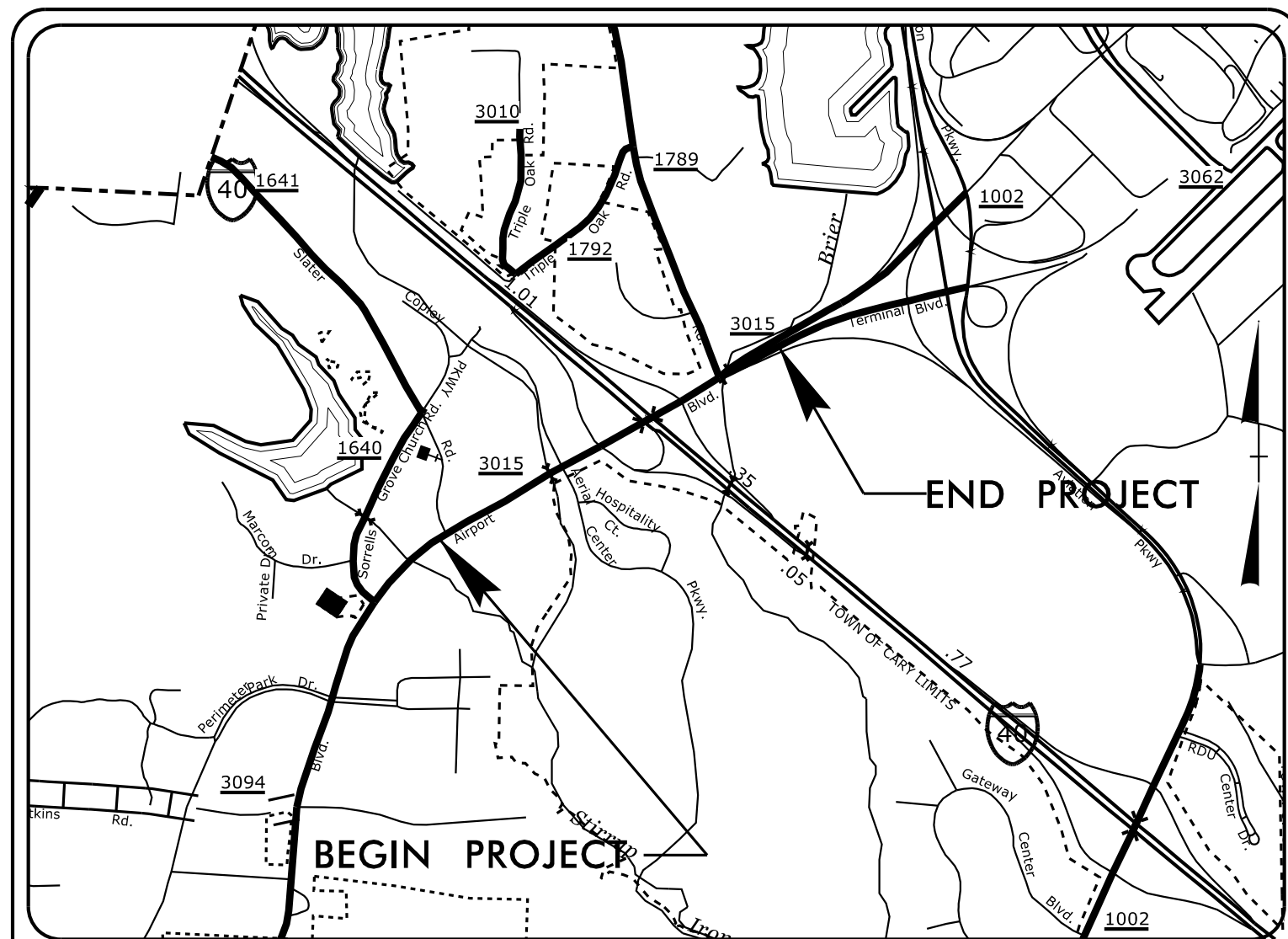


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5700	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: I-5700



VICINITY MAP
NOT TO SCALE

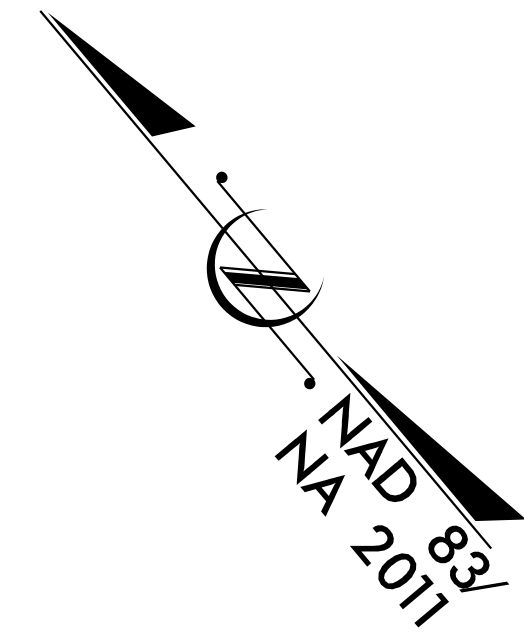
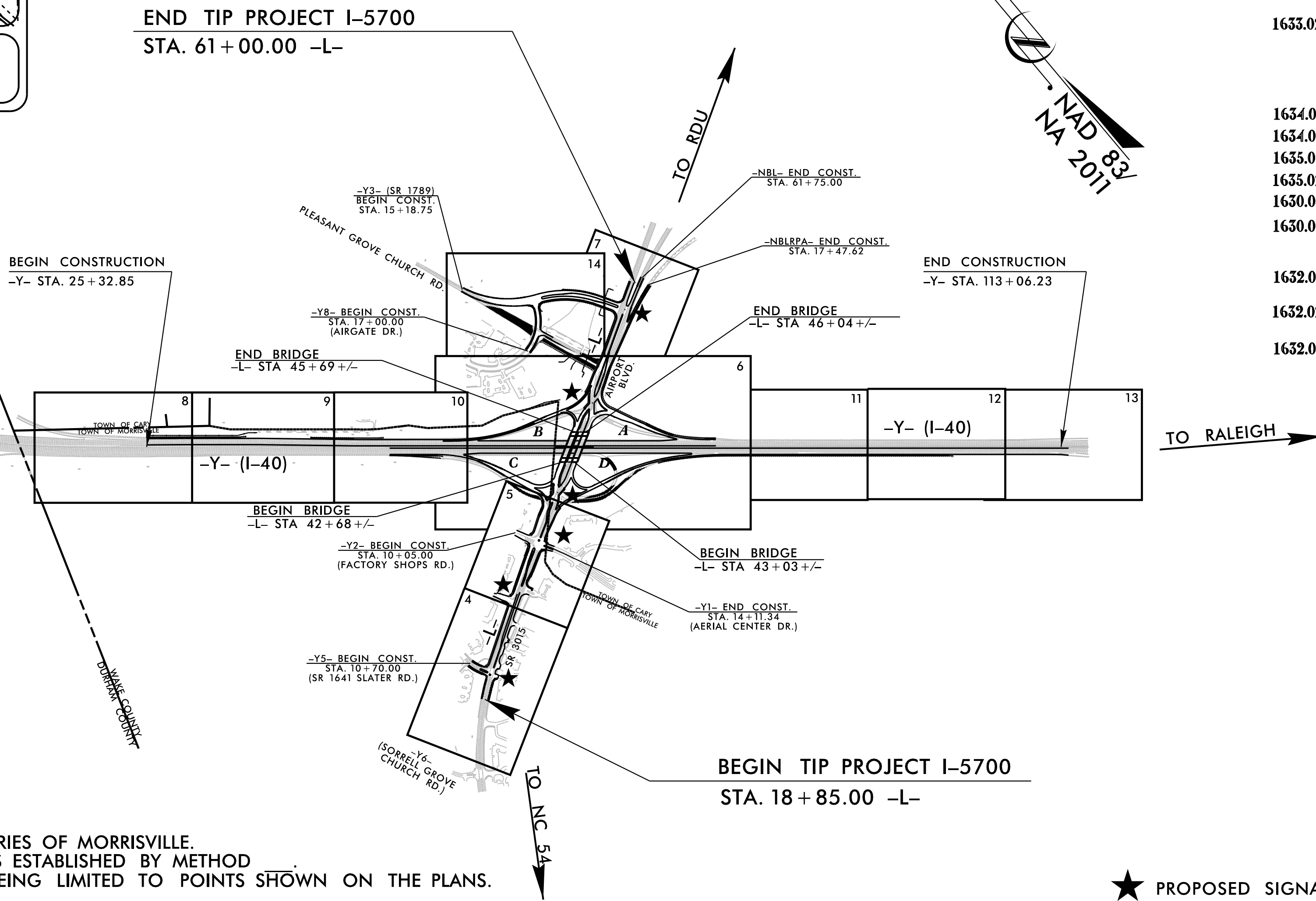
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Plan Sheet Symbols
See Sheet 1C-1 For Survey Control Sheet

LOCATION: I-40 AND SR 3015 (AIRPORT BLVD.), REVISE INTERCHANGE AND CONSTRUCT AUXILIARY LANE ON I-40 WESTBOUND FROM SR 3015 (AIRPORT BLVD. TO I-540).

TYPE OF WORK: ITS, DRAINAGE, GRADING, PAVING, SIGNALS, CULVERTS AND STRUCTURES

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MORRISVILLE. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD. THIS IS A PARTIAL CONTROLLED- ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
WAKE COUNTY



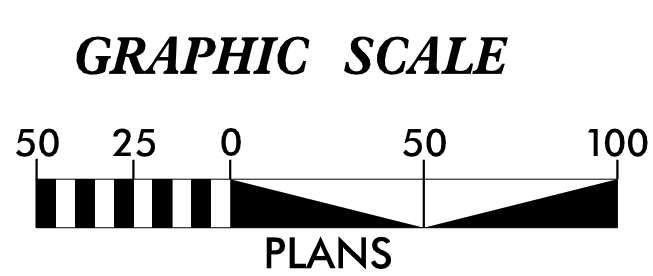
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDA-B
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRA-B
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Kimley Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

Prepared in the Office of:
KIMLEY-HORN
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

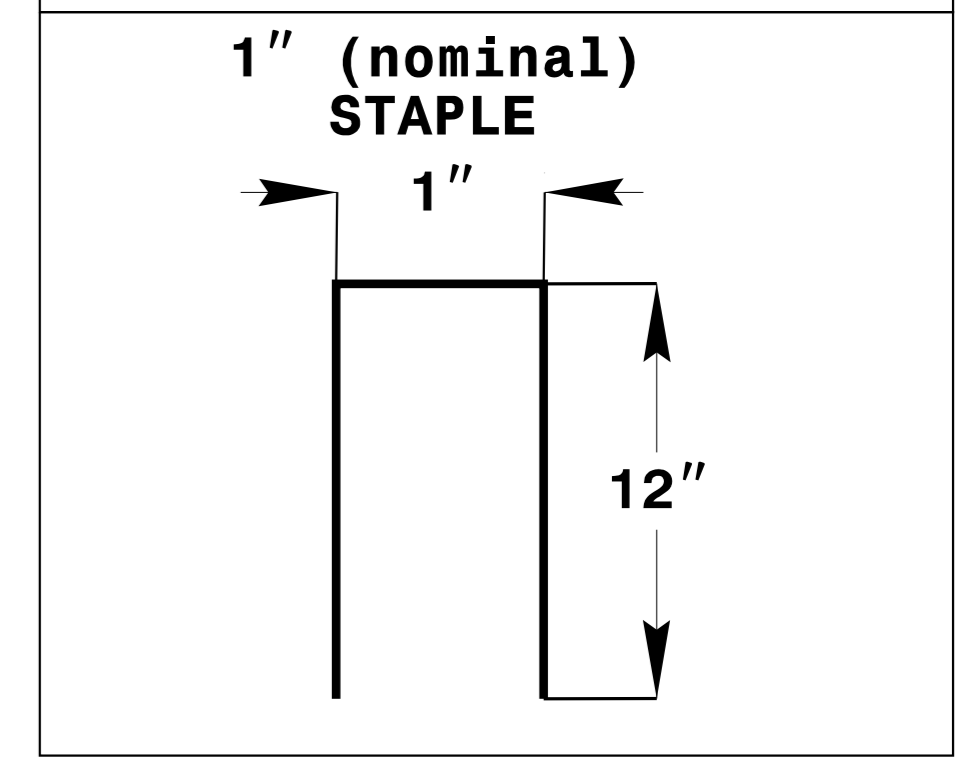
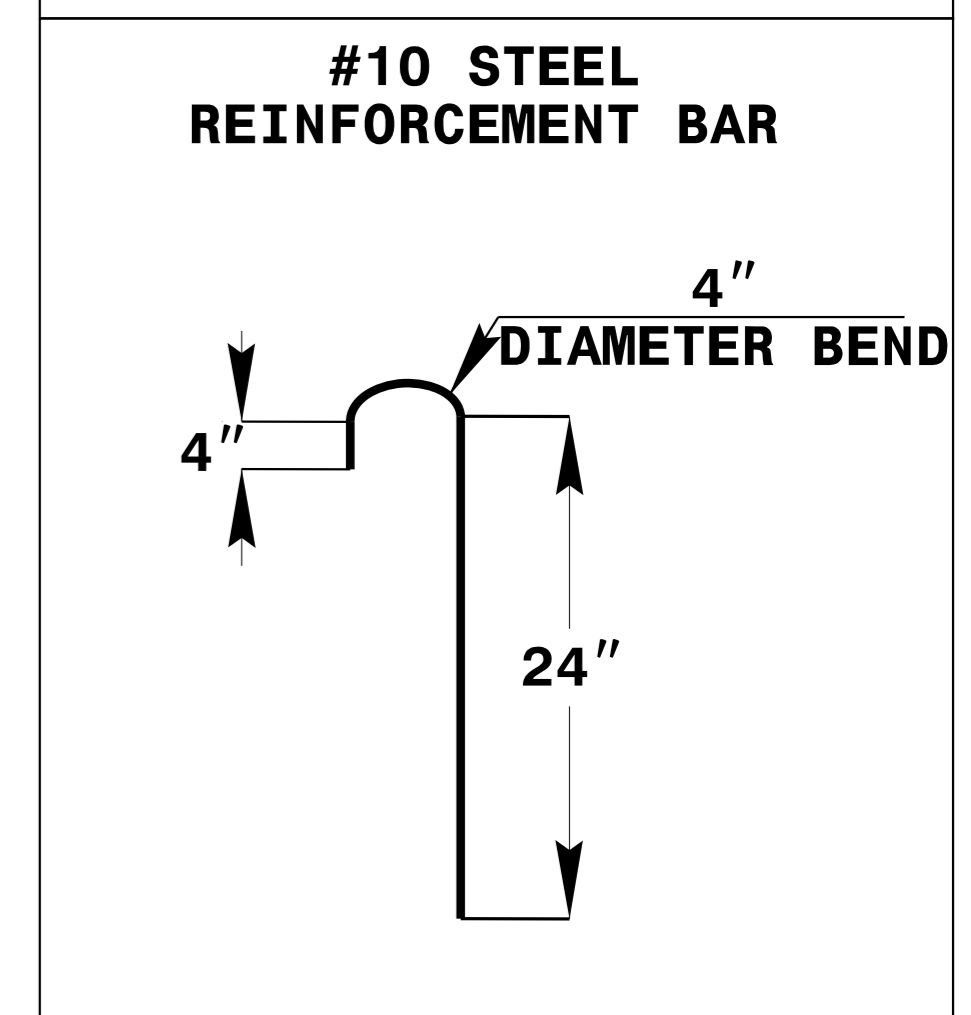
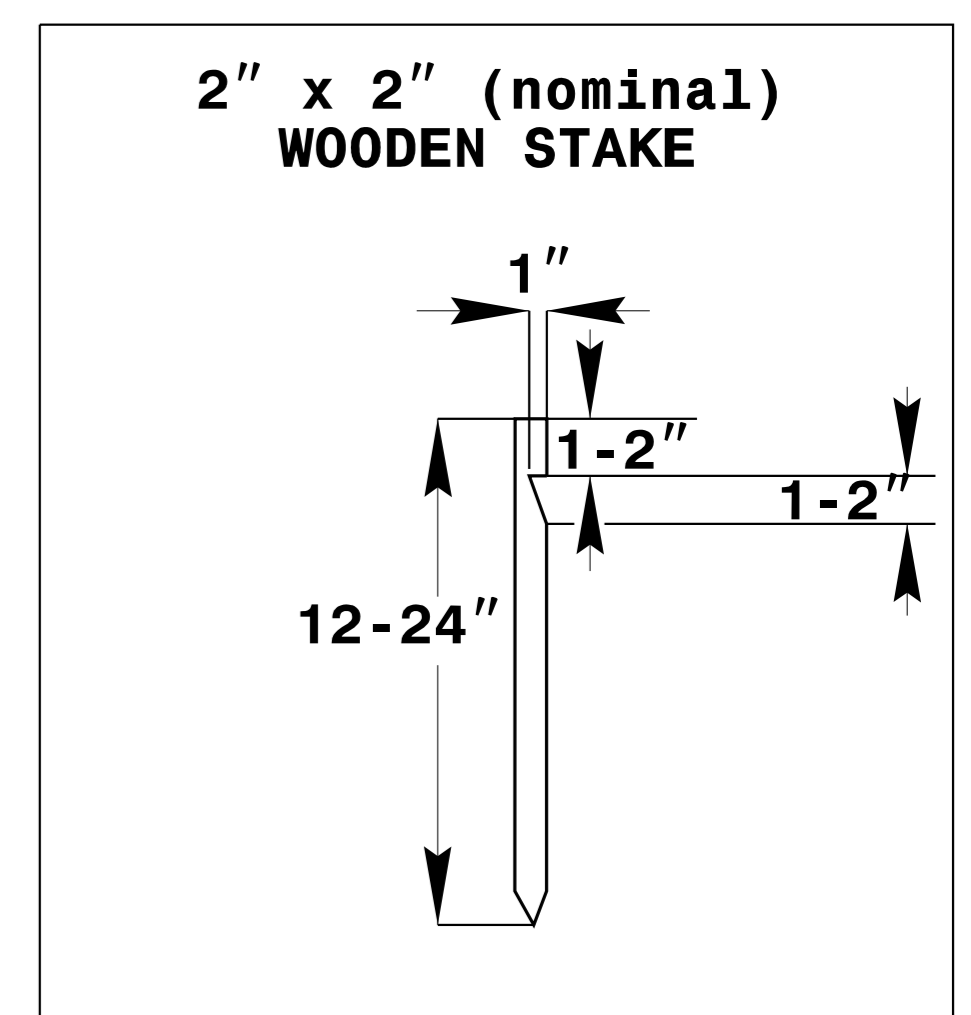
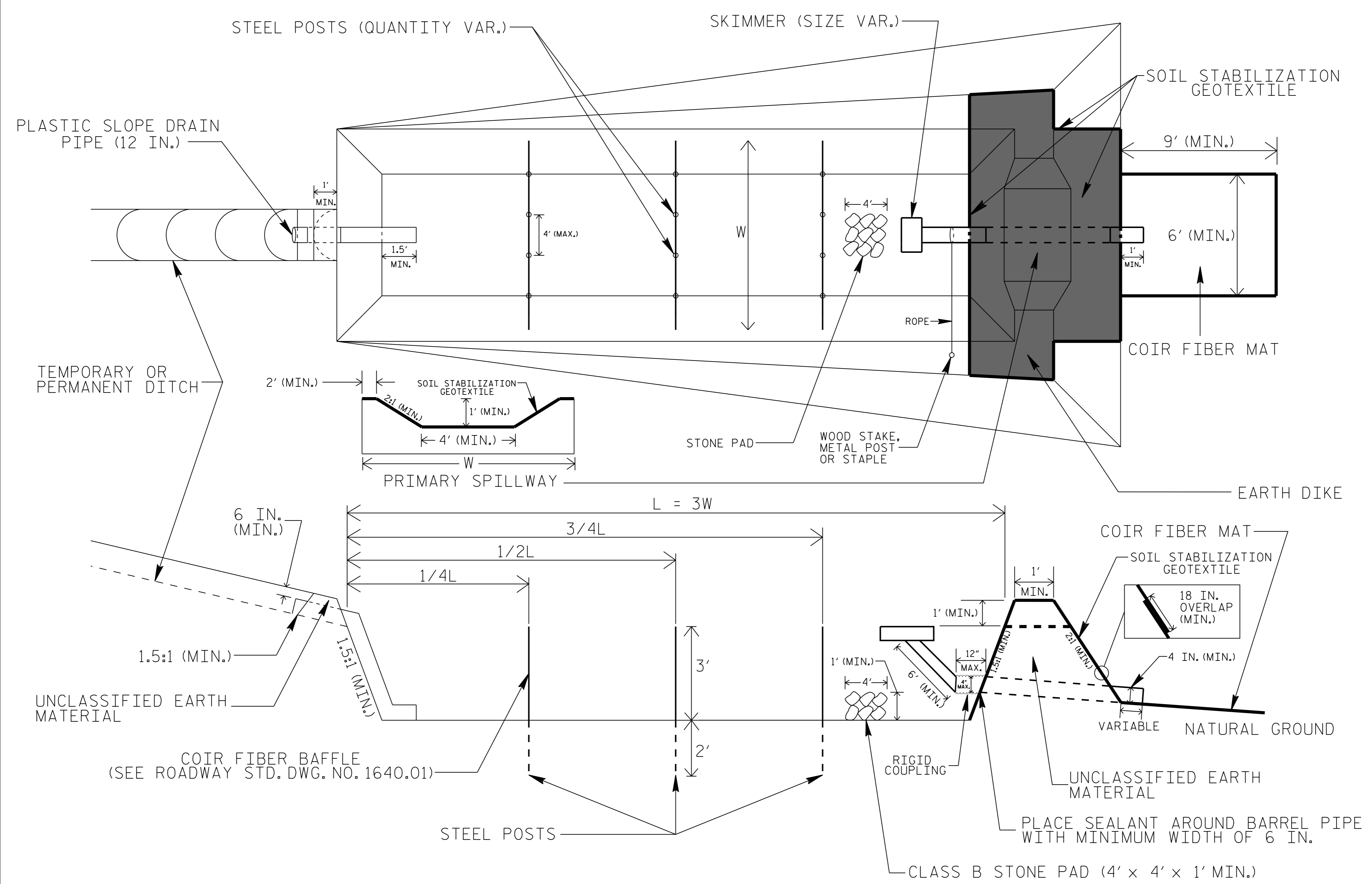
Designed by:
VANCE BLANTON 3708
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

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\$DATE\$

PROJECT REFERENCE NO. I-5700	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

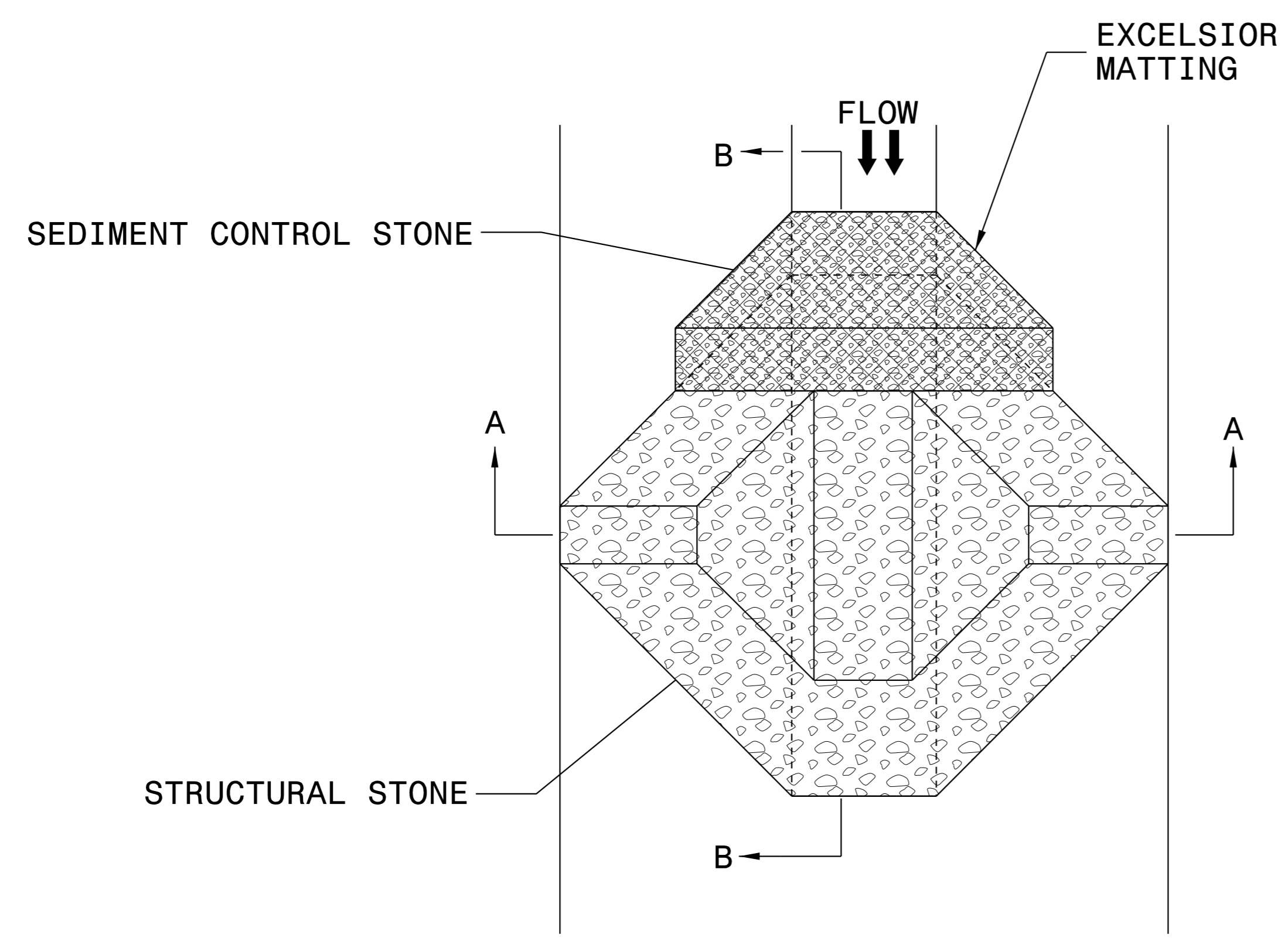
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

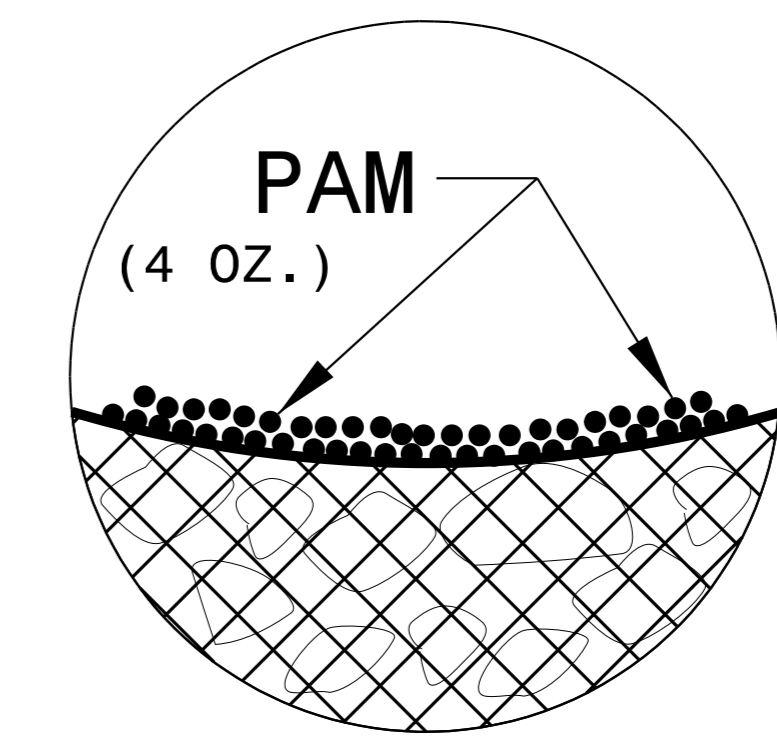
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

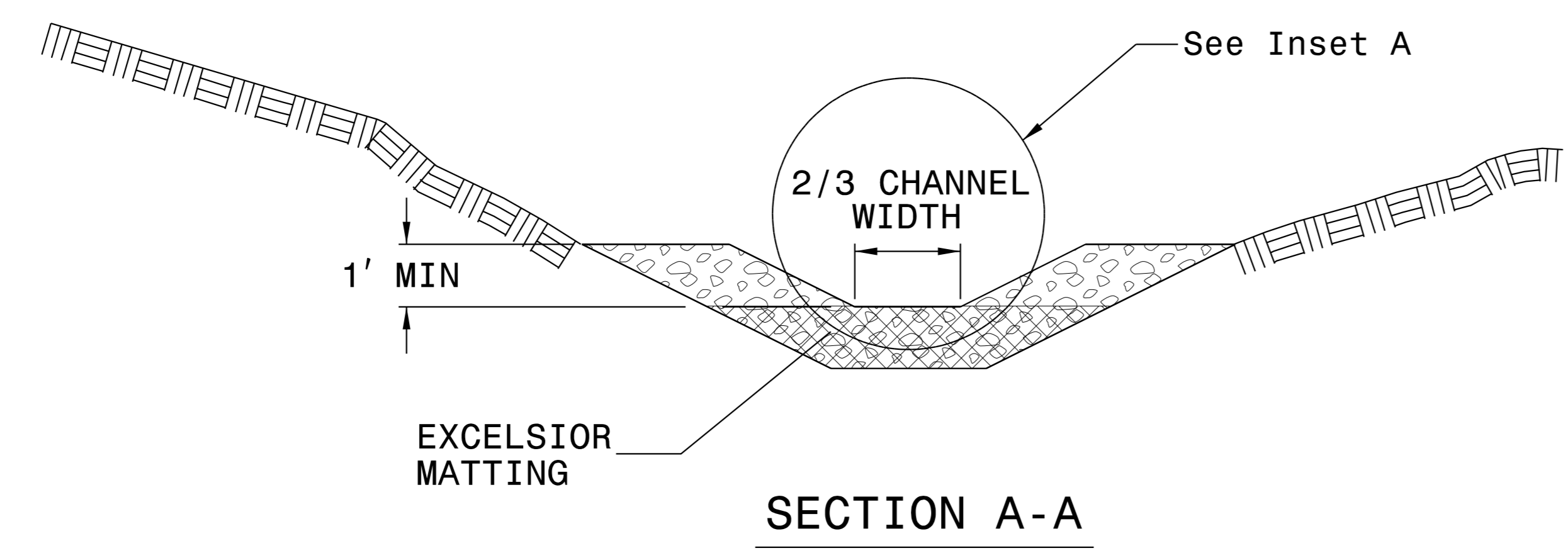
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



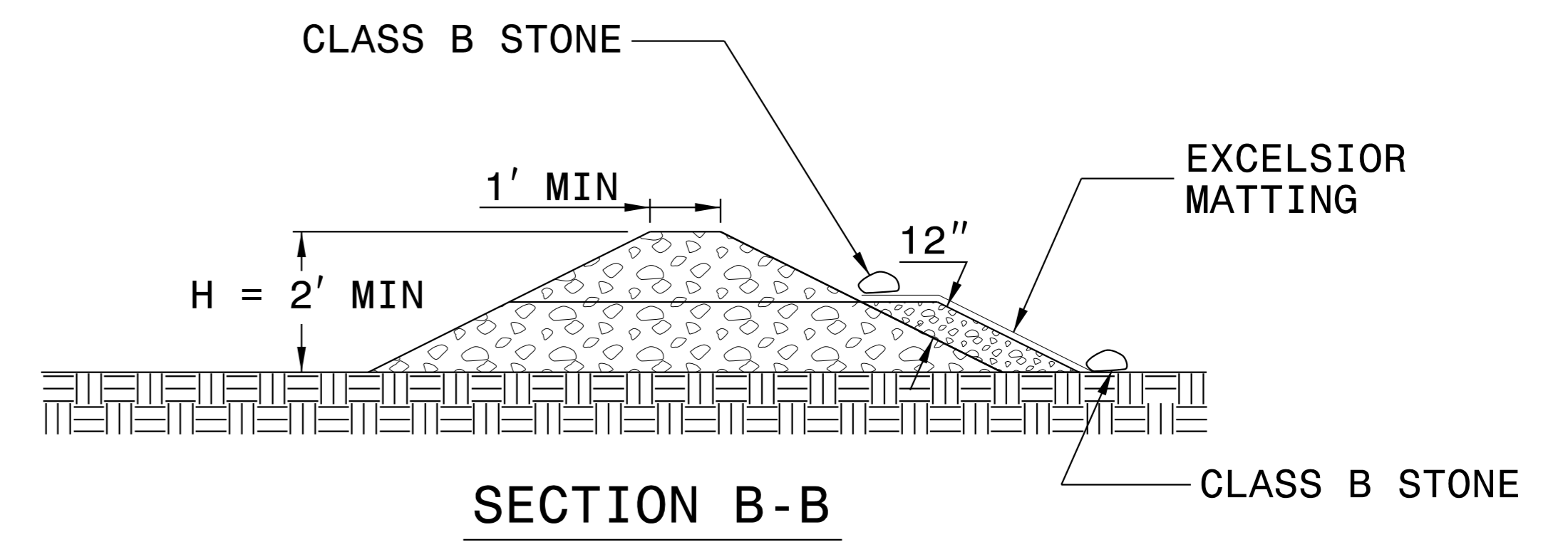
PLAN



INSET A



SECTION A-A



SECTION B-B

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Kimley»Horn
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P.O. BOX 33068 • RALEIGH, N.C. 27636-3068

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
SLOPES:					RT/LT
4	-L-	20+13	20+52	LT	25
4/5	-L-	23+20	27+00	LT	1420
5	-L-	27+25	27+85	LT	50
5	-L-	28+98	29+56	RT	15
5	-L-	30+20	35+75	LT	695
5/6	-L-	35+00	37+79	LT	855
5/6	-L-	35+75	37+25	RT	75
6/7	-L-	49+60	56+48	RT	2780
7	-L-	53+75	57+25	LT	1840
7	-L-	58+50	61+43	RT	570
7	-L-	59+05	61+00	LT	285
6	-RPA-	18+25	20+91	RT	1160
9	-Y-	36+00	38+00	LT	220
9/10	-Y-	41+00	45+00	LT	1640
10	-Y-	48+00	51+50	LT	675
10	-Y-	48+50	49+39	RT	290
6	-Y-	58+00	65+20	LT	6280
6	-Y-	60+50	65+00	LT	1625
6	-Y-	68+15	73+00	LT	1045
6	-Y-	73+67	74+64	RT	265
6	-Y-	75+15	77+74	RT	380
6	-Y-	79+00	79+50	LT	40
11/12	-Y-	81+37	102+00	RT	9635
12/13	-Y-	102+50	112+50	RT	4000
14	-Y3-	17+00	22+50	LT	1345
14	-Y3-	19+50	21+25	RT	380
7/14	-Y3-	25+00	30+53	LT	3185
14	-Y3-	25+00	26+00	RT	295
7/14	-Y3-	26+00	28+50	RT	585

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
SLOPES:					RT/LT
7	-Y3-	28+50	30+53	RT	745
SUBTOTAL					42400
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					4000
TOTAL					46400
SAY					46500
DITCHES:					
4	-L-	22+25	23+00	LT	65
5	-L-	33+50	33+82	RT	35
7	-L-	50+50	51+50	LT	230
7	-Y3-	26+50	28+25	RT	360
14	-Y8-	19+00	20+25	LT	240
14	-Y8-	20+50	21+20	RT	185
14	-Y3-	15+50	21+50	LT	1015
10	-Y-	47+50	51+50	LT	680
13	-Y-	105+95	112+34	RT	1080
12	-Y-	102+50	105+95	RT	585
6	-Y-	69+25	70+50	RT	395
6	-RPA-	15+95	19+50	LT	1225
6	-L-	53+50	57+50	LT	1655
6	-RPB-	17+05	17+93	LT	85
6	-RPD&SPUR-	10+00	11+25	LT	135
6	-L-	57+50	61+00	RT	530
6	-Y-	68+70	70+80	LT	355
6	-Y-	102+50	105+95	RT	585
6	-L-	55+00	56+45	LT	245
6	-Y-	68+00	68+50	LT	40
6	-RPB-	16+01	18+45	LT	405

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
<i>DITCHES:</i>					
6	-RPC-	14+30	16+03	LT	320
6	-RPD-	22+00	23+00	LT	60
6	-RPB-	18+45	21+50	LT	515
6	-RPC-	16+03	17+25	LT	215
6	-RPC-	17+50	19+50	LT	430
6	-RPD-	19+50	21+00	LT	390
6	-RPC-	20+30	22+50	LT	185
6	-RPD-	22+50	23+79	RT	445
6	-L-	61+33	64+25	LT	1055
6	-RPC-	19+50	20+30	LT	155
6	-RPD-	23+79	24+80	LT	130
6	-RPB-	18+45	21+50	LT	410
6	-Y-	70+50	72+50	LT	430
6	-RPD-	17+62	18+07	LT	235
6	-RPD-	24+80	27+00	RT	145
6	-RPB-	13+00	14+00	LT	360
6	-RPB-	14+00	14+50	LT	190
6	-RPB-	17+93	18+45	LT	50
6	-RPD-	16+60	17+62	LT	535
6	-RPD-	21+00	22+00	LT	275
6	-RPD-	23+00	23+90	LT	95
6	-RPASPUR/RPA-	11+45	17+45	RT	690
7	-Y3-	29+10	29+75	RT	90
7	-Y3-	29+00	29+75	LT	175
7	-L-	49+97	50+50	LT	125
12	-Y-	99+65	100+37	RT	40
14	-Y3-	18+50	21+25	RT	465
14	-Y3-	21+50	23+50	LT	340
14	-Y8-	20+25	20+65	LT	40

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
					SUBTOTAL
					18720
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				2000
					TOTAL
					20720
					SAY
					21000

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