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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

**HELENE
EMERGENCY REPAIRS**

COUNTY HENDERSON

PROJECT DESCRIPTION 1 SITE ON HEBRON RD



DocuSigned by:
J. Dean Hardister
6E970DAF0D0D403...

11/22/2024

SIGNATURE

DATE

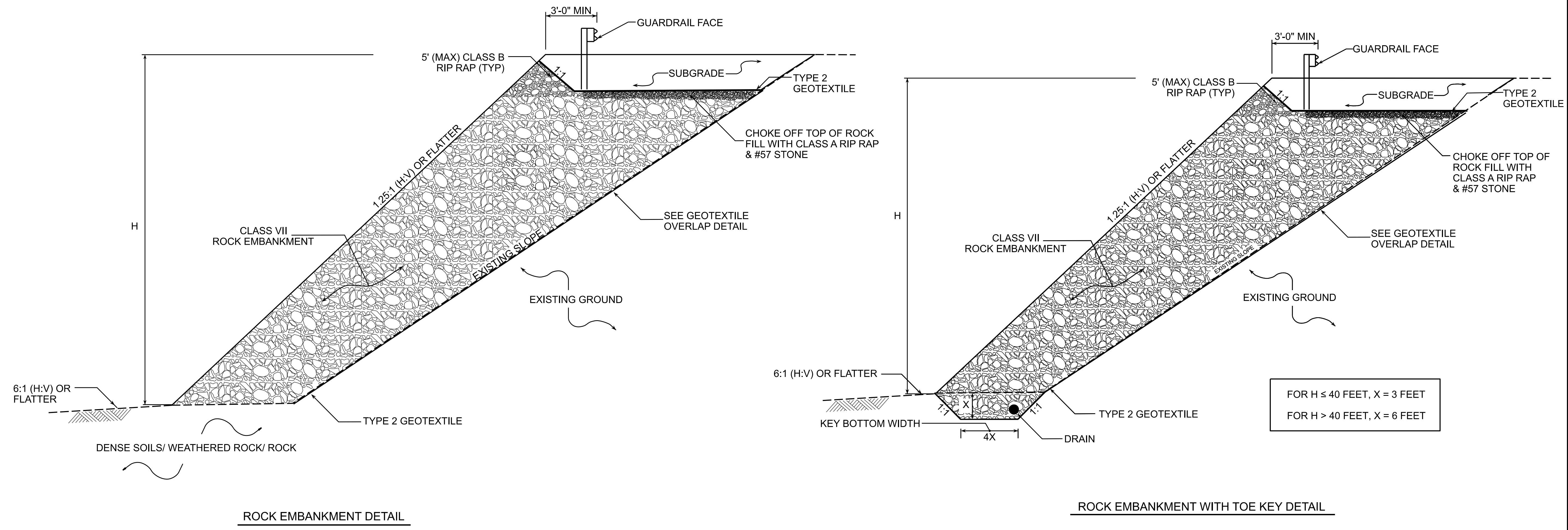
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UNLESS ALL SIGNATURES COMPLETED

ROUTE	SITE #	SITE LATITUDE	SITE LONGITUDE	REPAIR OPTION 1	REPAIR OPTION 2	REPAIR OPTION 3
SR-2155 Hebron Rd	499	35.30434427	-82.51423719	Clean Failed Slope Material. 1.25:1 Rock Embankment with Toe Key		

CONTRACT: DN01085

WHEN MULTIPLE REPAIR OPTIONS ARE AVAILABLE AT A SITE LOCATION, THE CONTRACTOR SHALL PROCEED IN SEQUENTIAL ORDER AND CHOOSE THE FIRST OPTION THAT FITS WITHIN SITE CONSTRAINTS

PRIOR TO CONSTRUCTING THE GEOTECHNICAL REPAIRS, AN ON-SITE MEETING WITH THE PRIME CONTRACTOR, THE GEOTECHNICAL SPECIALTY SUBCONTRACTOR (IF APPLICABLE), THE DIVISION CONSTRUCTION REPRESENTATIVE AND THE GEOTECHNICAL OPERATIONS GROUP REPRESENTATIVE SHALL BE CONDUCTED

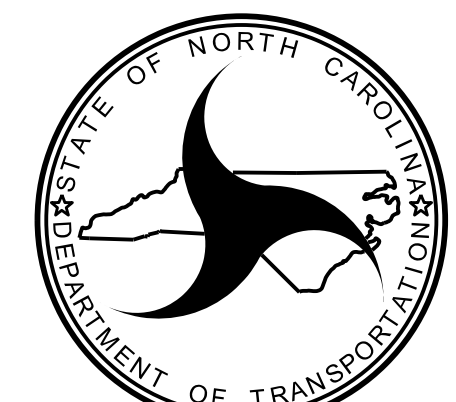


- NOTES:**
1. THE MAXIMUM ALLOWABLE HEIGHT FOR THE ROCK EMBANKMENT DETAIL IS 80'.
 2. FOR ROCK EMBANKMENT, BENCH EXISTING SLOPE IN ACCORDANCE WITH SECTION 235 OF THE STANDARD SPECIFICATIONS, WHERE POSSIBLE.

CONTRACT NO.: DN01085

PREPARED BY: DP	DATE: 10/24
REVIEWED BY:	DATE:

DO NOT USE THESE DETAILS UNLESS DIRECTED BY THE ENGINEER


 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

HURRICANE HELENE EMERGENCY REPAIRS					
ROCK EMBANKMENT					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. 1 OF 1

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN MP	END MP	0314000000-E	0222000000-E	1077000000-E	3642000000-E	3649000000-E	8834000000-N		8839000000-E
								SELECT MATERIAL CLASS VII	GEOTEXTILE FOR ROCK EMBANKMENTS	#57 STONE	RIP RAP, CLASS A	RIP RAP, CLASS B	MICROPILE, AVG LENGTH (10')	MICROPILE PROOF TEST	MICROPILE LENGTH, BEYOND AVG
				MI	FT			TON	SY	TON	TON	TON	EA	EA	LF
18314.1045046	Henderson	1	SR-1171 / FINLEY COVE RD	0.08	18	5.5	5.58								
TOTAL FOR MAP NO. 1				0.08											
TOTAL FOR PROJ NO. 18314.1045046				0.08											
18314.1045118	Henderson	2	SR-2155 / HEBRON RD	0.08	18	0.2	0.28	2,000	2,350	300	300	300	75.00	4.00	40.00
TOTAL FOR MAP NO. 2				0.08				2,000	2,350	300	300	300	75.00	4.00	40.00
TOTAL FOR PROJ NO. 18314.1045118				0.08				2,000	2,350	300	300	300	75.00	4.00	40.00
												79.00			
GRAND TOTAL				0.16				2,000	2,350	300	300	300	75.00	4.00	40.00
												79.00			

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN MP	END MP	0000400000-N	0043000000-N	0106000000-E	0156000000-E	0335000000-E		0996000000-N	1220000000-E	2556000000-E	6138000000-E
								CONSTRUCTION SURVEYING	GRADING	BORROW	REMOVAL OF EXISTING ASPHALT PAVEMENT	24" DRAINAGE PIPE	42" DRAINAGE PIPE	PIPE CLEAN OUT	INCIDENTAL STONE BASE	SHOULDER BERM GUTTER	DEBRIS REMOVAL
								LS	LS	CY	SY	LF	LF	EA	TONS	LF	CY
18314.1045046	Henderson	1	SR-1171 / FINLEY COVE RD	0.08	18	5.5	5.58	0.50	0.50	23,500	1,600.00	100.00	80.00	1.00	500	750	150
TOTAL FOR MAP NO. 1				0.08				0.50	0.50	23,500	1,600.00	100.00	80.00	1.00	500	750	150
TOTAL FOR PROJ NO. 18314.1045046				0.08				0.50	0.50	23,500	1,600.00	100.00	80.00	1.00	500	750	150
												180.00					
18314.1045118	Henderson	2	SR-2155 / HEBRON RD	0.08	18	0.2	0.28	0.50	0.50		10.00	10.00		2.00	50		
TOTAL FOR MAP NO. 2				0.08				0.50	0.50		10.00	10.00		2.00	50		
TOTAL FOR PROJ NO. 18314.1045118				0.08				0.50	0.50		10.00	10.00		2.00	50		
												10.00					
GRAND TOTAL				0.16				1.00	1.00	23,500	1,610.00	110.00	80.00	3.00	550	750	150
												190.00					

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LENGTH	WIDTH	BEGIN MP	END MP	4400000000-E	4405000000-E	4420000000-N	4424500000-N	4430000000-N	4455000000-N	4465000000-N	4490000000-E	4815000000-E	4815000000-E
									STATIONARY WORK ZONE SIGN	PORTABLE WORK ZONE SIGN	PORTABLE CHANGEABLE MESSAGE SIGN	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	DRUMS	FLAGGER (DAILY)	TEMPORARY CRASH CUSHIONS	PORTABLE CONCRETE BARRIER (ANCHORED)	6" WHITE PAINT	6" YELLOW PAINT
									SF	SF	EA	EA	EA	MD	EA	LF	LF	LF
18314.1045046	Henderson	1	SR-1171 / FINLEY COVE RD	2	0.08	18	5.5	5.58	64	64	2		50				2,000	2,000
TOTAL FOR MAP NO. 1					0.08				64	64	2		50				2,000	2,000
TOTAL FOR PROJ NO. 18314.1045046					0.08				64	64	2		50				2,000	2,000
18314.1045118	Henderson	2	SR-2155 / HEBRON RD	2	0.08	18	0.2	0.28	128	64	2	1	20	10	2	225	100	100
TOTAL FOR MAP NO. 2					0.08				128	64	2	1	20	10	2	225	100	100
TOTAL FOR PROJ NO. 18314.1045118					0.08				128	64	2	1	20	10	2	225	100	100
GRAND TOTAL					0.16				192	128	4	1	70	10	2	225	2,100	2,100

SUMMARY OF QUANTITIES

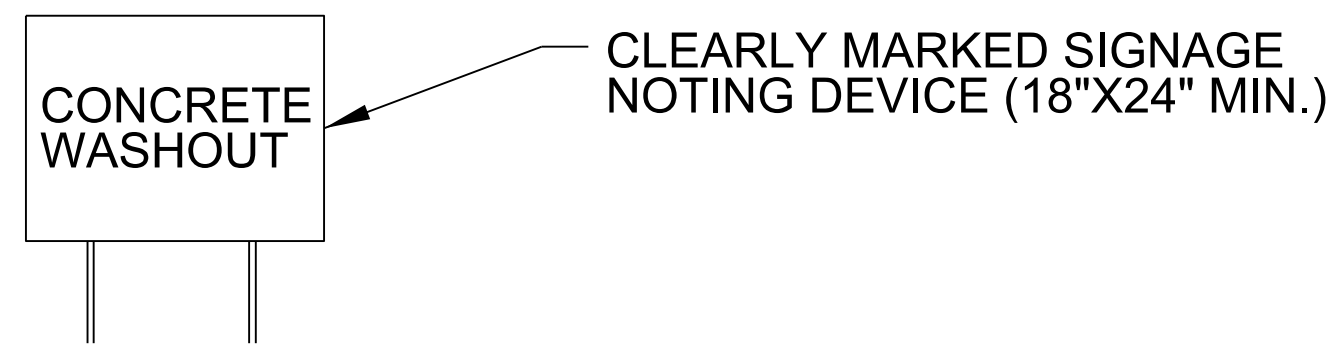
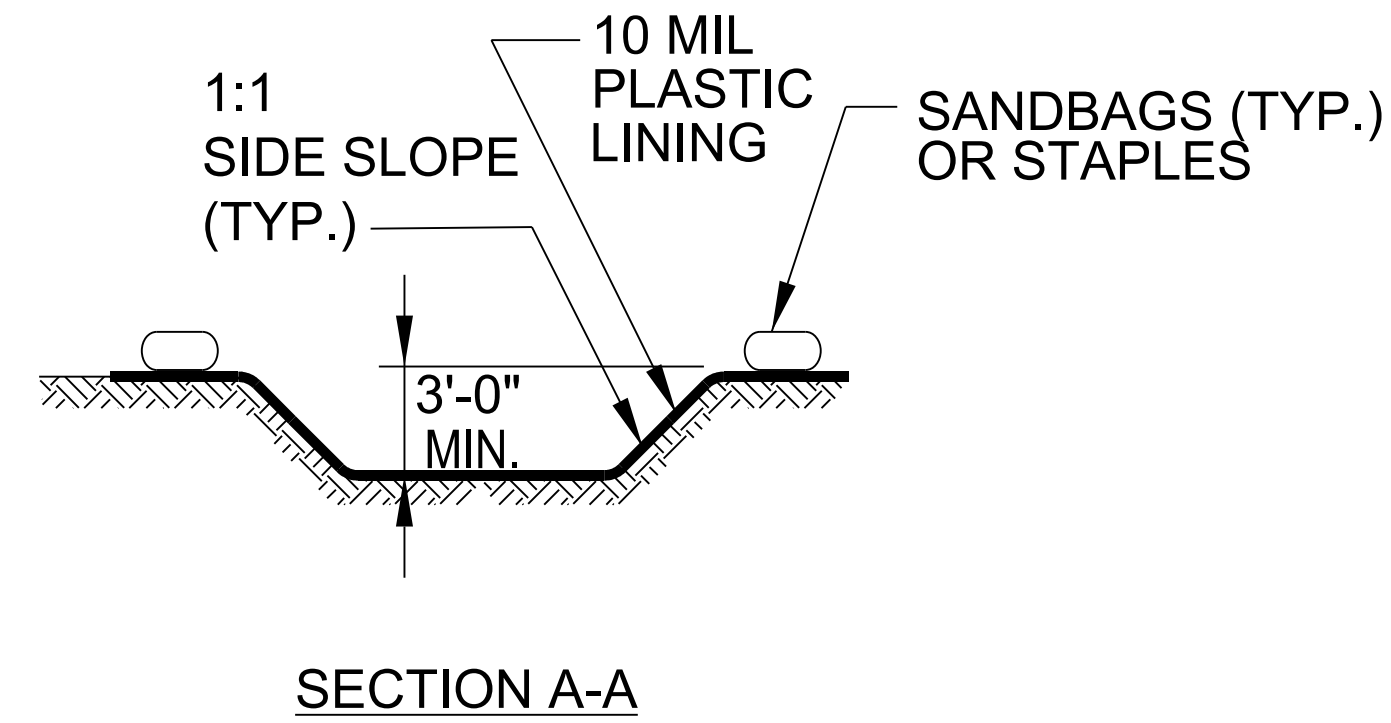
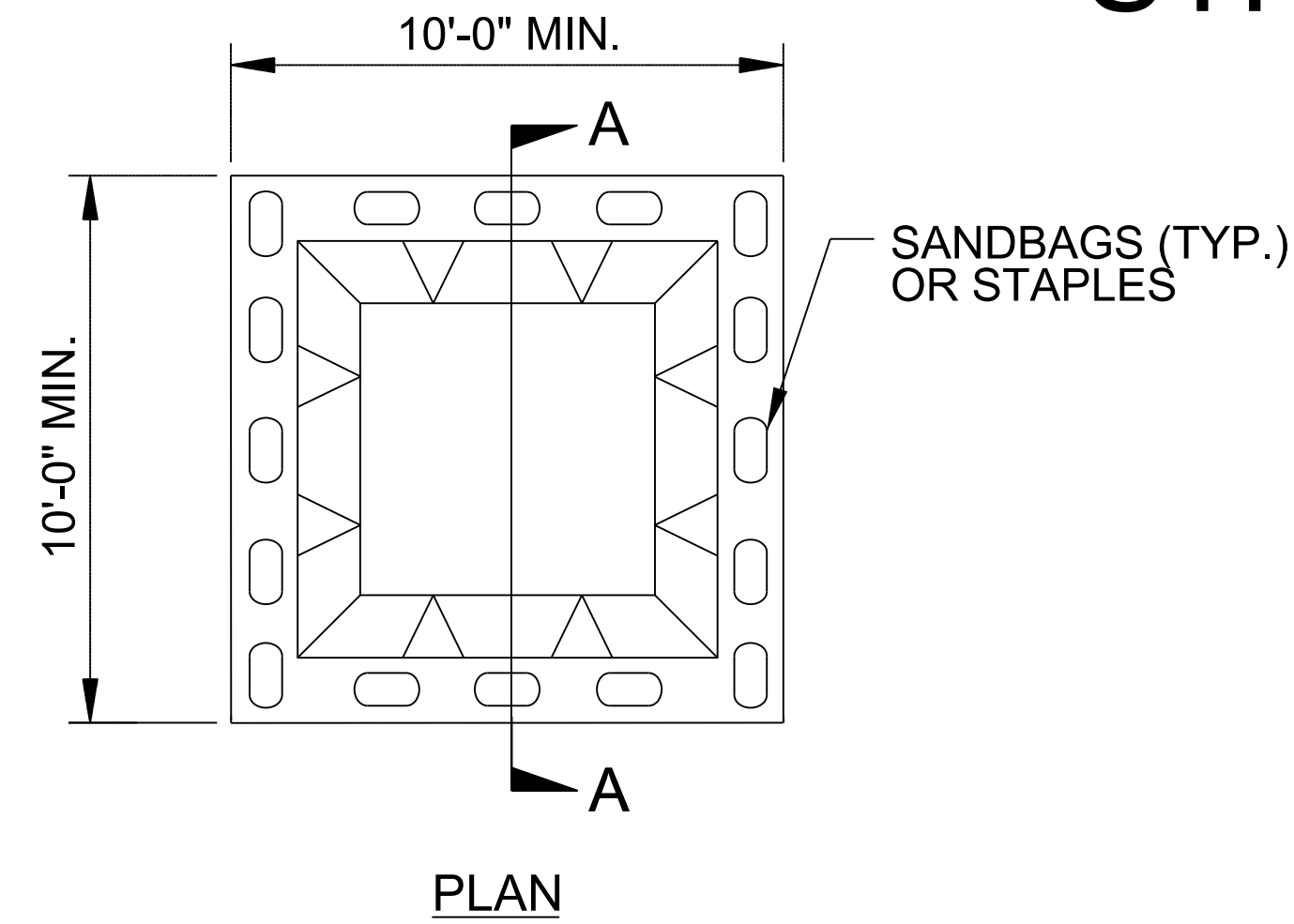
PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN MP	END MP	1491000000-E	1523000000-E	1575000000-E
				MI	FT			BASE COURSE, B25.0C	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX
								TONS	TONS	TONS
18314.1045046	Henderson	1	SR-1171 / FINLEY COVE RD	0.08	18	5.5	5.58	700	280	48
TOTAL FOR MAP NO. 1				0.08				700	280	48
TOTAL FOR PROJ NO. 18314.1045046				0.08				700	280	48
18314.1045118	Henderson	2	SR-2155 / HEBRON RD	0.08	18	0.2	0.28	80	48	6
TOTAL FOR MAP NO. 2				0.08				80	48	6
TOTAL FOR PROJ NO. 18314.1045118				0.08				80	48	6
GRAND TOTAL				0.16				780	328	54

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN MP	END MP	6000000000-E	6006000000-E	6009000000-E	6012000000-E	6029000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6117000000-N	6117500000-N
				MI	FT			TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS A	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	SAFETY FENCE	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE
				LF	TON	TON	TON	LF	SY	LF	LF	AC	EA	EA				
18314.1045046	Henderson	1	SR-1171 / FINLEY COVE RD	0.08	18	5.5	5.58	700	35	35	15		3,600	25	180	2	3	
TOTAL FOR MAP NO. 1				0.08				700	35	35	15		3,600	25	180	2	3	
TOTAL FOR PROJ NO. 18314.1045046				0.08				700	35	35	15		3,600	25	180	2	3	
18314.1045118	Henderson	2	SR-2155 / HEBRON RD	0.08	18	0.2	0.28	100	100	15	15	100	165	12	25	0.1	2	1
TOTAL FOR MAP NO. 2				0.08				100	100	15	15	100	165	12	25	0.1	2	1
TOTAL FOR PROJ NO. 18314.1045118				0.08				100	100	15	15	100	165	12	25	0.1	2	1
GRAND TOTAL				0.16				800	135	50	30	100	3,765	37	205	2.1	5	1

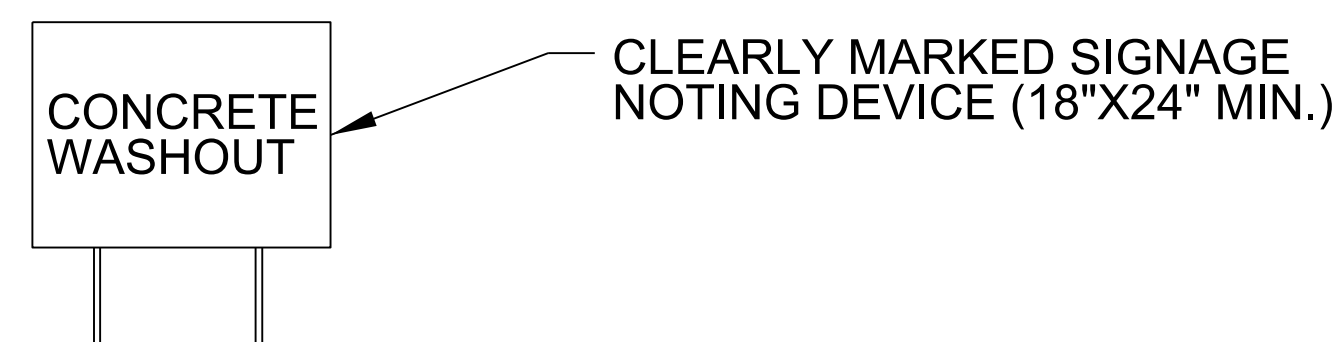
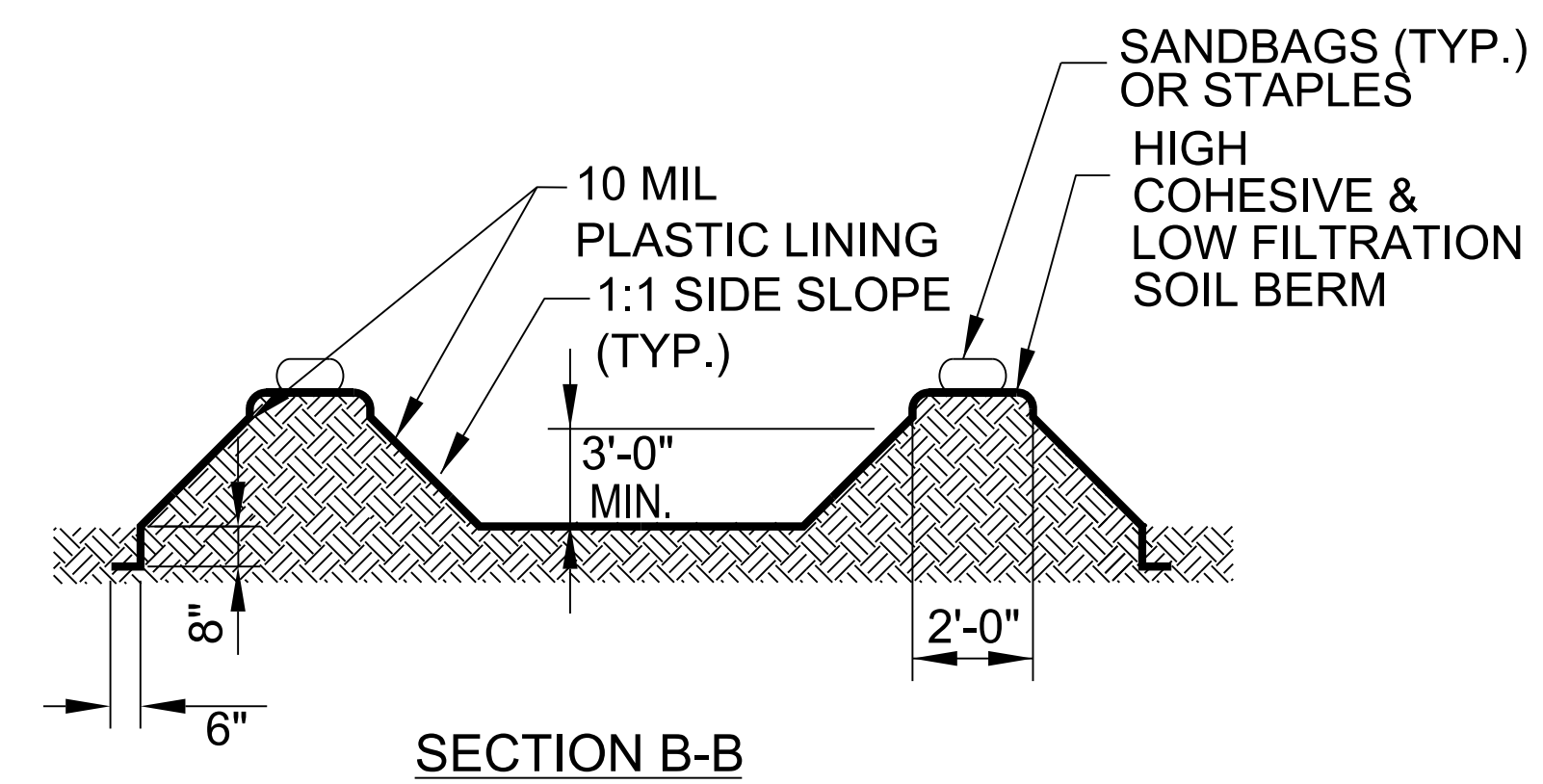
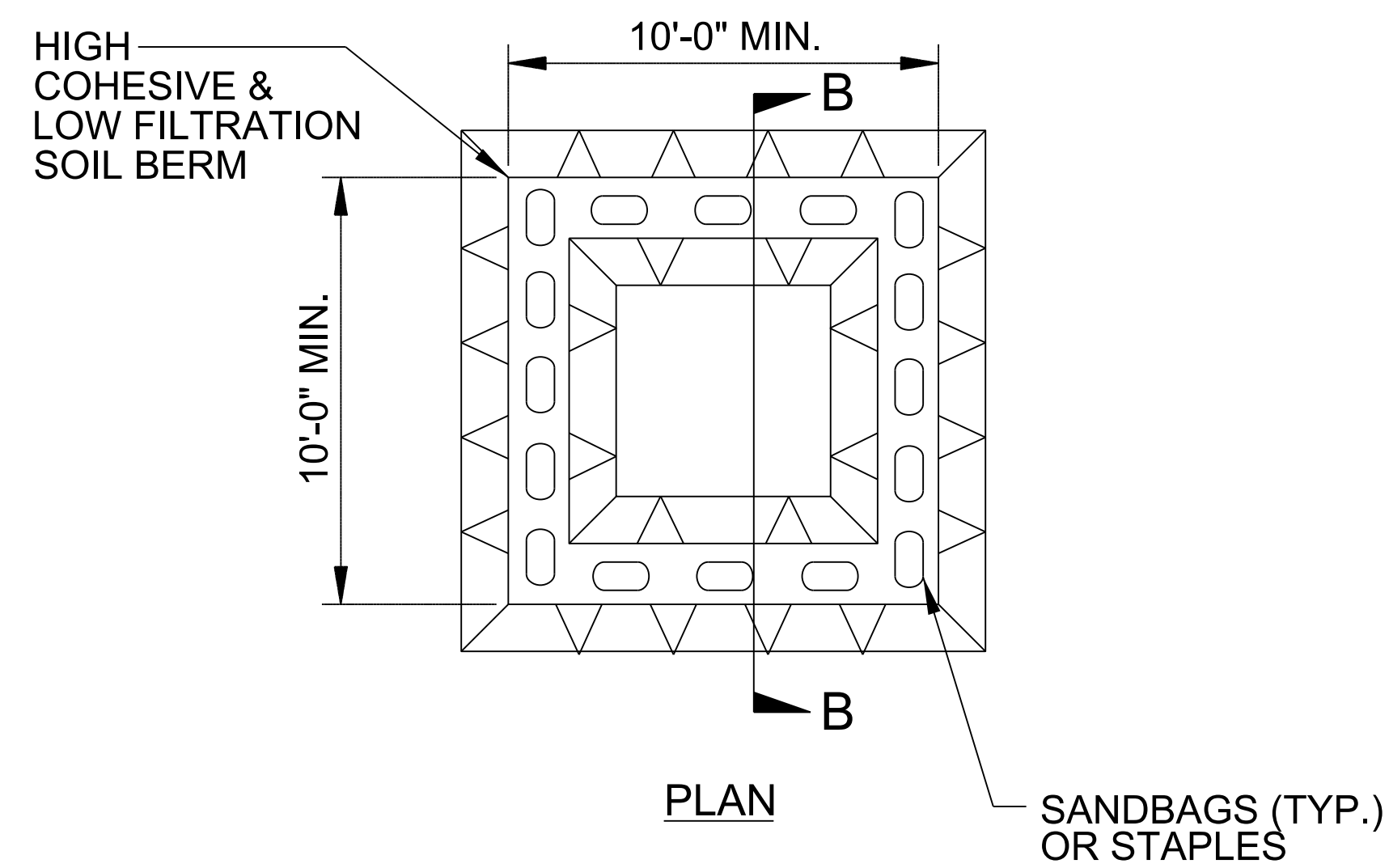
PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-XX
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.