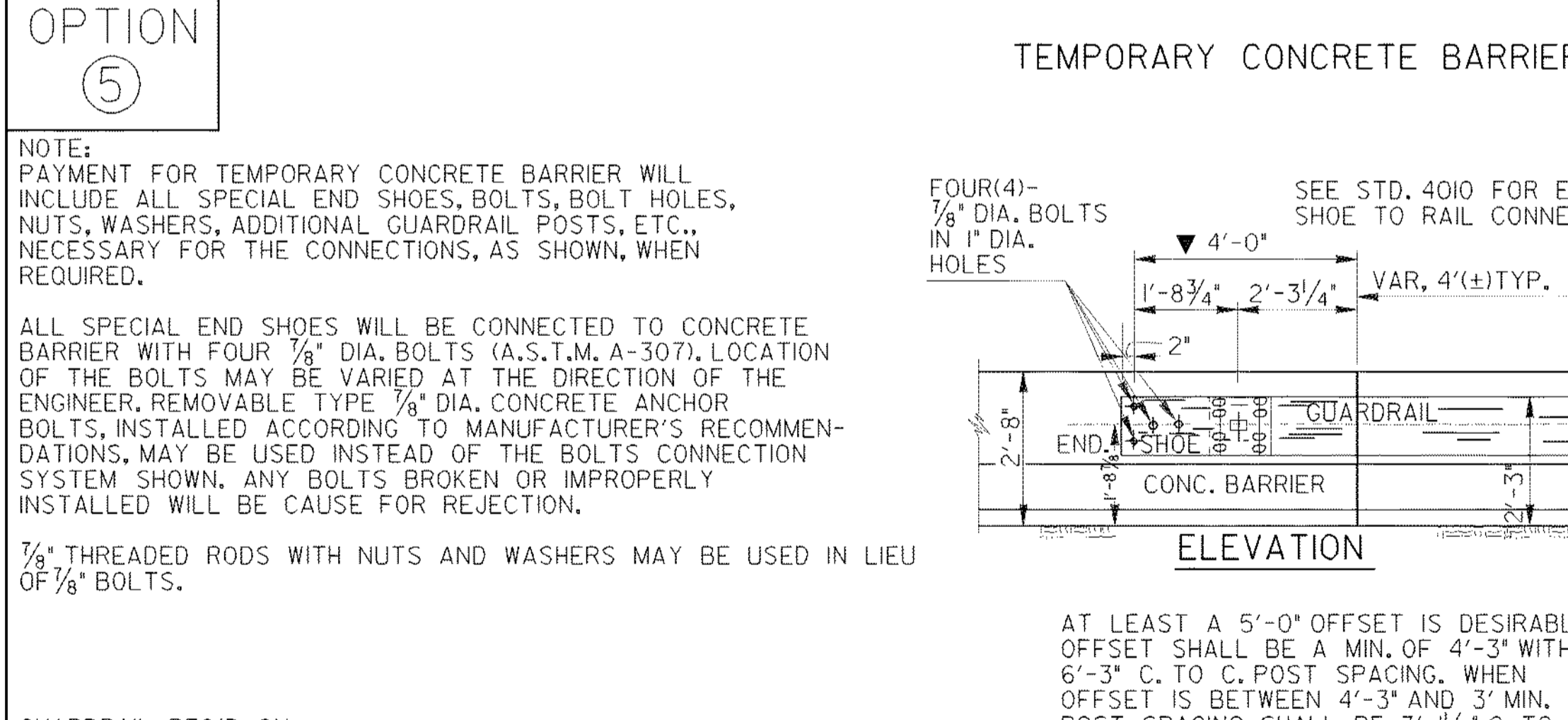
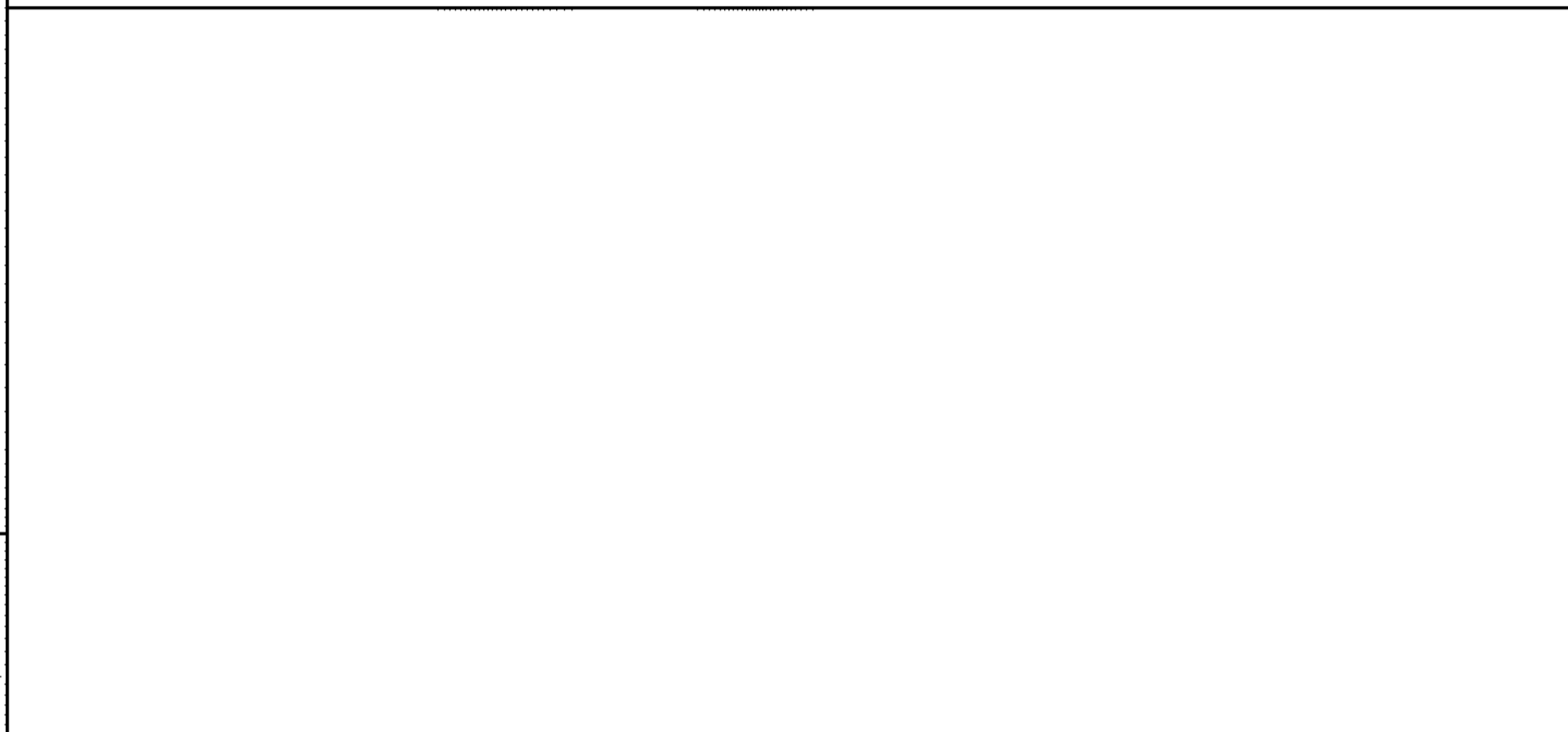
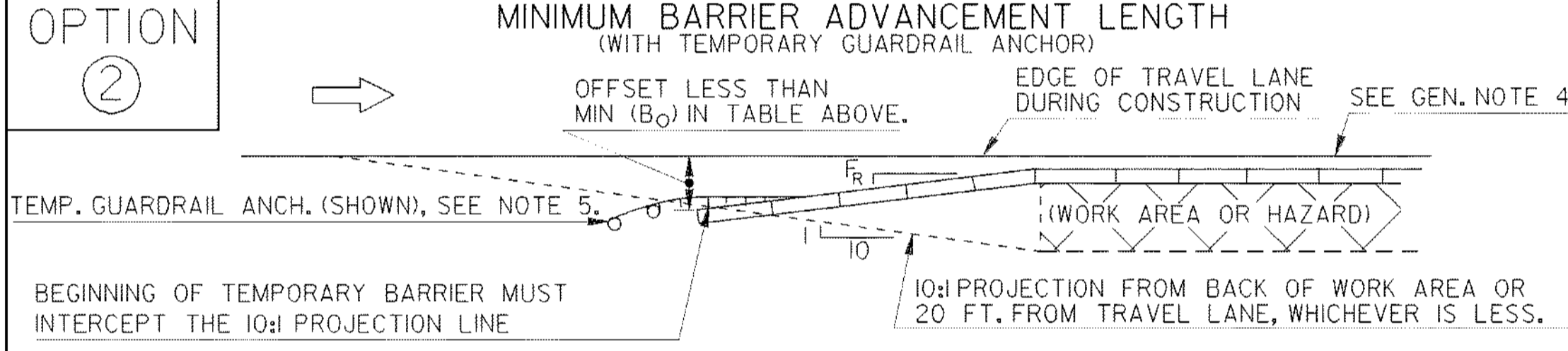
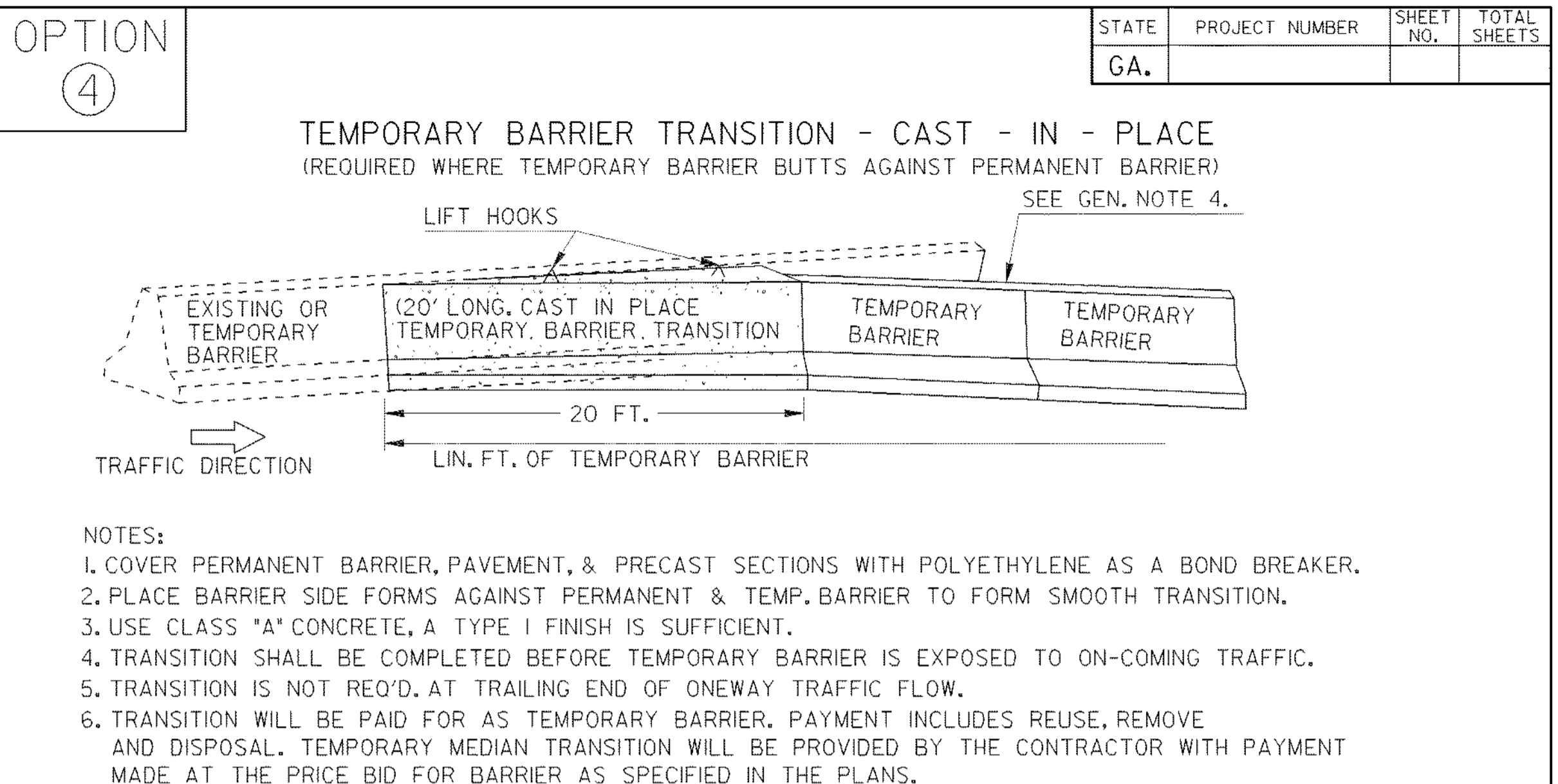
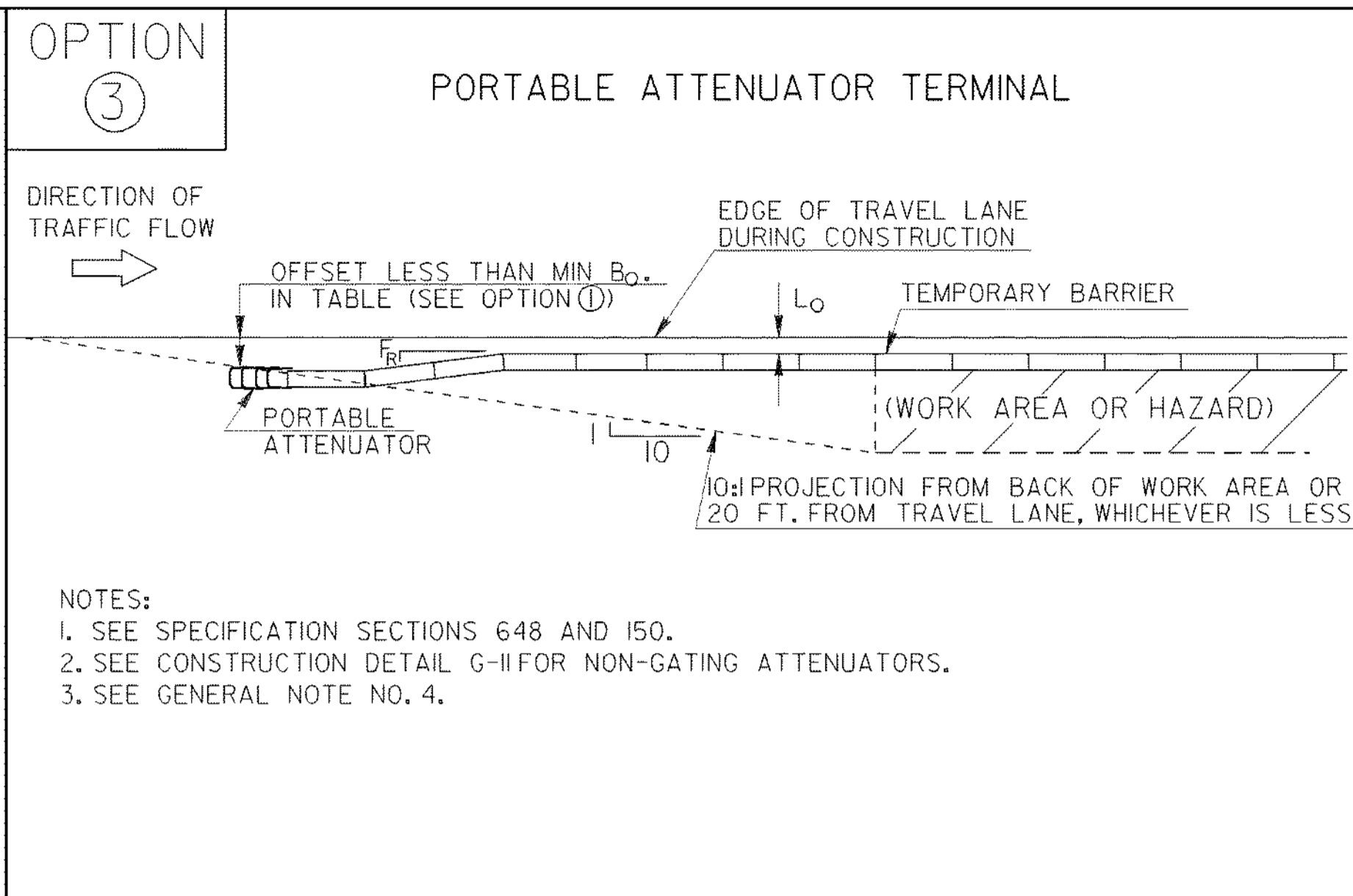
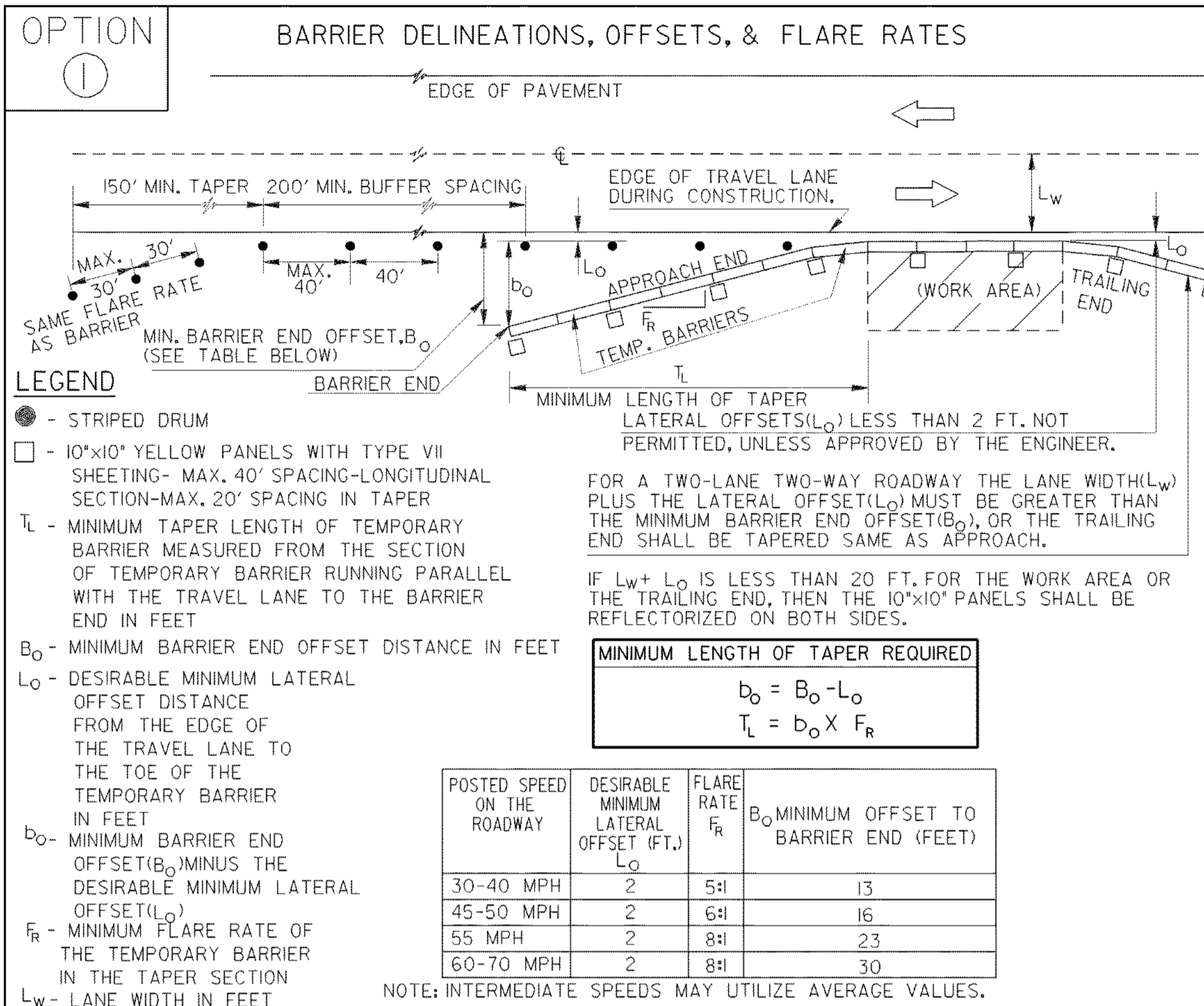
GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- (a) OTHER PAVEMENT REPLACEMENT MATERIALS, SUCH AS HIGH EARLY STRENGTH CONCRETE, MAY BE SUBSTITUTED FOR MATERIALS WHEN CALLED FOR IN THE PLANS OR BY THE ENGINEER.
(b) PAYMENT FOR PIPE OR UTILITY SHALL INCLUDE SAWING AND/OR CUTTING AND REMOVING EXISTING PAVEMENT AND REPLACING THE PAVEMENT AS SPECIFIED. PAYMENT FOR PIPE OR UTILITY INCLUDES THIS PAVEMENT REPLACEMENT MATERIAL, REGARDLESS OF WHERE MATERIALS SHOWN ARE USED OR WHERE OTHER MATERIALS SUCH AS HIGH EARLY STRENGTH CONCRETE ARE USED.
(c) PAYMENT FOR PIPE OR UTILITY INSTALLATION SHALL INCLUDE REPLACING IN KIND ANY PORTIONS OF SIDEWALK, CURB, CURB & GUTTER, MEDIAN PAVING, DRIVEWAYS, ETC., WHICH ARE DISTURBED DUE TO THE INSTALLATION.
- TRENCH DETAIL SHOWN IS GENERAL, SEE STANDARD IO30D FOR DETAILS REQUIRED FOR PIPE CULVERT INSTALLATIONS. SEE THE UTILITIES MANUAL FOR UTILITY INSTALLATION REQUIREMENTS.
- AFTER REMOVING EXISTING PAVEMENT, THE SUBBASE AND VERTICAL FACE OF EXISTING PAVING SHALL BE DAMPED (BUT NOT WET), ADDITIONALLY, THE VERTICAL FACE OF THE EXISTING PAVEMENT SHALL BE PAINTED WITH A SOLUTION OF PORTLAND CEMENT AND WATER MIXED TO THE CONSISTENCY OF HEAVY PAINT. THE CONCRETE MIX SHALL THEN BE POURED BEFORE THIS SURFACE DRIES OUT. AFTER CONCRETE IS POURED, IT SHALL BE WORKED INTO ALL CORNERS AND INTO ALL ROUGH SURFACES OF THE EXISTING PAVEMENT.
- WHERE PIPE IS REMOVED, BUT NOT REPLACED, PAYMENT FOR PIPE REMOVAL INCLUDES ALL ITEMS DESCRIBED IN GENERAL NOTE 2., WITH ALL OTHER NOTES AND DETAILS ALSO BEING APPLICABLE.

NOTE: THIS STANDARD IS FOR USE WHERE PERMANENT PAVEMENT PATCHING IS REQUIRED. TEMPORARY PATCHING, IF REQUIRED, SHALL BE ACCORDING TO OTHER DETAILS, SPECIFICATIONS, AND/OR AS DIRECTED BY THE ENGINEER.

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
REVISION	STANDARD		
	PAVEMENT PATCHING DETAILS (STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT)		
	NO SCALE	REV. & REDR., AUG. 1999	
BY	REV. (SUBMITTED) <i>James A. Kanel</i> TRA. STATE ROAD & AIRPORT DESIGN ENGR. CHK. (APPROVED) <i>Carol L. Condit</i> CHIEF ENGINEER	NUMBER 1401	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



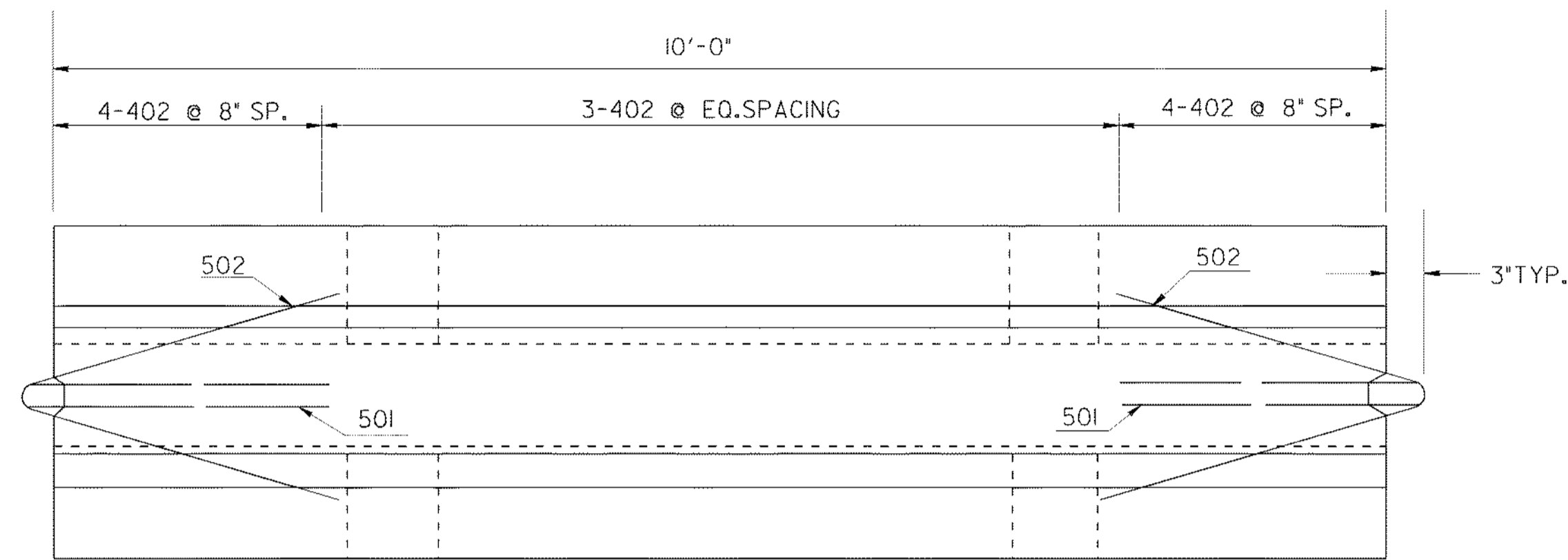
GENERAL NOTES:

- BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE KEPT TO A MAXIMUM. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE CONNECTED AS REQUIRED BY GA. STANDARD 4961 AND/OR MANUFACTURERS RECOMMENDATIONS.
- THE BARRIER IS NOT TO BE CONNECTED TO THE BRIDGE DECK BY CONNECTING PINS OR REBAR UNLESS AN APPROVED METHOD FOR CONNECTION IS REQUIRED.
- PRECAST BARRIER SECTIONS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS IN GA. STANDARD 4961 AND/OR MANUFACTURERS RECOMMENDATIONS.
- TRAFFIC CONTROL NOT SHOWN ON THIS STANDARD SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF SECTION 150, STANDARDS, CONSTRUCTION DETAILS AND/OR PLAN SHEETS, DRUMS, ETC. SHOWN FOR OPTION 1 SHALL BE APPLICABLE FOR THE OTHER OPTIONS AS WELL. DRUMS SHALL BE PROVIDED IN ADVANCE OF TEMPORARY BARRIERS INSTALLATION AND SHALL BE IN PLACE BEFORE THE BARRIER IS INSTALLED AND REMOVED AFTER THE BARRIER IS REMOVED.
- WHERE TEMPORARY GUARDRAIL ANCHORAGE IS SPECIFIED, THE FIRST BREAKAWAY SHALL BE 37'-6" MINIMUM IN ADVANCE OF BEGINNING THE TEMPORARY BARRIER INSTALLATION.
- PAYMENT FOR TEMPORARY GUARDRAIL ANCHORS INCLUDES END SHOE, CONNECTING BOLTS, NUTS AND WASHERS, ADDITIONAL POSTS AND OFFSETS BLOCKS, 25 FT. ADDITIONAL "W"-BEAM WITH THE DOUBLE NESTED SECTION PLUS STANDARD ANCHORAGE COMPONENTS. (TOTAL LENGTH-62'-6" (+) MIN.
- UNACCEPTABLE OR NON-STANDARD END TREATMENT WILL NOT BE LEFT IN PLACE AFTER REMOVAL OF THE TEMPORARY BARRIER, ALL GUARDRAIL AND ALL ANCHORAGES LEFT IN PLACE WILL BE TREATED AS NECESSARY TO CONFORM WITH CURRENT STANDARDS IMMEDIATELY AFTER REMOVAL OF THE TEMPORARY BARRIER.

REVISED ALL OPTIONS AND REV. REFLECTIVE SHEETING TYPE AND GENERAL NOTES.		5-10-07	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
BY		2-1-01	REVISION	
NO SCALE				REV. & REDR. MAY, 1999
DES. _____		(SUBMITTED) _____		NUMBER 4960
TRA. _____		(APPROVED) _____		
CHK. _____		CHIEF ENGINEER		

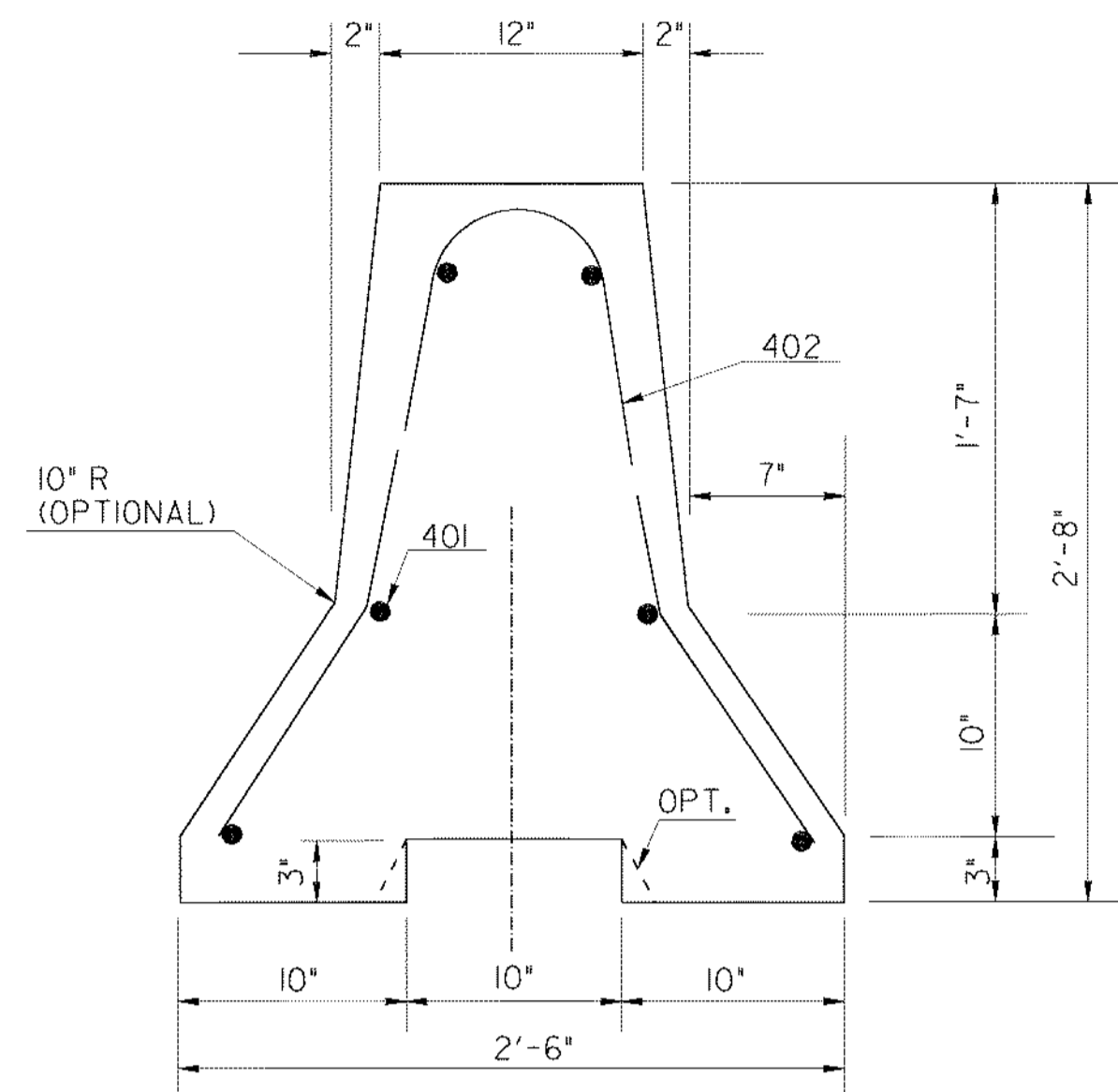
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

PRECAST CONCRETE BARRIER DETAILS

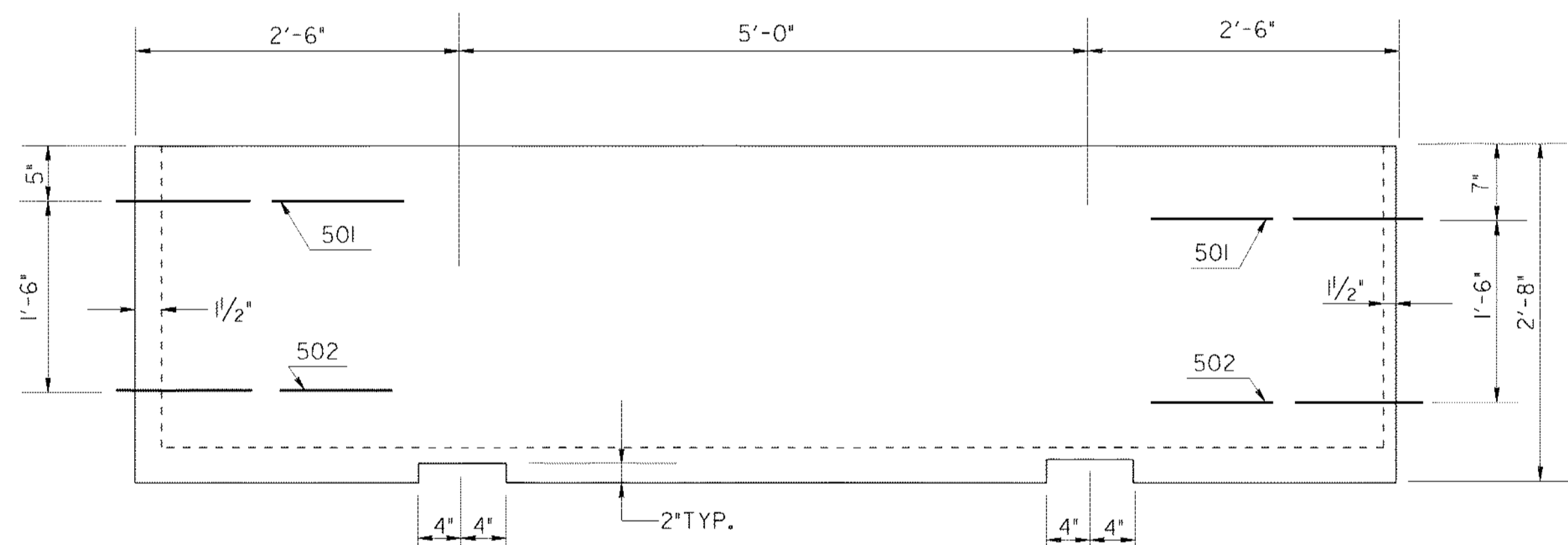


PLAN

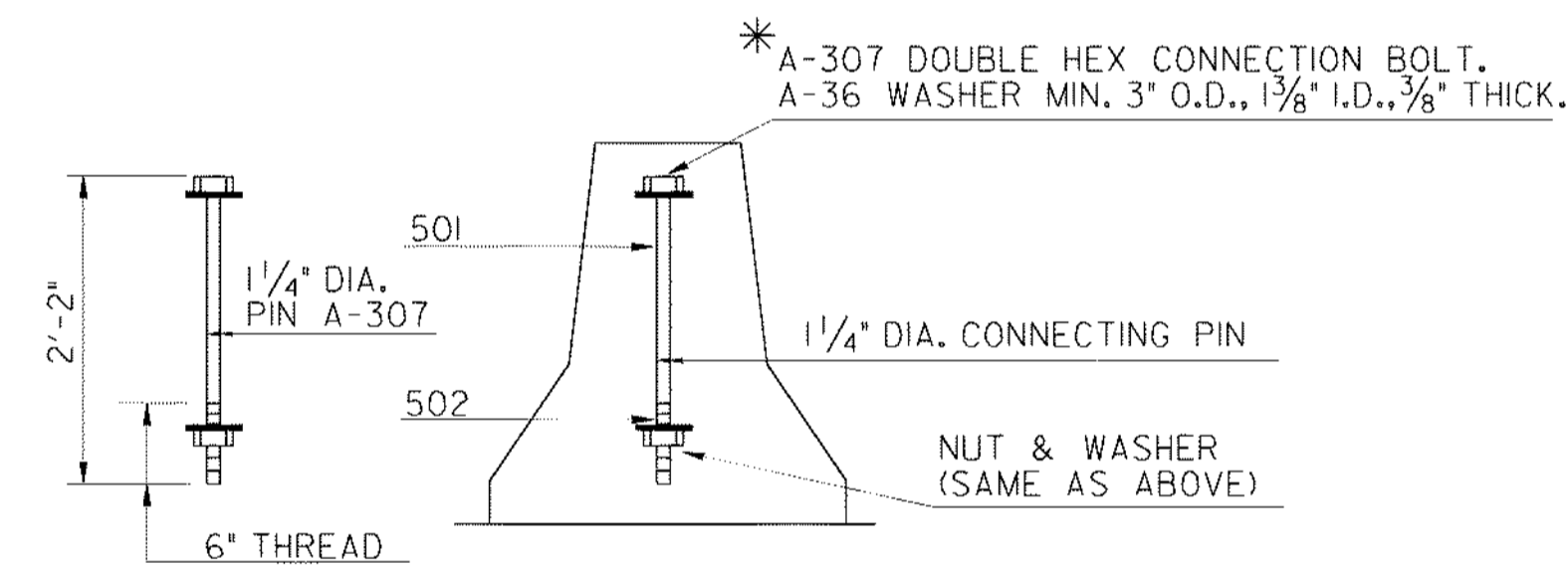
NOTE:
BARRIER SECTIONS SHALL BE CONNECTED TOGETHER WITH THE 1/4" DIA. A-307 DOUBLE HEX CONNECTION BOLT. THE BOTTOM NUT & WASHER SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE BARRIER INSTALLATION.



END ELEVATION



SIDE VIEW

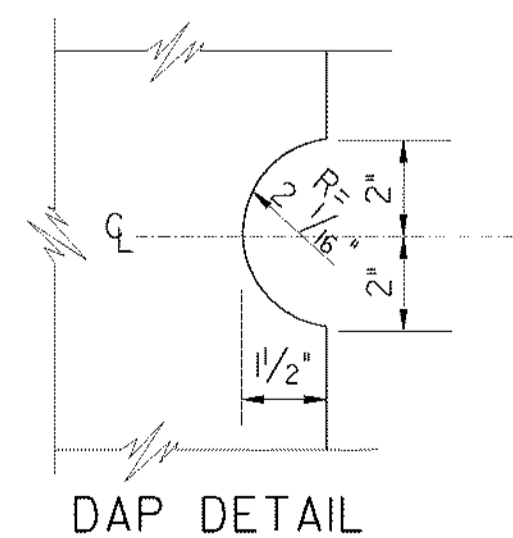
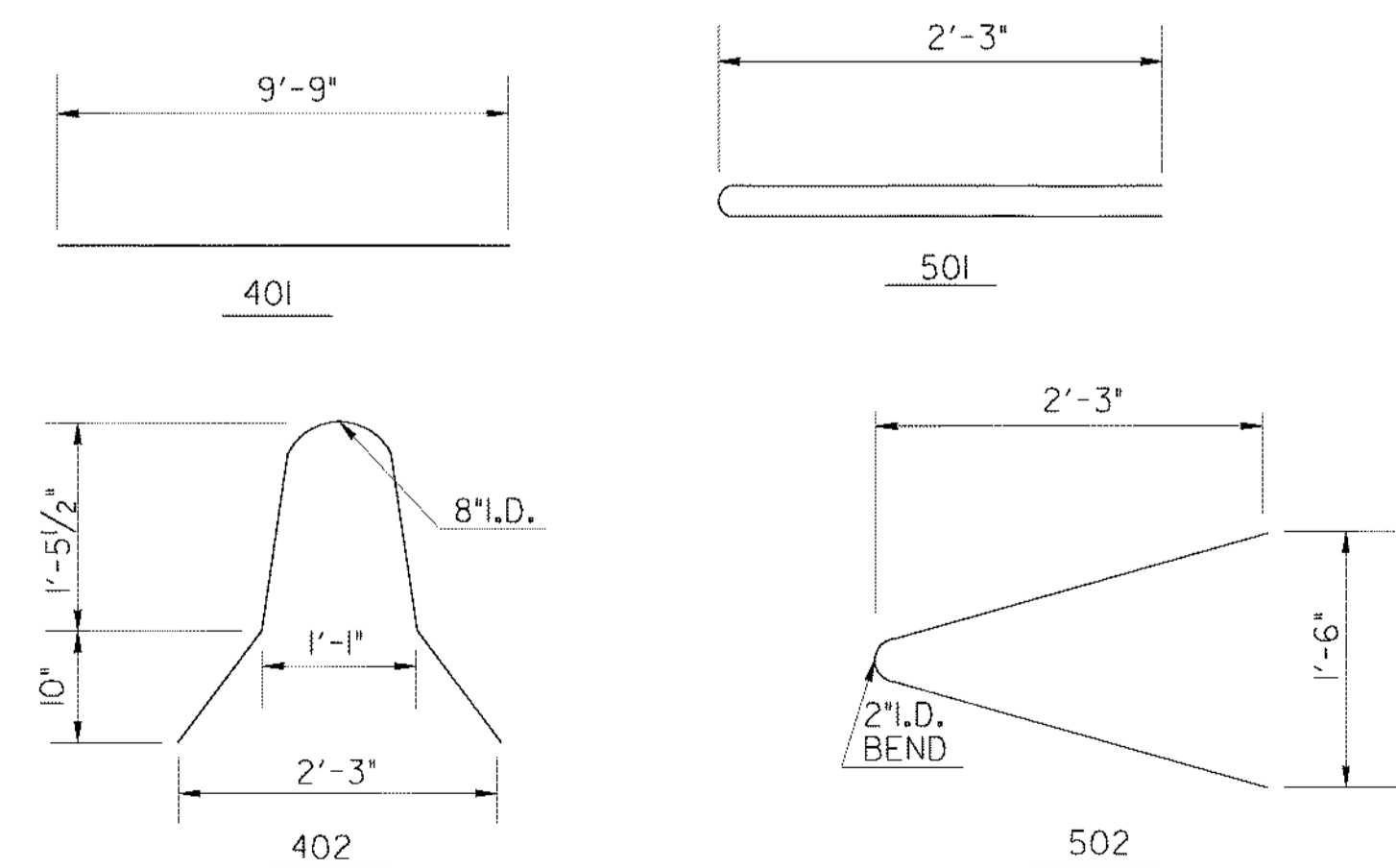


PIN CONNECTION

GENERAL NOTES:

- 1-MATERIALS: CLASS 'A' CONCRETE AND 40 STEEL.
- 2-SEE GA. SPECIFICATIONS FOR BASIS OF PAYMENT AND METHOD NO. ___.
- 3-REINFORCEMENT, HAVING AN AREA AT LEAST EQUAL TO REBARS SHOWN, MAY BE USED AS AN ALTERNATE.
- 4-BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE KEPT TO A MAXIMUM.

* AN ALTERNATE CONNECTING PIN WITH A FUSED NUT ON THE TOP THREADED PORTION AND NUT AND WASHER AS SPECIFIED ON THE BOTTOM MAY ALSO BE USED.



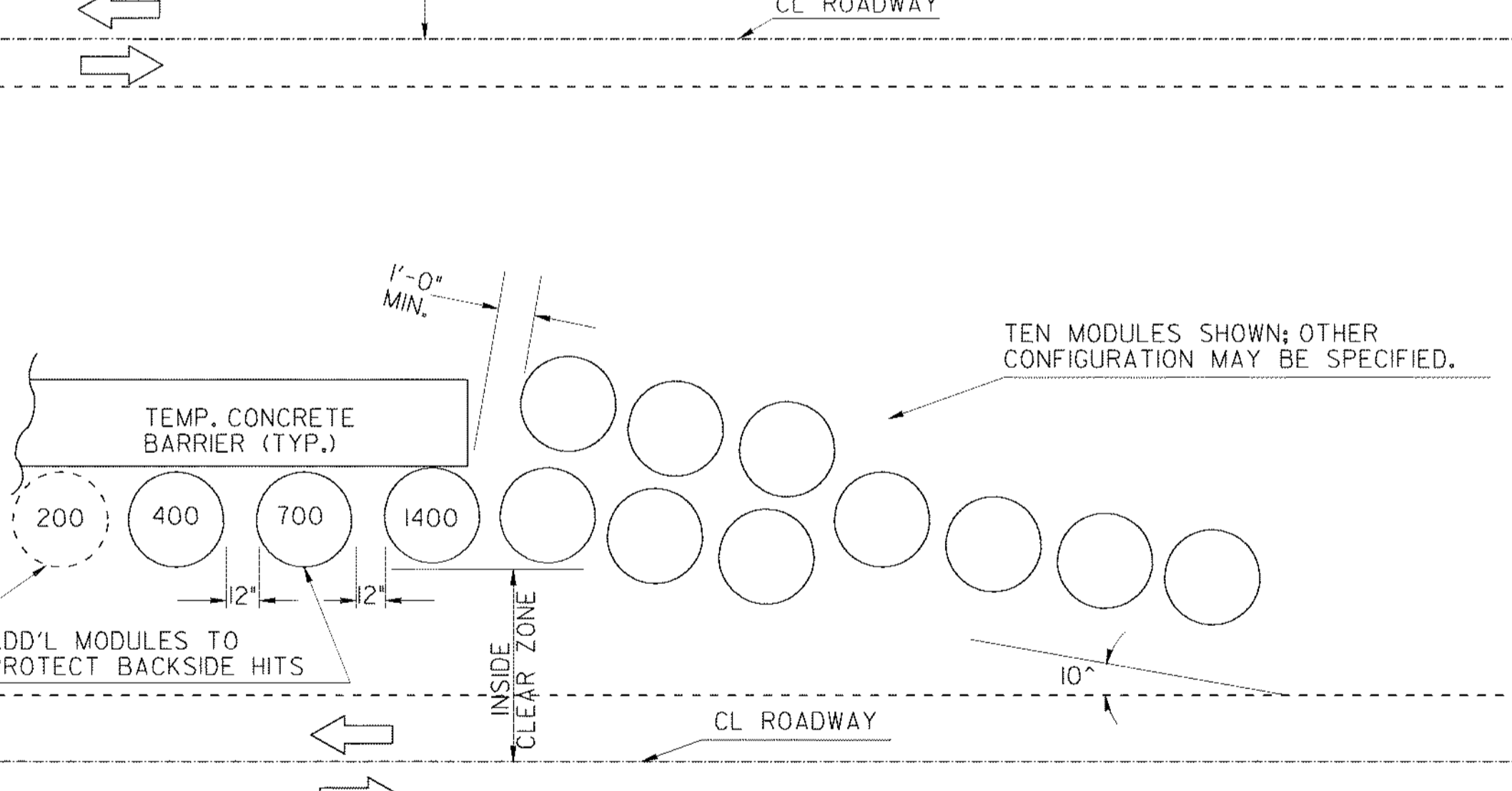
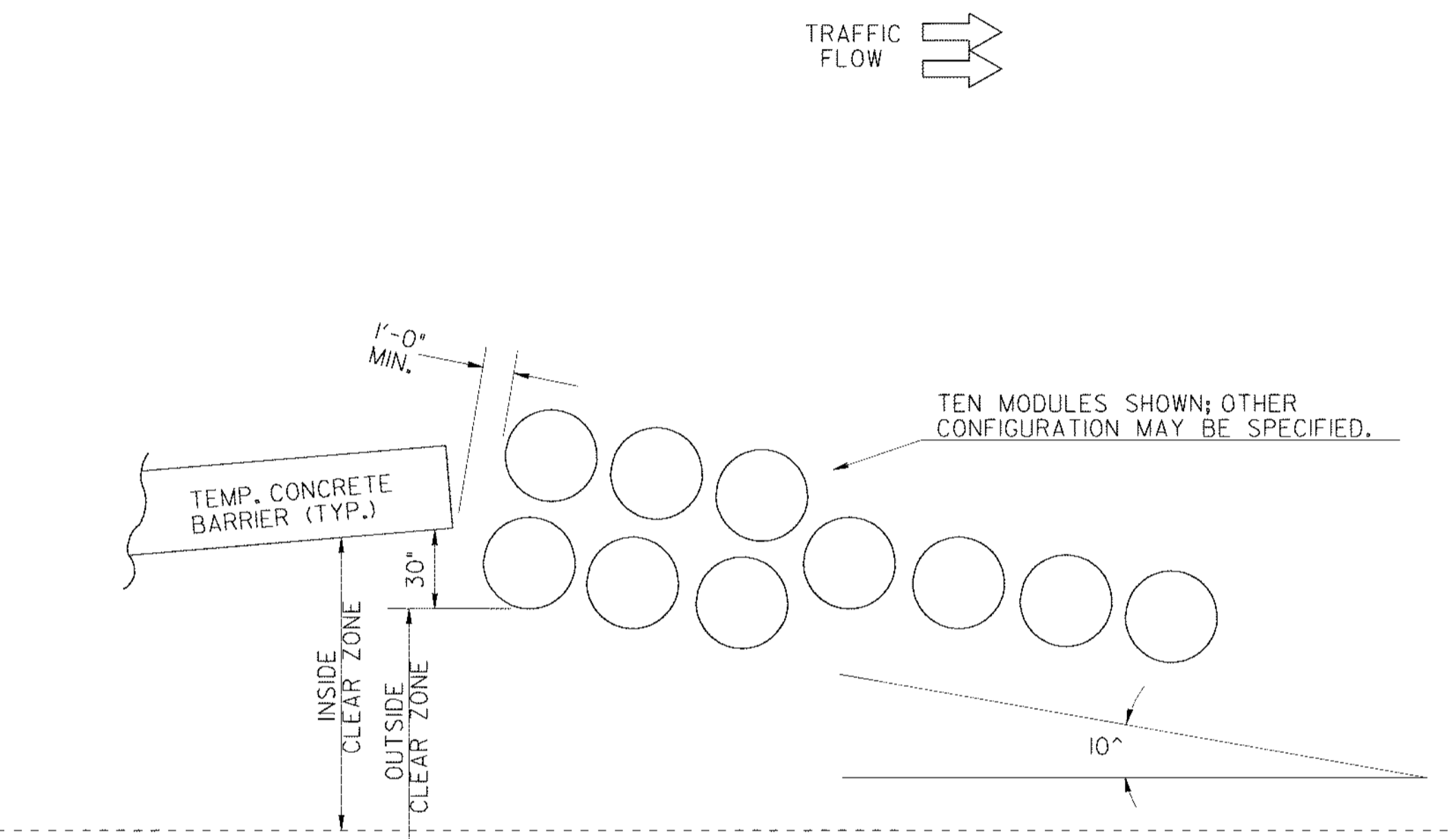
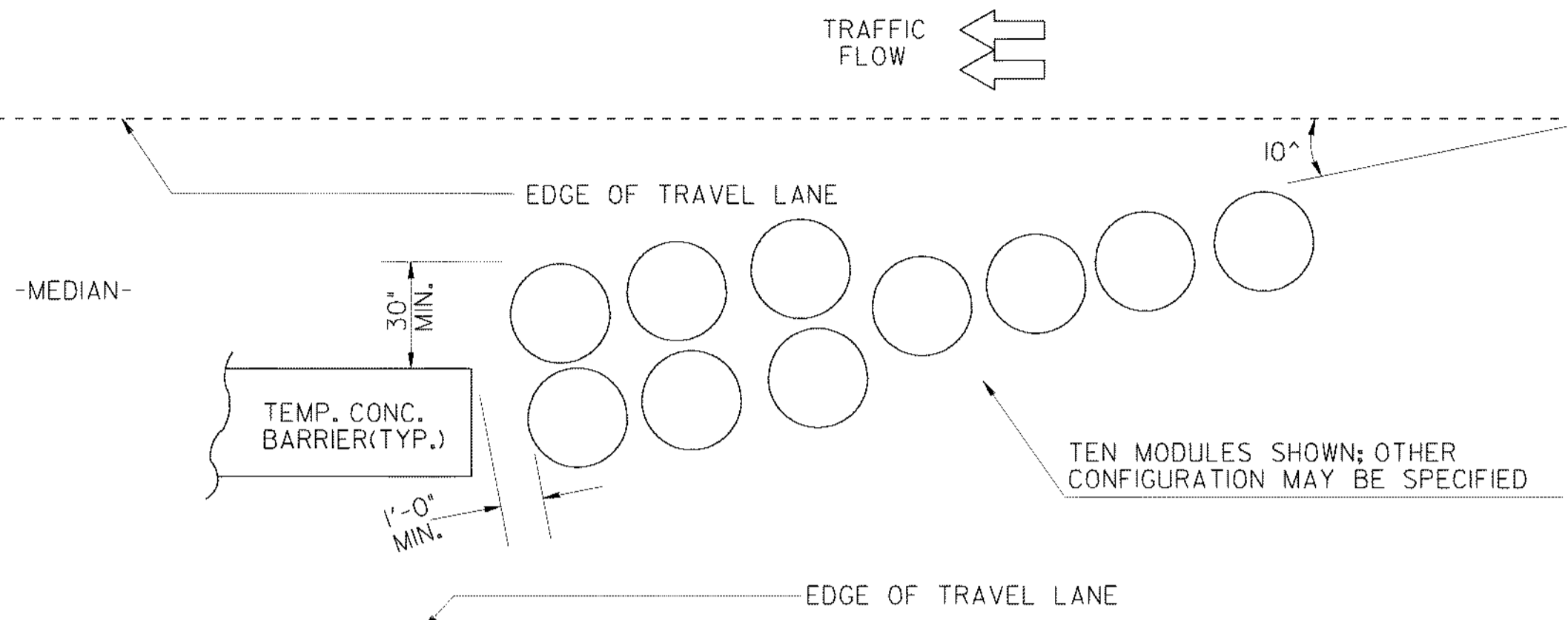
DAP DETAIL

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
STANDARD DETAILS OF PRECAST TEMPORARY BARRIERS			
REV. CONNECTION WASHER AND REV. GEN. NOTE NO. 4.	9-8-06	NO SCALE	
REV. REBAR & PIN CONN.	5-2-01		
REV. COTTER PIN REQUIREMENT	5-10-96		
G.L.C.	BY	DES. _____ (SUBMITTED) <i>B.A. [Signature]</i> STATE ROAD & AIRPORT DESIGN ENGR. TRA. _____ (APPROVED) <i>O.L. [Signature]</i> CHK. _____ CHIEF ENGINEER	NUMBER 4961
			AUG., 1995

LOCATION POSITIONS

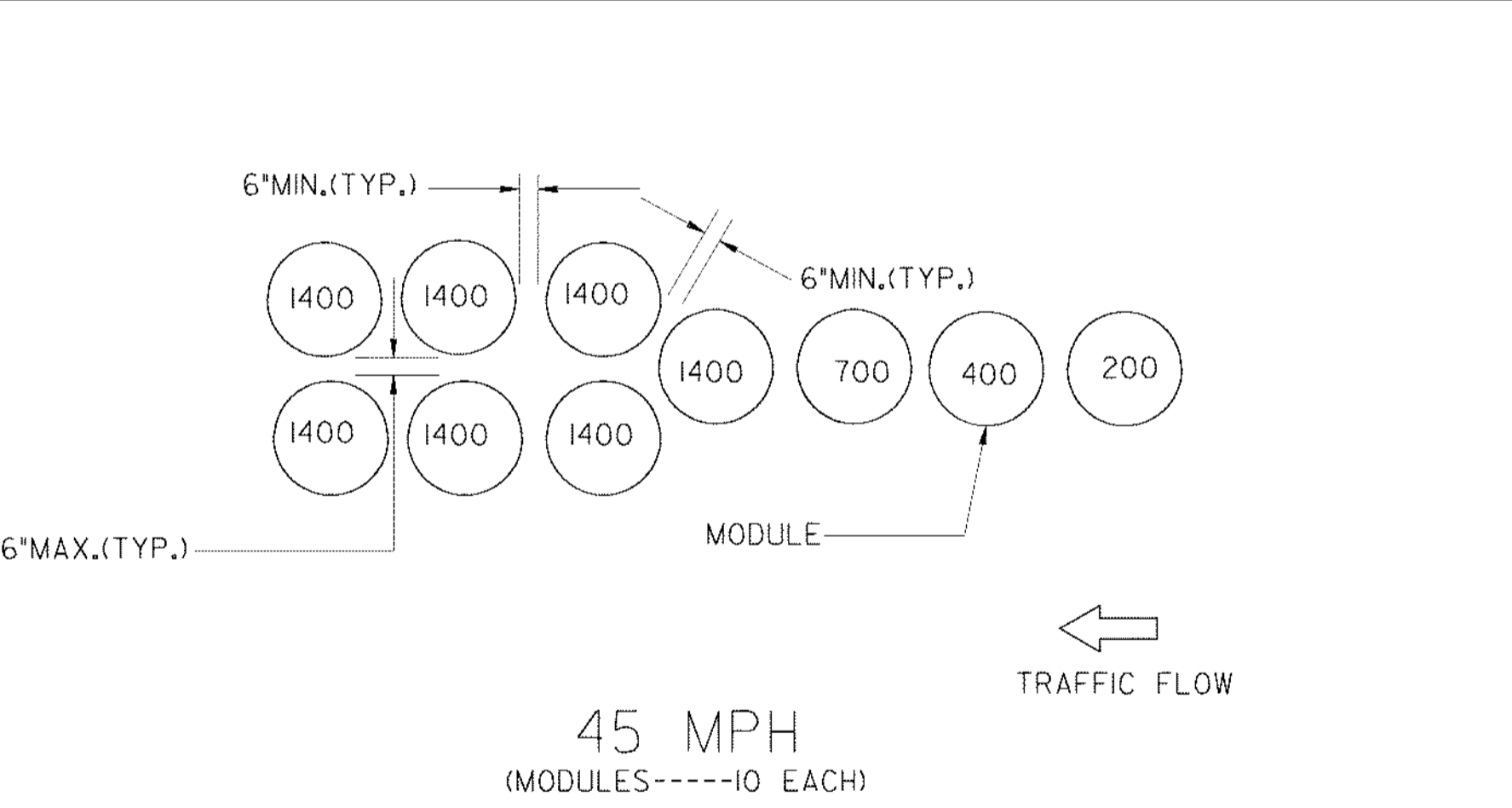
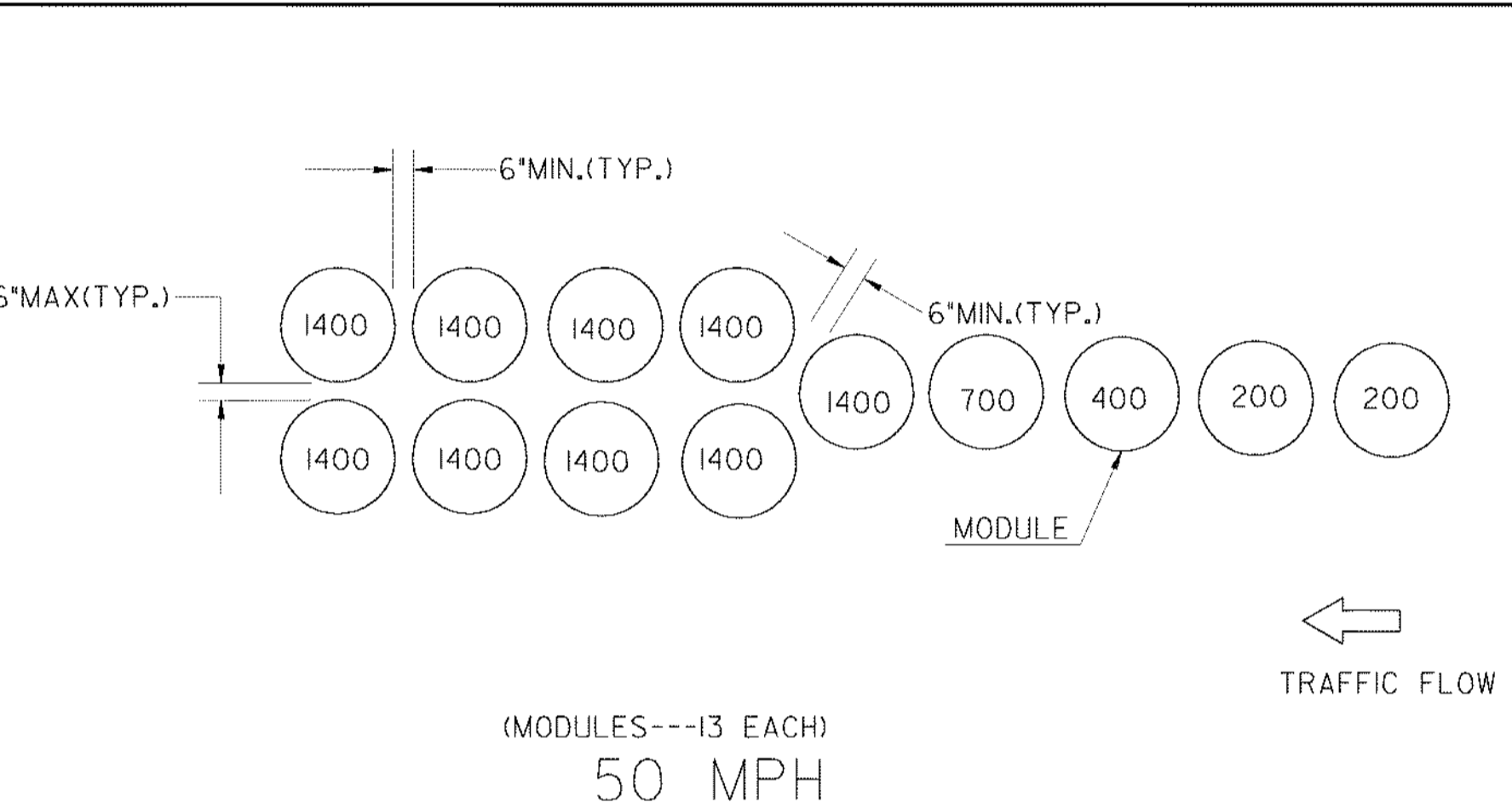
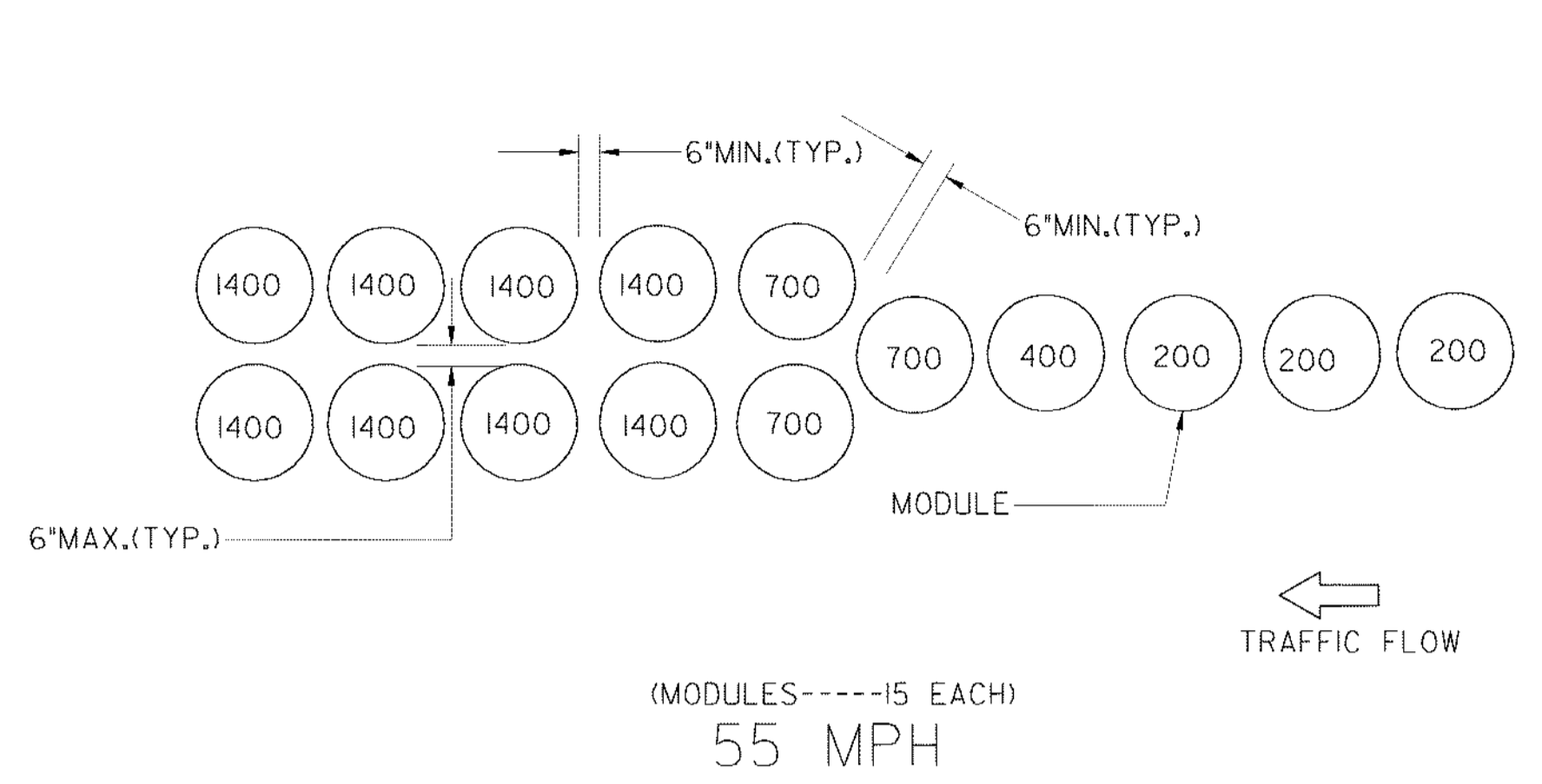
TYPICAL ARRAY CONFIGURATION

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

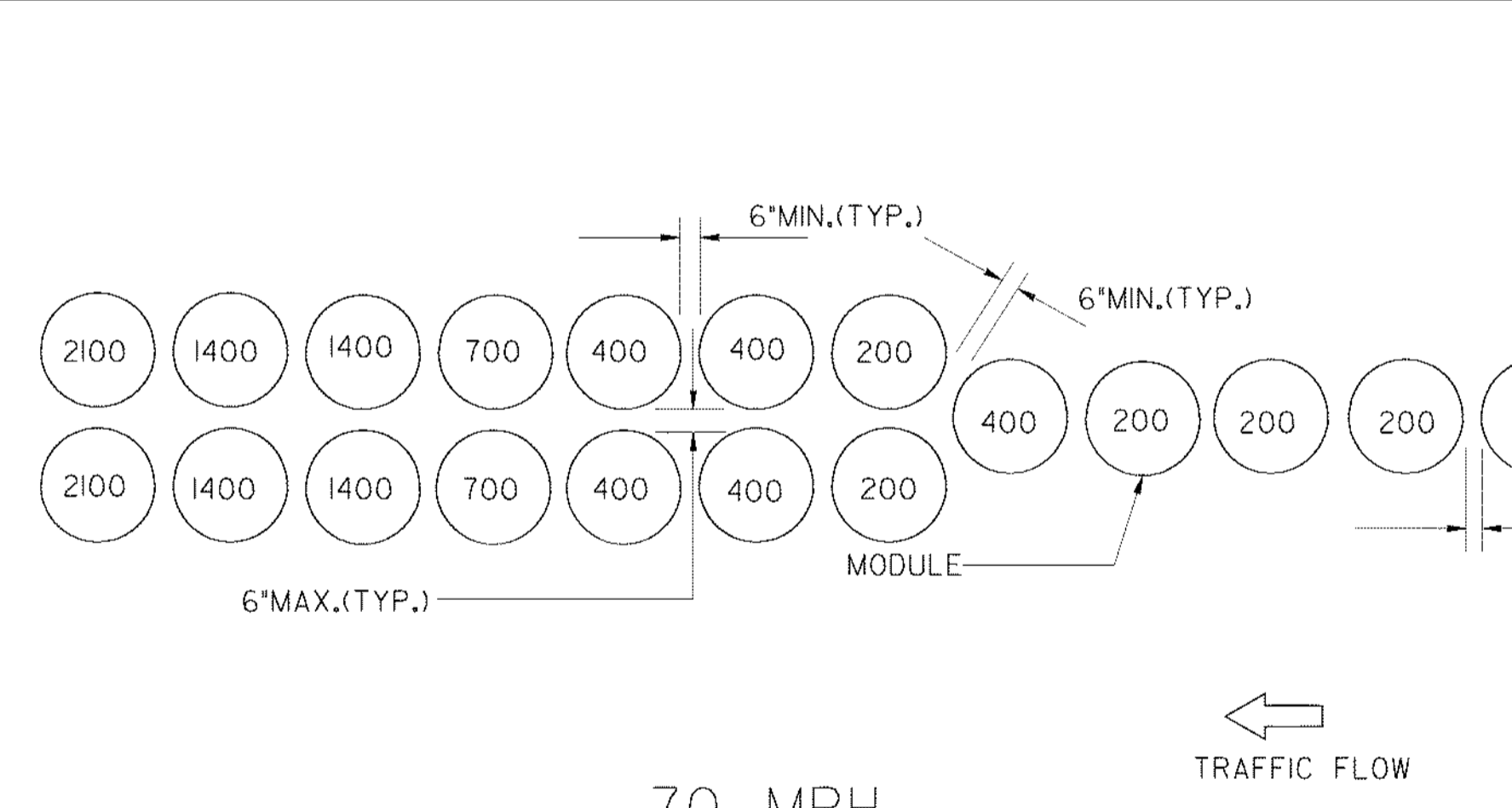
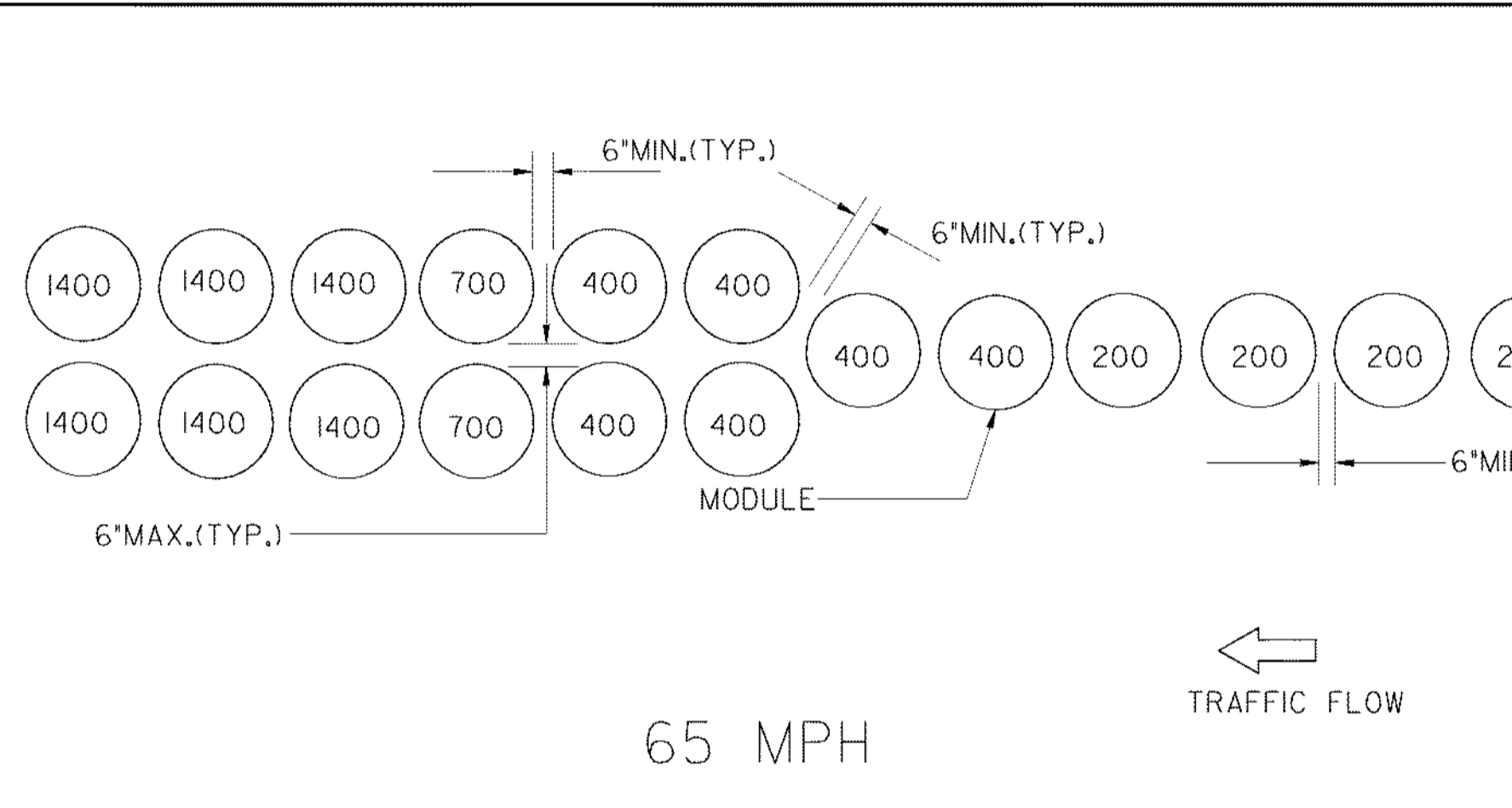
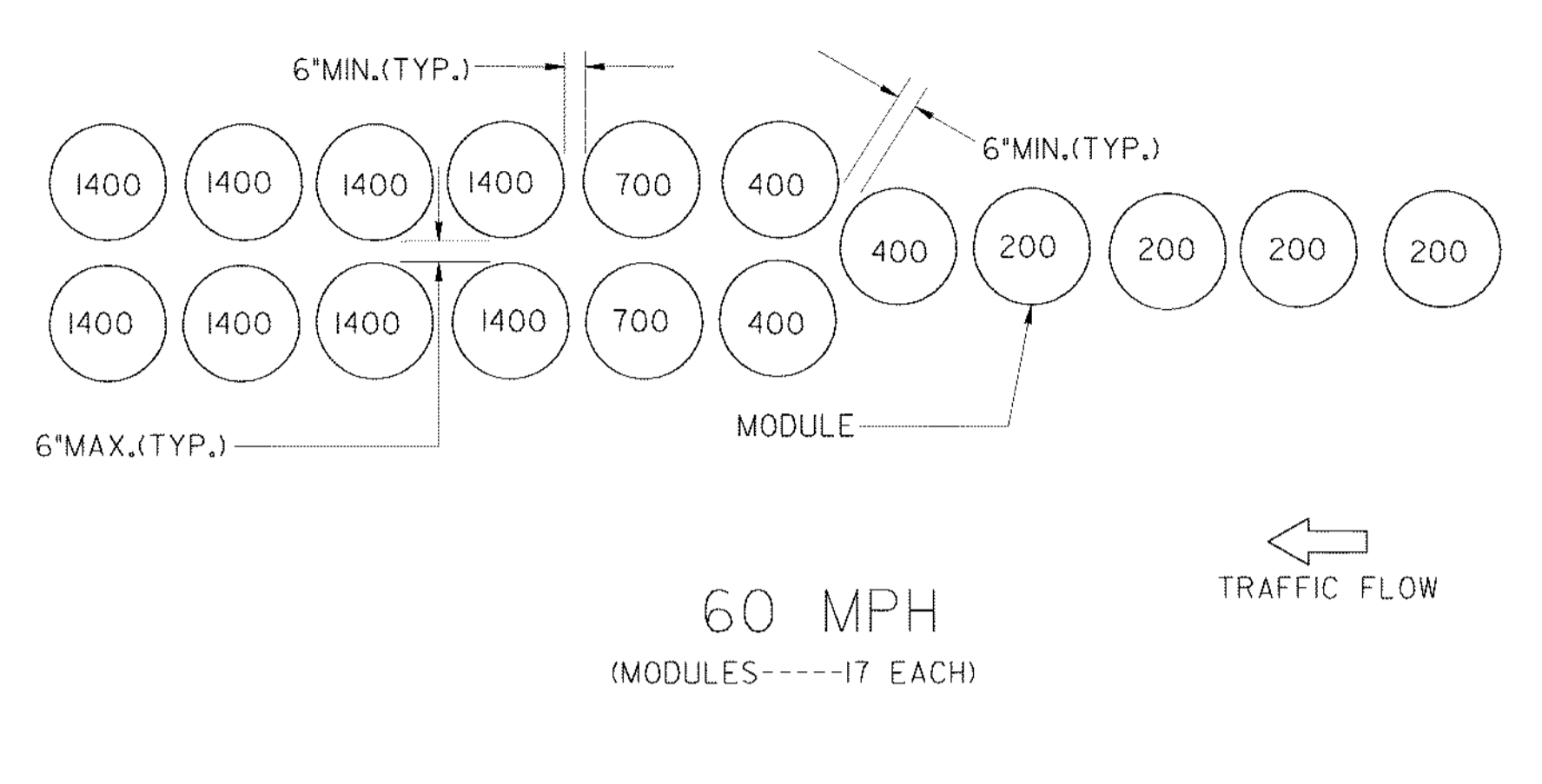


* 200# MODULE MAY BE OMITTED FOR SPEEDS OF 40 M.P.H. OR LESS.

NOTE: WHERE ADDITIONAL MODULES ARE REQUIRED ON THE BACKSIDE, THE TOTALS SUMMARIZED AT THE RIGHT SHALL BE INCREASED ACCORDINGLY.



FOR 40 MPH ARRAY, SEE STD. 4960



- GENERAL NOTES:
- (1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLMENTS THERETO. SEE SECTION 150 FOR PAY ITEM DESIGNATION.
 - (2) NUMBERS SHOWN INSIDE MODULES REPRESENT POUNDS OF SAND.
 - (3) IN THE ABSENCE OF EITHER PAVING OR STABLE BASE OR BOTH, THE MODULES SHALL BE SET ON 3/4" THICK PLYWOOD SUPPORTS.
 - (4) ARRAYS SHOWN HERE ARE NOT TO BE USED IN GORE AREAS.
 - (5) ATTENUATOR SHALL BE AT A 10° ANGLE TO THE EDGE OF THE TRAVEL LANE.

5-11-99		DEPARTMENT OF TRANSPORTATION	
6-30-98		STATE OF GEORGIA	
ADD TO MPH ARRAY	REVISION	STANDARD TEMPORARY TRAFFIC IMPACT ATTENUATOR SAND LOADED MODULES	
C.J.P.	BY	DES. _____	NUMBER
CHK. _____	BY	(SUBMITTED) <i>James A. Kanel</i>	4962
		(APPROVED) <i>Tom L. Cantley</i>	
		STATE ROAD & AIRPORT DESIGN ENGR.	
		CHIEF ENGINEER	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

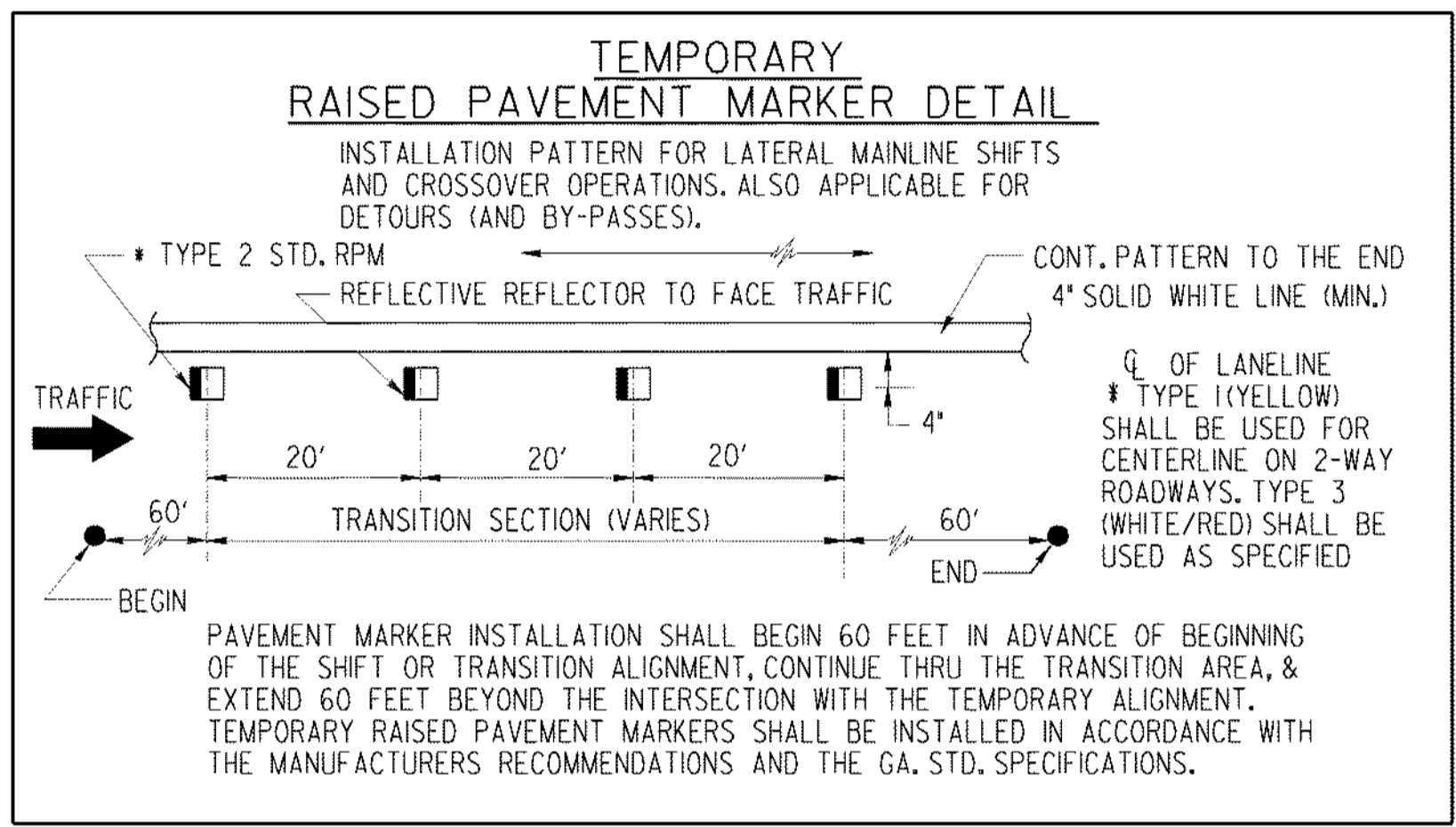
GENERAL NOTES :

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 10 FEET ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTORIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
- A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS - AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
- ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
- FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMP AT ALL TIMES.
- ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
- ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
- CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
- THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES, REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
- EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STANDARD LEGEND

- STRIPED DRUM
- ▨ TYPE III BARRICADES
- ⊗ SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- ⬢ SEQUENTIAL OR FLASHING ARROW
- ⎓ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ PERMANENT TYPE POST MOUNTED SIGN
- ⊕ TEMPORARY POST MOUNTED SIGN
- Ⓚ PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- ▨ WORK AREA
- ▲ TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- ⬢ FLAGGER WITH STOP-SLOW PADDLE
- ⊞ TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- ⊖ TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE



3-30-06		4-24-01		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.		SPEC. BAR. SH. SPEC.		REVISION		STANDARD TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS	
GLO		BY		NO SCALE			
DES. _____		(SUBMITTED) <i>[Signature]</i>		STATE ROAD & AIRPORT DESIGN ENGINEER		NUMBER 9100	
DRW. _____		(APPROVED) <i>[Signature]</i>		CHIEF ENGINEER			
TRA. _____							
CHK. _____							

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER.
		SYMBOL 	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS.
		SYMBOL 	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.
		PATTERN 	THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs!
		SYMBOL 	FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 1 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	
		52-0001	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 2 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	
		52-0002	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/- 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163.800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF SD1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

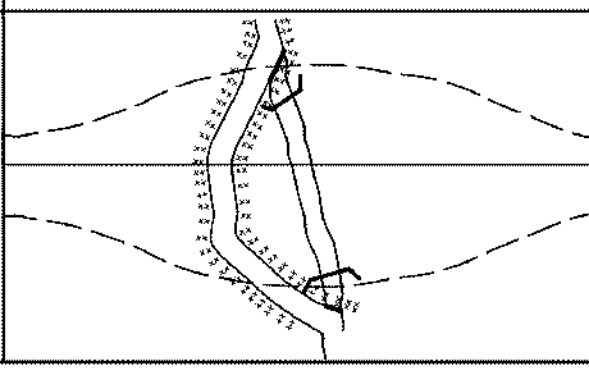

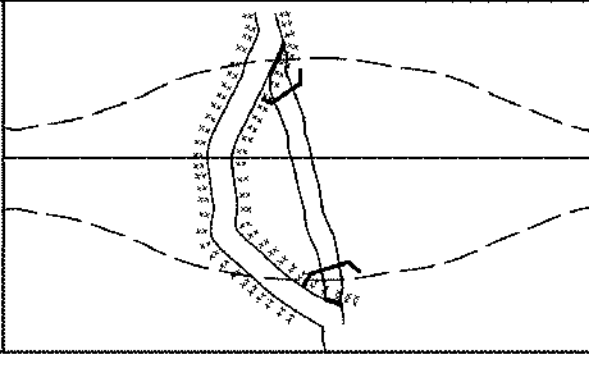

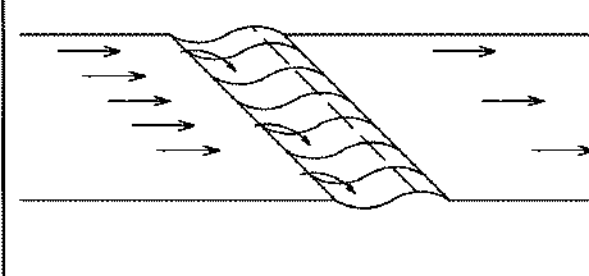
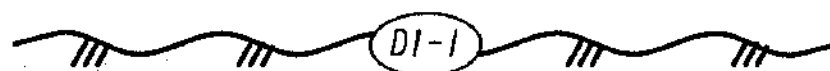
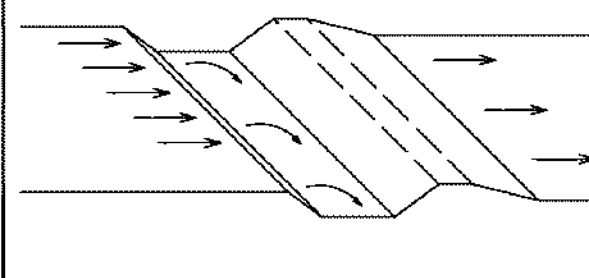

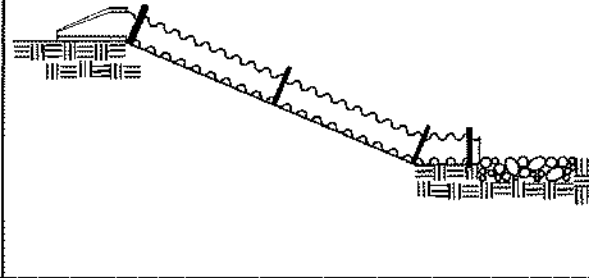

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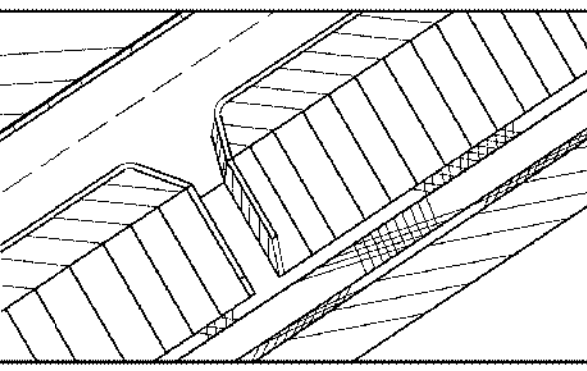
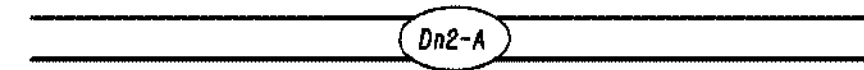
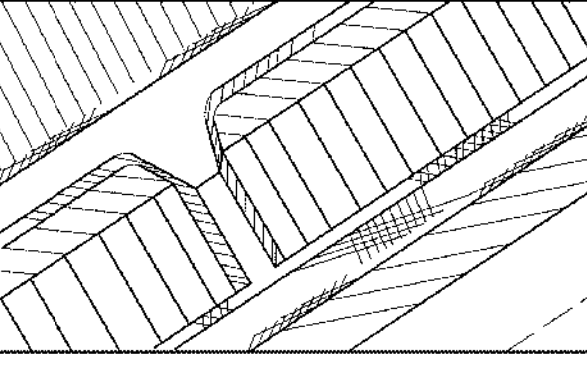
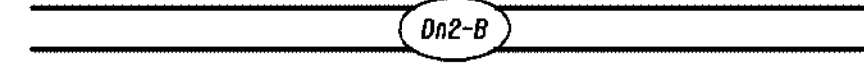
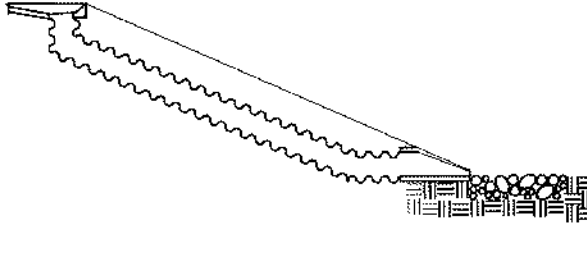
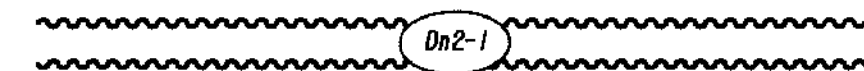
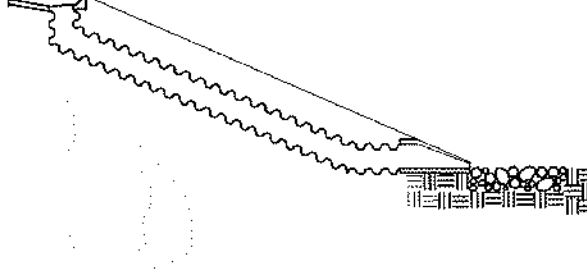
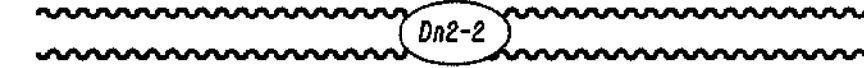
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 3 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	
		52-0003	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS *Dn1* OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
	LINE CODE 		
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

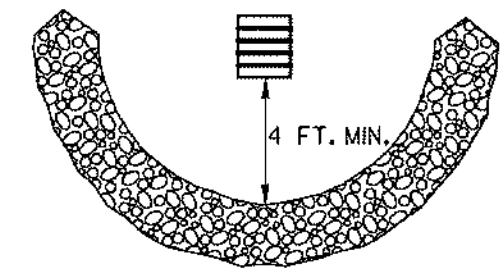

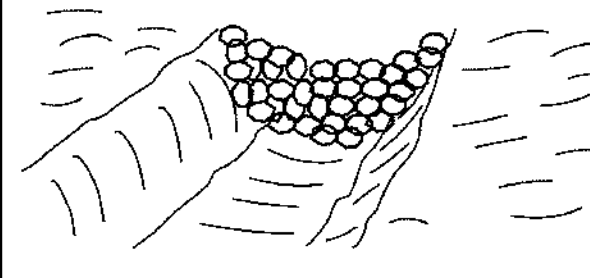

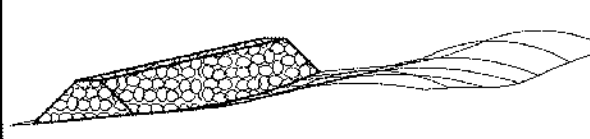


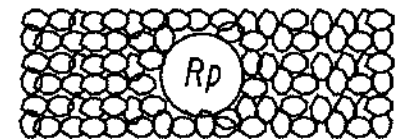
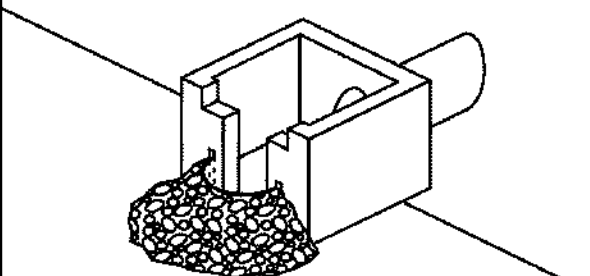

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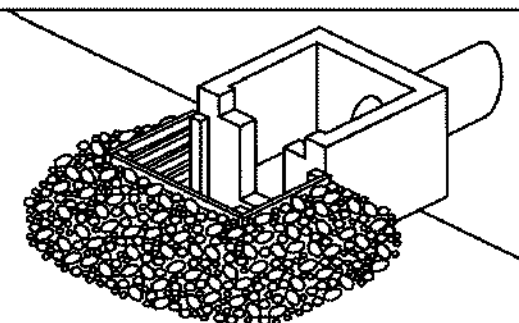

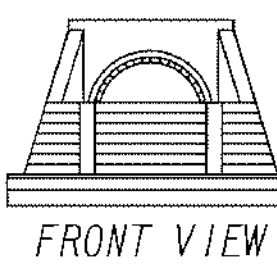
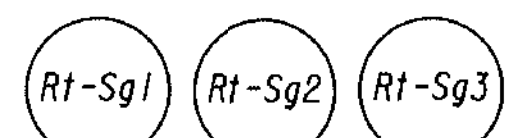
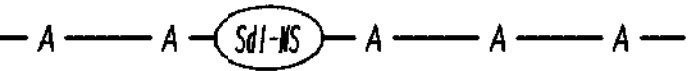
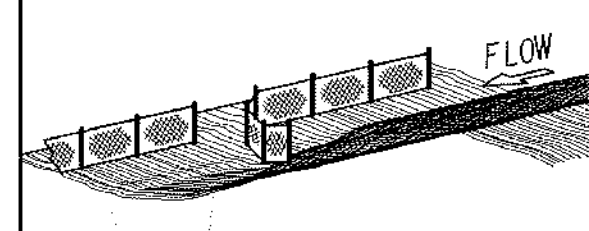

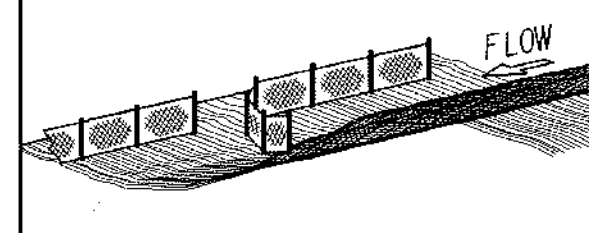
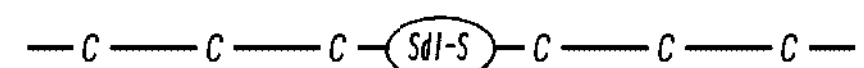
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 4 OF 7	
CHECKED:	D. EASLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-0004



NO SCALE

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT, THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION		
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.		
	SYMBOL 				
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS		
				SYMBOL 	
				LINE CODE 	
Sd1-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
			LINE CODE 		
Sd1-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
			LINE CODE 		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



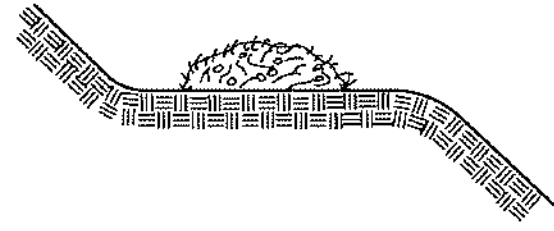
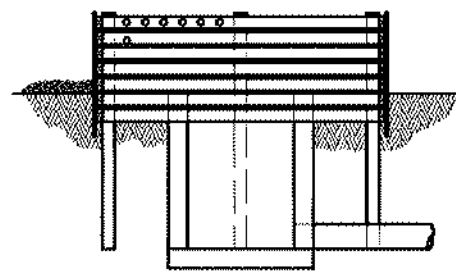
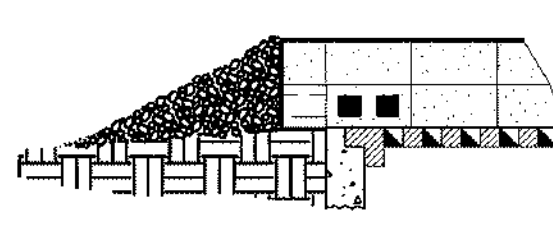
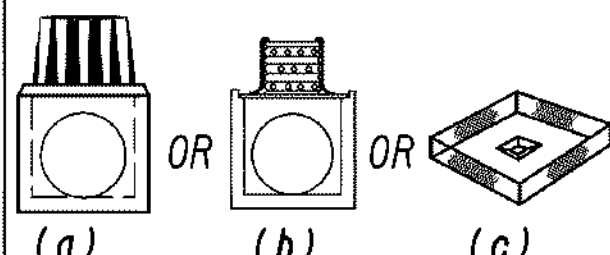
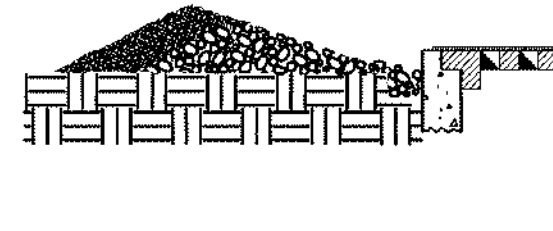
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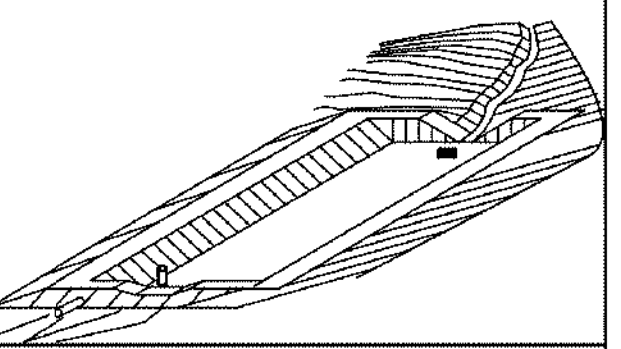
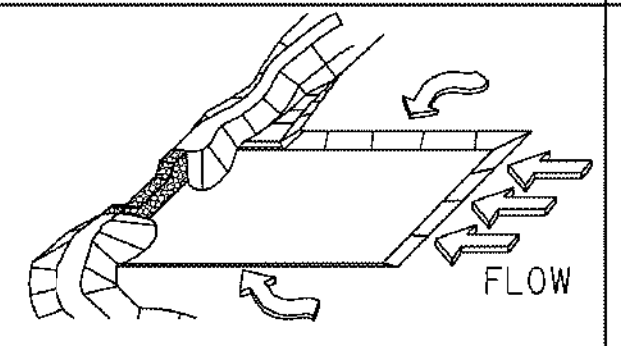
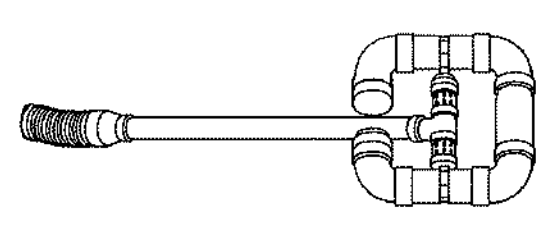
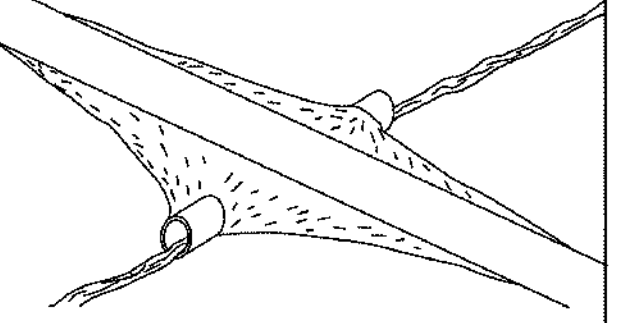
REVISION DATES	
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EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

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52-0005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	CONSTRUCTION DETAIL D-24B SECTION 201	LINE CODE * * * (Sd1-BB) * * *	
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
		SYMBOL (Sd2-B)	
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
		SYMBOL (Sd2-Bg)	
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-42 SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
		SYMBOL (Sd2-F)	
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
		SYMBOL (Sd2-G)	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	CONSTRUCTION DETAIL D-22A, D-22B SECTION 163	SYMBOL (Sd3)	
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	CONSTRUCTION DETAIL D-53 SECTION 163	SYMBOL (Sd4-C)	
Sk	FLOATING SURFACE SKIMMER		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	CONSTRUCTION DETAIL D-22A, D-22B SECTION 163	SYMBOL (Sk)	
Sr	TEMPORARY STREAM CROSSING		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SECTION 107	SYMBOL (Sr)	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



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REVISION DATES

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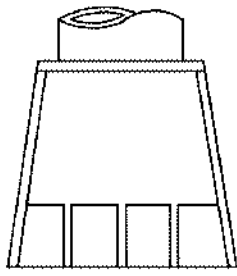

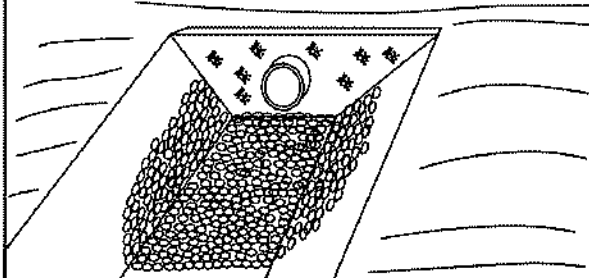
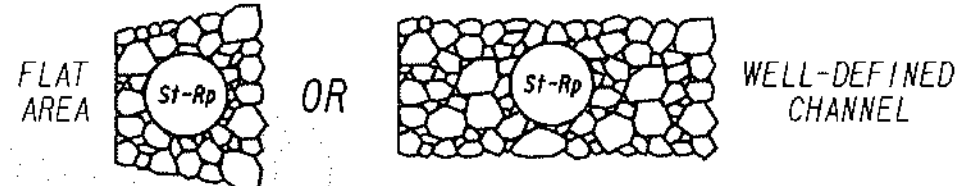
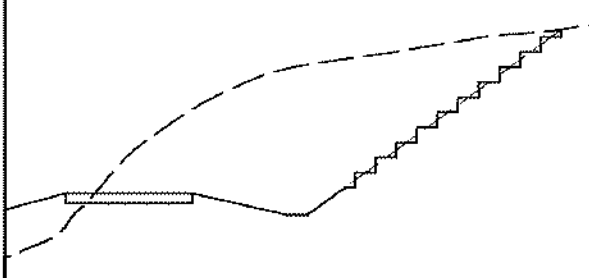
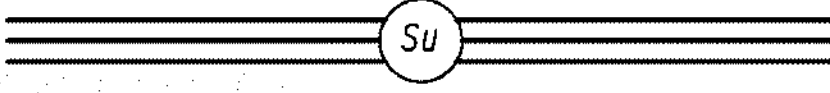
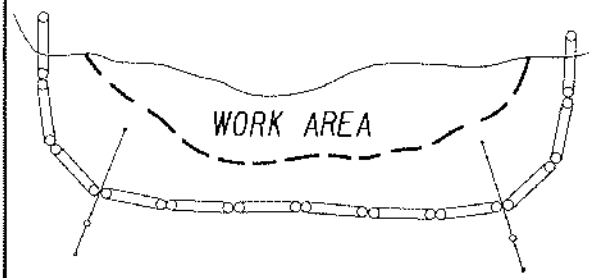
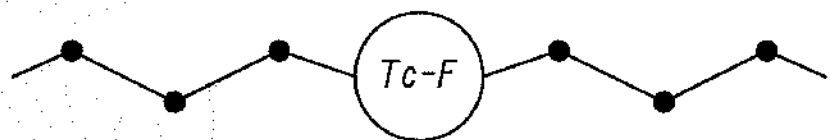
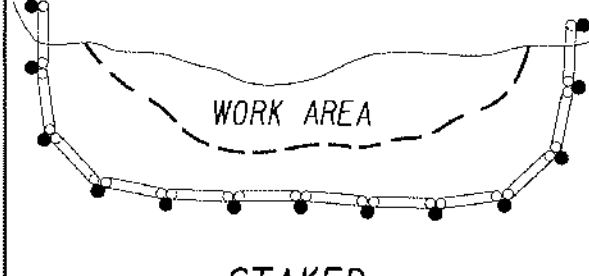
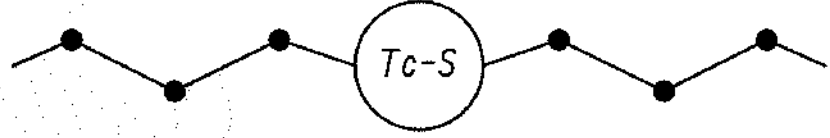
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 6 OF 7

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52-0006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL 		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 ≤ 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 ≤ 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
	PATTERN 		
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE 		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE 		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 7 OF 7	
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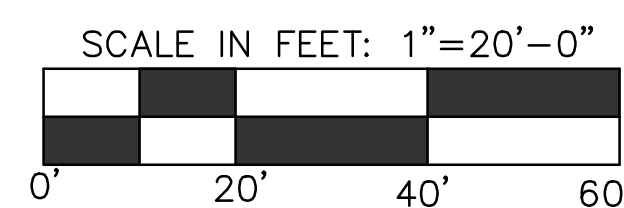
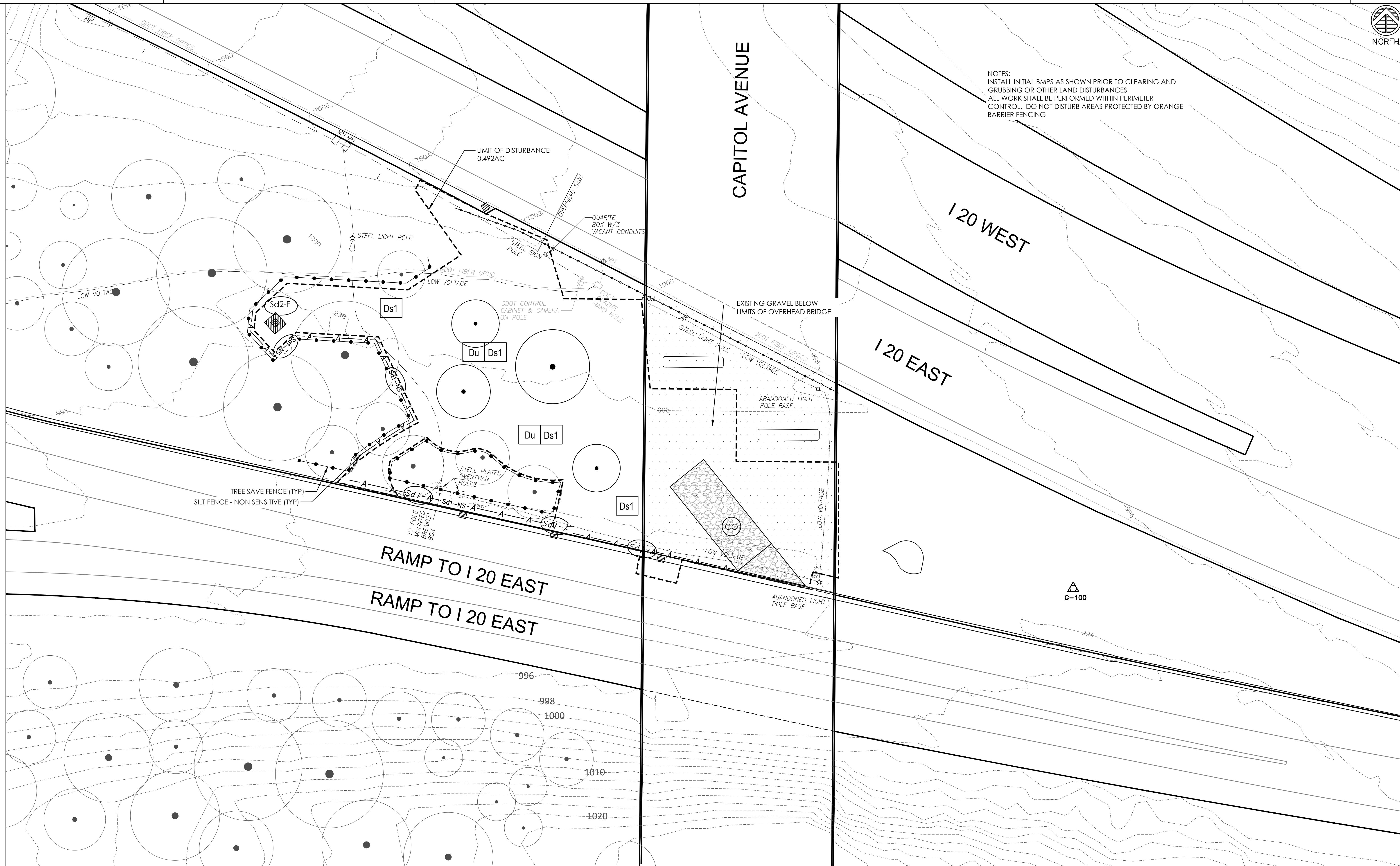
NOTES:
INSTALL INITIAL BMPs AS SHOWN PRIOR TO CLEARING AND GRUBBING OR OTHER LAND DISTURBANCES
ALL WORK SHALL BE PERFORMED WITHIN PERIMETER CONTROL. DO NOT DISTURB AREAS PROTECTED BY ORANGE BARRIER FENCING

CAPITOL AVENUE

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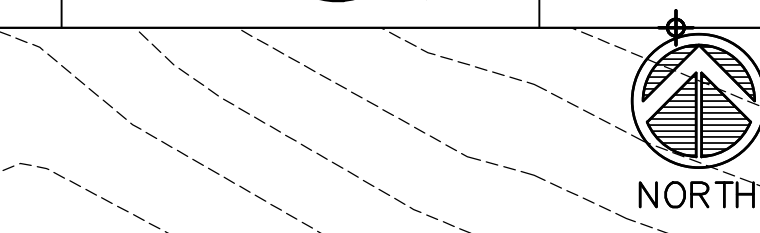


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IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303

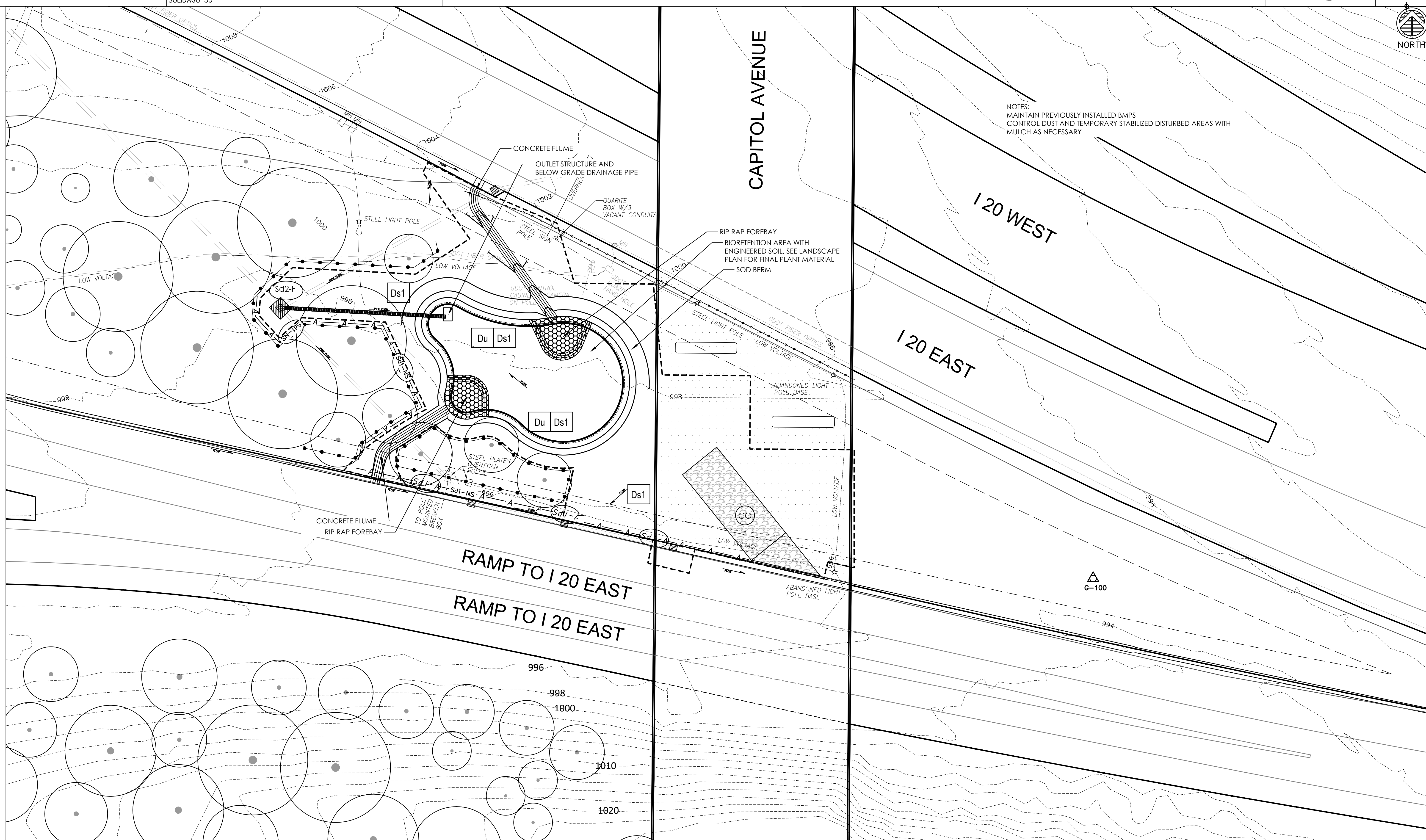
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08/08/2019	FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
PHASE 1 - INITIAL PHASE
BMP LOCATION DETAILS
CAPITOL AVENUE GREEN INFRASTRUCTURE
PROJECT

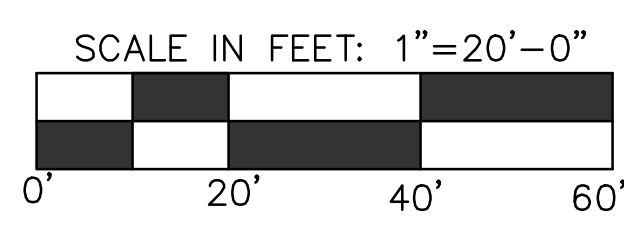
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NOTES:
MAINTAIN PREVIOUSLY INSTALLED BMPs
CONTROL DUST AND TEMPORARY STABILIZED DISTURBED AREAS WITH
MULCH AS NECESSARY



ATLANTA DOWNTOWN
IMPROVEMENT DISTRICT
84 WALTON STREET, SUITE 500
ATLANTA, GA 30303



REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
06/26/2019	GDOT REVIEW	PHASE 2 - INTERMEDIATE PHASE BMP LOCATION DETAILS CAPITOL AVENUE GREEN INFRASTRUCTURE PROJECT	
08/08/2019	FOR BID		
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



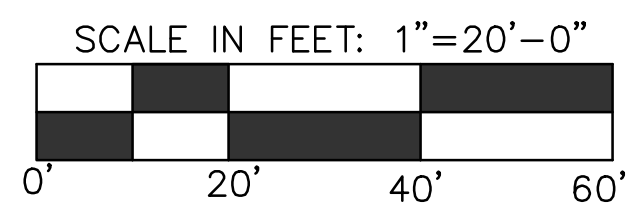
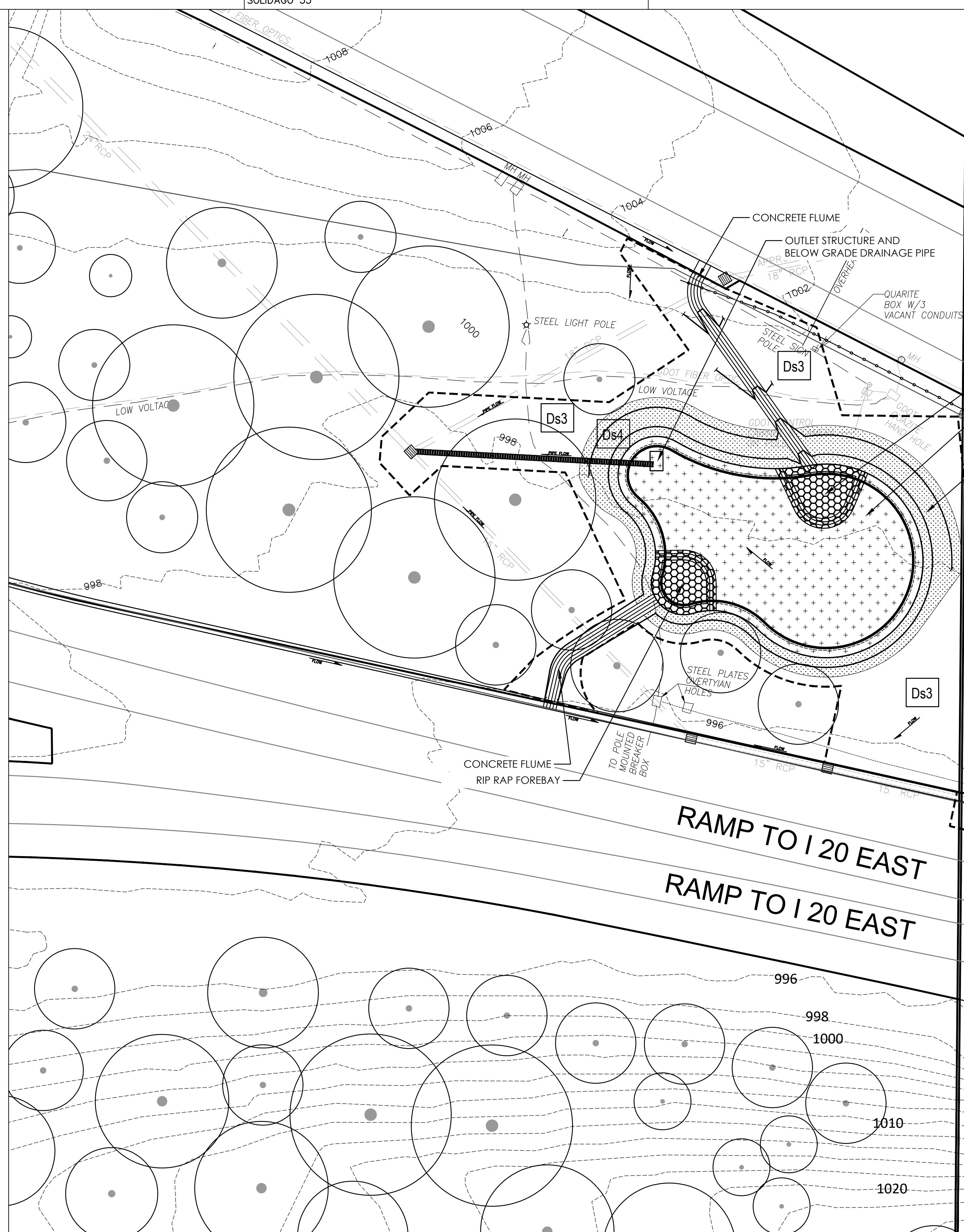
NOTES:
MAINTAIN PREVIOUSLY INSTALLED BMPs
CONTROL DUST AND TEMPORARY STABILIZED DISTURBED AREAS WITH
MULCH AS NECESSARY
ONCE FINAL GRADING IS COMPLETE & PERMANENT DRAINAGE
STRUCTURES HAVE BEEN INSTALLED, PERMANENTLY STABILIZE AREA AS
REQUIRED ACCORDING TO LANDSCAPING PLAN.
MAINTAIN BMPs UNTIL PERMANENT STABILIZATION IS ESTABLISHED AND
DIRECTED BY ENGINEER TO REMOVE.

CAPITOL AVENUE

I 20 WEST

I 20 EAST

RAMP TO I 20 EAST
RAMP TO I 20 EAST



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REVISION DATES

06/26/2019 GDOT REVIEW
08/08/2019 FOR BID

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION

PHASE 3 - FINAL PHASE
BMP LOCATION DETAILS
CAPITOL AVENUE GREEN INFRASTRUCTURE
PROJECT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-003
CORRECTED:	DATE:	
VERIFIED:	DATE:	