

UTILITY TEST PITS WILL BE SCHEDULED TO LOCATE EXISTING UTILITIES WHERE POTENTIAL CONFLICTS EXIST.

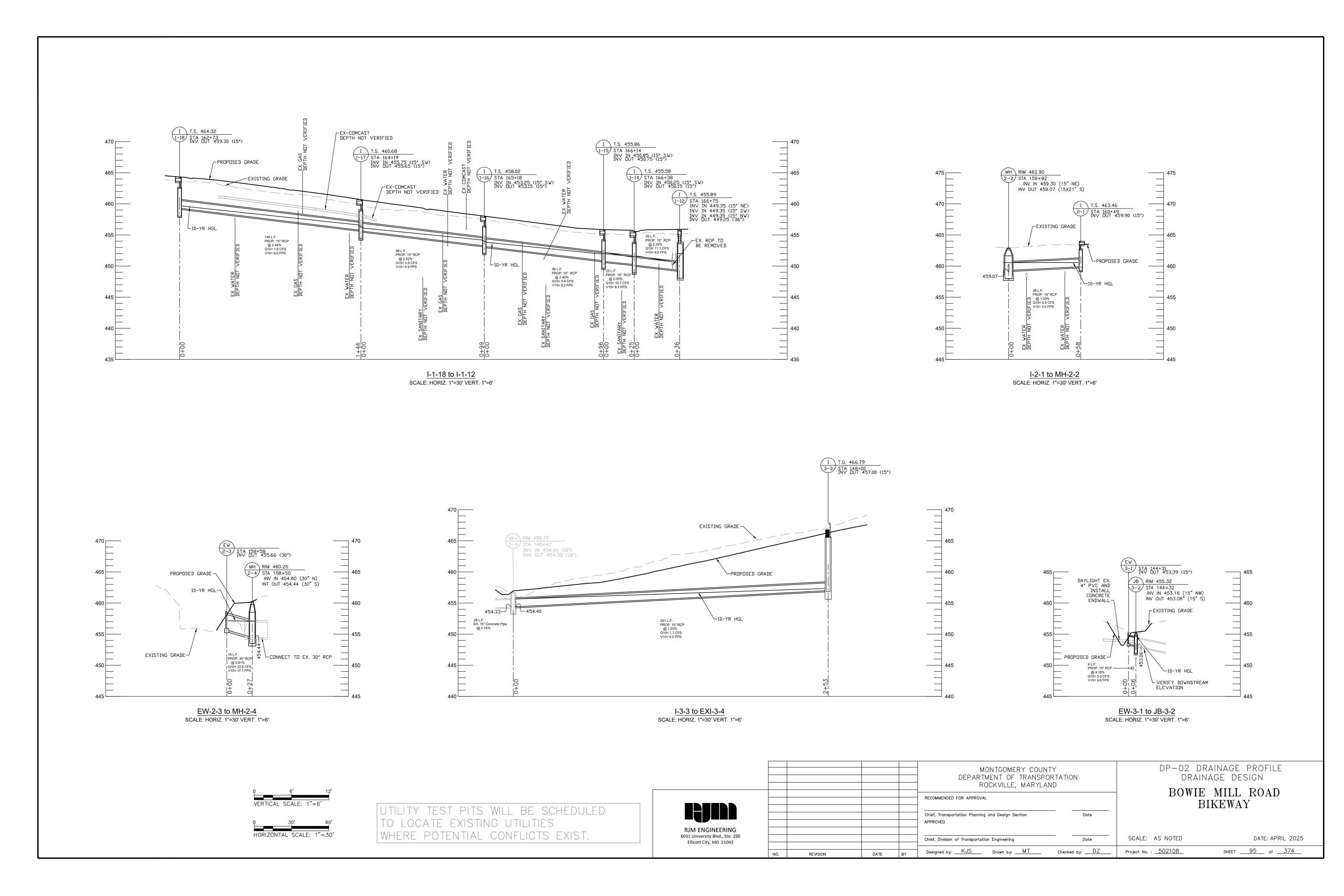
					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
					RECOMMENDED FOR APPROVAL	
					Chief, Transportation Planning and Design Section Date APPROVED	
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering Date	sc
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT Checked by: D2	Z Proje

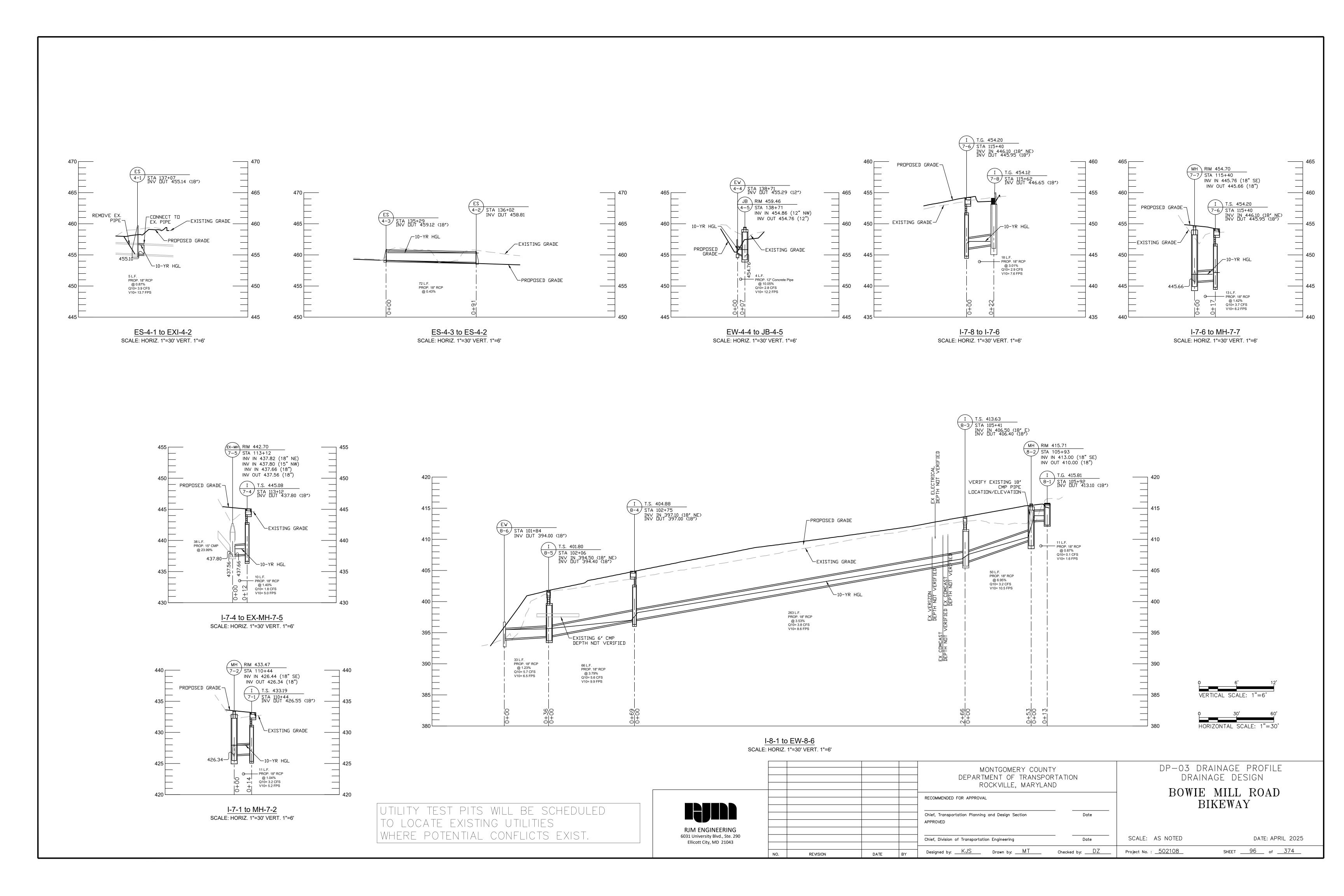
DP-01 DRAINAGE PROFILE DRAINAGE DESIGN

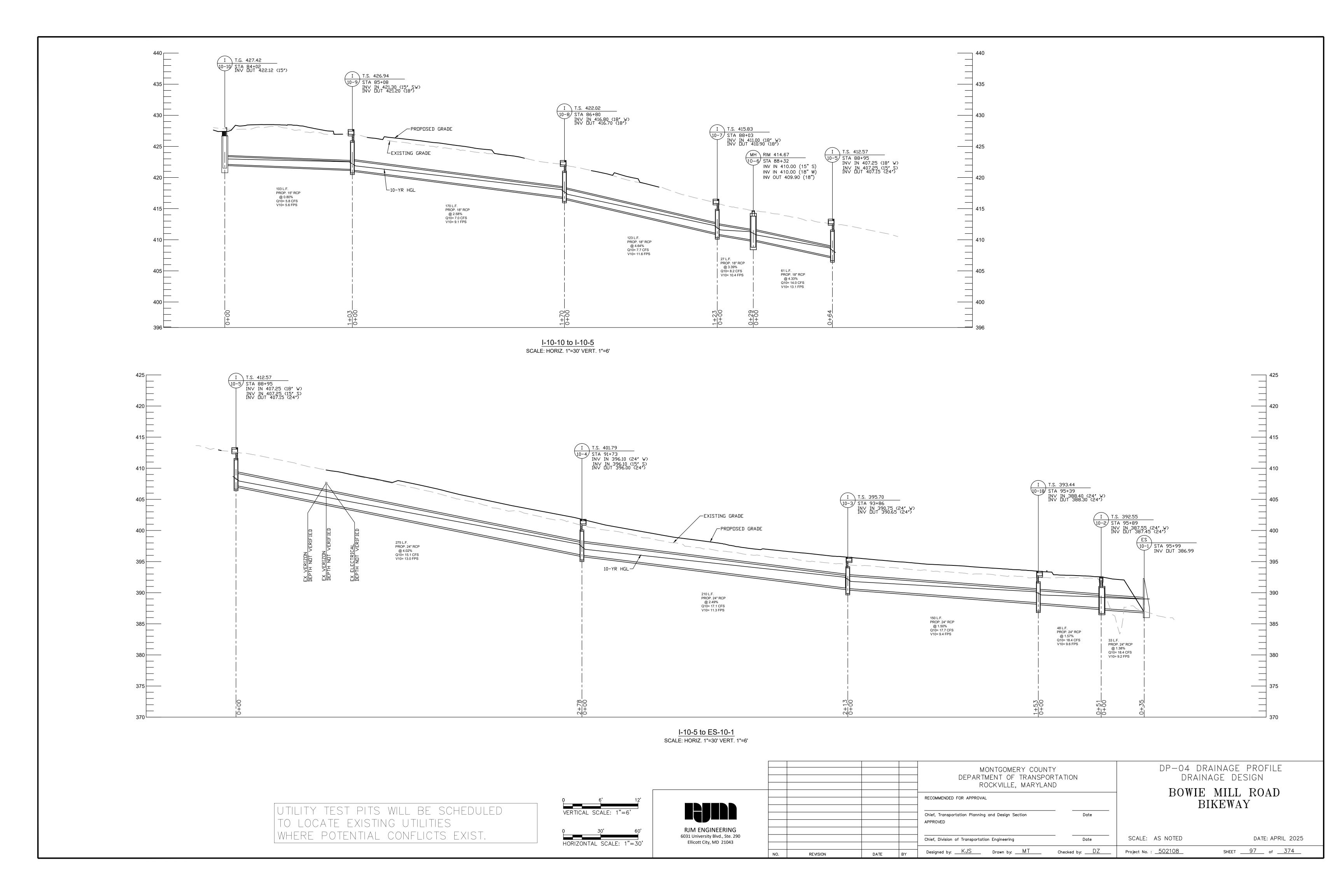
BOWIE MILL ROAD BIKEWAY

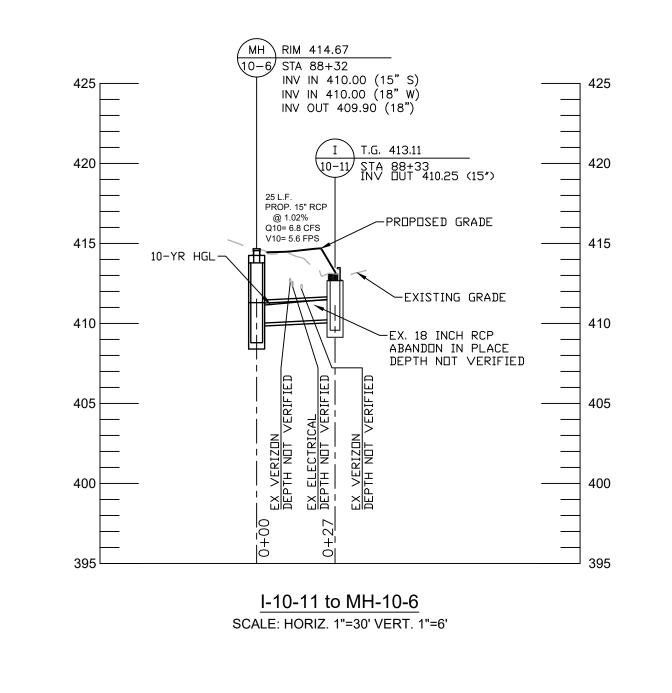
 SCALE: AS NOTED
 DATE: APRIL 2025

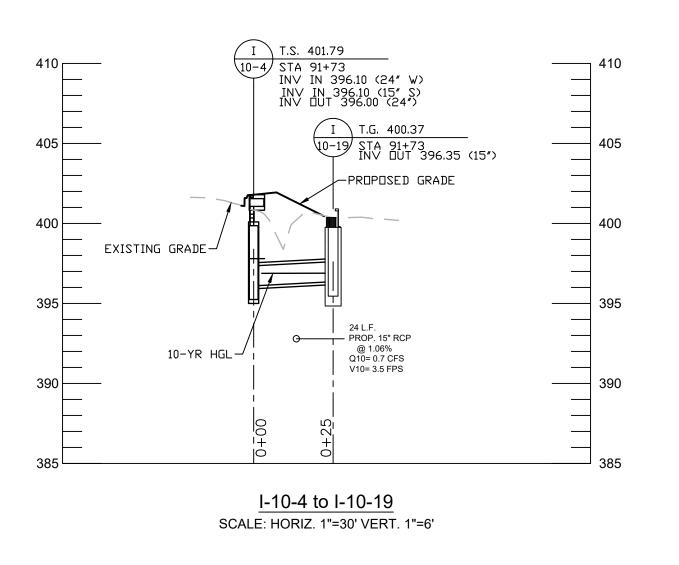
 roject No. : 502108
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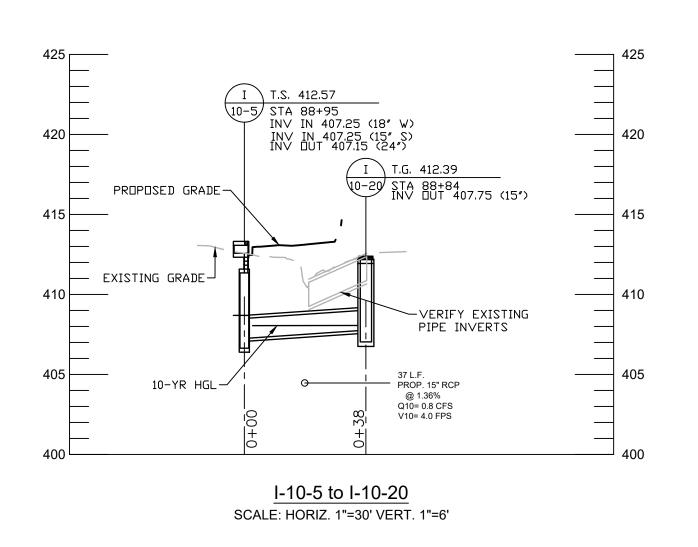


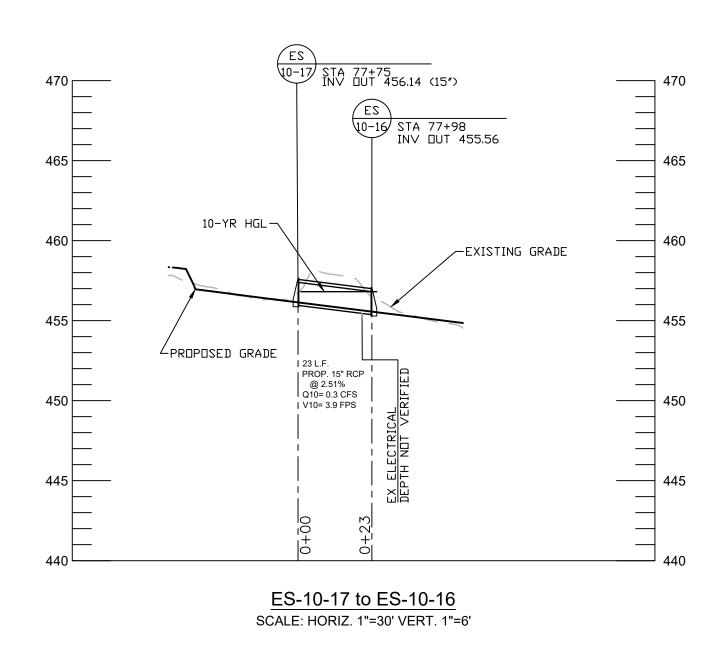


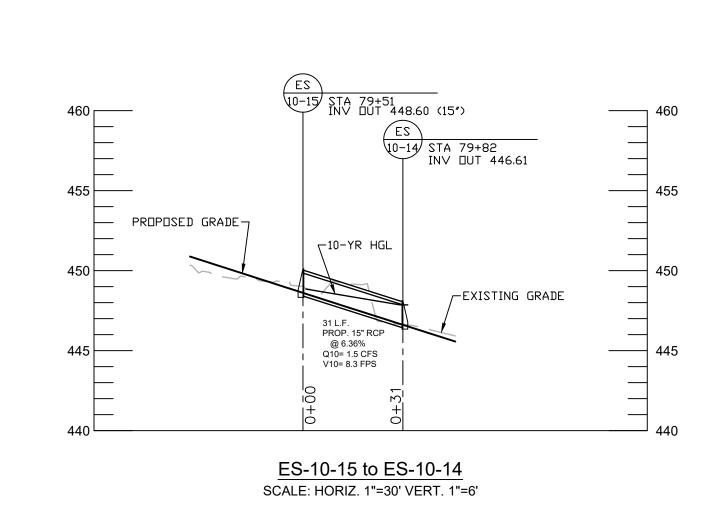


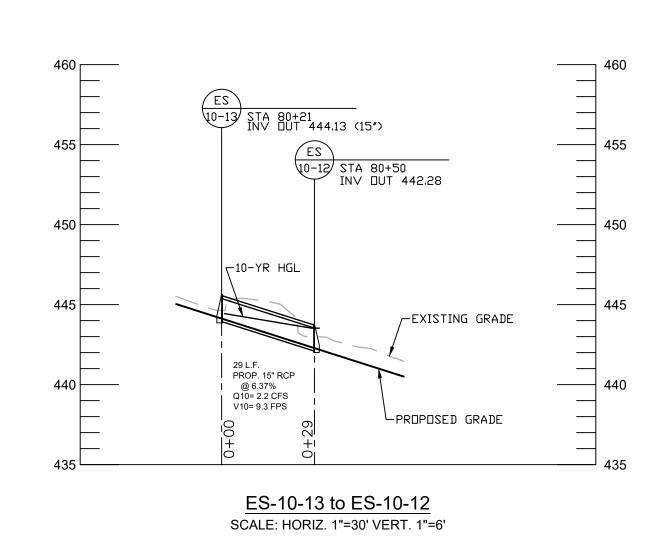




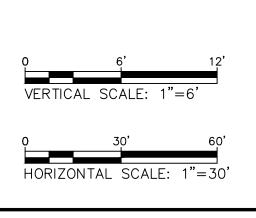








UTILITY TEST PITS WILL BE SCHEDULED TO LOCATE EXISTING UTILITIES WHERE POTENTIAL CONFLICTS EXIST.





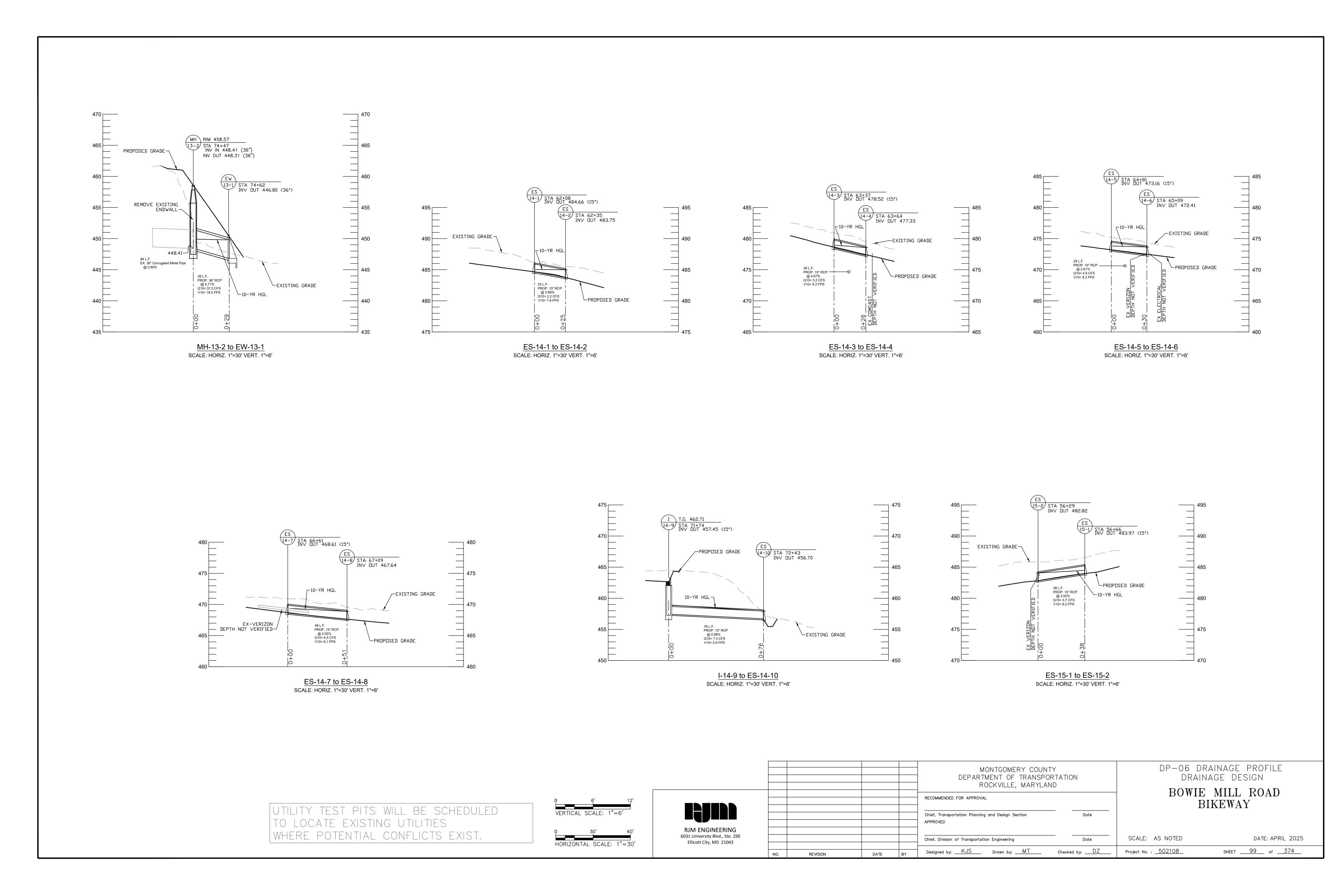
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Transportation Planning and Design Section Date APPROVED	
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NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT Checked by: DZ	Pr

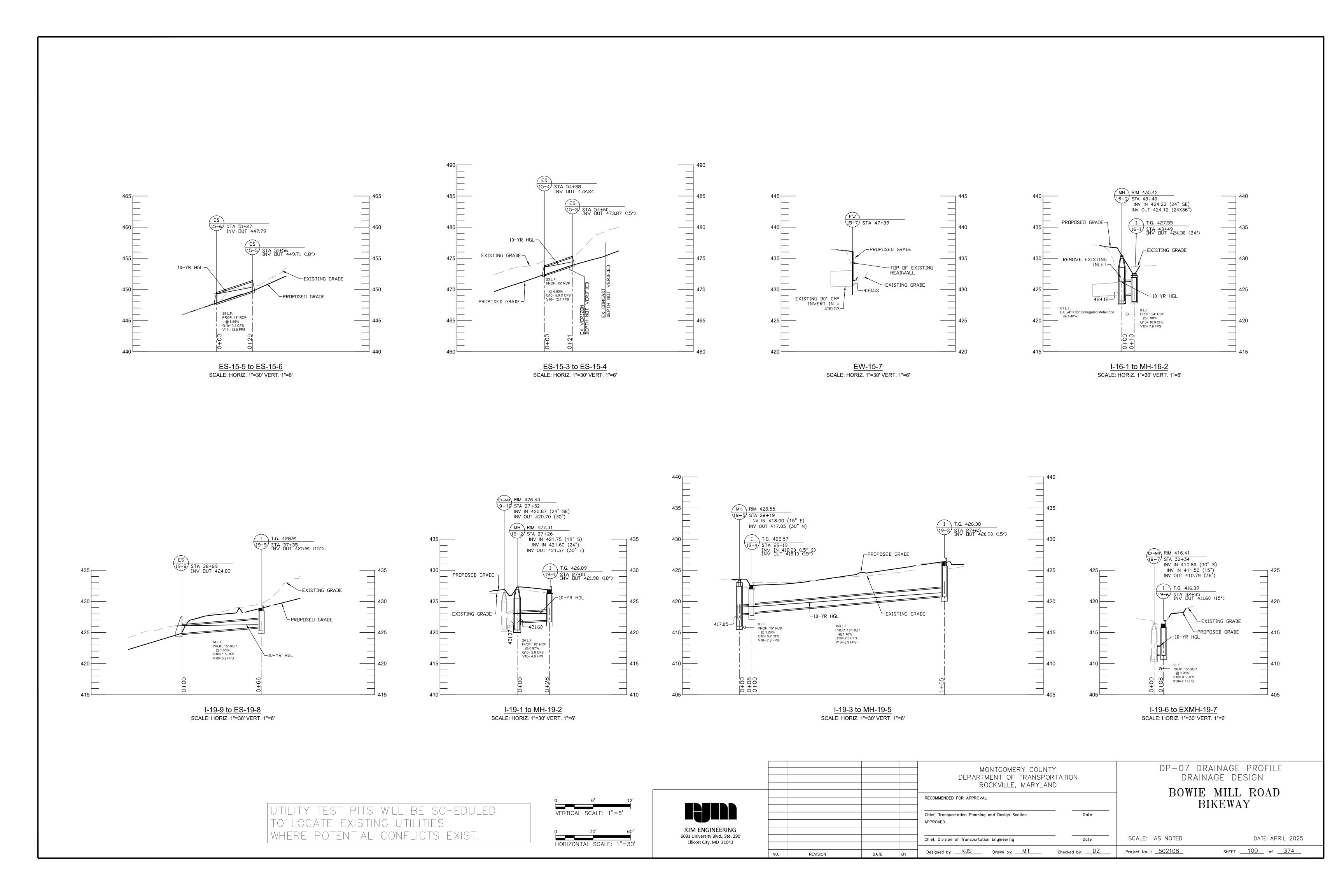
DP-05 DRAINAGE PROFILE DRAINAGE DESIGN

BOWIE MILL ROAD BIKEWAY

 SCALE: AS NOTED
 DATE: APRIL 2025

 Project No. : 502108
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							STRUCTUR	RE SCHEDULE				
STRUCTURE	NORTHING	EASTING	STATION	OFFSET	BASELINE	T.S./RIM ELEV.	STD. NO.	TYPE	CONNECTED PIPES	INVERT IN	INVERT OUT	NOTES
EW-2-3	543484.6	1288332.6	158+57.6	34.8 LT	BOWIEMILLRD	458.61	MD 354.01	ENDWALL	1		455.66'	
I-1-1	544152.2	1289680.5	173+74.4	25.8 LT	BOWIEMILLRD	479.11	MC-502.01	B INLET	1		472.85'	
I-1-2	544094.9	1289625.8	172+93.3	18.6 LT	BOWIEMILLRD	474.11	MC-502.01	B INLET	2	468.60'	468.50'	
I-1-3	544046.6	1289561.3	172+10.8	16.4 LT	BOWIEMILLRD	469.48	MC-502.01	B INLET	2	464.00'	463.85'	
I-1-5	544028.7	1289479.7	171+27.9	40.5 LT	BOWIEMILLRD	467.19	MC-506.01	J INLET	1		461.55'	
I-1-6	543997.8	1289466.7	171+02.2	18.3 LT	BOWIEMILLRD	466.10	MD 374.62	10' COG	2	460.55	460.45'	
I-1-7	543951.9	1289366.4	169+91.9	19.3 LT	BOWIEMILLRD	463.53	MC-502.01	B INLET	2	457.65'	457.55'	
I-1-8	543921.0	1289300.6	169+19.2	19.2 LT	BOWIEMILLRD	461.67	MC-502.01	B INLET	2	455.70'	455.60'	
I-1-9	543887.0	1289228.3	168+39.3	19.0 LT	BOWIEMILLRD	459.42	MC-502.01	B INLET	2	453.60'	453.50'	
I-1-10	543865.3	1289182.8	167+88.9	18.7 LT	BOWIEMILLRD	458.06	MC-502.01	B INLET	2	452.20'	452.10'	
I-1-11	543833.6	1289067.8	166+71.4	38.8 LT	BOWIEMILLRD	456.35	MC-506.01	J INLET	1		449.81	
I-1-12	543815.9	1289079.8	166+74.7	17.6 LT	BOWIEMILLRD	455.89	MD 374.63	5' COS	4	449.35' 449.35' 449.35'	449.25'	
I-1-14	543801.8	1289046.2	166+38.2	19.1 LT	BOWIEMILLRD	455.58	MC-502.01	B INLET	2	450.25	450.15'	
I-1-15	543791.1	1289023.9	166+13.6	18.9 LT	BOWIEMILLRD	455.86	MC-502.01	B INLET	2	450.85	450.75'	
I-1-16	543750.2	1288937.3	165+17.8	18.6 LT	BOWIEMILLRD	458.02	MC-502.01	B INLET	2	453.25	453.15'	
I-1-17	543707.8	1288847.7	164+18.6	18.2 LT	BOWIEMILLRD	460.68	MC-502.01	B INLET	2	455.75	455.65'	
I-1-18	543645.9	1288715.8	162+72.9	18.1 LT	BOWIEMILLRD	464.32	MC-502.01	B INLET	1		459.30'	
I-2-1	543547.0	1288515.2	160+49.4	13.6 LT	BOWIEMILLRD	463.46	MC-502.02	REV. TYPE B	1		459.90'	
MH-1-4	544042.7	1289526.7	171+78.2	30.8 LT	BOWIEMILLRD	468.00	MC-515.01	B MANHOLE	3	461.80'		
MH-1-13	543794.3	1289084.1	166+69.4	3.7 RT	BOWIEMILLRD	455.58	MC-515.01	B MANHOLE	2	448.95'	448.85'	
MH-2-2	543517.0	1288465.6	159+91.7	7.4 LT	BOWIEMILLRD	462.90	MD 384.05	72" MANHOLE	3	459.30'	459.07'	
MH-2-4	543464.1	1288333.6	158+49.8	15.9 LT	BOWIEMILLRD	460.25	MD 384.03	60" MANHOLE	2	454.60'	454.44'	

	STRUCTURE SCHEDULE												
STRUCTURE	NORTHING	EASTING	STATION	OFFSET	BASELINE	T.S./RIM ELEV.	STD. NO.	TYPE	CONNECTED PIPES	INVERT IN	INVERT OUT	NOTES	
ES-4-1	542545.3	1286397.6	137+07.2	25.5 LT	BOWIEMILLRD	459.69	MD 368.01	END SECTION	1		455.14'		
ES-4-2	542493.1	1286306.1	136+01.9	19.0 LT	BOWIEMILLRD	460.61	MD 368.01	END SECTION	1	458.81'			
ES-4-3	542461.5	1286240.9	135+29.5	19.4 LT	BOWIEMILLRD	460.92	MD 368.01	END SECTION	1		459.12'		
EW-3-1	542868.6	1287045.2	144+30.9	32.1 LT	BOWIEMILLRD	455.19	MD 354.01	ENDWALL	1		453.39'		
EW-4-4	542627.4	1286540.3	138+71.3	36.6 LT	BOWIEMILLRD	457.46	MD 354.01	ENDWALL	1		455.29'		
1-3-3	543030.9	1287376.7	147+99.9	32.6 LT	BOWIEMILLRD	466.79	MC-505.01	E-4 INLET	1		457.00'		
I-7-1	541110.3	1284191.6	110+43.8	16.2 LT	BOWIEMILLRD	433.19	MC-502.01	B INLET	1		426.55'		
I-7-4	541233.5	1284430.2	113+12.4	17.2 LT	BOWIEMILLRD	445.08	MC-502.01	B INLET	1		437.80'		
I-7-6	541341.1	1284629.8	115+40.3	15.6 LT	BOWIEMILLRD	454.20	MC-502.01	B INLET	2	446.10'	445.95'		
I-7-8	541352.5	1284647.9	115+61.6	16.3 LT	BOWIEMILLRD	454.12	MC-505.01	E-4 INLET	1		446.65'		
JB-3-2	542863.7	1287048.5	144+31.6	26.2 LT	BOWIEMILLRD	455.32		JUNCTION BOX	2	453.16'	453.06'		
JB-4-5	542622.1	1286542.9	138+71.3	30.8 LT	BOWIEMILLRD	459.46	MD 386.11	JUNCTION BOX	2	454.86'	454.76'		
JB-7-3	541152.9	1284244.1	111+10.0	30.2 LT	BOWIEMILLRD	435.01		JUNCTION BOX	3	430.14'	429.26'		
JB-7-10	541439.2	1284769.3	117+11.2	27.1 LT	BOWIEMILLRD	457.03		JUNCTION BOX	2	451.85'	451.54'		
MH-7-2	541122.7	1284185.1	110+43.7	30.2 LT	BOWIEMILLRD	433.47	MC-515.01	B MANHOLE	3	426.44'	426.34'		
MH-7-7	541355.5	1284621.4	115+40.4	32.3 LT	BOWIEMILLRD	454.70	MC-515.01	B MANHOLE	3	445.76'	445.66'		

				PIPE	SCHE	DULE	
FROM	то	INV. UP	INV. DOWN	LENGTH	SLOPE	SIZE	TYPE
EW-2-3	MH-2-4	455.66	454.60	18'	5.81%	30"	REINFORCED CONCRETE PIPE
I-1-1	I-1-2	472.85	468.60	77'	5.54%	15"	REINFORCED CONCRETE PIPE
I-1-2	I-1-3	468.50	464.00	79'	5.69%	15"	REINFORCED CONCRETE PIPE
I-1-3	MH-1-4	463.85	461.80	32'	6.47%	15"	REINFORCED CONCRETE PIPE
I-1-5	I-1-6	461.55	460.55	30'	3.39%	15"	REINFORCED CONCRETE PIPE
I-1-6	I-1-7	460.45	457.65	107'	2.61%	15"	REINFORCED CONCRETE PIPE
I-1-7	I-1-8	457.55	455.70	71'	2.59%	15"	REINFORCED CONCRETE PIPE
I-1-8	I-1-9	455.60	453.60	80'	2.50%	15"	REINFORCED CONCRETE PIPE
I-1-9	I-1-10	453.50	452.20	50'	2.58%	15"	REINFORCED CONCRETE PIPE
I-1-10	I-1-12	452.10	449.35	111'	2.47%	15"	REINFORCED CONCRETE PIPE
I-1-11	I-1-12	449.81	449.35	18'	2.55%	15"	REINFORCED CONCRETE PIPE
I-1-12	MH-1-13	449.25	448.95	20'	1.50%	36"	REINFORCED CONCRETE PIPE
I-1-14	I-1-12	450.15	449.35	35'	2.30%	15"	REINFORCED CONCRETE PIPE
I-1-15	I-1-14	450.75	450.25	25'	2.03%	15"	REINFORCED CONCRETE PIPE
I-1-16	I-1-15	453.15	450.85	96'	2.40%	15"	REINFORCED CONCRETE PIPE
I-1-17	I-1-16	455.65	453.25	99'	2.42%	15"	REINFORCED CONCRETE PIPE
I-1-18	I-1-17	459.30	455.75	146'	2.44%	15"	REINFORCED CONCRETE PIPE
I-2-1	MH-2-2	459.90	459.30	58'	1.03%	15"	REINFORCED CONCRETE PIPE

	PIPE SCHEDULE												
FROM	ТО	INV. UP	INV. DOWN	LENGTH	SLOPE	SIZE	TYPE						
ES-4-1		455.14	455.10	5'	0.87%	18"	REINFORCED CONCRETE PIPE						
ES-4-3	ES-4-2	459.12	458.81	72'	0.43%	18"	REINFORCED CONCRETE PIPE						
EW-3-1	JB-3-2	453.39	453.16	6'	4.18%	15"	REINFORCED CONCRETE PIPE						
EW-4-4	JB-4-5	455.29	454.86	4'	10.05%	12"	REINFORCED CONCRETE PIPE						
I-3-3	EX INLET	457.00	454.40	251'	1.03%	15"	REINFORCED CONCRETE PIPE						
I-7-1	MH-7-2	426.55	426.44	11'	1.04%	18"	REINFORCED CONCRETE PIPE						
I-7-4	EX MH	437.80	437.66	10'	1.40%	18"	REINFORCED CONCRETE PIPE						
I-7-6	MH-7-7	445.95	445.76	13'	1.42%	18"	REINFORCED CONCRETE PIPE						
I-7-8	I-7-6	446.65	446.10	18'	3.01%	18"	REINFORCED CONCRETE PIPE						



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND						
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NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT C	hecked by: DZ					

DS-01 DRAINAGE SCHEDULE DRAINAGE DESIGN

BOWIE MILL ROAD BIKEWAY

 SCALE: AS NOTED
 DATE: APRIL 2025

 Project No. : 502108
 SHEET 101 of 374

	STRUCTURE SCHEDULE											
STRUCTURE	NORTHING	EASTING	STATION	OFFSET	BASELINE	T.S./RIM ELEV.	STD. NO.	TYPE	CONNECTED PIPES	INVERT IN	INVERT OUT	NOTES
ES-10-1	540433.1	1282908.1	95+98.8	47.9 RT	BOWIEMILLRD	392.29	MD 368.01	END SECTION	1	386.99'		
ES-10-12	539908.9	1281535.5	80+50.0	23.5 RT	BOWIEMILLRD	443.80	MD 368.01	END SECTION	1	442.28'		
ES-10-13	539882.7	1281523.0	80+21.0	24.6 RT	BOWIEMILLRD	445.65	MD 368.01	END SECTION	1		444.13'	
ES-10-14	539847.9	1281505.3	79+82.1	24.9 RT	BOWIEMILLRD	448.13	MD 368.01	END SECTION	1	446.61		
ES-10-15	539820.2	1281491.0	79+50.8	25.0 RT	BOWIEMILLRD	450.12	MD 368.01	END SECTION	1		448.60'	
ES-10-16	539691.7	1281397.2	77+97.6	22.3 RT	BOWIEMILLRD	457.08	MD 368.01	END SECTION	1	455.56		
ES-10-17	539675.4	1281380.9	77+75.4	21.8 RT	BOWIEMILLRD	457.66	MD 368.01	END SECTION	1		456.14'	
EW-8-6	540666.4	1283452.4	101+83.4	40.0 RT	BOWIEMILLRD	396.66	MD 356.01	ENDWALL	1	394.00'		
I-8-1	540856.2	1283814.6	105+92.3	38.3 RT	BOWIEMILLRD	415.81	MC-506.01	J INLET	1		413.10'	
I-8-3	540853.8	1283758.2	105+41.1	14.4 RT	BOWIEMILLRD	413.63	MD 374.62	10' COG	2	406.50'	406.40'	
I-8-4	540730.8	1283522.7	102+75.4	15.1 RT	BOWIEMILLRD	404.88	MC-502.01	B INLET	2	397.10	397.00'	
I-8-5	540699.9	1283461.0	102+06.4	14.2 RT	BOWIEMILLRD	401.80	MD 374.62	10' COG	2	394.50'	394.40'	
I-10-2	540462.1	1282889.3	95+88.9	14.8 RT	BOWIEMILLRD	392.55	MD 374.63	5' COS	2	387.55	387.45'	
I-10-3	540410.8	1282692.3	93+86.2	15.7 RT	BOWIEMILLRD	395.70	MC-502.01	B INLET	2	390.75	390.65'	
I-10-4	540365.4	1282483.5	91+72.7	14.8 RT	BOWIEMILLRD	401.79	MC-502.01	B INLET	3	396.10' 396.10'	396.00'	
I-10-5	540311.4	1282210.9	88+94.8	11.4 RT	BOWIEMILLRD	412.57	MC-502.02	REV. TYPE B	3	407.25' 407.25'	407.15	
I-10-7	540285.1	1282122.3	88+02.7	19.0 RT	BOWIEMILLRD	415.83	MC-502.02	REV. TYPE B	2	411.00'	410.90'	
I-10-8	540268.1	1282000.7	86+80.2	10.6 RT	BOWIEMILLRD	422.02	MC-502.02	REV. TYPE B	2	416.80'	416.70'	
I-10-9	540221.9	1281836.6	85+07.5	12.3 RT	BOWIEMILLRD	426.94	MC-502.02	REV. TYPE B	2	421.30'	421.20'	
I-10-10	540168.4	1281749.2	84+02.1	19.9 RT	BOWIEMILLRD	427.42	MC-505.01	E-4 INLET	1		422.12'	
I-10-11	540267.5	1282157.0	88+33.0	43.3 RT	BOWIEMILLRD	413.11	MC-505.01	E-4 INLET	1		410.25'	
I-10-18	540447.5	1282840.9	95+38.7	16.1 RT	BOWIEMILLRD	393.44	MC-502.01	B INLET	2	388.40'	388.30'	
I-10-19	540341.1	1282488.8	91+72.9	39.6 RT	BOWIEMILLRD	400.37	MC-505.01	E-4 INLET	1		396.35'	
I-10-20	540273.6	1282207.3	88+83.5	47.7 RT	BOWIEMILLRD	412.39	MC-506.01	J INLET	1		407.75	
MH-8-2	540867.9	1283809.4	105+93.0	25.4 RT	BOWIEMILLRD	415.71	MC-515.01	B MANHOLE	3	413.00'	410.00'	VERIFY EXISTING PIPE LOCATION AND INVERT
MH-10-6	540291.1	1282150.6	88+31.6	18.9 RT	BOWIEMILLRD	414.67	MC-515.01	B MANHOLE	3	410.00' 410.00'	409.90'	

							STRUCTUF	RE SCHEDULE				
STRUCTURE	NORTHING	EASTING	STATION	OFFSET	BASELINE	T.S./RIM ELEV.	STD. NO.	TYPE	CONNECTED PIPES	INVERT IN	INVERT OUT	NOTES
ES-14-1	539799.5	1279899.1	62+08.1	32.9 RT	BOWIEMILLRD	486.18	MD 368.01	END SECTION	1		484.66'	
ES-14-2	539802.1	1279923.9	62+34.5	32.1 RT	BOWIEMILLRD	485.27	MD 368.01	END SECTION	1	483.75'		
ES-14-3	539798.1	1280020.6	63+37.2	32.2 RT	BOWIEMILLRD	480.04	MD 368.01	END SECTION	1		478.52'	
ES-14-4	539794.4	1280045.9	63+64.3	32.1 RT	BOWIEMILLRD	478.85	MD 368.01	END SECTION	1	477.33'		
ES-14-5	539764.3	1280152.7	64+80.7	32.0 RT	BOWIEMILLRD	474.68	MD 368.01	END SECTION	1		473.16'	
ES-14-6	539754.6	1280179.5	65+09.2	32.1 RT	BOWIEMILLRD	473.93	MD 368.01	END SECTION	1	472.41'		
ES-14-7	539699.8	1280320.0	66+61.2	32.6 RT	BOWIEMILLRD	470.13	MD 368.01	END SECTION	1		468.61'	
ES-14-8	539682.2	1280364.3	67+08.8	32.7 RT	BOWIEMILLRD	469.15	MD 368.01	END SECTION	1	467.64'		
ES-14-10	539480.5	1280869.9	72+42.8	51.0 RT	BOWIEMILLRD	458.12	MD 368.01	END SECTION	1	456.70'		
ES-15-1	539534.3	1279481.5	56+66.4	33.0 RT	BOWIEMILLRD	485.48	MD 368.01	END SECTION	1		483.97'	
ES-15-2	539503.1	1279460.5	56+28.8	33.3 RT	BOWIEMILLRD	484.34	MD 368.01	END SECTION	1	482.82'		
ES-15-3	539363.9	1279365.5	54+60.2	34.0 RT	BOWIEMILLRD	475.39	MD 368.01	END SECTION	1		473.87'	
ES-15-4	539345.7	1279352.3	54+37.7	33.4 RT	BOWIEMILLRD	473.86	MD 368.01	END SECTION	1	472.34'		
ES-15-5	539114.1	1279192.0	51+56.0	32.7 RT	BOWIEMILLRD	451.51	MD 368.01	END SECTION	1		449.71	
ES-15-6	539090.4	1279175.6	51+27.2	32.6 RT	BOWIEMILLRD	449.60	MD 368.01	END SECTION	1	447.79'		
ES-19-8	537816.8	1278518.9	36+68.7	36.3 RT	BOWIEMILLRD	427.58	MD 368.01	END SECTION	1	424.83'		
EW-13-1	539483.7	1281108.6	74+61.9	58.0 RT	BOWIEMILLRD	450.63	MD 360.01	ENDWALL	1	446.80'		
EW-15-7	538774.9	1278950.0	47+39.5	25.6 RT	BOWIEMILLRD	436.11	MD 354.01	ENDWALL	1			
I-14-9	539513.6	1280801.2	71+73.8	33.1 RT	BOWIEMILLRD	462.71	MC-505.01	E-4 INLET	1		457.45'	
I-16-1	538441.7	1278756.4	43+48.8	40.7 RT	BOWIEMILLRD	427.55	MC-506.02	J INLET	1		424.30'	
I-19-1	536858.4	1278463.7	27+00.7	23.7 RT	BOWIEMILLRD	426.89	MC-505.01	E-4 INLET	1		421.98'	
I-19-3	536922.4	1278463.1	27+64.6	23.0 RT	BOWIEMILLRD	426.38	MC-505.01	E-4 INLET	1		420.90'	
I-19-4					BOWIEMILLRD	+	MC-505.01	E-4 INLET	2	418.20'	418.10'	
I-19-6	537392.3	1278467.9	32+34.6	24.5 RT	BOWIEMILLRD	416.39	MC-505.01	E-4 INLET	1		411.60'	
I-19-9	537880.6		37+34.6	31.2 RT	BOWIEMILLRD	428.91	MC-505.01	E-4 INLET	1		425.91'	
I-24-1	534630.2	1277836.3			BOWIEMILLRD		MD 374.68	COG OPENING	0			
MH-13-2	539503.9				BOWIEMILLRD		MD 384.05	60" MANHOLE	2		448.31'	
MH-16-2	538446.1	1278747.6	43+48.9		BOWIEMILLRD		MD 384.05	60" MANHOLE	2	424.22'		
MH-19-2	536884.2				BOWIEMILLRD		MD 384.05	60" MANHOLE	3	421.75'		
MH-19-5	537076.8	1278459.5	29+19.1	18.3 RT	BOWIEMILLRD	423.55	MC-515.01	B MANHOLE	3	418.00'		

				PIPE	SCHED	ULE	
FROM	то	INV. UP	INV. DOWN	LENGTH	SLOPE	SIZE	TYPE
ES-10-13	ES-10-12	444.13	442.28	29'	6.37%	15"	REINFORCED CONCRETE PIPE
ES-10-15	ES-10-14	448.60	446.61	31'	6.36%	15"	REINFORCED CONCRETE PIPE
ES-10-17	ES-10-16	456.14	455.56	23'	2.51%	15"	REINFORCED CONCRETE PIPE
I-8-1	MH-8-2	413.10	413.00	11'	0.87%	18"	REINFORCED CONCRETE PIPE
I-8-3	I-8-4	406.40	397.10	263'	3.53%	18"	REINFORCED CONCRETE PIPE
1-8-4	I-8-5	397.00	394.50	66'	3.79%	18"	REINFORCED CONCRETE PIPE
I-8-5	EW-8-6	394.40	394.00	33'	1.23%	18"	REINFORCED CONCRETE PIPE
I-10-2	ES-10-1	387.45	386.99	33'	1.38%	24"	REINFORCED CONCRETE PIPE
I-10-3	I-10-18	390.65	388.40	150'	1.50%	24"	REINFORCED CONCRETE PIPE
I-10-4	I-10-3	396.00	390.75	210'	2.49%	24"	REINFORCED CONCRETE PIPE
I-10-5	I-10-4	407.15	396.10	275'	4.02%	24"	REINFORCED CONCRETE PIPE
I-10-7	MH-10-6	410.90	410.00	27'	3.39%	18"	REINFORCED CONCRETE PIPE
I-10-8	I-10-7	416.70	411.00	123'	4.64%	18"	REINFORCED CONCRETE PIPE
I-10-9	I-10-8	421.20	416.80	170'	2.58%	18"	REINFORCED CONCRETE PIPE
I-10-10	I-10-9	422.12	421.30	103'	0.80%	15"	REINFORCED CONCRETE PIPE
I-10-11	MH-10-6	410.25	410.00	25'	1.02%	15"	REINFORCED CONCRETE PIPE
I-10-18	I-10-2	388.30	387.55	48'	1.57%	24"	REINFORCED CONCRETE PIPE
I-10-19	I-10-4	396.35	396.10	24'	1.06%	15"	REINFORCED CONCRETE PIPE
I-10-20	I-10-5	407.75	407.25	37'	1.36%	15"	REINFORCED CONCRETE PIPE
MH-8-2	I-8-3	410.00	406.50	51'	6.95%	18"	REINFORCED CONCRETE PIPE
MH-10-6	I-10-5	409.90	407.25	61'	4.33%	18"	REINFORCED CONCRETE PIPE

				PIPE	SCHED	ULE	
FROM	то	INV. UP	INV. DOWN	LENGTH	SLOPE	SIZE	TYPE
ES-14-1	ES-14-2	484.66	483.75	25'	3.66%	15"	REINFORCED CONCRETE PIPE
ES-14-3	ES-14-4	478.52	477.33	26'	4.67%	15"	REINFORCED CONCRETE PIPE
ES-14-5	ES-14-6	473.16	472.41	29'	2.61%	15"	REINFORCED CONCRETE PIPE
ES-14-7	ES-14-8	468.61	467.64	48'	2.05%	15"	REINFORCED CONCRETE PIPE
ES-15-1	ES-15-2	483.97	482.82	38'	3.05%	15"	REINFORCED CONCRETE PIPE
ES-15-3	ES-15-4	473.87	472.34	23'	6.80%	15"	REINFORCED CONCRETE PIPE
ES-15-5	ES-15-6	449.71	447.79	29'	6.66%	18"	REINFORCED CONCRETE PIPE
I-14-9	ES-14-10	457.45	456.70	76'	0.98%	15"	REINFORCED CONCRETE PIPE
I-16-1	MH-16-2	424.30	424.22	8'	0.99%	24"	REINFORCED CONCRETE PIPE
I-19-1	MH-19-2	421.98	421.75	24'	0.97%	18"	REINFORCED CONCRETE PIPE
I-19-3	I-19-4	420.90	418.20	153'	1.76%	15"	REINFORCED CONCRETE PIPE
I-19-4	MH-19-5	418.10	418.00	8'	1.29%	15"	REINFORCED CONCRETE PIPE
I-19-6	EX MH	411.60	411.50	5'	1.96%	15"	REINFORCED CONCRETE PIPE
I-19-9	ES-19-8	425.91	424.83	64'	1.68%	15"	REINFORCED CONCRETE PIPE
MH-13-2	EW-13-1	448.31	446.80	26'	5.71%	36"	REINFORCED CONCRETE PIPE



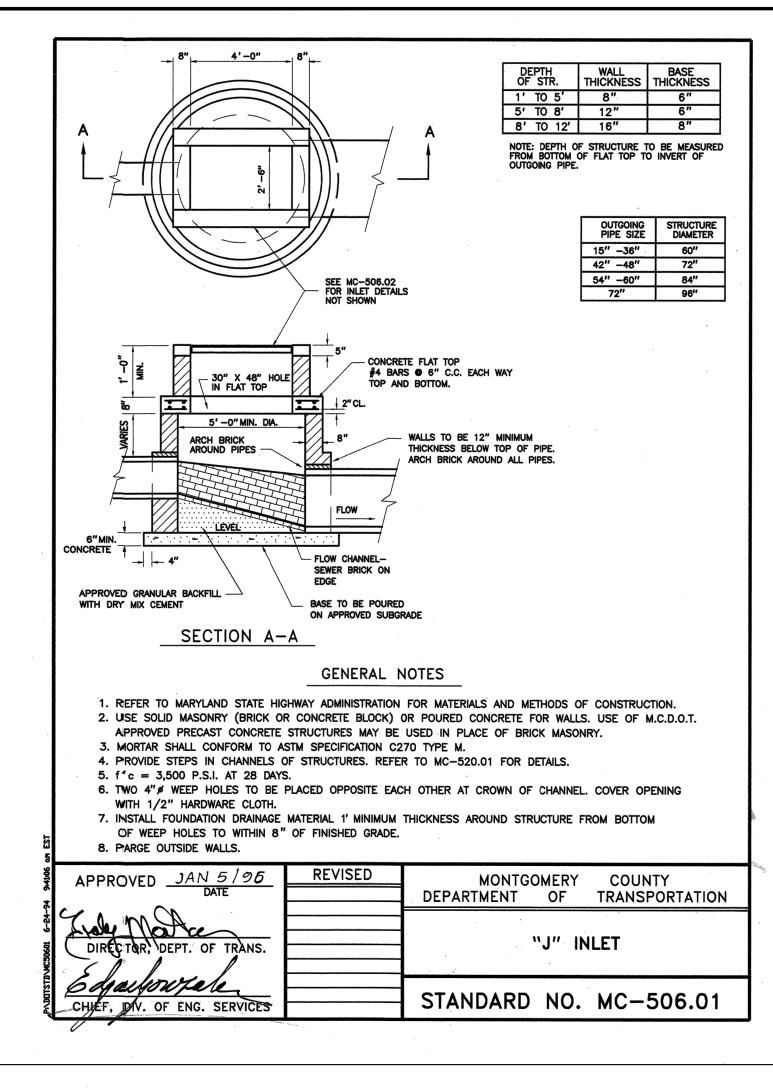
			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND						
			RECOMMENDED FOR APPROVAL						
			Chief, Transportation Planning and Design Section Date APPROVED						
			Chief, Division of Transportation Engineering Date						
REVISION	DATE	BY	Designed by: KJS Drawn by: MT Checked by: DZ	-					

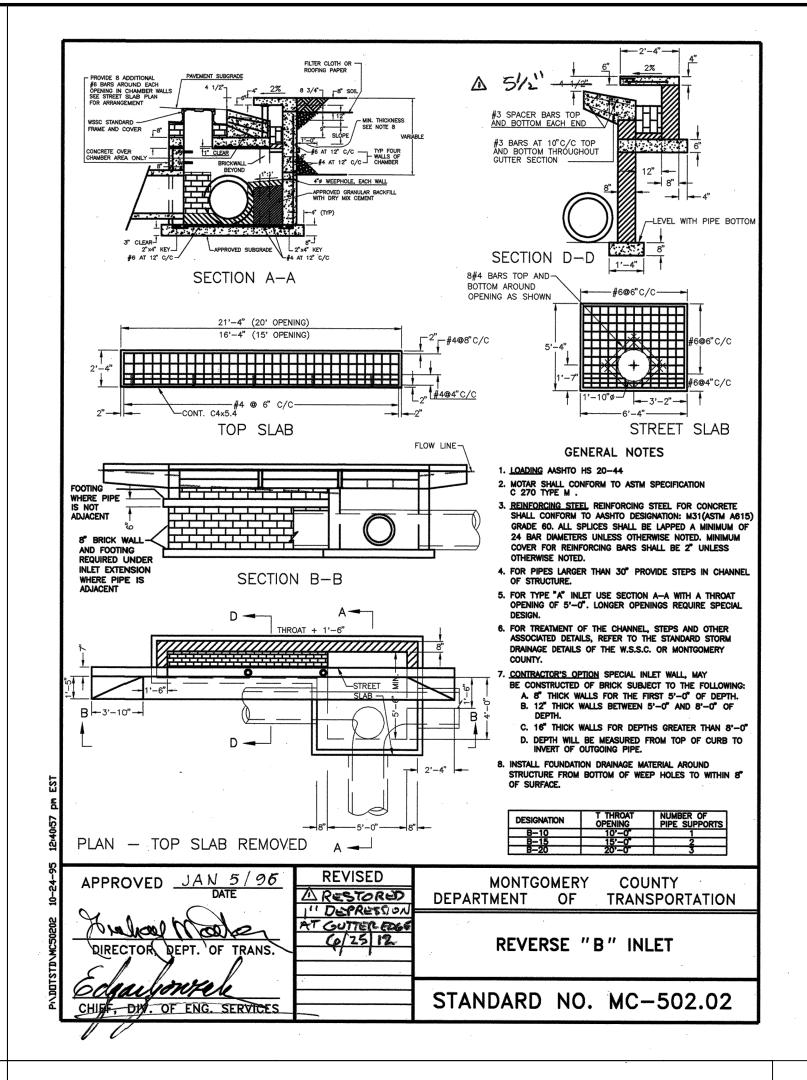
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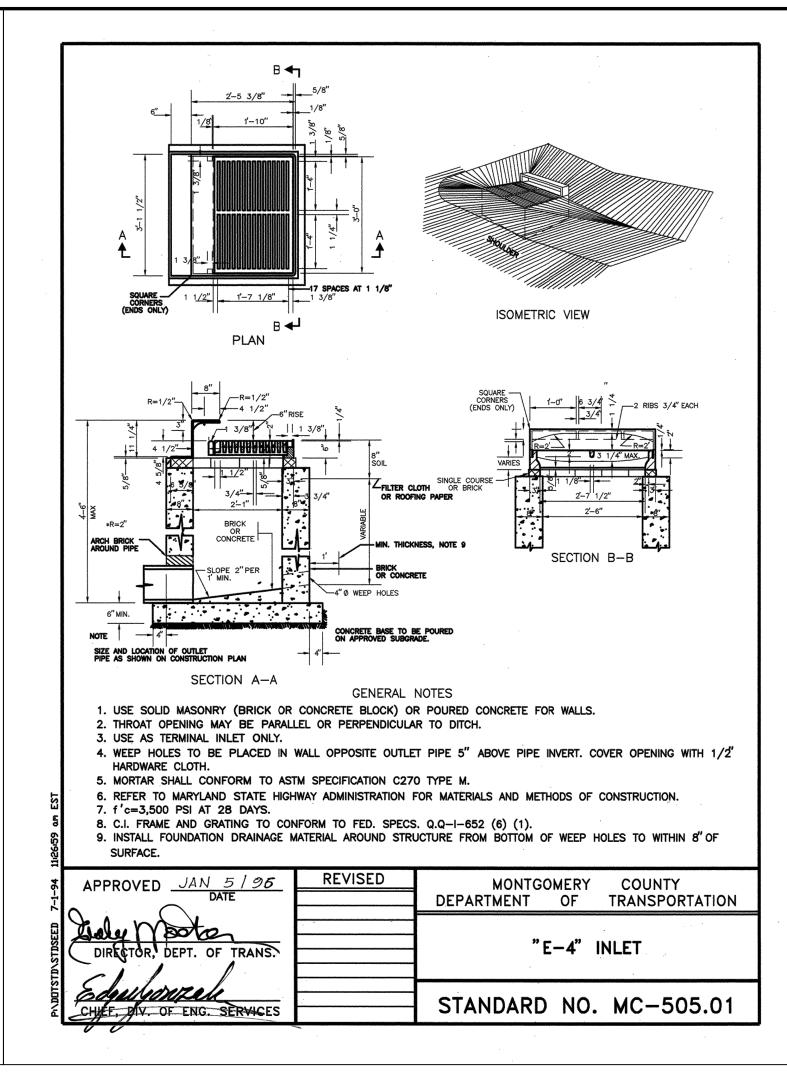
BOWIE MILL ROAD BIKEWAY

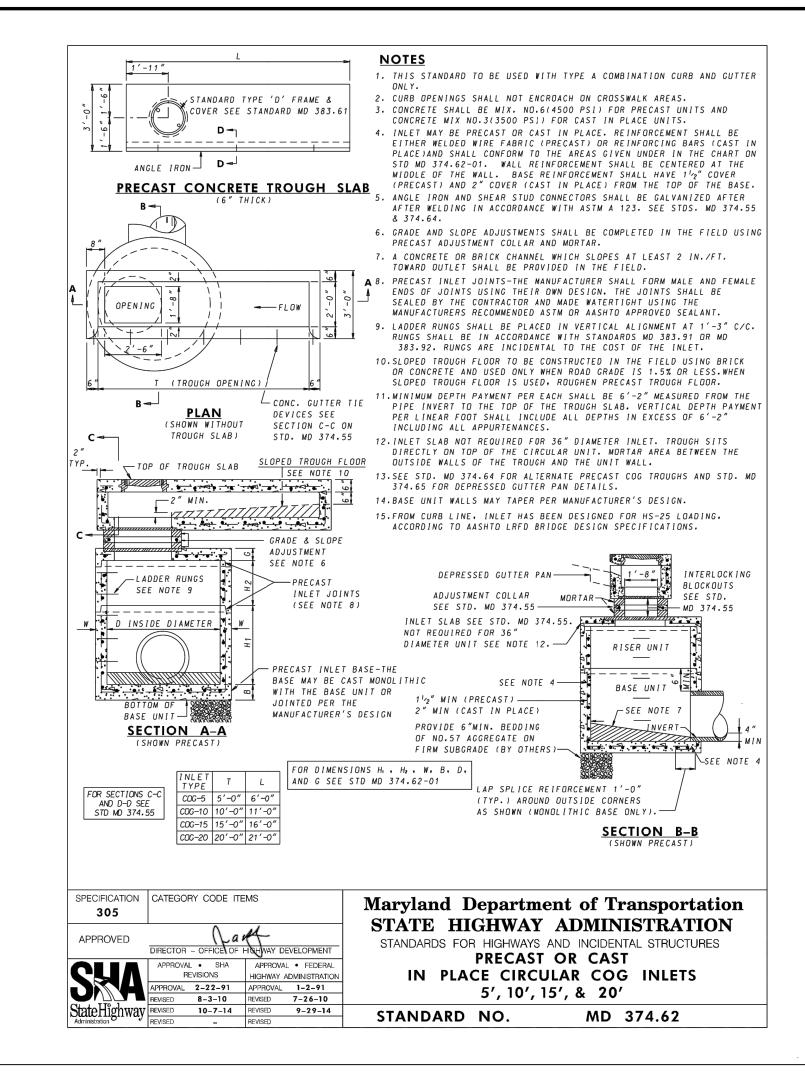
 SCALE: AS NOTED
 DATE: APRIL 2025

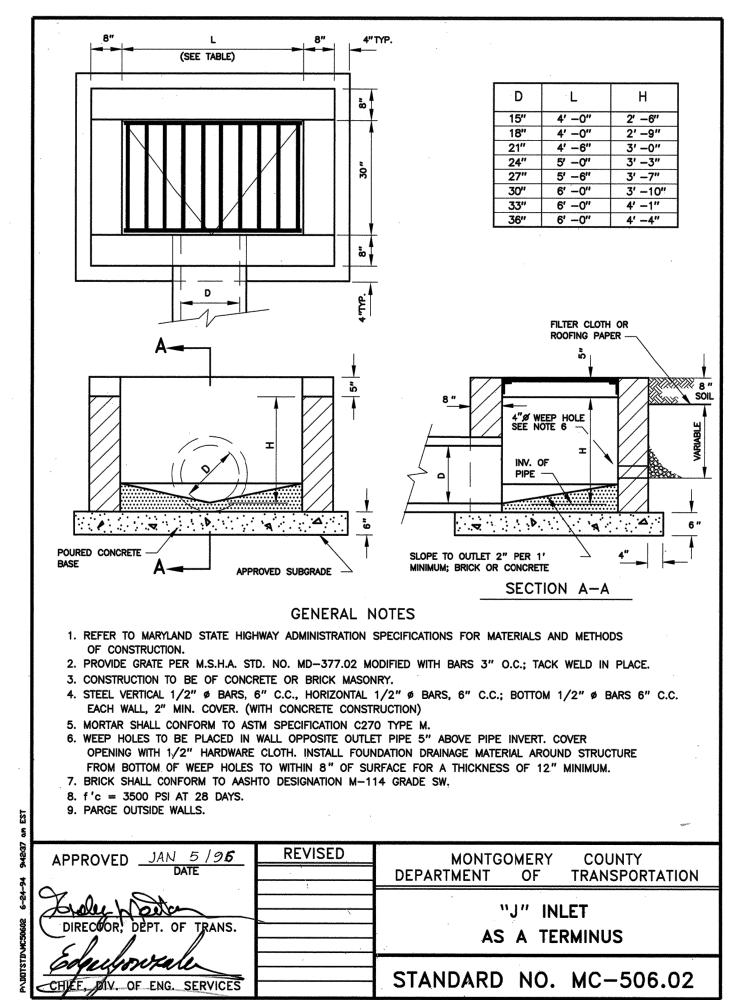
 Project No. : 502108
 SHEET 102 of 374

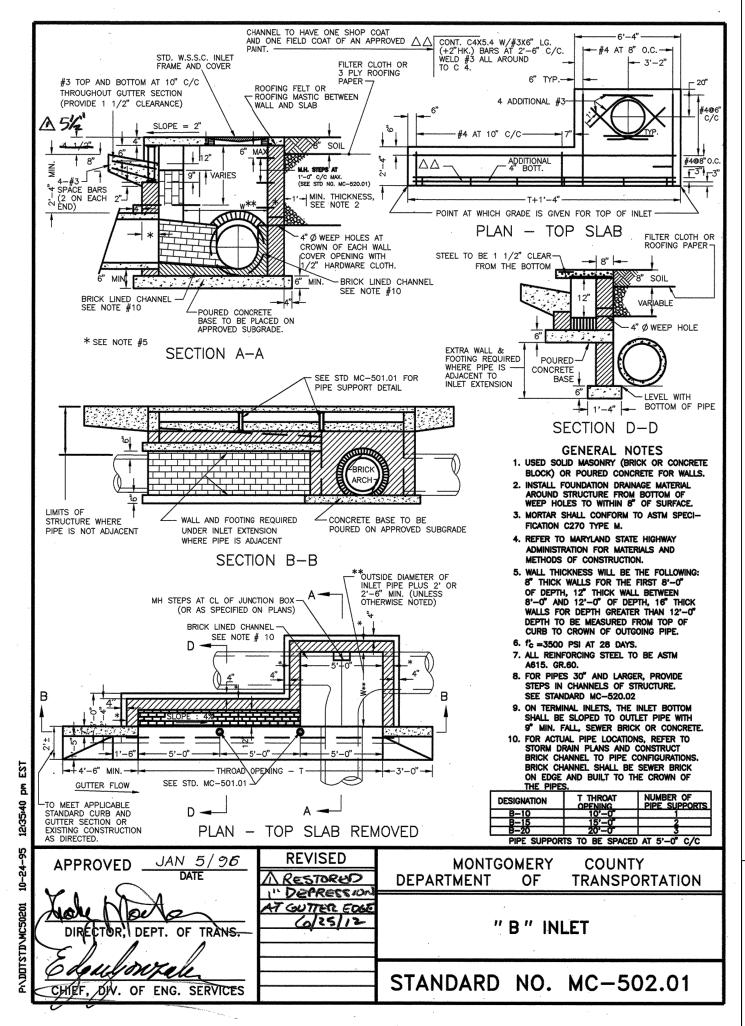


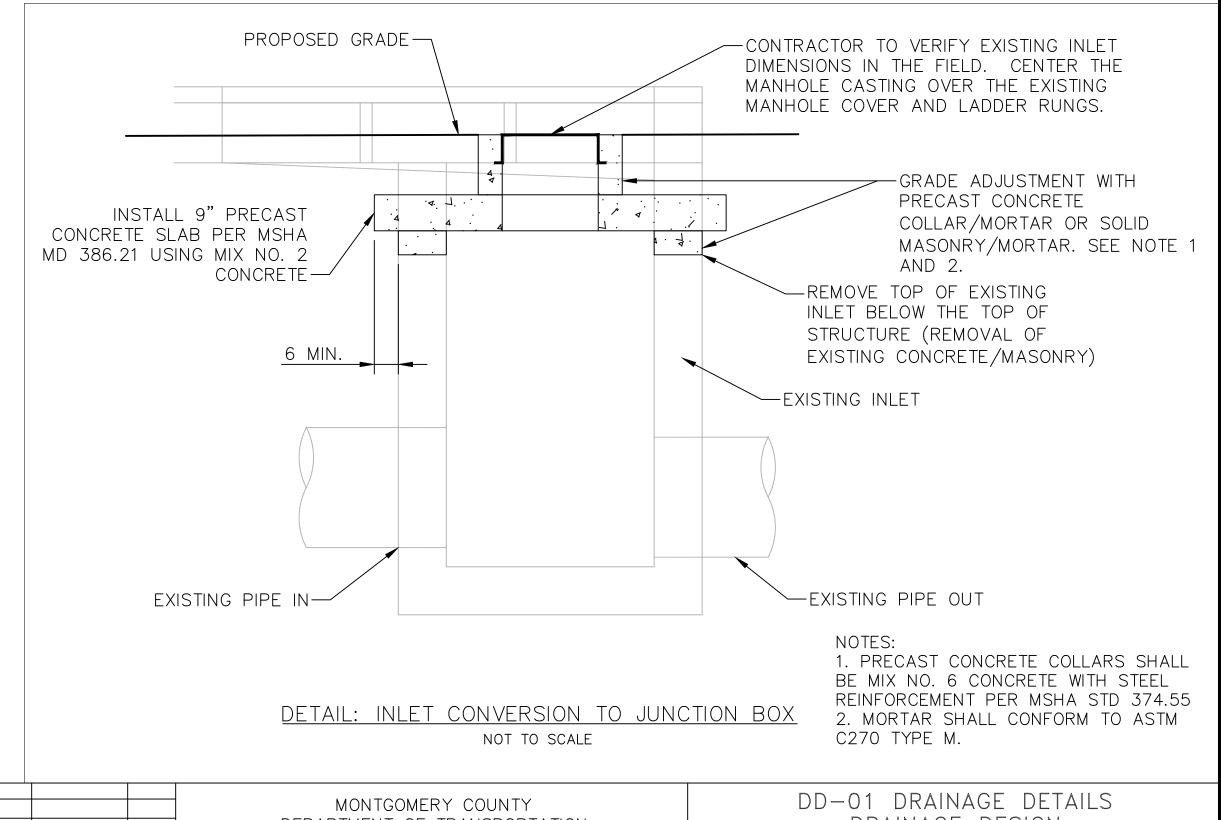




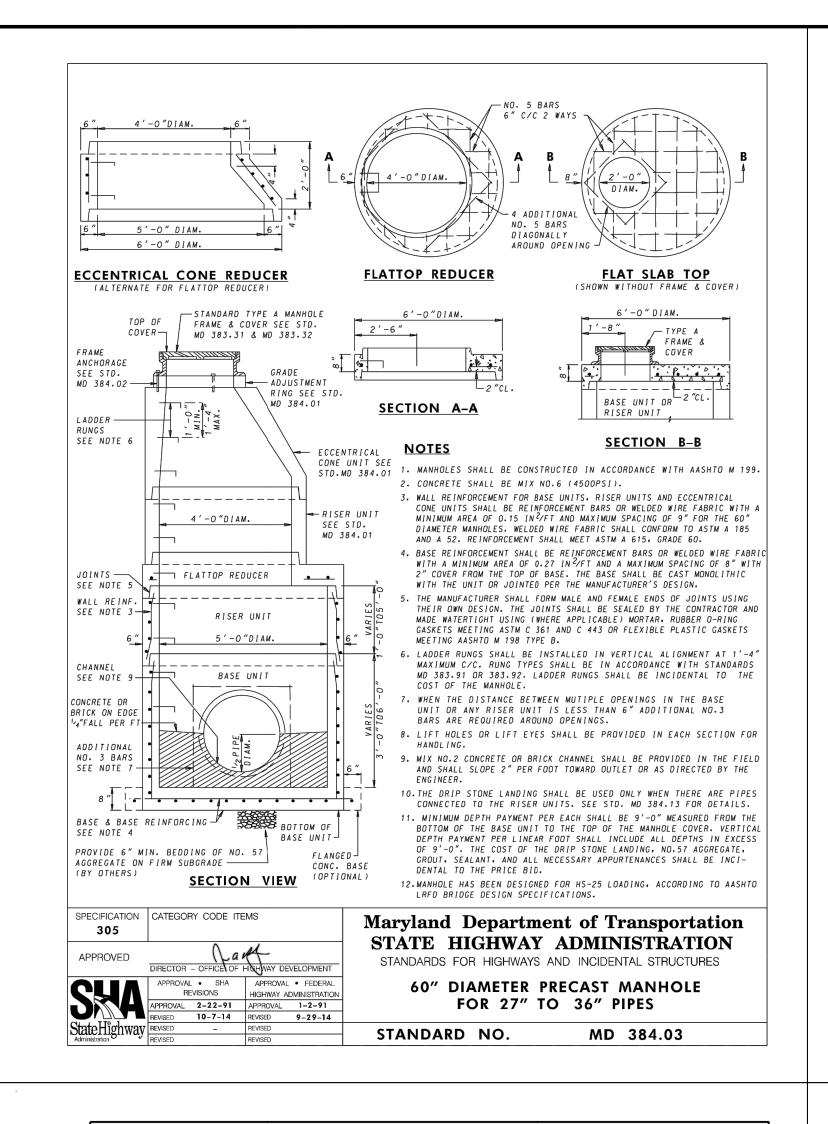


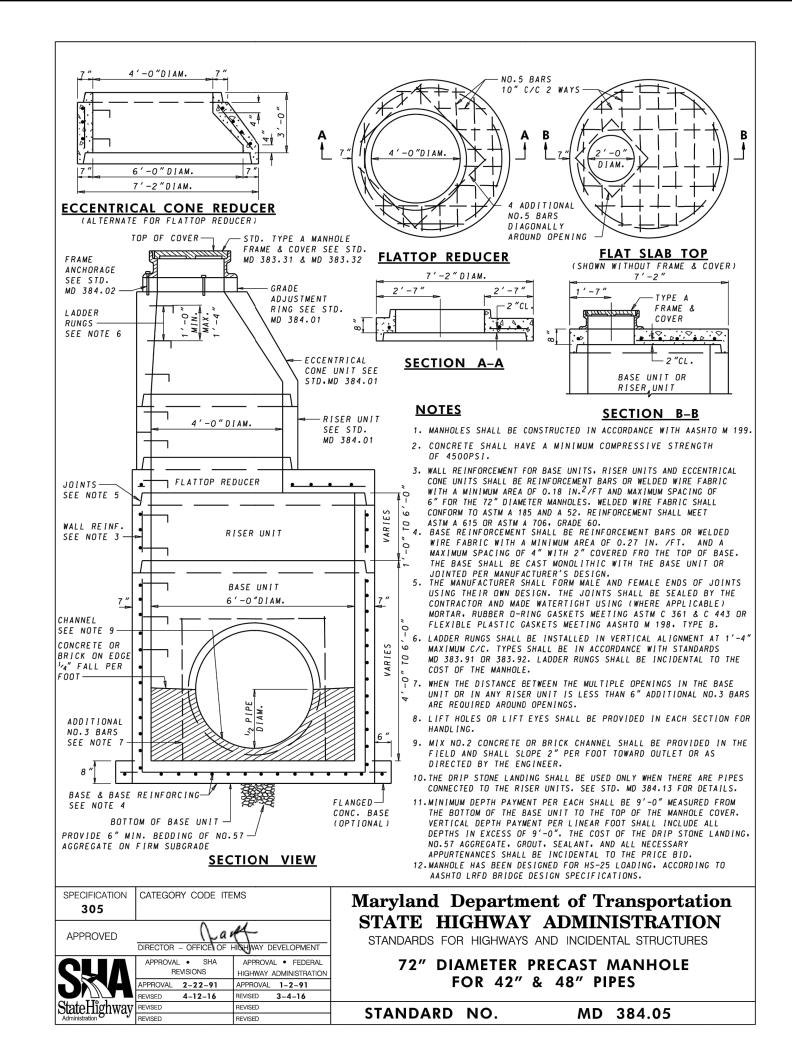


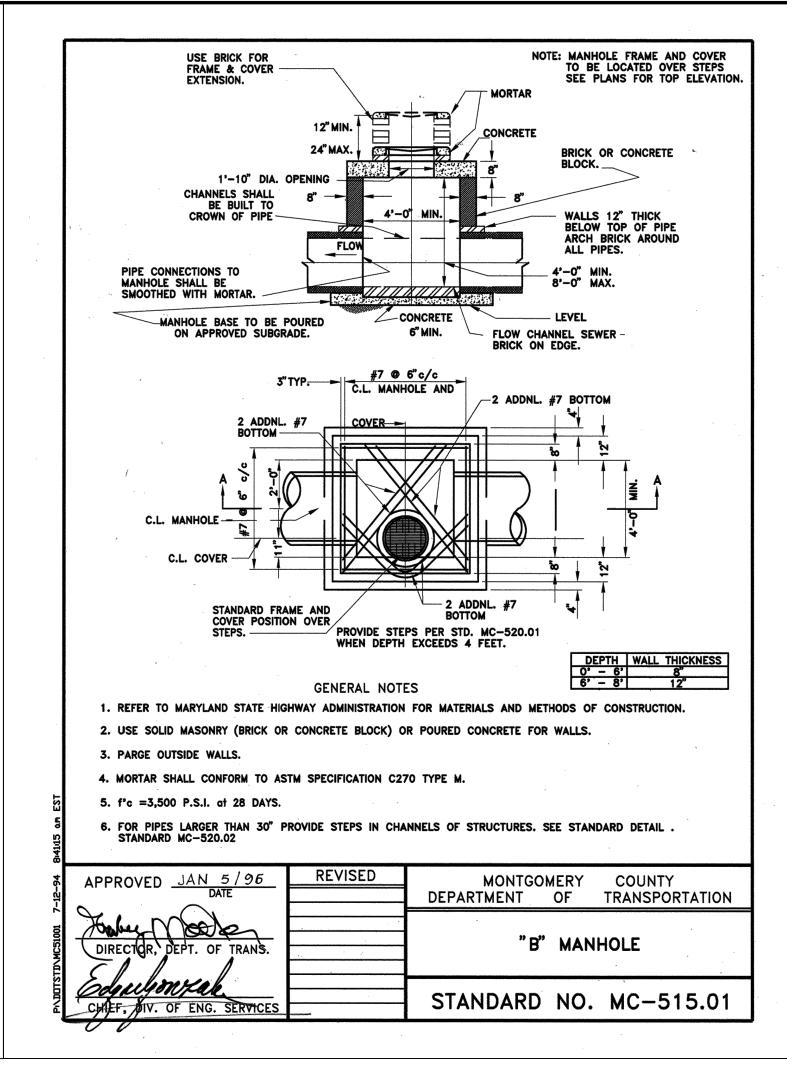


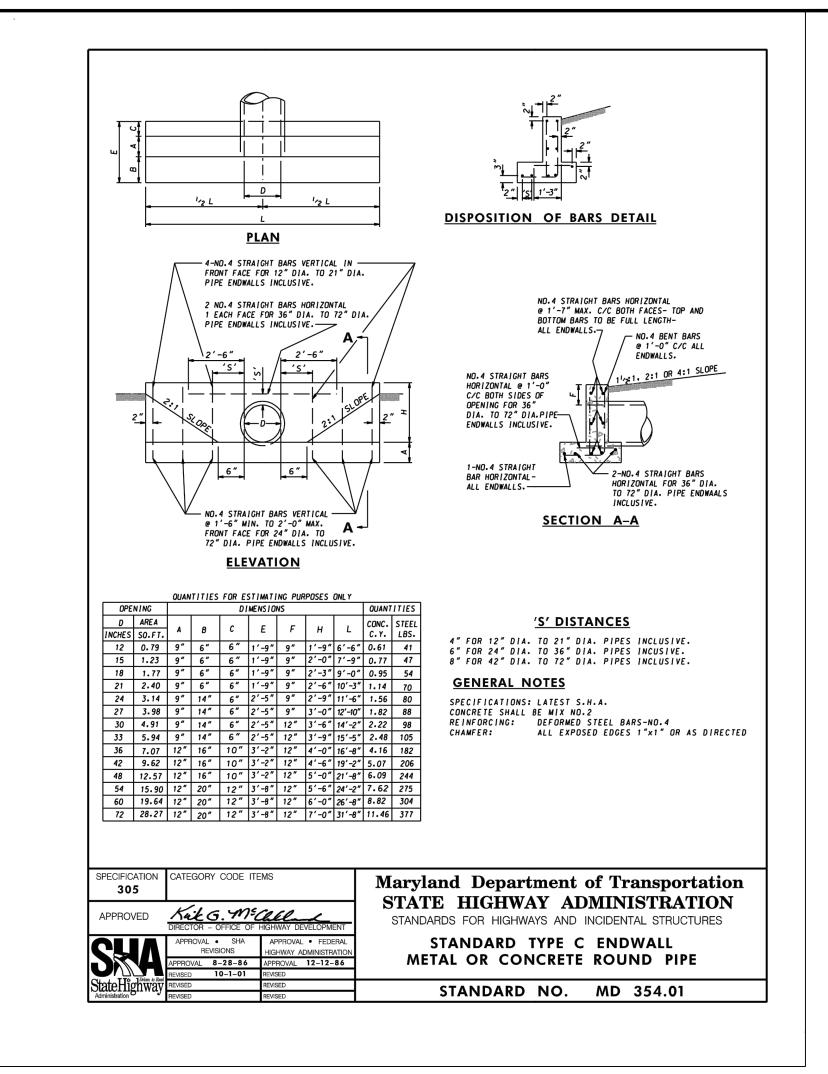


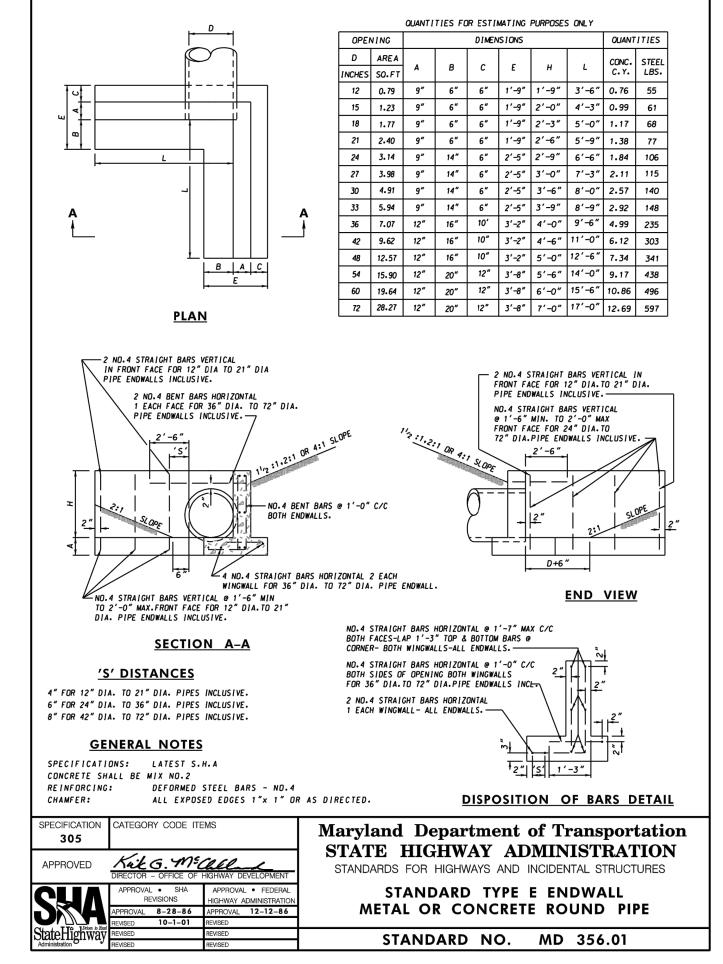
DRAINAGE DESIGN DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Transportation Planning and Design Section Date RJM ENGINEERING 6031 University Blvd., Ste. 290 SCALE : AS NOTED DATE: APRIL 2025 Chief, Division of Transportation Engineering Date Ellicott City, MD 21043 SHEET _____103___ of ____374___ Checked by: DZ Designed by: KJS Drawn by: MT Project No. : <u>502108</u> NO.

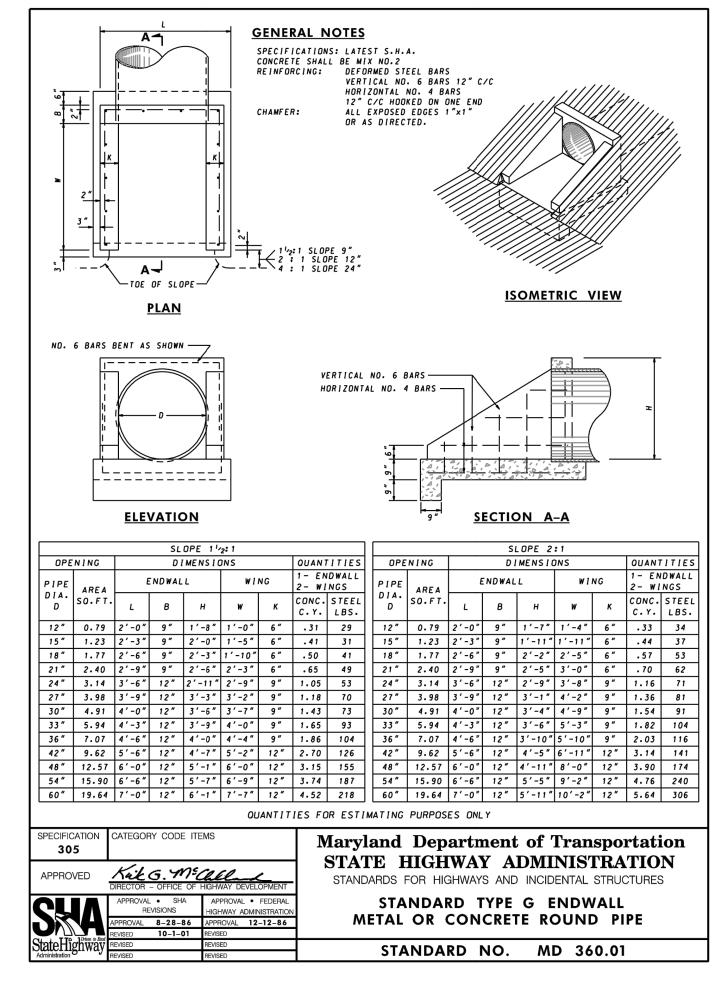


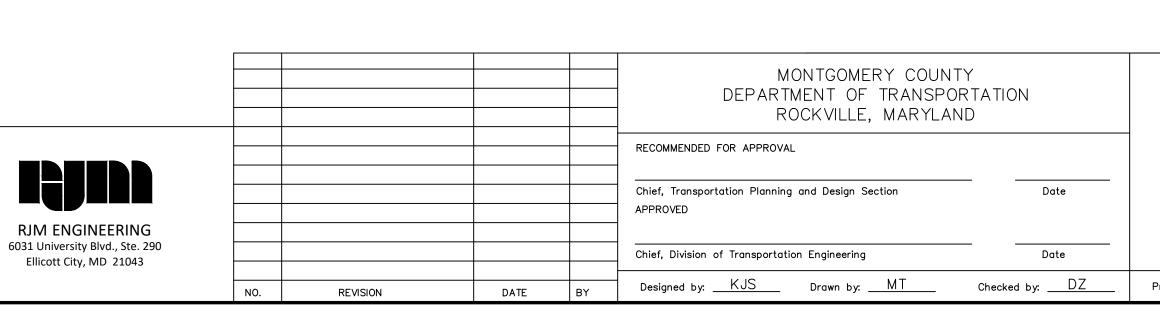












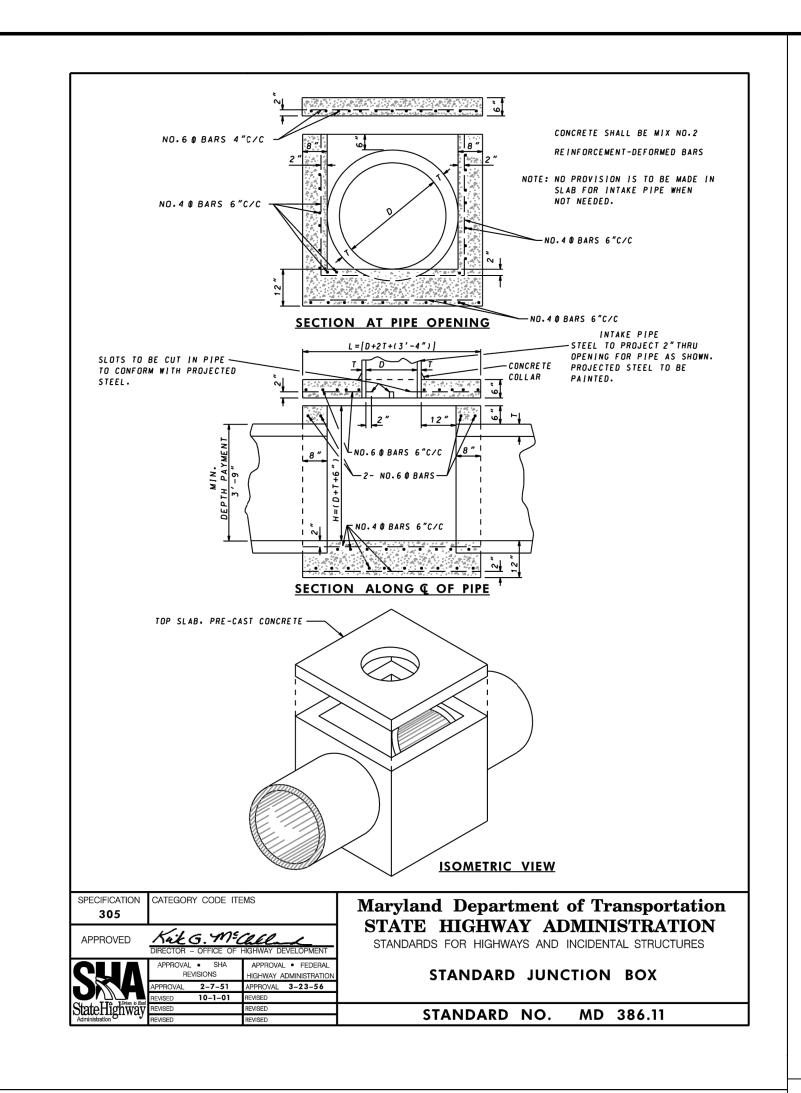
DD-02 DRAINAGE DETAILS
DRAINAGE DESIGN

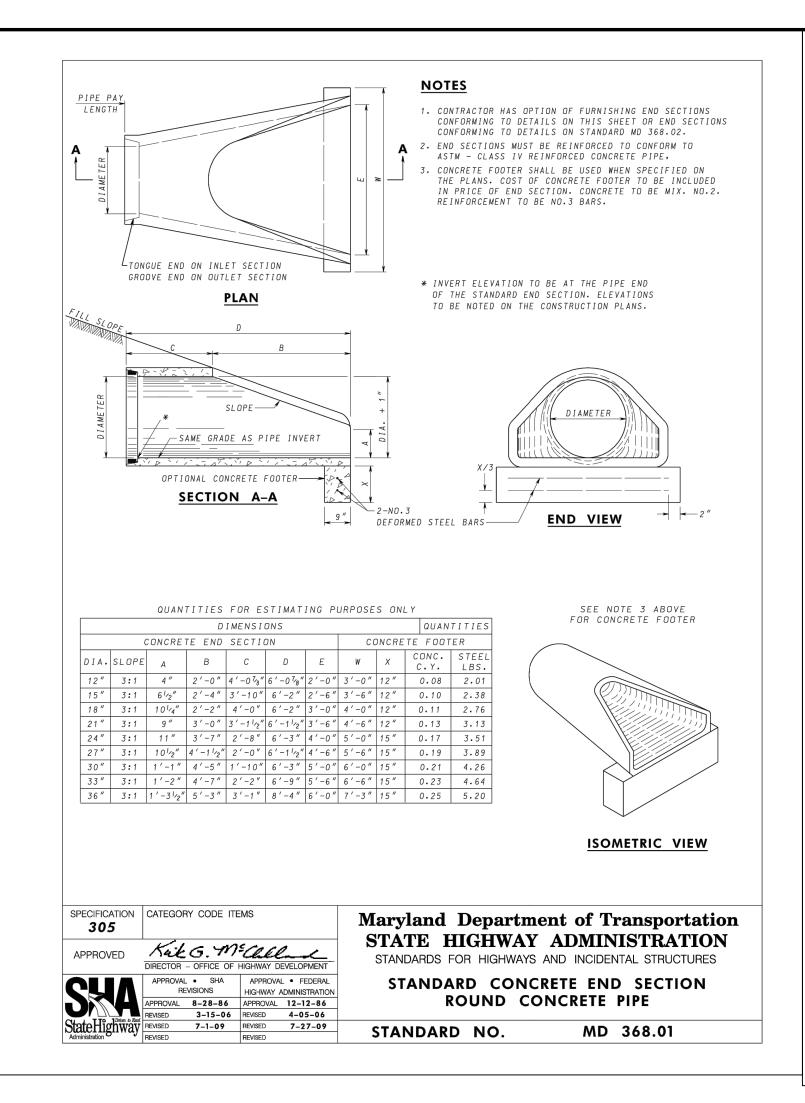
BOWIE MILL ROAD
BIKEWAY

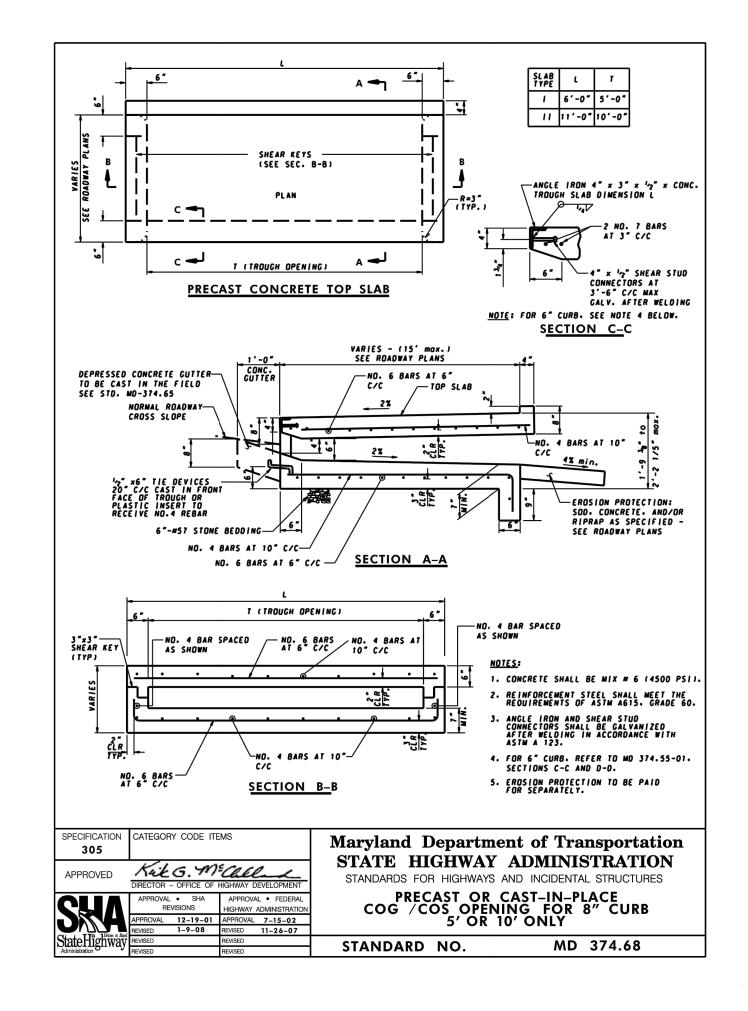
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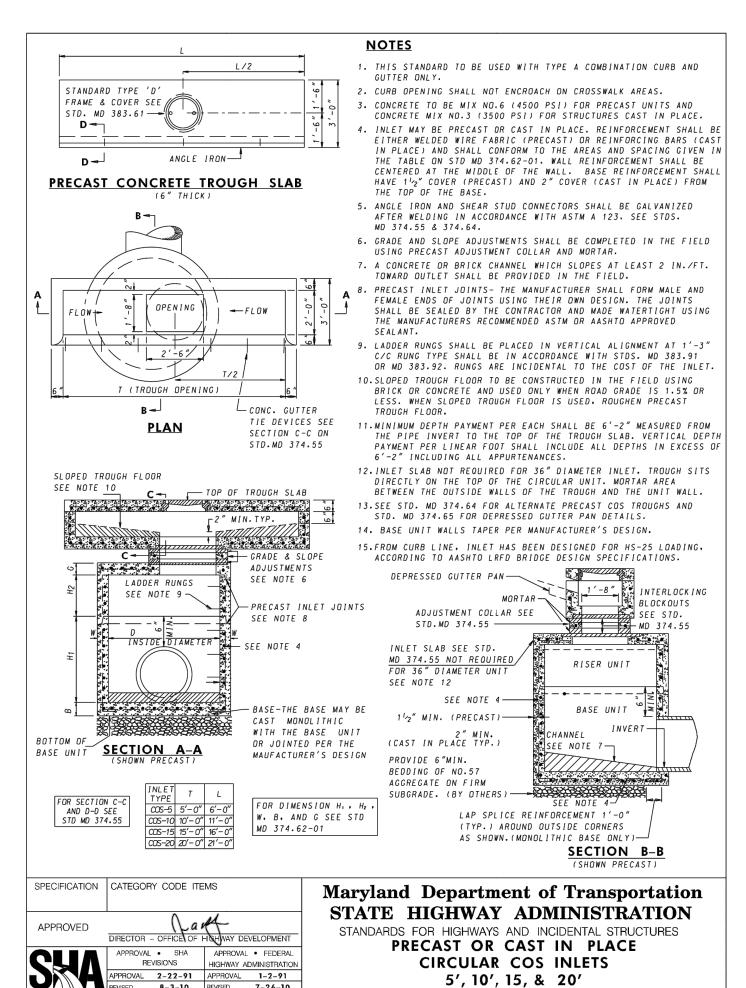
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 DATE: APRIL 2025

 Project No. : 502108
 SHEET 104 of 374



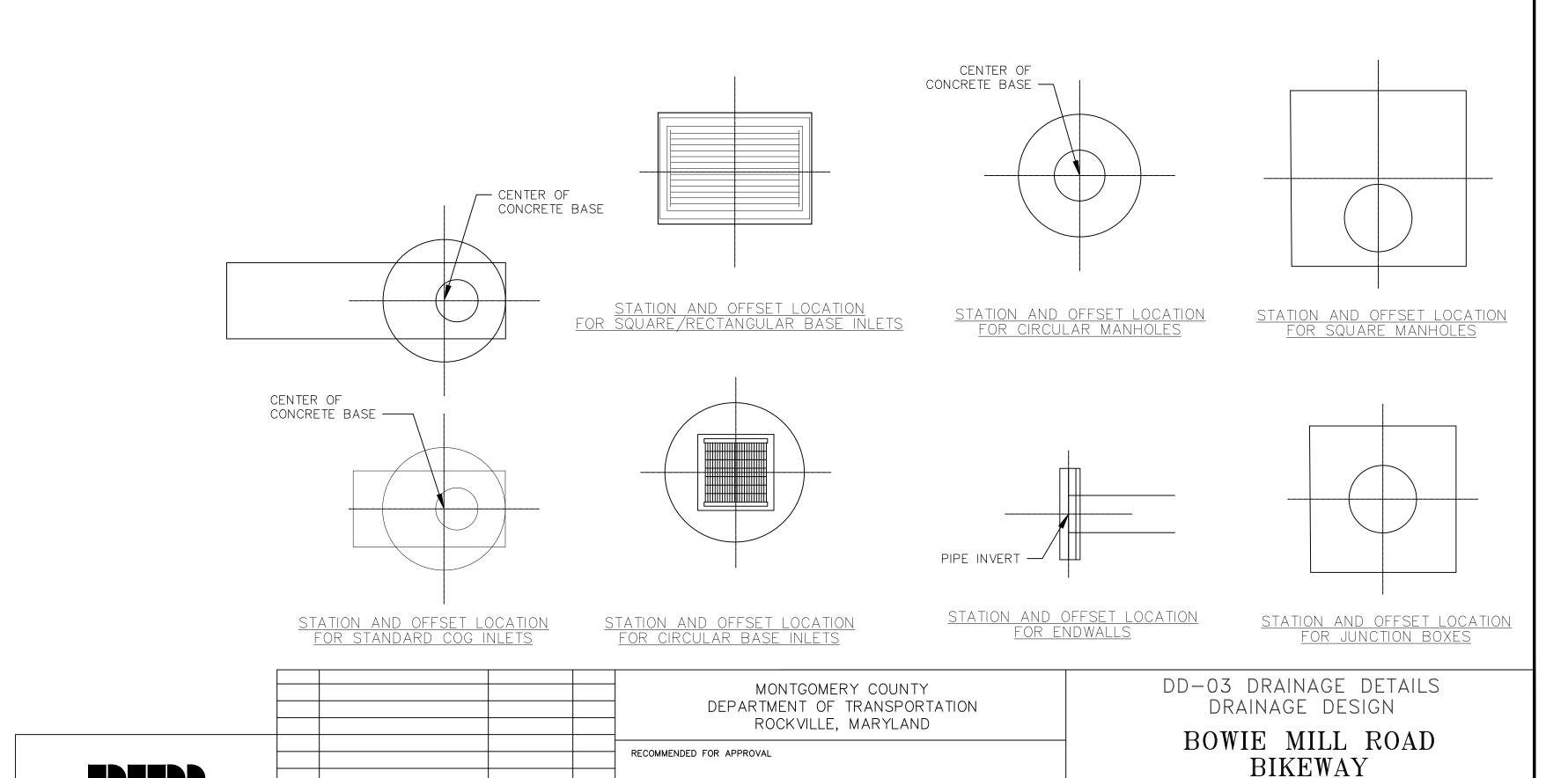






STANDARD NO.

MD 374.63



Chief, Transportation Planning and Design Section

Designed by: KJS Drawn by: MT

Chief, Division of Transportation Engineering

APPROVED

RJM ENGINEERING 6031 University Blvd., Ste. 290

Ellicott City, MD 21043

NO.

Date

Date

Checked by: DZ

SCALE : AS NOTED

Project No. : <u>502108</u>

DATE: APRIL 2025

SHEET _____105____of ___374___

INDEX OF SHEETS

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02	SC-02	SC0002	ESC NOTES
03	SC-03	SC0003	SEQUENCE OF CONSTRUCTION
04	SC-04	SC0004	ESC DETAILS
05	SC-05	SC0005	ESC DETAILS
06	SC-06	SC0006	ESC DETAILS
07	SC-07	SC0007	SWM CONCEPT APPROVALS
08	SC-08	SC0008	KEY SHEET
09-31	SC-09-31	SC0009-SC0031	ESC PLANS
32-33	SWM-01-02	SC0032-SC0033	BS-1 PLAN & PROFILE
34-35	SWM-03-04	SC0034-SC0035	GS-2 PLAN & PROFILE
36-37	SWM-05-06	SC0036-SC0037	GS-3 PLAN & PROFILE
38-40	SWM-07-09	SC0038-SC0040	GS-4 PLAN & PROFILE
41-42	SWM-10-11	SC0041-SC0042	BS-5 PLAN & PROFILE
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49-50	SWM-18-19	SC0049-SC0050	GS-9 PLAN & PROFILE
51-52	SWM-20-21	SC0051-SC0052	GS-10 PLAN & PROFILE
53-54	SWM-22-23	SC0053-SC0054	GS-11 PLAN & PROFILE
55-56	SWM-24-25	SC0055-SC0056	BS-12 PLAN & PROFILE
57	SWM-26	SC0057	SWM DETAILS
58	SWM-27	SC0058	SWM DETAILS
59-81	LS-1-23	SC0059-SC0081	LANDSCAPE PLANS
82-83	LS-24-25	SC0082-SC0083	LANDSCAPE DETAILS

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

BOWIE MILL ROAD BIKEWAY

MUNCASTER MILL ROAD TO OLNEY LAYTONSVILLE ROAD

C. I. P. PROJECT NO. 502108

RELATED REQUIRED PERMITS To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects. IT IS THE RESPONSIBILITY OF THE PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE SEDIMENT CONTROL PERMIT **REQD RESTRICTION DATES** REQD Floodplain District WATERWAYS/WETLAND(S): a. Corps of Engineers X .. MDE Water Quality Certification **MSCD Small Pond Approval** X * DPS Roadside Trees **Approval Date** NOTICE OF INTENT FEMA LOMR (Required Post Construction) OTHERS (Please List): X Construction Permit

*A copy of the approved Roadside Trees Protection Plan must be delivered to the Sediment Control Inspector at the Preconstruction

applicable exemption category below.

Total Property Area

Shade Trees Required

8,001

12,001

14,001

N/A square feet

TREE CANOPY REQUIREMENTS TABLE

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects. A fee in lieu of planting will be charged for any required canopy trees that are not planted. Exempt: Yes $\overline{}$ No $\overline{}$ If exempt under Section 55-5 of the Code, please check the

> Number of Trees Requiring Payment of a Fee in Lieu (Trees Required – Trees Planted)

> > **Required Number of Shade Trees**

Area (sq. ft.) of the Limits Number of Shade

If the square footage of the limits of disturbance is more than 40,000, then the

EXEMPTION CATEGORIES

CHECK AS APPLICABLE

number of shade trees required must be calculated using the following formula:

(Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15

8,000

12,000

14,000

40,000

Total Disturbed Area

Shade Trees Proposed to be Planted

577,832 square feet

SEDIMENT CONTROL & STORMWATER MANAGEMENT COVER SHEET

RECORD DRAWING CERTIFICATION							
A record set of approved Sediment Control/Stormwater Management plans must be maintained on-site at all times. In addition to stormwater management items, these plans must include the number and location of all trees proposed to be planted to comply with the Tree Canopy Law. Any approved modifications or deletions of stormwater practices or tree canopy plantings or information must be shown on this record set of plans and on the Tree Canopy Requirements table. Upon completion of the project, this record set of plans, including hereon this signed Record Drawing Certification, must be submitted to the MCDPS inspector. In addition to this Record Drawing Certification, a formal Stormwater Management As-Built submission [] is required [] is not required for this project. If this project is subject to a Stormwater Management Right of Entry and Maintenance Agreement, that document is recorded in Montgomery County Land							
Records at:							
Liber Folio This Record [Drawing will serve as referenced in the recorded document.						
	the stormwater management practices and tree canopy plantings as they were constructed or planted. All e approved Sediment Control / Stormwater Management plans or subsequent approved revisions."						
Owner/Developer Signature Da	ate						
FIELD CHECK OF RECORD DRAWING BY MC	DPS INSPECTOR: INITIALS: DATE:						

OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE

JOSEPH MOGES CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

CERTIFICATION DESIGN

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND" STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL," MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN CRITERIA" DATED AUGUST, 1988.

XX-XX-XXXX

DATE

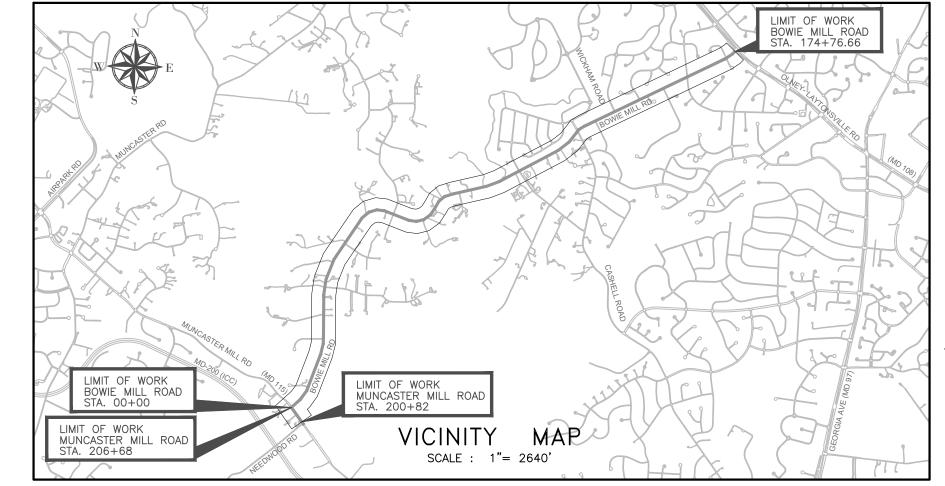
KEVIN SCHIEFER, P.E. MD. REGISTRATION NO. 43192

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 10.261 CUBIC YARDS OF EXCAVATION, 10,542 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXX,XXX SQUARE FEET OR 13.27 ACRES.

DATE

MICHAEL ROTHENHEBER, P.E. MD. REGISTRATION NO. 18589



RUNOFF STATEMENT

I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated

control/stormwater management plan approval does not relieve me of professional responsibility. I have

upon my background, training and experience, I have determined that the proposed improvements shown

analyzed the proposed design for sediment control permit no. XXXXXX and hereby certify that, based

on this plan meet relevant laws and regulations. I further acknowledge that I have analyzed the post

development runoff patterns for this project from the standpoint of my responsibilities under current Maryland Law and have determined that if permission is required from adjacent property owners, I have

compliance with required environmental runoff treatment standards. This DPS sediment

obtained it and have made copies of those permissions available to DPS.

Engineer's Signature

KEVIN SCHIEFER

OWNER/ADDRESS:

DESIGN SECTION

240-777-7240

OF TRANSPORTATION

GAITHERSBURG, MD 20878

JEAN KAPUSNICK. P.E. PROJECT MANAGER

MONTGOMERY COUNTY DEPARTMENT

100 EDISON PARK DRIVE, 4TH FLOOR

DIVISION OF TRANSPORTATION ENGINEERING

Printed Name

CONTACT:

P.E. CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 43192 , EXPIRATION DATE: 12-19-26

_____ XX-XX-XXXX

KEVIN SCHIEFER, P.E. DATE MD. REGISTRATION NO. 43192

UPPEK.	K

THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE

ATTENTION

UPPER ROCK CREEK SPECIAL PROTECTION AREA

TO HELP PROTECT THE DELICATE AQUATIC HABITAT FROM THE IMPACTS OF LAND DEVELOPMENT THESE PLANS MUST BE STRICTLY ADHERED TO

IF THERE IS A PROBLEM, CALL

IN DEVELOPING A SOLUTION BEFORE STREAM IMPACTS OCCUR (MENTION THAT THE SITE IS WITHIN A SPECIAL PROTECTION AREA WHEN YOU CALL)

AND THE MCDPS STAFF MEMBER WILL ASSIST YOU

UPPER ROCK CREEK SPA IMPERVIOUS PERCENTAGE CAP: 8%

55-5(a) any activity that is subject to Article II of hapter 22A; 55-5(b) any commercial logging or timber narvesting operation with an approved exemption from Article II of Chapter 22A; 55-5(f) any activity conducted by the County Parks 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the

naintenance has obtained all required permits; 55-5(h) any stream restoration project if the person performing the work has obtained all 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law overning safety of dams: OTHER: Specify per Section 55-5 of the Code.

TECHNICAL I SEDIMENT (ADMINISTRA	ATIVE REVIEW	DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or
				concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of
/ED	DATE	REVIEWED	DATE	professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or
TECHNICAL I STORMWATER I		SMALL LOT DRA	INAGE APPROVAL	downhill properties. SEDIMENT - XXXXXX
		N/A: □ OR		SEDIMENT CONTROL PERMIT NO.
				SPCL - 285360
/ED	DATE	REVIEWED	DATE	SM. FILE NO. STORMWATER MANAGEMENT:
CDPS APPROVAL OF THIS		NOTE: MCDPS APPROV	AL DOES NOT NEGATE THE	

Project No. : <u>502108</u>

NEED FOR A MCDPS ACCESS PERMIT.

SC-01 SWM & SC COVER SHEET BOWIE MILL ROAD

BIKEWAY

DATE: APRIL 2025

MCDPS SC/SWM SHEET 1 OF 83

SHEET <u>106</u> of <u>374</u>

		"LET'S WORK T	OGETHER TO K	CLEAN"	REVIEWED	DATE	REVIEWED	
	ACKNOW	/LEDGEDOV	WNER/DEVELOP			MCDPS APPROVAL OF THI YEARS FROM THE DATE PROJECT HAS	OF APPROVAL IF THE	NOTE
					DEPARTI	ONTGOMERY COU MENT OF TRANSF DCKVILLE, MARYL	PORTATION	
					RECOMMENDED FOR APPROVAL	-		
RJM ENGINEERING					Chief, Transportation Planning APPROVED	and Design Section	Date	
6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation	on Engineering	Date	
	NO.	REVISION	DATE	BY	Designed by: KJS	Drawn by: MT	Checked by: D	<u>z</u>

EROSION AND SEDIMENT CONTROL — GENERAL NOTES ND SEDIMENT CONTROL GENERAL NOTES AT-GRADE IN ET PROTECTION TO REMOVABLE PUMPING STATION MERS

EROSION AND SEDIMENT CONTROL GENERAL NOTES AT-GRADE INLET PROTECTION 1. The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department. BAFFLE BOARDS 2. The permittee must obtain inspection and approval by DPS at the following points: BENCHING A. At the required pre-construction meeting. CATCH BASIN INSERT B. Following installation of sediment control measures and prior to any other land disturbing activity. C. During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory. CLEAR WATER DIVERSION PIPE DESIGNATION CWD-12 REFERS TO 12 INCH CLEAR WATER DIVERSION D. Prior to removal or modification of any sediment control structure(s). CLEAR WATER PIPE \vdash E. Prior to final acceptance. COMBINATION INLET PROTECTION 3. The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department. CONCRETE WASHOUT STRUCTURE 4. The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately. CURB INLET PROTECTION 5. The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person. DIVERSION FENCE Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within: EARTH DIKE Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and PLACE DESIGNATION (A-1, B-2, etc.) ON FLOW CHANNEL SIDE OF DIKE. EMERGENCY SPILLWAY Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading. FILTER BAG ⊠fB All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization. 1---FB-A---1 FILTER BERM The permittee shall apply sod, seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that I---FB-B---I area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas. FILTER LOG DESIGNATION FL-18 REFERS T 18 INCH DIAMETER FILTER LOG Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade GABION INFLOW PROTECTION during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15. GABION INLET PROTECTION 9. The site permit, work, materials, approved SC/SM plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County. HORIZONTAL DRAW-DOWN DEVICE 10. Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote LIMIT OF DISTURBANCE sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur. 11. Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting* or by other approved stabilization MEDIAN INLET PROTECTION *Note: Stabilization with turfgrass sod or Type A soil stabilization matting shall be provided for all swales unless otherwise noted. 12. Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater MEDIAN SUMP INLET PROTECTION management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well. MOUNTABLE BERM 13. No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non- maintenance areas provided that MB those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative PERIMETER DIKE/SWALE 14. The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet. PERM. SOIL STABILIZATION MATTING-TYPE B 15. For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall. PERM. SOIL STABILIZATION MATTING-TYPE C 16. Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin. PIPE OUTLET SEDIMENT TRAP ST I 17. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment. PIPE SLOPE DRAIN DESIGNATION PSD-12 REFERS TO 18. The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary. 19. All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground. PLUNGE POOL 20. Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control. PORTABLE SEDIMENT TANK 21. Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for ST-III) or when required by the sediment control inspector. DRAINAGE BOUNDARY 22. Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain. EXISTING CONTOURS 23. All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times. PROPOSED CONTOURS 24. No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work. 25. Off-site spoil or borrow areas must have prior approval by DPS. 26. Sediment trap/basin dewatering for cleanout or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered: A. Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or

B. the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or

Remember: Dewatering operation and method must have prior approval by the DPS inspector.

Amendments".

C. the pump intake may be floated and discharge into a Dirt Bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area.

27. The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.

28. Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil

STANDARD NOTES

- The contractor will immediately inform the County of any discrepancies found between the project plans and contract specifications.
- For construction, all horizontal control shall be NAD 83/91 and vertical control NAVD 88.
 Types of storm drain structures refer to the 'Design Standards' of Montgomery County Department of Transportation, unless otherwise
- noted.

 4. Information concerning underground utilities was obtained from available records. The contractor must determine the exact location and
- 4. Information concerning underground utilities was obtained from available records, The contractor must determine the exact location and elevations of the lines by digging test pits by hand at all utility crossings well in advance of trenching. If clearances are less than shown on
- this plan or six inches, whichever is less, the contractor shall contact the County.

 5. Repairs to utilities or property damaged as a result of the contractor's negligence or method of operation must be made at the contractor's
- expense before proceeding with construction.

 Call "Miss Utility" at 1-800-257-7777 fourty-eight (48) hours prior to beginning excavation to determine the exact location of existing utilities.
- Clearing to be limited to the "limit of disturbance" as shown on the plans.

 All grading shall be done in such a manner as to provide positive drainage.

and Wildlife service whose telephone number is (301) 854-6060.

- Disturbed areas adjacent to established lawns shall be sodded. Other disturbed areas shall be seeded and mulched.
- 10. The contractor shall obtain a roadside tree permit for any maintenance, treatment, planting, removal or root cutting on trees within the public right-of-way before starting a job. Permit requirements may be obtained from the Department of Natural Resources Maryland Forest, Park
- 11. Contact the Washington Suburban Sanitary Commission system maintenance engineer before excavating beneath or in the vicinity of existing water or sewer lines. Backfill to be done under the supervision of W.S.S.C. Call (301) 699-4420.
- 12. Contact Washington Gas dispatch officer at (703) 750-4831 before excavating beneath or in the vicinity of existing gas main and service
- laterals.

 13. Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for

FFSITE GRADING NOTE:

RIPRAP INFLOW PROTECTION

ROCK OUTLET PROTECTION 1

ROCK OUTLET PROTECTION II

ROCK OUTLET PROTECTION III

SILT FENCE ON PAVEMENT

STABILIZED CONSTRUCTION ENTRANCE

STONE/RIPRAP OUTLET SEDIMENT TRAP ST II

STANDARD INLET PROTECTION

STOCKPILE AREA

STONE CHECK DAM

SUBSURFACE DRAINS

SUPER SILT FENCE

TEMPORARY ACCESS BRIDGE

TEMPORARY ACCESS CULVERT

TEMPORARY ASPHALT BERM

TEMPORARY BARRIER DIVERSION

TEMPORARY GABION OUTLET STRUCTURE

TEMP. SOIL STABILIZATION MATTING-TYPE A

TEMP. SOIL STABILIZATION MATTING-TYPE E

TEMP. SOIL STABILIZATION MATTING-TYPE D

TEMPORARY STONE OUTLET STRUCTURE

CHESAPEAKE BAY CRITICAL AREA

TEMPORARY SWALE

WASH RACK OPTION

WETLAND BUFFER

100-YEAR FLOODPLAIN

TREE PROTECTION FENCE

SILT FENCE

RIPRAP OUTLET SEDIMENT TRAP ST III

ST-III

ROP1

ROPII

ROPIII

⊢---SF-------

⊢—SFOP—

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ST-II

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TBD

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PLACE DESIGNATION (A-1, B-2, etc. ON FLOW CHANNEL SIDE OF SWALE.

WR

Topsoil".

Offsite grading requires documentation of permission from owner (letter of permission on plan or recorded grading easement document submitted). Written approval for grading outside of the Right-of-Way shall be provided to the Inspector before construction is authorized to proceed.

OCKPILE NOTE: Contractor shall e

The Contractor shall establish staging and stockpile areas at locations approved by the Engineer. These areas shall be established such that environmentally sensitive areas are not impacted. Erosion sediment control measures such as silt fence or silt fence on pavement shall be installed downgrade of the staging and stockpile areas and as directed by the Engineer, and diversions such as temporary asphalt berms or sandbags shall be placed upstream to prevent stormwater run-on from contacting the stockpile.

SED GRADING NOTE:

The contractor shall phase clearing and grading to minimize the area disturbed at a given time during connection. All areas not draining to an approved sediment control measure shall receive same-day stabilization.

SITE INFORM	ATION	
DISTURBED AREA (LOD)	CUT (CY)	FILL (CY)
13.27 ac	10.261	10,542

SC-02 ESC NOTES MONTGOMERY COUNTY EROSION AND SEDIMENT CONTROL DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Transportation Planning and Design Section Date RJM ENGINEERING 6031 University Blvd., Ste. 290 AS NOTED DATE: APRIL 2025 Chief, Division of Transportation Engineering Date Ellicott City, MD 21043 SHEET _____107___of ___374___ Designed by: KJS Drawn by: MT Checked by: DZ Project No. : <u>502108</u> REVISION

EROSION AND SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION GENERAL NOTES

- 1. Prior to clearing trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) Sediment Control Inspector (240) 777-0311 (48 hours notice) and the M-NCPPC, Planning Department, Plans Enforcement inspector (301) 495-4550 (48 hours notice), the Owners representative, and the site Engineer. In order for the meeting to occur, the applicant must provide one paper set of approved sediment control plans to the MCDPS sediment control inspector at the preconstruction meeting. If no plans are provided, the meeting shall not occur and will need to be rescheduled prior to commencing any work.
- 2. The limits of disturbance shall be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land
- 3. The permittee must obtain written approval from the M-NCPPC inspector, certifying that the limits of disturbance and tree protection
- measures are correctly marked and installed prior to commencing any clearing.

 4. Clear and grade for installation of sediment control devices.
- Install perimeter sediment control devices (e.g., silt fence, super silt fence, inlet protection).
- 6. Once the sediment control devices are installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing or grading. All areas not draining to an approved sediment control device must be stabilized at the conclusion of each work day.
- 7. Install storm drain tipes and structures in a manner ensuring stormwater can be conveyed in a non-erosive manner at all times during
- construction. Install outlet protection and stabilize outfalls prior to discharging pipe flow.

 8. Additional, detailed sequence of construction notes have been provided on this sheet.

NOTE 1: The permittee shall obtain written approval from MCDPS inspector, prior to the removal of any sediment control devices.

9. Upon completion of the work, As-Built Plans must be submitted to MCDPS for review and approval along with copies of all the material tickets, testing reports, and field logs.

DETAILED SEQUENCE CONSTRUCTION

BIOSWALES

- Install downstream perimeter sediment control measures (e.g., inlet protection) as shown on the plans.
- 2. Construct the path and perform rough grading for the bioswales in a manner that allows runoff to be conveyed in a non-erosive manner at all times during construction.
- 3. Stabilize areas surrounding the bioswales prior to installation of the udnerdrain, aggregate, sand, and bioretention soil media layers to prevent sediment deposition in the facility.
- prevent sediment deposition in the facility.
 4. Excavate to the facility subgrade to prepare for installation of the subsurface media layers. Only excavate the length that can be backfilled
- within the workday.
 5. Install soil stabilization matting immediately following the installation of the bioretention media.

GRASS SWALES AND DRAINAGE DITCHES

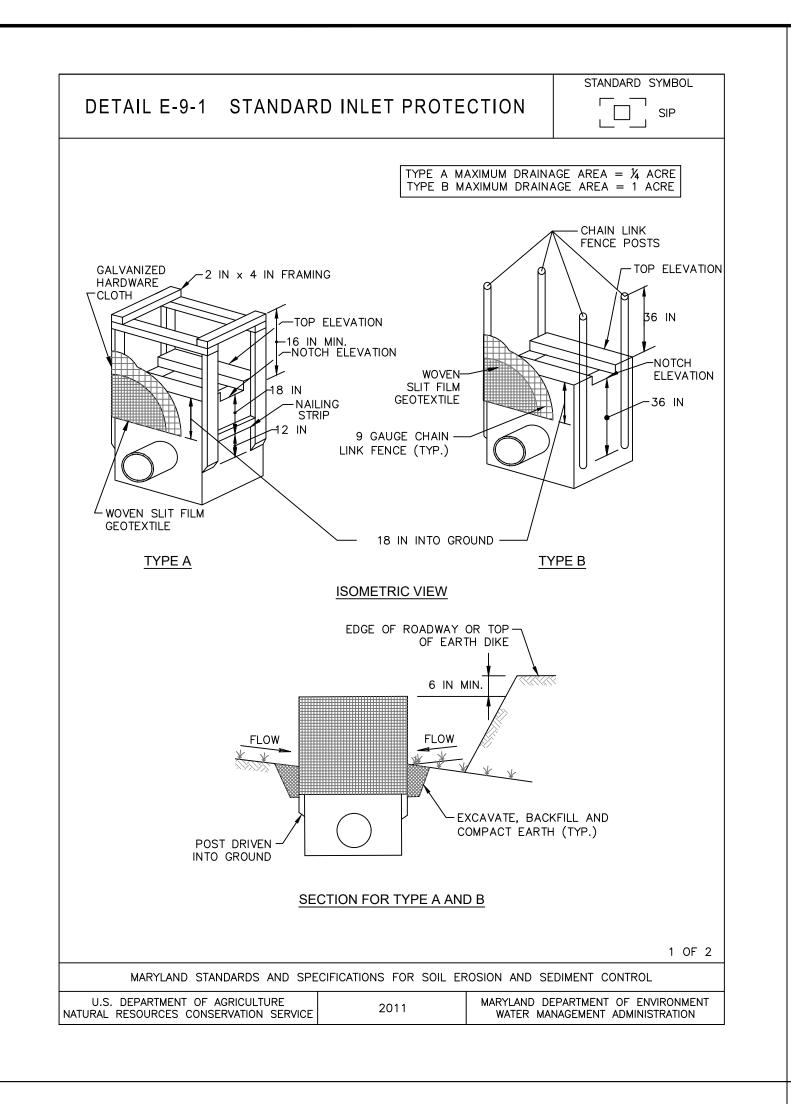
- 1. Install downstream perimeter sediment control measures (e.g., inlet protection) as shown on the plans. Areas where no downstream
- perimeter controls are feasible are identified as Same-Day Stabilization areas on the plans.
- 2. Construct the path and perform swale/ditch grading in a manner that allows runoff to be conveyed in a non-erosive manner at all times during construction.
- 3. Install soil stabilization matting immediately following the installation of the bioretention media.

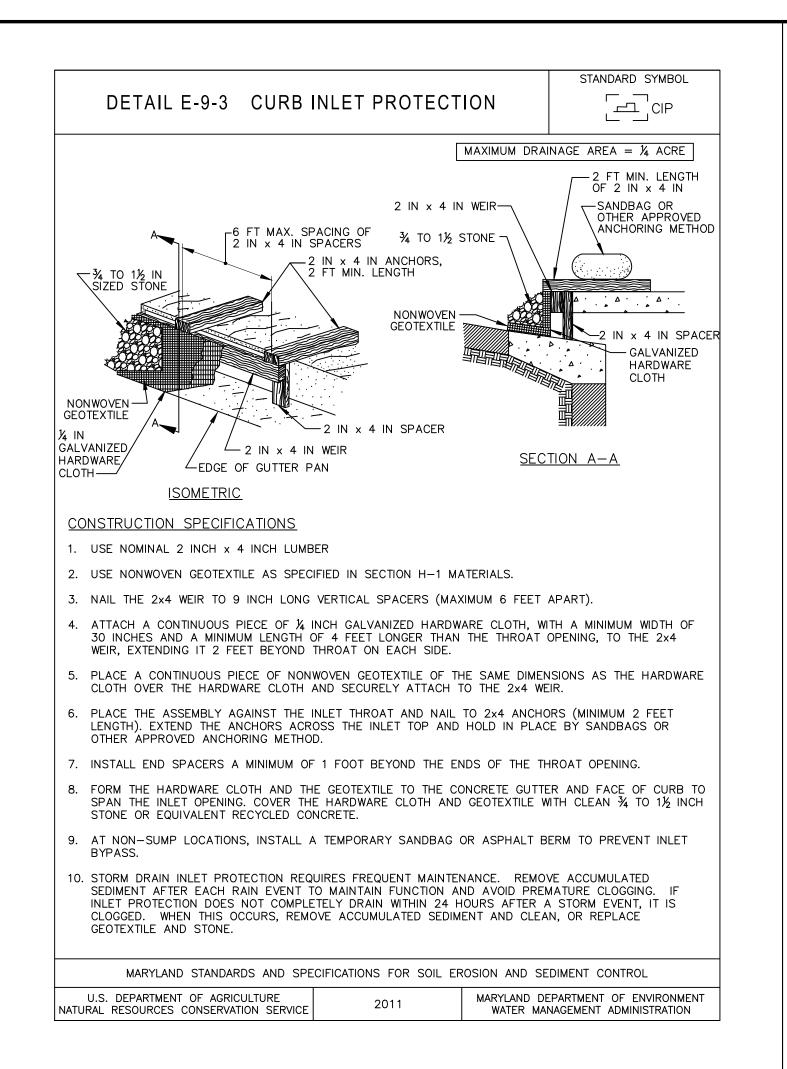
PEDESTRIAN BRIDGE OVER ROCK CREEK

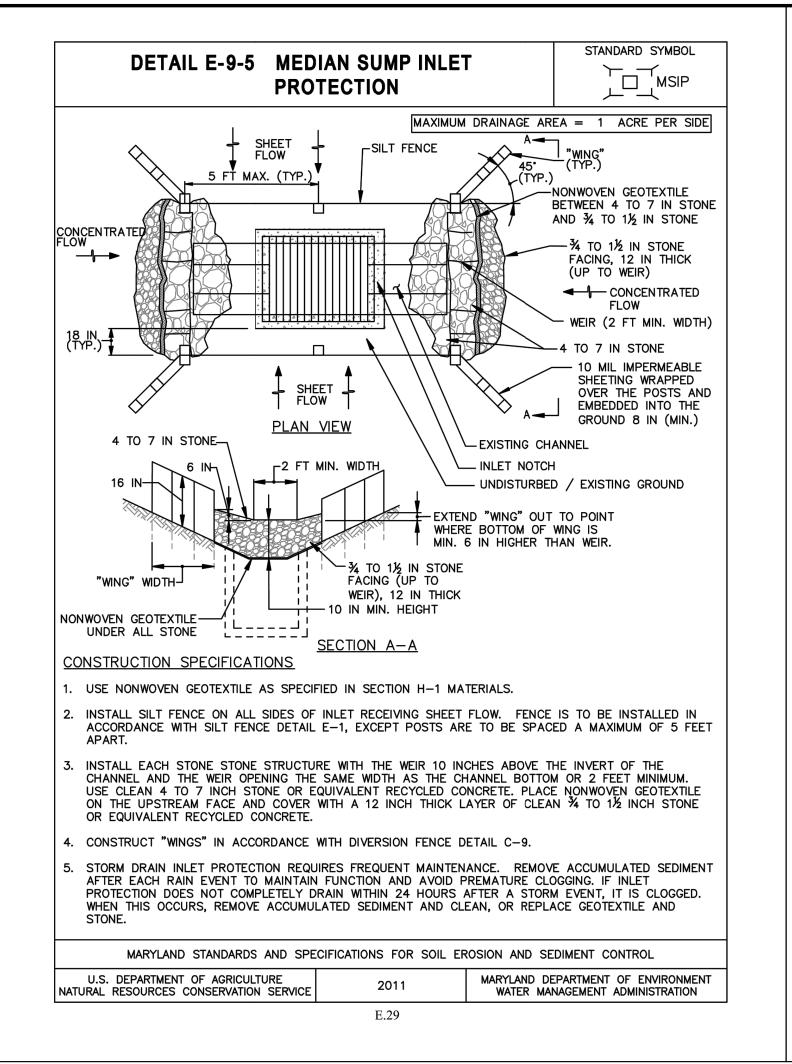
- 1. Install the riprap plunge pool at the ES-10-1 outfall and stabilize the surrounding areas. Install the upstream storm drain structures and piping to direct flows to the plunge pool and around the proposed pedestrian bridge foundation.
- 2. Install the sandbag barrier diversion for the side of the creek where the first abutment will be constructed. Dewatering shall be pumped
- through a portable sediment tank or DPS-approved sediment control practice.

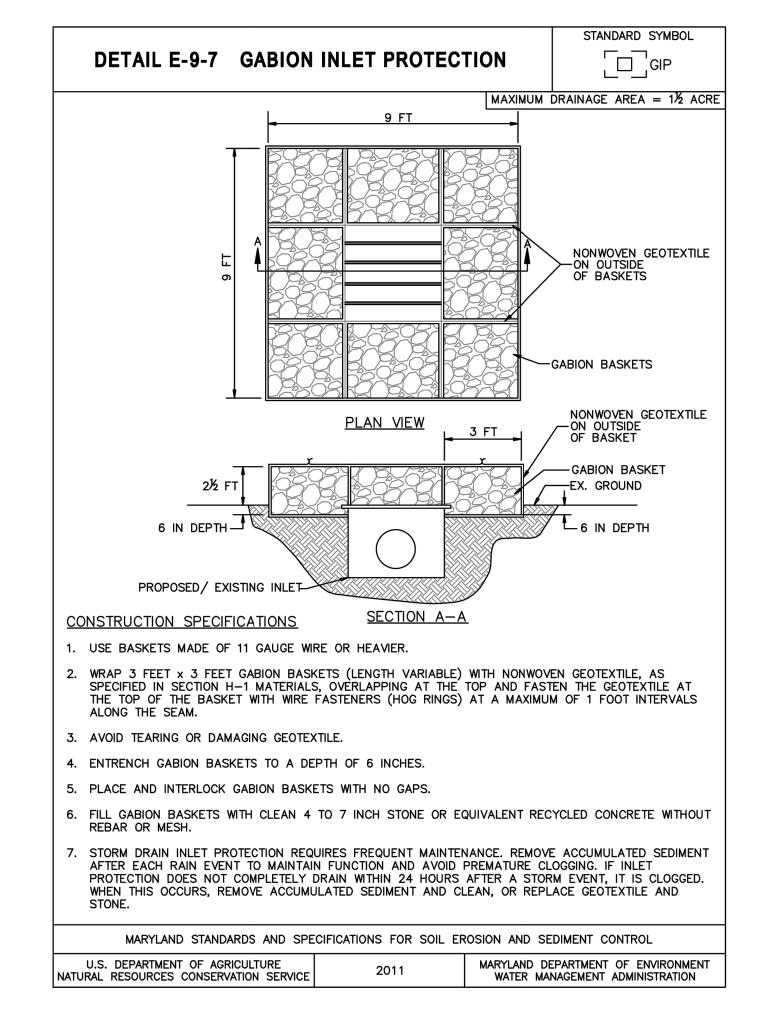
 3. Construct the pedestrian bridge foundation and stabilize the surrounding areas. The duration of disturbance behind the sandbag barriers
- shall not exceed two (2) weeks.
- 4. Following stabilization and with the approval of the DPS inspector, remove the sandbag barrier diversion.
 5. Repeat the process on the opposite side of the creek, installing sandbag barrier diversions, constructing the bridge foundation, and stabilizing the surrounding areas.

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND SC-03 SEQUENCE OF CONSTRUCT EROSION AND SEDIMENT CONTRO BOWIE MILL ROAD			SEDIMENT CONTROL
DIM ENGINEERING					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED	Date		BIKEWAY
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	AS NOTED	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>	SHEET <u>108</u> of <u>374</u>

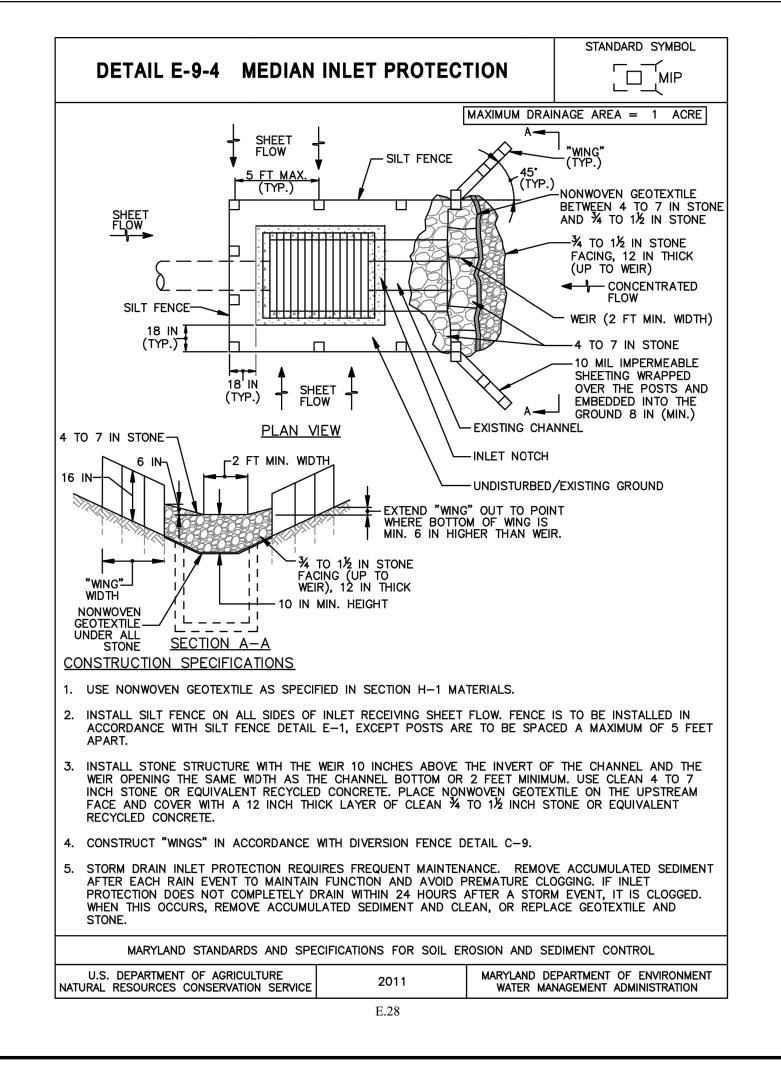


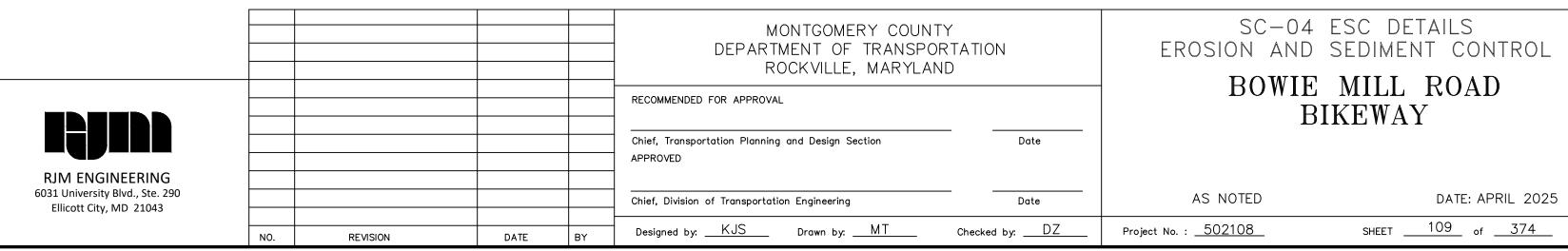


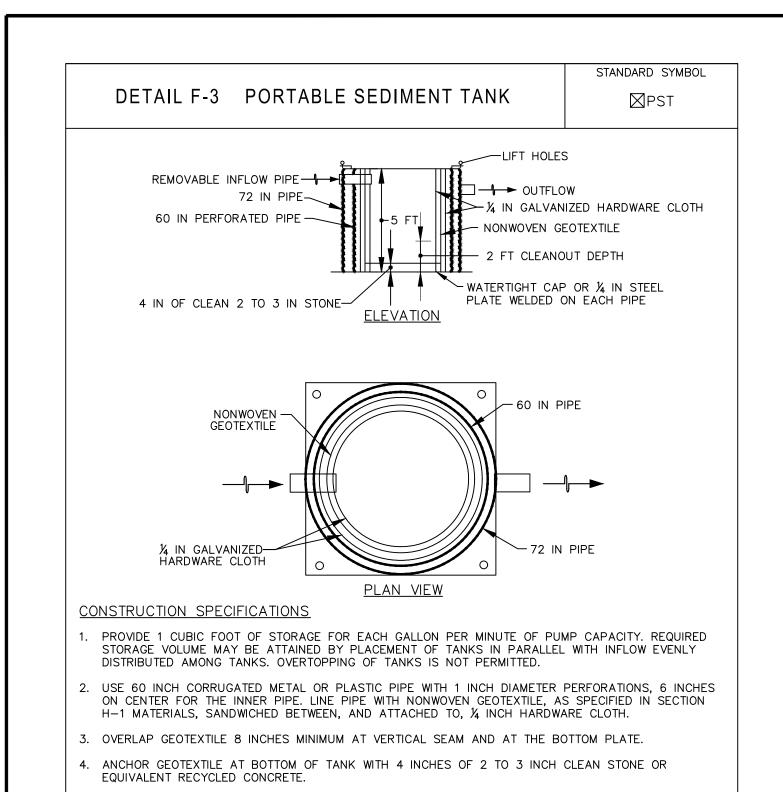












5. USE 72 INCH CORRUGATED METAL OR PLASTIC OUTER PIPE WITH PERMANENT OUTFLOW PIPE WITH

7. PLACE TANK ON LEVEL SURFACE AND DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE.

8. A PORTABLE SEDIMENT TANK REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT

FROM INNER PIPE WHEN IT REACHES TWO FEET IN DEPTH. IF SYSTEM CLOGS, PULL OUT INNER PIPE,

REMOVE ACCUMULATED SEDIMENT, AND REPLACE GEOTEXTILE. KEEP POINT OF DISCHARGE FREE OF

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

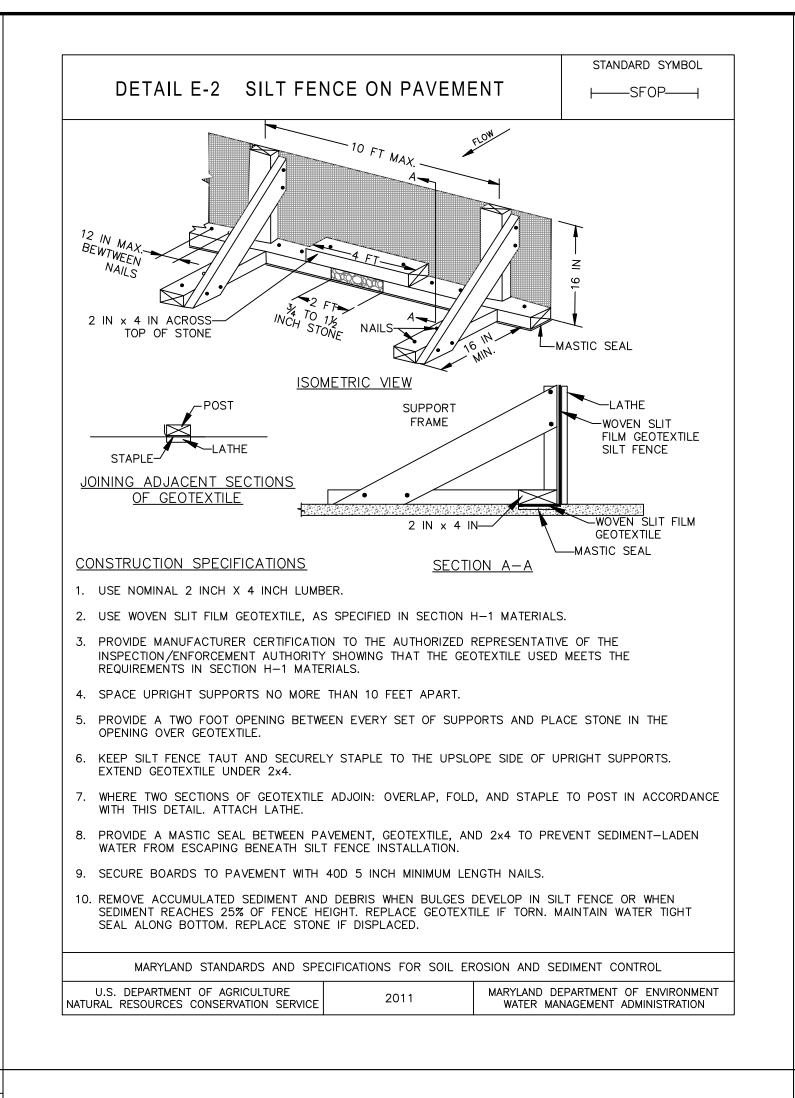
MARYLAND DEPARTMENT OF ENVIRONMENT

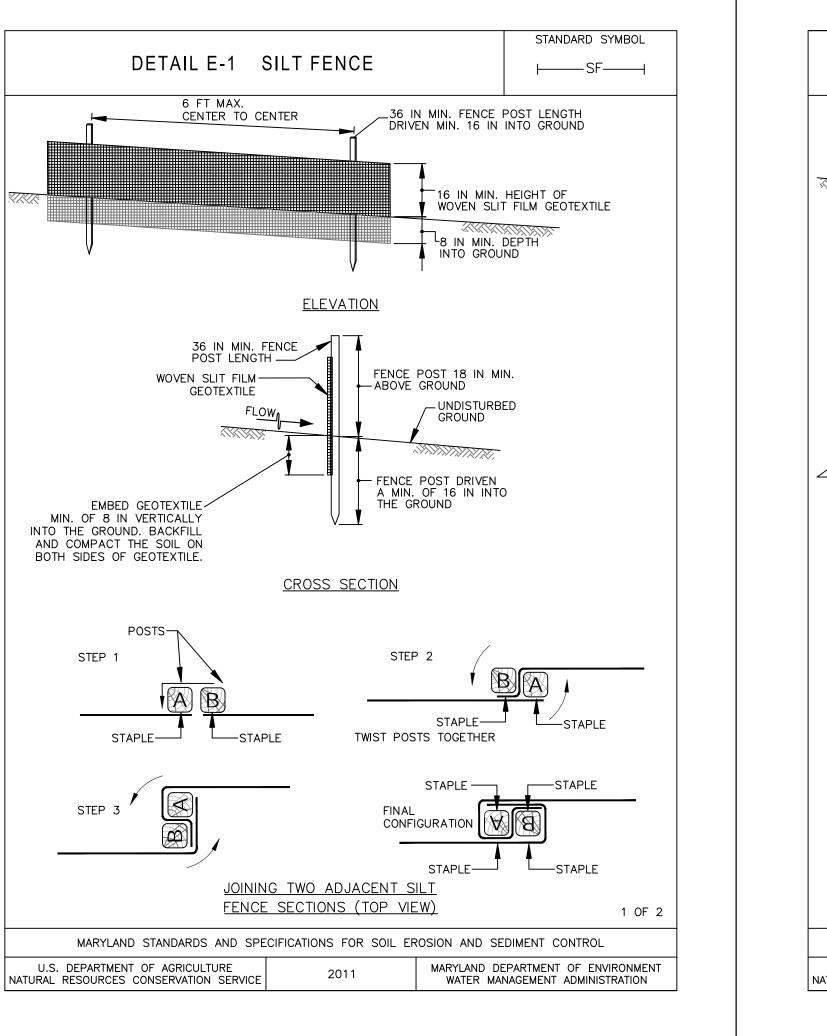
WATER MANAGEMENT ADMINISTRATION

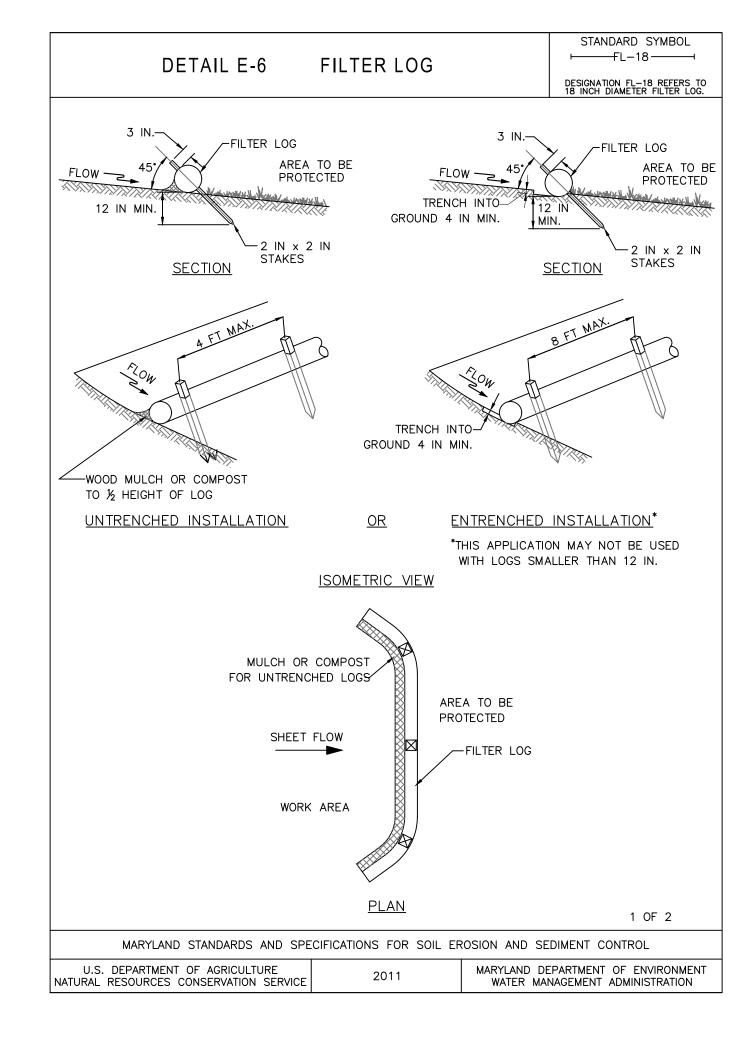
6. INFLOW PIPE MUST DISCHARGE INTO INNER PIPE AND BE REMOVABLE.

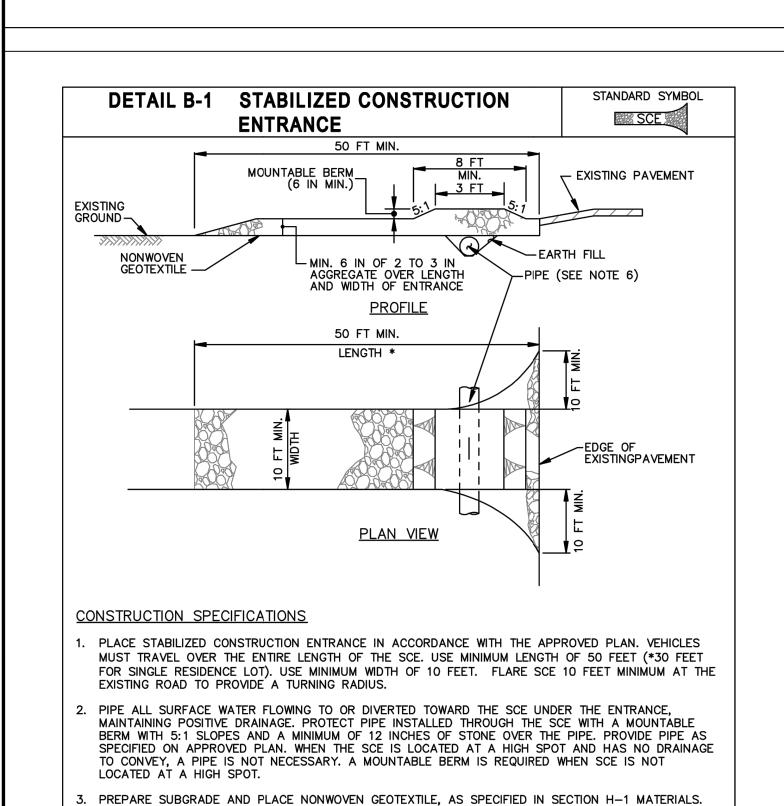
INVERT LOWER THAN INFLOW PIPE

NATURAL RESOURCES CONSERVATION SERVICE









4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE

OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR

TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING

ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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B.2

MARYLAND DEPARTMENT OF ENVIRONMENT

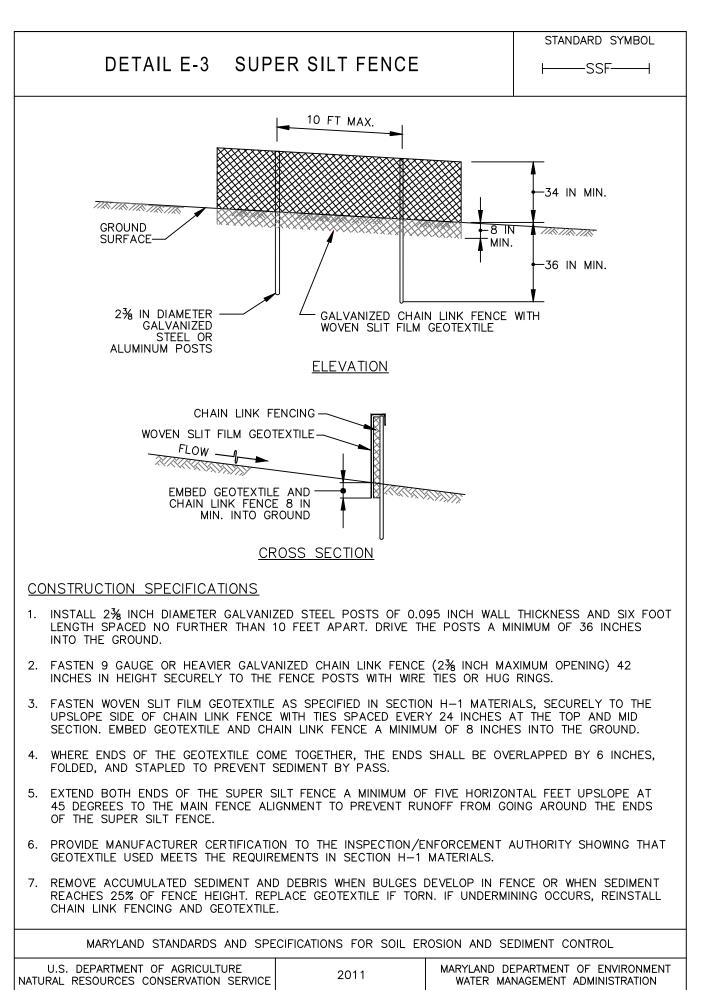
WATER MANAGEMENT ADMINISTRATION

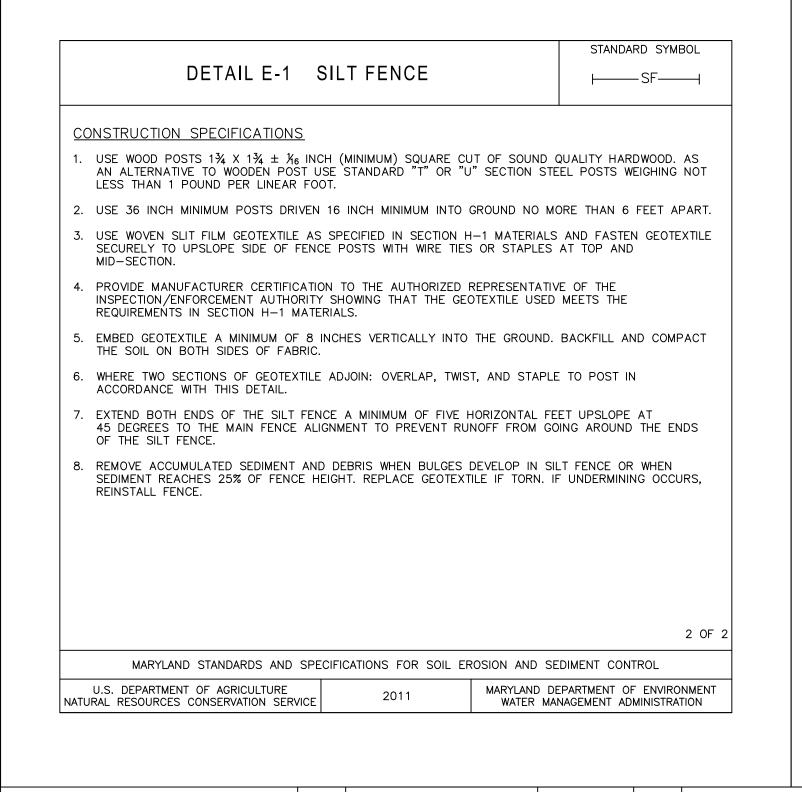
REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

U.S. DEPARTMENT OF AGRICULTURE

ATURAL RESOURCES CONSERVATION SERVICE



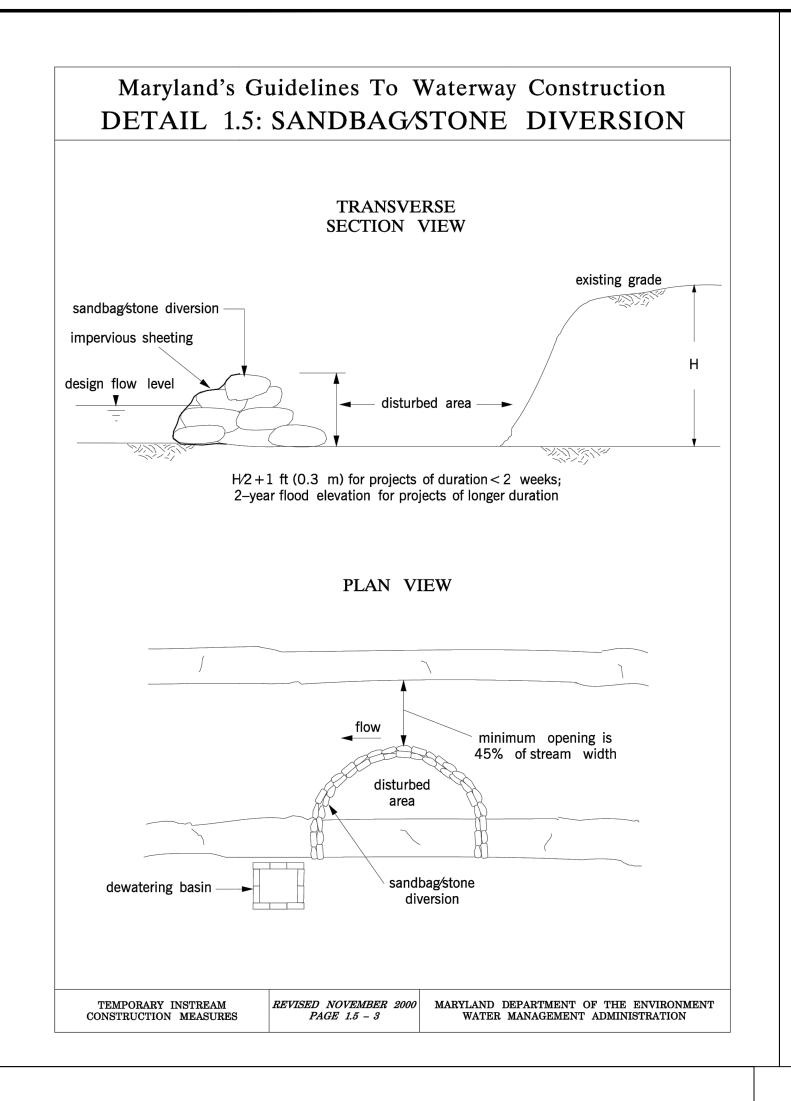


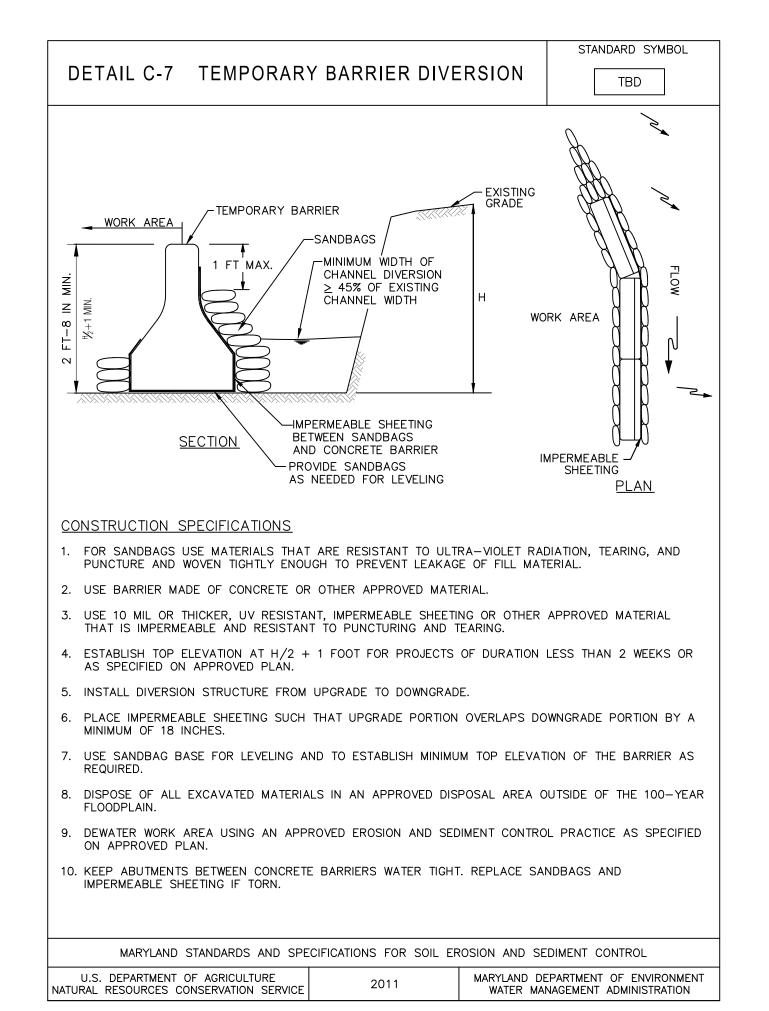
DETAIL E- 6 FILTER LOG DESIGNATION FL-18 REFERS TO 18 INCH DIAMETER FILTER LOG **CONSTRUCTION SPECIFICATIONS** PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOG. . FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION H—1 MATERIALS), OR OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM. INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE WITH THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SLOPE CREATING A "J" SHAPE AT EACH END TO PREVENT BYPASS. . FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST ON UPHILL SIDE OF THE SLOPE ALONG LOG. . STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG OR TRENCH LOG INTO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSER. . USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND OF SUFFICIENT LENGTH TO ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRUDING ABOVE LOG. WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM AND STAKE. . REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF 1/5 THE EXPOSED HEIGHT OF LOG AND REPLACE MULCH. REPLACE FILTER LOG IF TORN. REINSTALL FILTER LOG IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APPLICATIONS, ESTABLISH AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. 2 OF 2 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

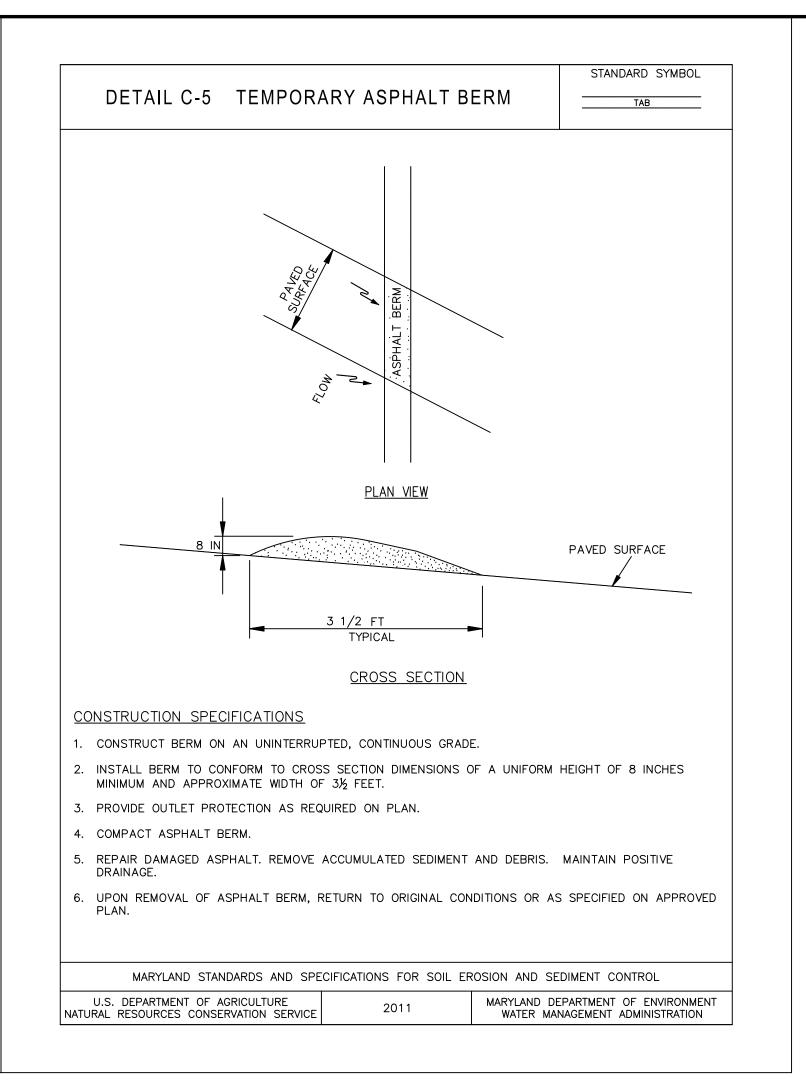
					MONTGOMERY COUNT DEPARTMENT OF TRANSPO ROCKVILLE, MARYLAN	RTATION	EROSION AND	ESC DETAILS SEDIMENT CONTROL
					RECOMMENDED FOR APPROVAL			MILL ROAD IKEWAY
					Chief, Transportation Planning and Design Section APPROVED	Date		
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	AS NOTED	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>	SHEET110 of374

STANDARD SYMBOL

FL-18

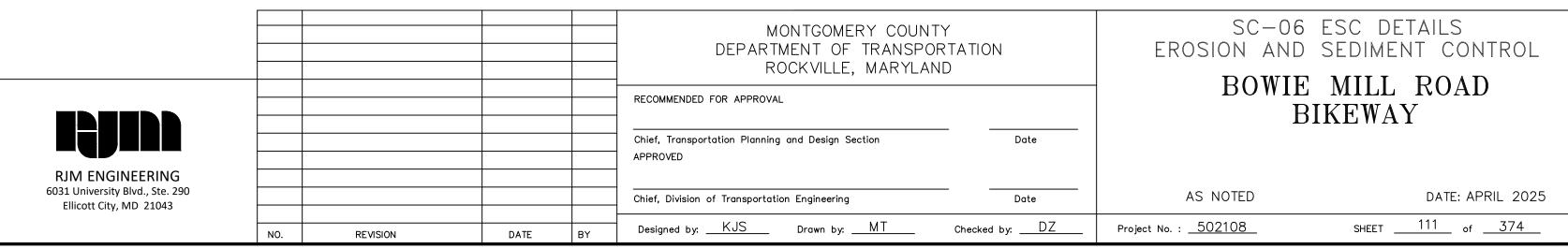






COORDINATE ALL TREE PRESERVATION ACTIVITIES WITH EROSION & SEDIMENT CONTROL ACTIVITIES AND THE COUNTY ARBORIST AND CONSTRUCTION INSPECTOR.

- 1. PLACE TREE PROTECTION FENCE AS INDICATED ON THE PLANS AND AS PER THE DIRECTION OF THE COUNTY ARBORIST AND CONSTRUCTION INSPECTOR PRIOR TO CONSTRUCTION ACTIVITIES.
- 2. FOR UNDERGROUND UTILITY CONSTRUCTION, ALL TREE PROTECTION MEASURES AND EXCAVATION OPERATIONS SHALL HAVE ADDITIONAL SUPERVISION PROVIDED BY THE COUNTY ARBORIST. UTILITY WORK SHALL BE CONDUCTED SO AS TO AVOID INJURY TO THE TREE TRUNKS, BRANCHES, AND ROOTS.
- 3. MAINTAIN WELL-DEFINED AND MARKED PEDESTRIAN WALKWAYS DURING CONSTRUCTION AND DO NOT ALLOW PEDESTRIAN TRAFFIC OVER TREE ROOTS.
- 4. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE OF A STREET TREE WITHOUT THE COUNTY ARBORIST'S PERMISSION: ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT; AND BLACKTOP, AND TRENCHING.
- 5. NO HEAVY EQUIPMENT SHALL BE USED TO REMOVE EXISTING HARDSCAPE WITHIN THE DRIPLINE OF AN EXISTING STREET TREE. EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES, AND ROOTS.
- 6. NO ROOTS GREATER THAN TWO (2) INCHES IN DIAMETER SHALL BE CUT WITHOUT THE PERMISSION OF THE COUNTY ARBORIST.
- 7. PERFORM AERATION OPERATIONS AROUND TREE ROOTS AND GRASS PANEL AREAS TO IMPROVE DRAINAGE IN COMPACTED SOILS.
- 8. PROVIDE WATER, ADDITIONAL FERTILIZER, AND ORGANIC AMENDMENTS TO PLANTED AREAS THAT ARE EXPECTED TO REMAIN, PRIOR TO, DURING, AND POST-CONSTRUCTION. DO NOT ALLOW TREES TO BECOME WATER-STRESSED DURING OR POST-CONSTRUCTION.
- 9. AVOID CAUSING CHANGES TO PH IN SOILS ASSOCIATED WITH PLANTED AREAS. MATERIALS PLACED IN CLOSE PROXIMITY TO TREE ROOTS SHOULD BE AS SELF-CONTAINED AS POSSIBLE TO PREVENT FUTURE LEACHING OF MATERIALS AND CHEMICALS INTO SOILS.
- 10. MINIMIZE EXPOSURE OF ROOTS DURING CONSTRUCTION WHEN WORK IS PERFORMED IN COLD OR HOT WEATHER.





DEPARTMENT OF PERMITTING SERVICES

Diane R. Schwartz Jones Director

September 21, 2016

Mr. Rob Galla **URS** Corporation 4 North Park Drive, Suite 300 Hunt Valley, MD 21030

> Re: COMBINED STORMWATER MANAGEMENT CONCEPTISITE DEVELOPMENT STORMWATER MANAGEMENT PLAN Request for MacArthur Boulevard Bike Path Preliminary Plan #: N/A SM File #: 254373 Tract Size/Zone: 9.7/ROW Total Concept Area: 9.7ac Lots/Block: N/A Parcel(s): N/A Watershed: Potomac River

Dear Mr. Galla:

Isiah Leggett

County Executive

Based on a review by the Department of Permitting Services Review Staff, the Combined Stormwater Management Concept/Site Development Stormwater Management Plan for the above mentioned site is acceptable. The plan proposes to meet required stormwater management goals via the request of a full stormwater management waiver due to site constraints.

The following items will need to be addressed during the final stormwater management design plan stage:

- 1. A detailed review of the stormwater management computations will occur at the time of detailed
- 2. An engineered sediment control plan must be submitted for this development.
- 3. Adequate stabilization of steep slopes will need to be addressed during the detailed plan stage.

This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 is required.

255 Rockville Pike, 2nd Floor • Rockville, Maryland 20850 • 240-777-6300 • 240-777-6256 TTY www.montgomerycountymd.gov

Mr. Rob Galla September 21, 2016

Page 2 of 2

This letter must appear on the final stormwater management design plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Thomas Weadon at 240-777-6309.

Sincerely,

Mark C. Etheridge, Manager Water Resources Section Division of Land Development Services

MCE: TEW

SM File # 254373

ESD Acres: STRUCTURAL Acres: N/A WAIVED Acres: 9.7ac



Marc Elrich County Executive Rabbiah Sabbakhan Director

October 30, 2024

Mr. Kevin Schiefer, P.E. RJM Engineering, Inc. 6031 University Blvd. Suite 290 Ellicott City, Maryland 20143

> Re: REVISED COMBINED PRELIMINARY AND FINAL WATER QUALITY PLAN for Bowie Mill Road Bikeway Preliminary Plan #: N/A SM File #: 285360 Tract Size/Zone: 22.7 Acres Total Concept Area: 15.73 Acres Lots/Block: N/A Parcel(s): N/A Watershed: Upper Rock Creek SPA Redevelopment: No

Dear Mr. Schiefer:

Preliminary/Final Water Quality Plan for the for the above-mentioned site is acceptable. The Preliminary/Final Water Quality Plan proposes to meet required stormwater management goals via Environmental Site Design to include Bioswales, Permeable Pavement, and Grassed Swales. This approval is for the elements of the Water Quality Plan of Which DPS has the lead agency and does not include limits on the imperviousness or buffer encroachments.

Based on a review by the Department of Permitting Services Review Staff, the Revised

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

- 1. A detailed review of the stormwater management computations will occur at the time of detailed plan review.
- 2. An engineered sediment control plan must be submitted for this development.
- 3. All filtration media for manufactured best management practices, whether for new development or redevelopment, must consist of MDE approved material.
- 4. This revision supersedes the previous approval letter dated January 22, 2020.

This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 is not required.



2425 Reedie Drive, 7th Floor, Wheaton, Maryland 20902 | 240-777-0311 www.montgomerycountymd.gov/permittingservices

Mr. Schiefer December 10, 2024 Page 2 of 2

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Andrew Kohler at 240-777-6275.

Sincerely,

Mark (Theridge Mark C. Etheridge, Manager Water Resources Section Division of Land Development Services

MCE: 285360

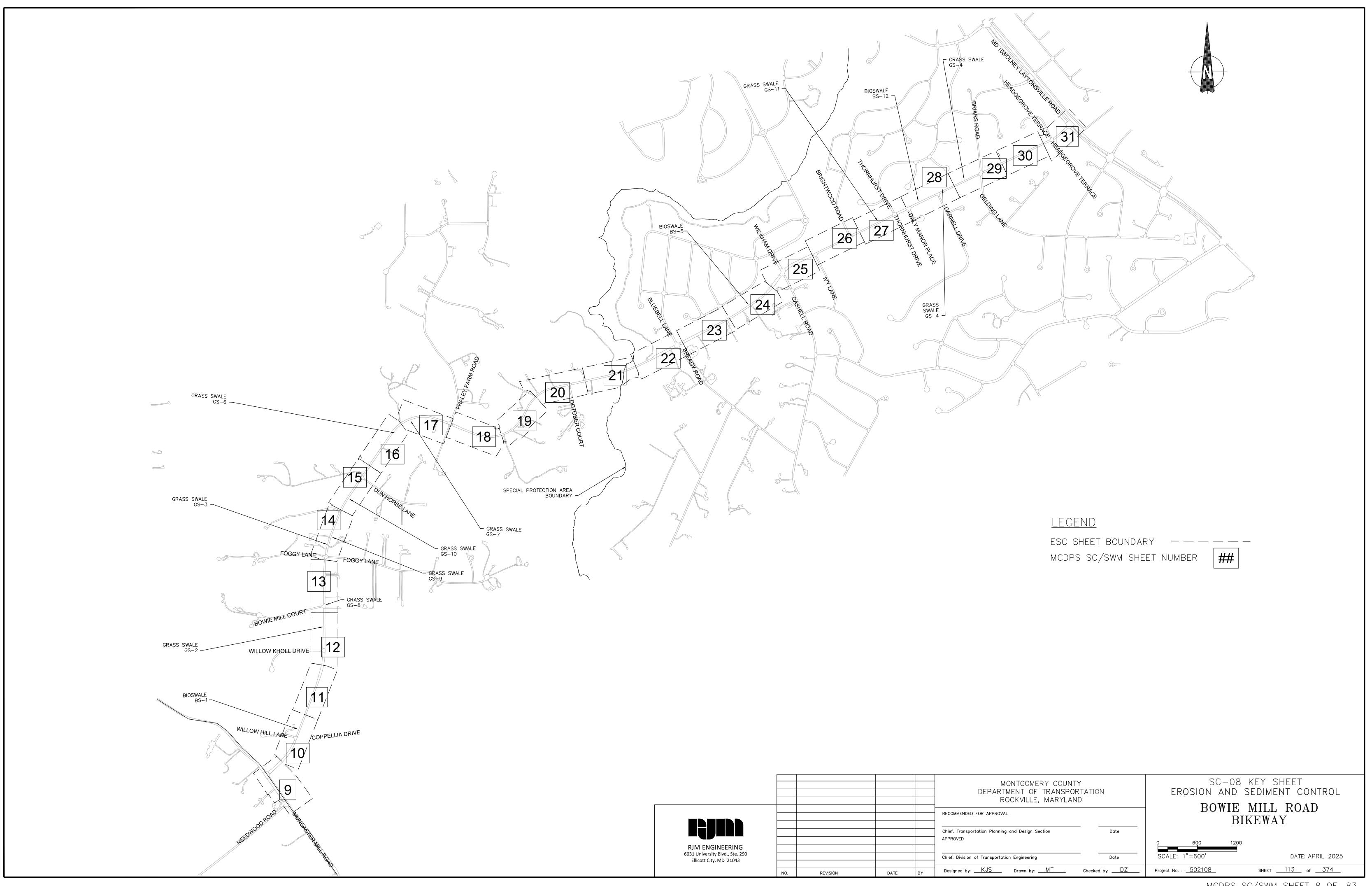
RJM ENGINEERING 6031 University Blvd., Ste. 290

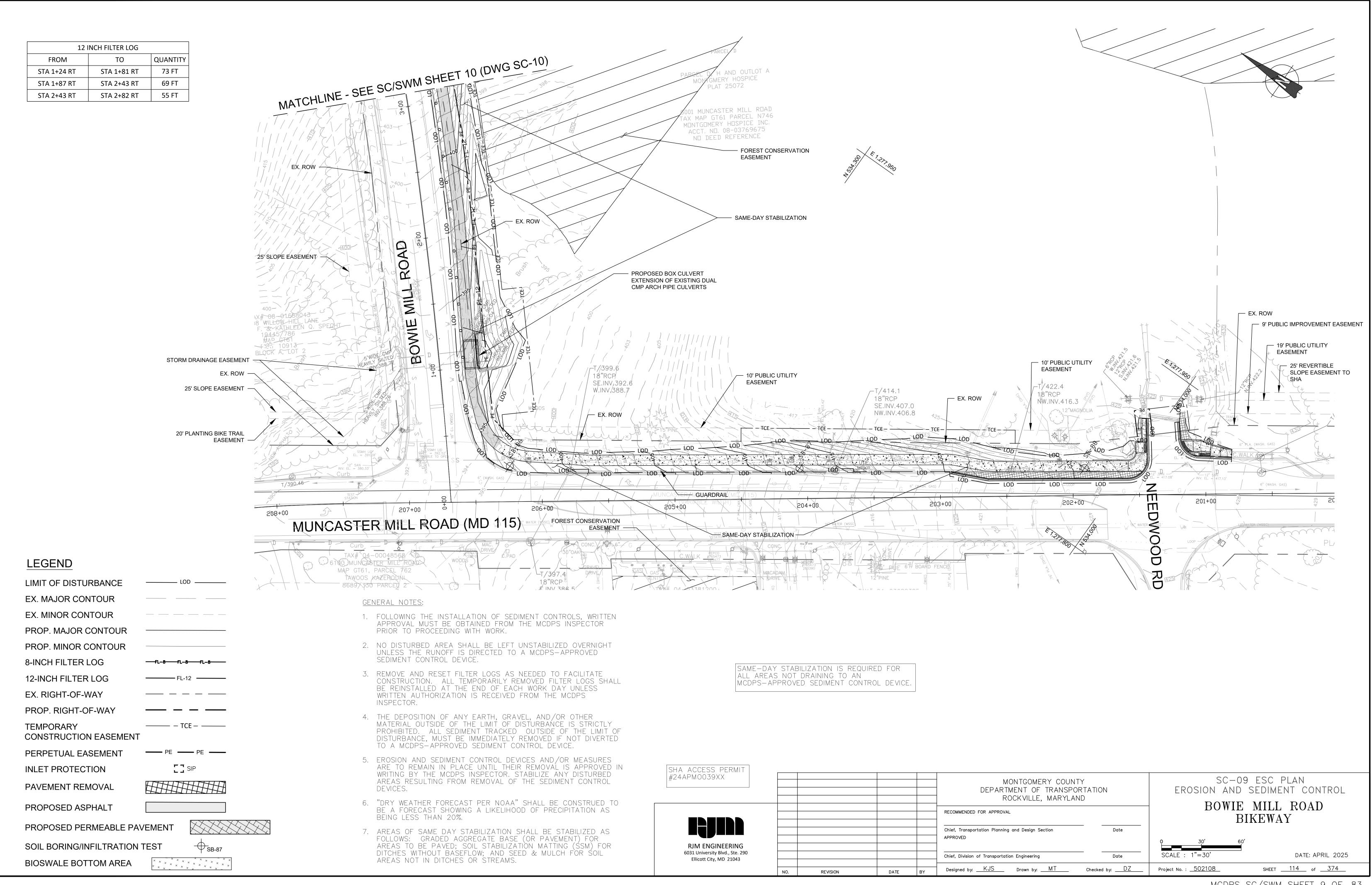
Ellicott City, MD 21043

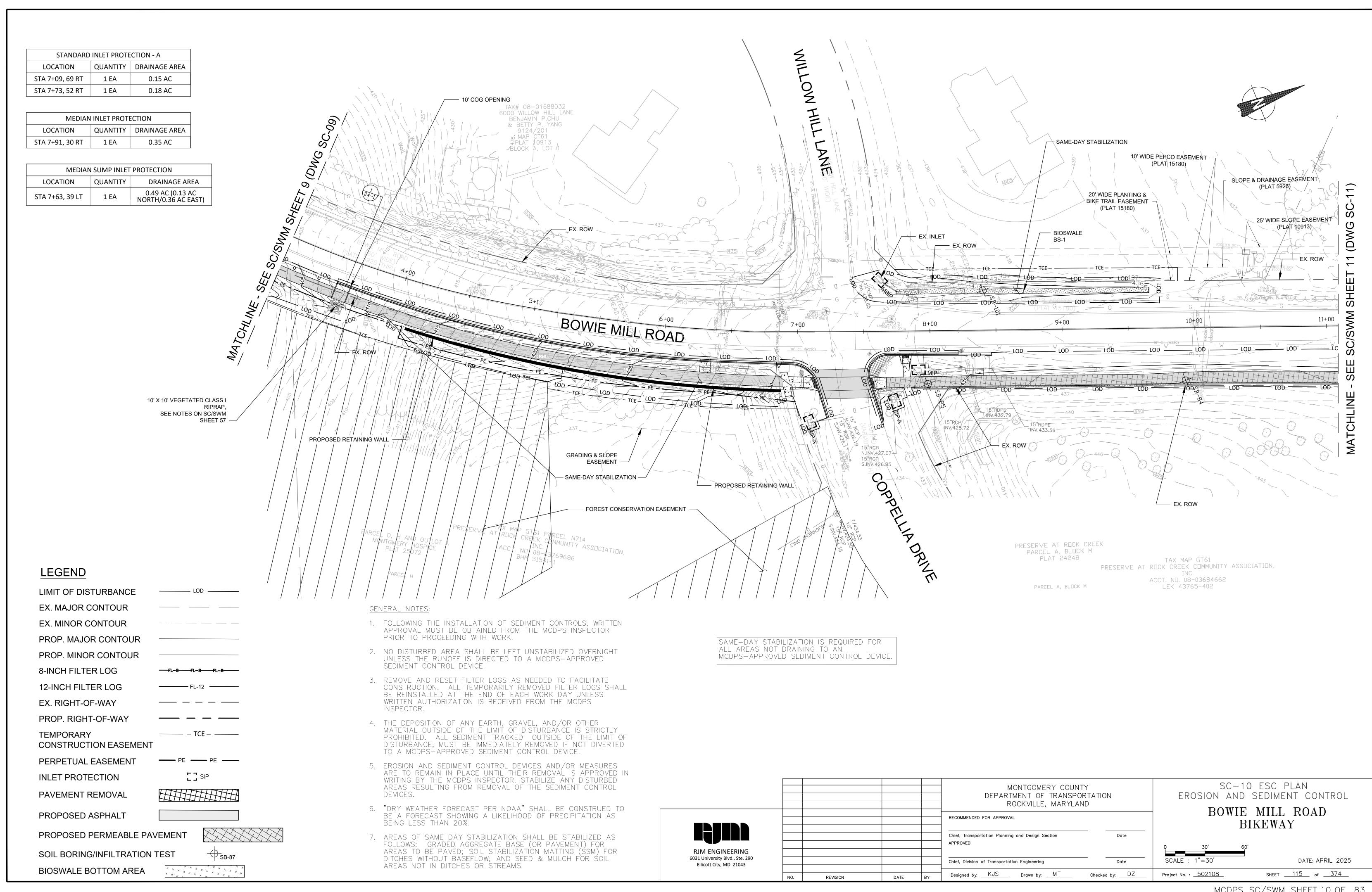
cc: SM File # 285360

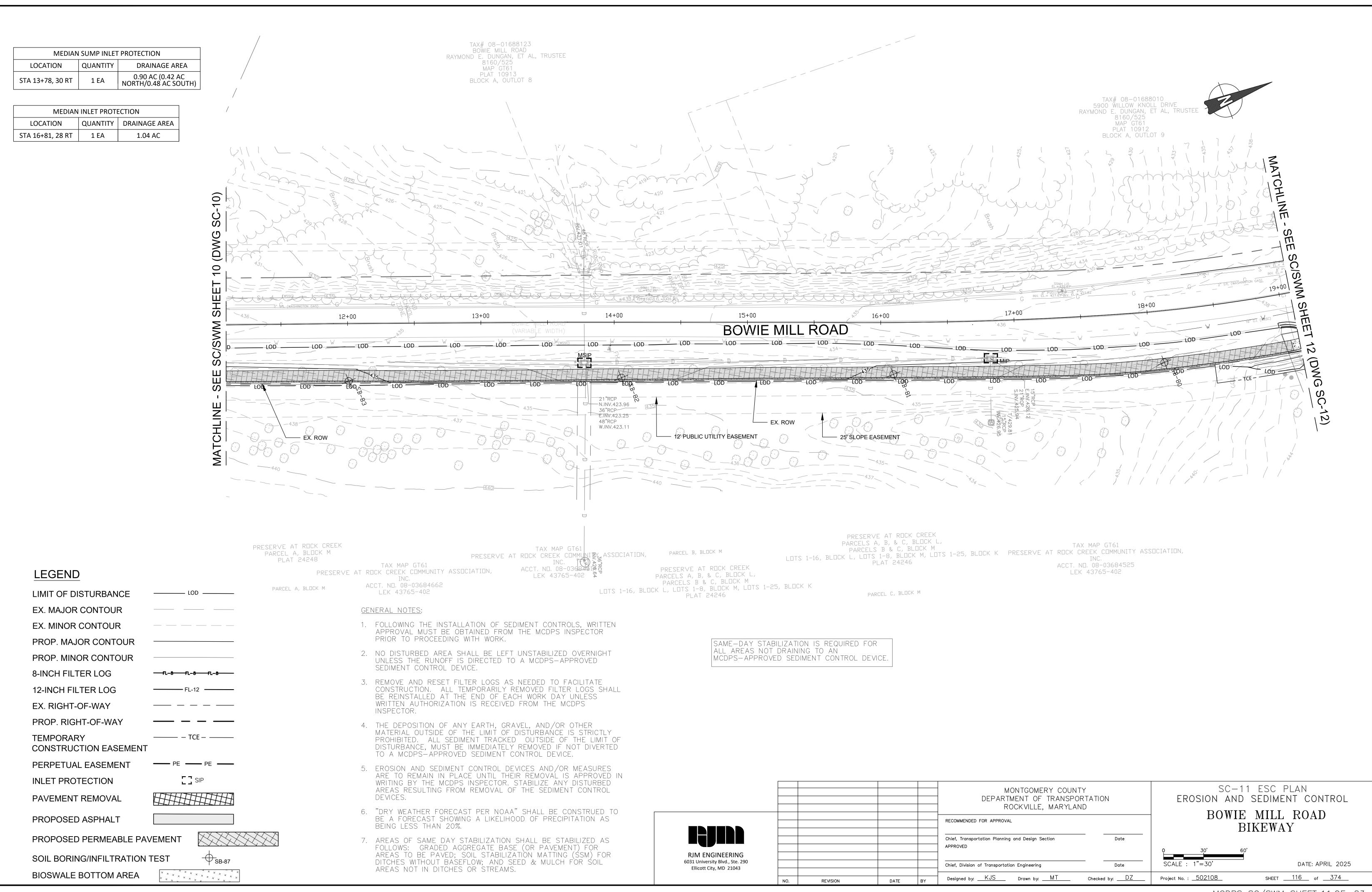
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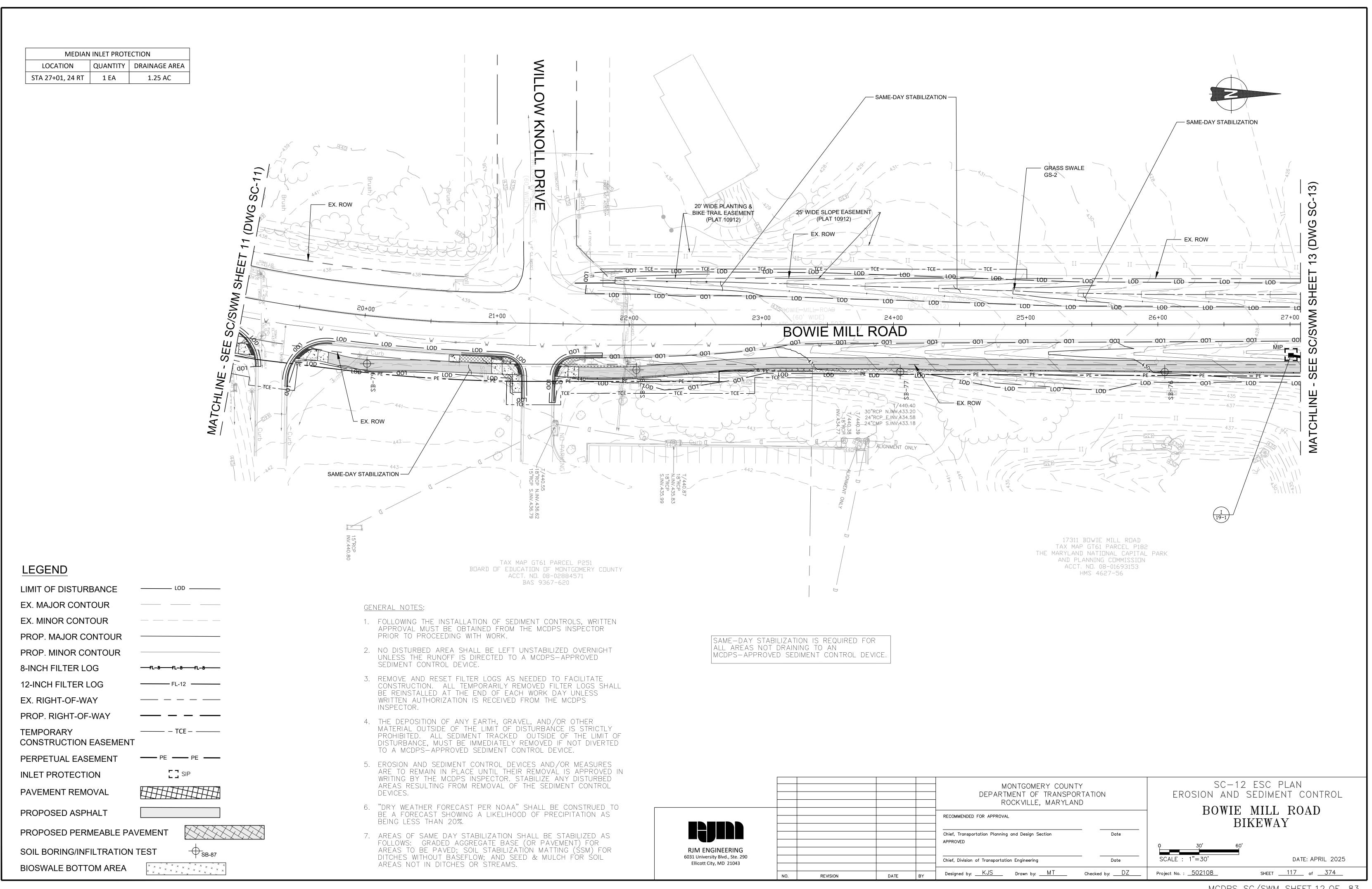
		MONTGOMERY COUNTY DEPARTMENT OF TRANSPOR ROCKVILLE, MARYLANI	TATION	SC-07 SWM CONCEPT APPROVALS EROSION AND SEDIMENT CONTROL BOWIE MILL ROAD			
		RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED	Date	BOWIE MILL ROAD BIKEWAY			
		Chief, Division of Transportation Engineering	Date	AS NOTED	DATE: APRIL 2025		
NO. REVISION DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>	SHEET112 of374		







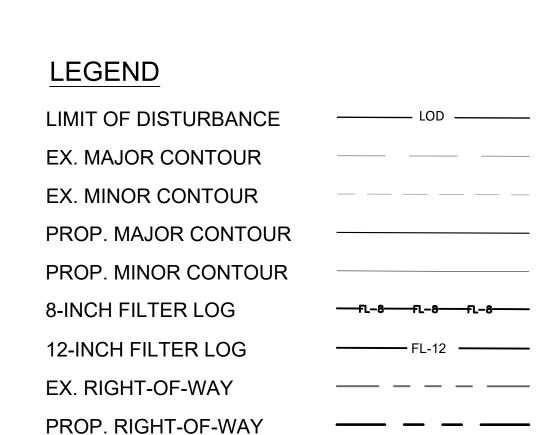




MEDIAN INLET PROTECTION						
LOCATION	QUANTITY	DRAINAGE AREA				
STA 27+65, 23 RT	1 EA	1.23 AC				
STA 29+19, 28 RT	1 EA	1.21 AC				

MEDIAN SUMP INLET PROTECTION						
LOCATION	QUANTITY	DRAINAGE AREA				
STA 34+74, 27 RT	1 EA	1.27 AC (0.60 AC NORTH/0.67 AC SOUTH)				

EXISTING PIPES TO BE REMOVED							
FROM	ТО	LENGTH	SIZE				
STA 27+66, 26 RT	STA 27+86, 26 RT	20 FT	12 X 20 IN				
STA 29+28, 26 RT	STA 29+48, 26 RT	20 FT	12 X 20 IN				
STA 32+57, 25 RT	STA 33+02, 26 RT	45 FT	12 X 24 IN				



CONSTRUCTION EASEMENT

PERPETUAL EASEMENT

INLET PROTECTION

INLET PROTECTION

INLET PROTECTION

PAVEMENT REMOVAL

PROPOSED ASPHALT

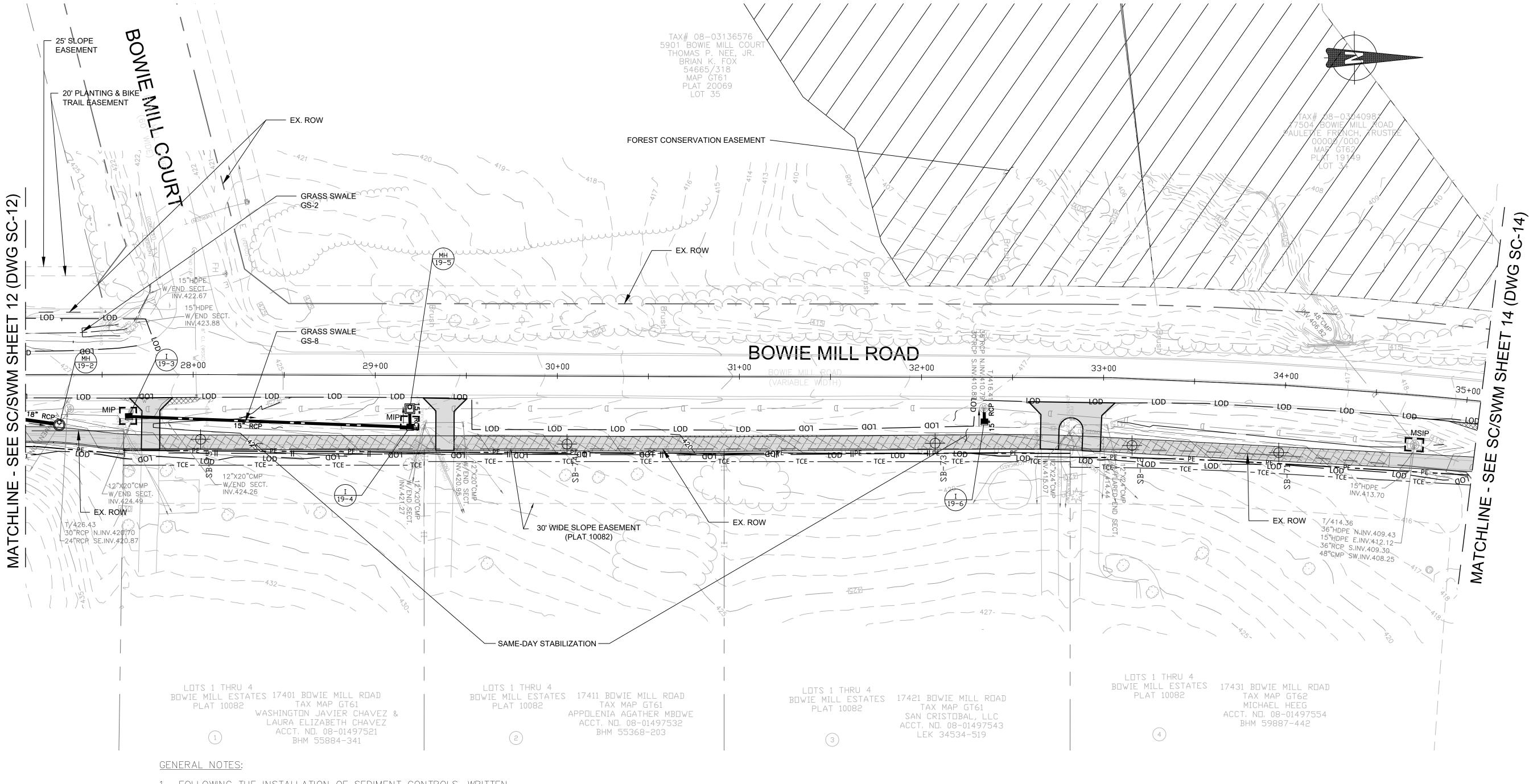
PROPOSED PERMEABLE PAVEMENT

SOIL BORING/INFILTRATION TEST

TEMPORARY

BIOSWALE BOTTOM AREA

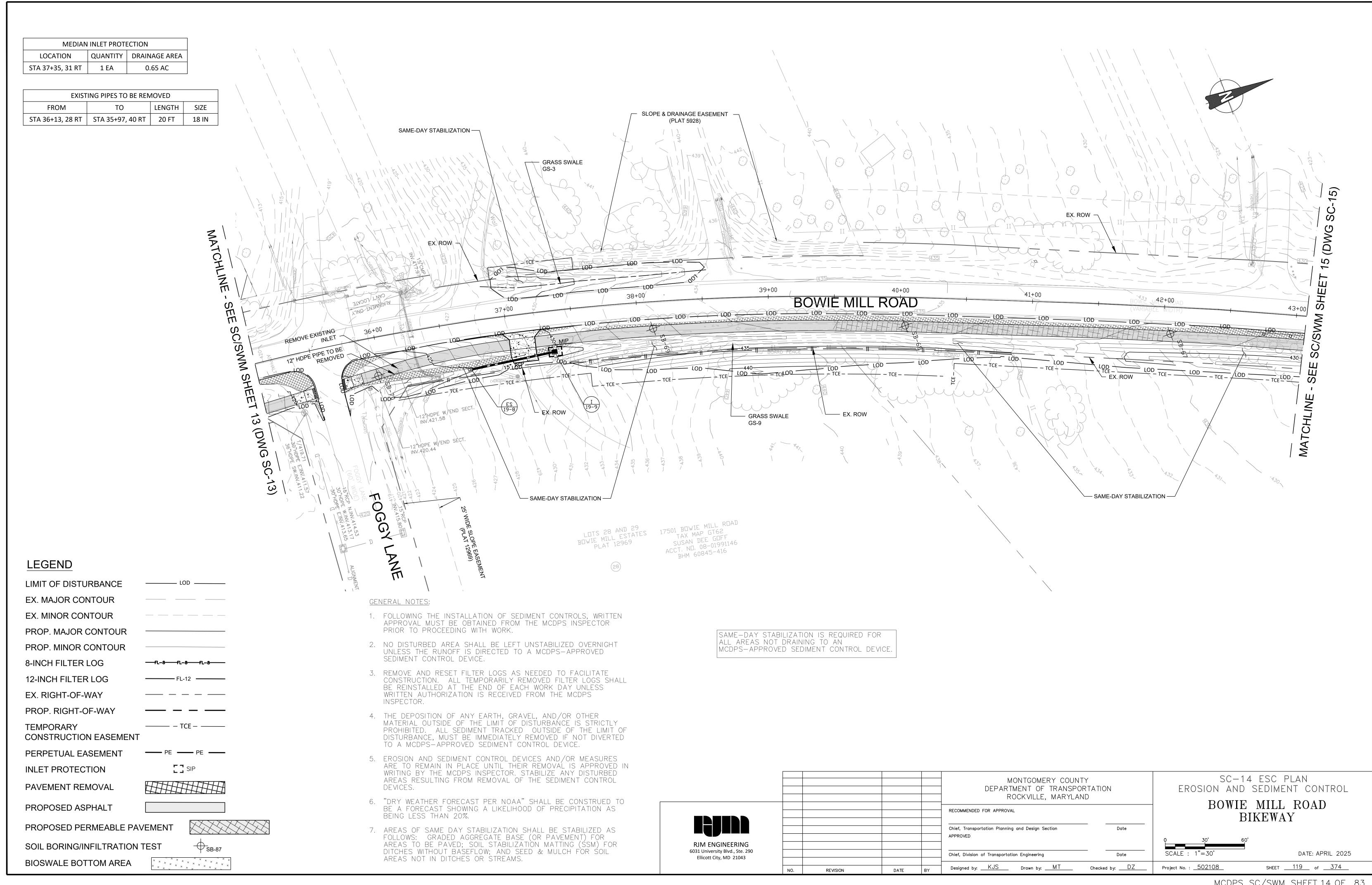
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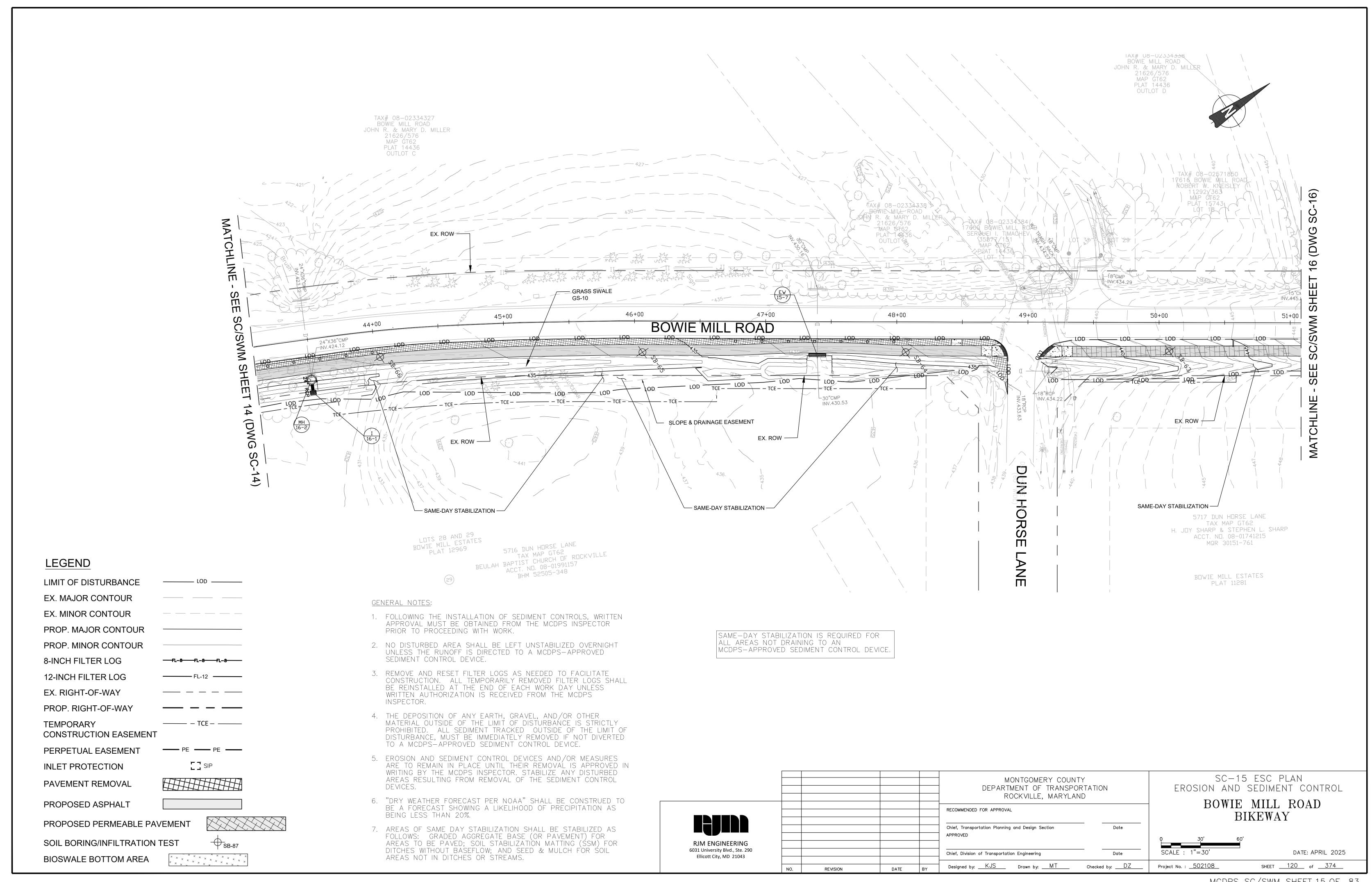


- 1. FOLLOWING THE INSTALLATION OF SEDIMENT CONTROLS, WRITTEN APPROVAL MUST BE OBTAINED FROM THE MCDPS INSPECTOR PRIOR TO PROCEEDING WITH WORK.
- 2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO A MCDPS—APPROVED SEDIMENT CONTROL DEVICE.
- 3. REMOVE AND RESET FILTER LOGS AS NEEDED TO FACILITATE CONSTRUCTION. ALL TEMPORARILY REMOVED FILTER LOGS SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE MCDPS INSPECTOR.
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- 6. "DRY WEATHER FORECAST PER NOAA" SHALL BE CONSTRUED TO BE A FORECAST SHOWING A LIKELIHOOD OF PRECIPITATION AS BEING LESS THAN 20%.
- 7. AREAS OF SAME DAY STABILIZATION SHALL BE STABILIZED AS FOLLOWS: GRADED AGGREGATE BASE (OR PAVEMENT) FOR AREAS TO BE PAVED; SOIL STABILIZATION MATTING (SSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS.

SAME-DAY STABILIZATION IS REQUIRED FOR ALL AREAS NOT DRAINING TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE.

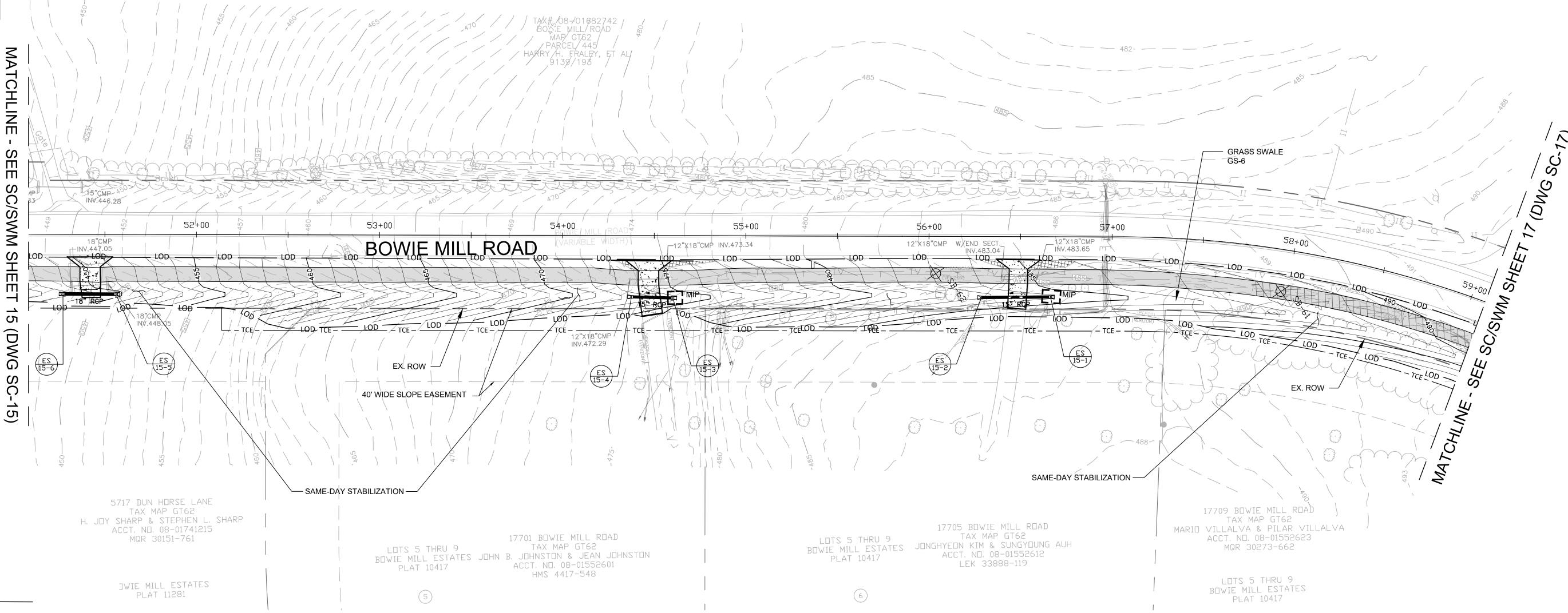
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RJM ENGINEERING					Chief, Transportation Planning and Design Section APPROVED	Date	0 30'	60'
6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	SCALE : 1"=30'	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT C	Checked by: DZ	Project No. : <u>502108</u>	SHEET <u>118</u> of <u>374</u>





MEDIAN INLET PROTECTION				
LOCATION	QUANTITY	DRAINAGE AREA		
STA 51+56, 33 RT	1 EA	1.05 AC		
STA 54+60, 34 RT	1 EA	0.65 AC		

EXISTING PIPES TO BE REMOVED				
FROM	ТО	LENGTH	SIZE	
STA 51+31, 28 RT	STA 51+52, 27 RT	20 FT	18 IN	
STA 54+37, 24 RT	STA 54.57, 24 RT	20 FT	12 X 18 IN	
STA 56+40, 23 RT	STA 56+60, 24 RT	20 FT	12 X 18 IN	



LEGEND

LIMIT OF DISTURBANCE _____ LOD _____ **EX. MAJOR CONTOUR** EX. MINOR CONTOUR PROP. MAJOR CONTOUR PROP. MINOR CONTOUR 8-INCH FILTER LOG 12-INCH FILTER LOG EX. RIGHT-OF-WAY PROP. RIGHT-OF-WAY **TEMPORARY** ——— — TCE — ——— CONSTRUCTION EASEMENT PERPETUAL EASEMENT INLET PROTECTION

PROPOSED PERMEABLE PAVEMENT

SOIL BORING/INFILTRATION TEST

SB-87

BIOSWALE BOTTOM AREA

PAVEMENT REMOVAL

PROPOSED ASPHALT

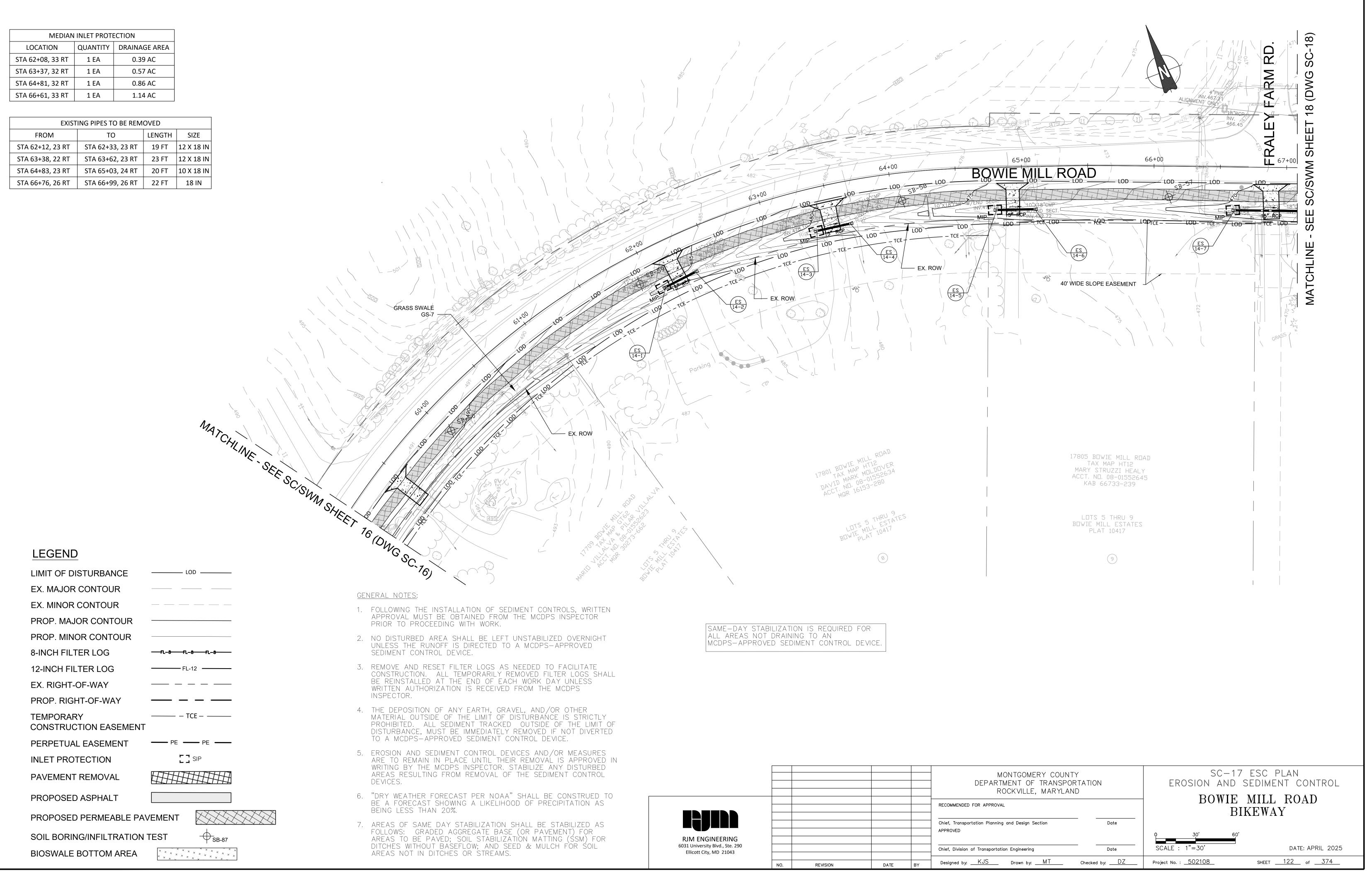
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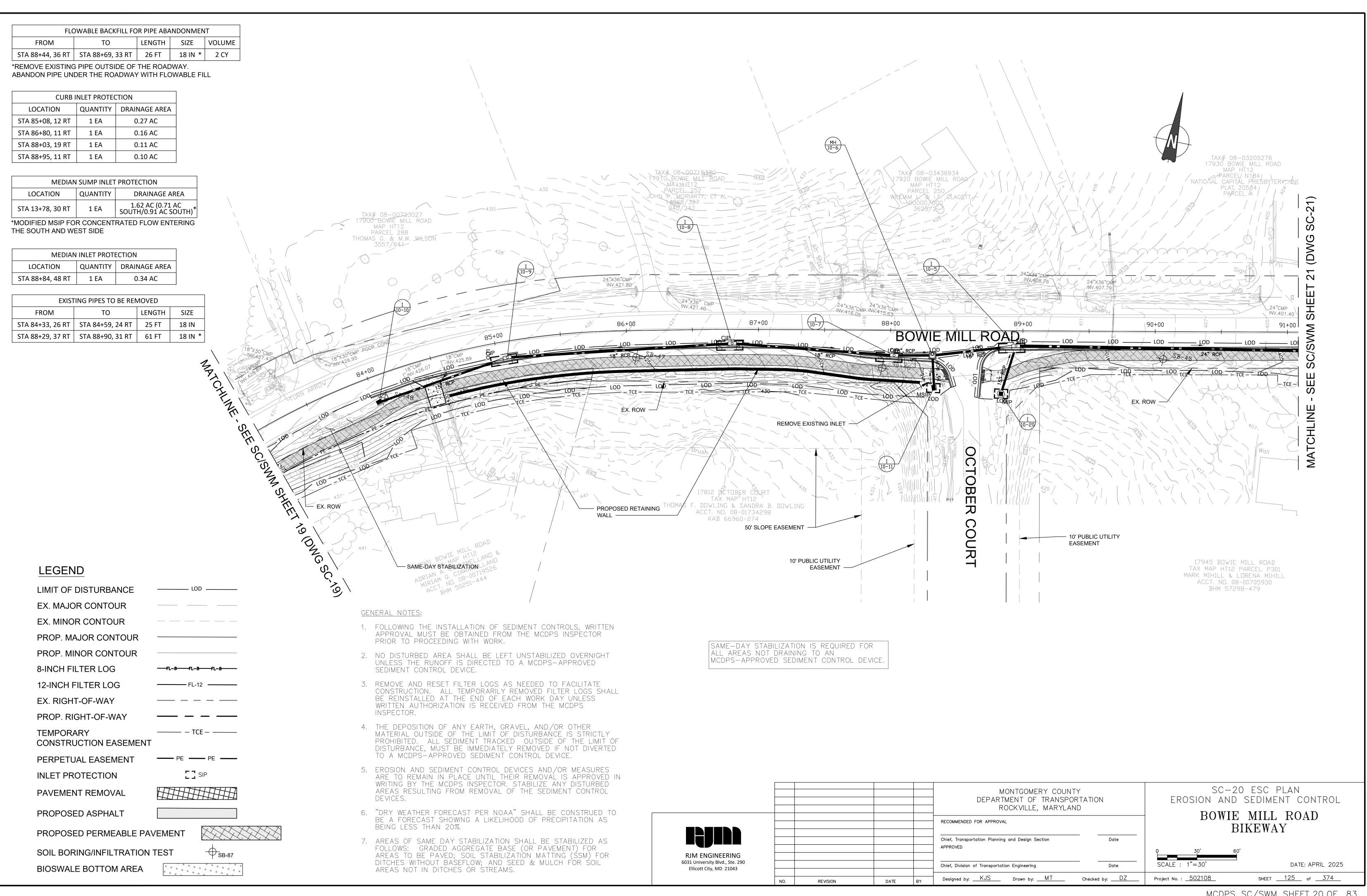
SAME-DAY STABILIZATION IS REQUIRED FOR ALL AREAS NOT DRAINING TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE.

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTA ROCKVILLE, MARYLAND	ATION	EROSION AND	6 ESC PLAN SEDIMENT CONTROL
					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED	Date		MILL ROAD IKEWAY
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043	NO.	REVISION	DATE	BY	Chief, Division of Transportation Engineering Designed by: KJS Drawn by: MT CI	Date	SCALE : 1"=30' Project No. : 502108	DATE: APRIL 2025 SHEET 121 of 374



EXISTING PIPES TO BE REMOVED FROM TO LENGTH SIZE STA 71+70, 26 RT STA 72+22, 27 RT 55 FT 19 x 24 IN SUPER SILT FENCE			HINLINMAN FAMILI REVUCABLE/IRUS 49301/243 MAP HT12 PLAT 16471 BLOCK N, LOT 8	A CHAR
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SOIL BORING/INFILTRATION TEST BIOSWALE BOTTOM AREA SB-87 SB-87	FOLLOWS: GRADED AGGREGATE BASE (OR PAVEMENT) FOR AREAS TO BE PAVED; SOIL STABILIZATION MATTING (SSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS.	RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043 NO. REVISION DATE	Chief, Division of Transportation Engineering Date Designed by: KJS Drawn by: MT Checked by: DZ	SCALE : 1"=30' DATE: APRIL 2025 Project No. : 502108 SHEET 123 of 374 MCDPS SC/SWM SHEET 18 OF 83

MEDIAN INLET PROTECTION LOCATION QUANTITY DRAINAGE AREA STA 77+75, 22 RT 1 EA 0.06 AC	
STA 77+73, 22 KT 1 EA 0.00 AC STA 79+51, 25 RT 1 EA 0.26 AC STA 80+21, 25 RT 1 EA 0.39 AC	
EXISTING PIPES TO BE REMOVED FROM TO LENGTH SIZE	
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EX. RIGHT-OF-WAY ————————————————————————————————————	INSPECTOR. 4. THE DEPOSITION OF ANY EARTH, GRAVEL, AND/OR OTHER
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PROPOSED PERMEABLE PAVEMENT	BEING LESS THAN 20%. 7 AREAS OF SAME DAY STABILIZATION SHALL BE STABILIZED AS Chief, Transportation Planning and Design Section Date
SOIL BORING/INFILTRATION TEST BIOSWALE BOTTOM AREA **********************************	AREAS TO BE PAVED; SOIL STABILIZATION MATTING (SSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS. DITCHES GRADED AGGREGATE BASE (OR PAVEMENT) FOR BY AREAS (OR PAVEMENT) FOR Chief, Division of Transportation Engineering Date Da
	NO. REVISION DATE BY Designed by: <u>KJS</u> Drawn by: <u>MT</u> Checked by: <u>DZ</u> Project No. : <u>502108</u> SHEET <u>124</u> of <u>374</u>



CURB INLET PROTECTION				
LOCATION	QUANTITY	DRAINAGE AREA		
STA 91+73, 15 RT	1 EA	0.29 AC		
STA 93+86, 16 RT	1 EA	0.17 AC		
STA 95+39, 16 RT	1 EA	0.16 AC		
STA 95+89, 15 RT	1 EA	0.02 AC		

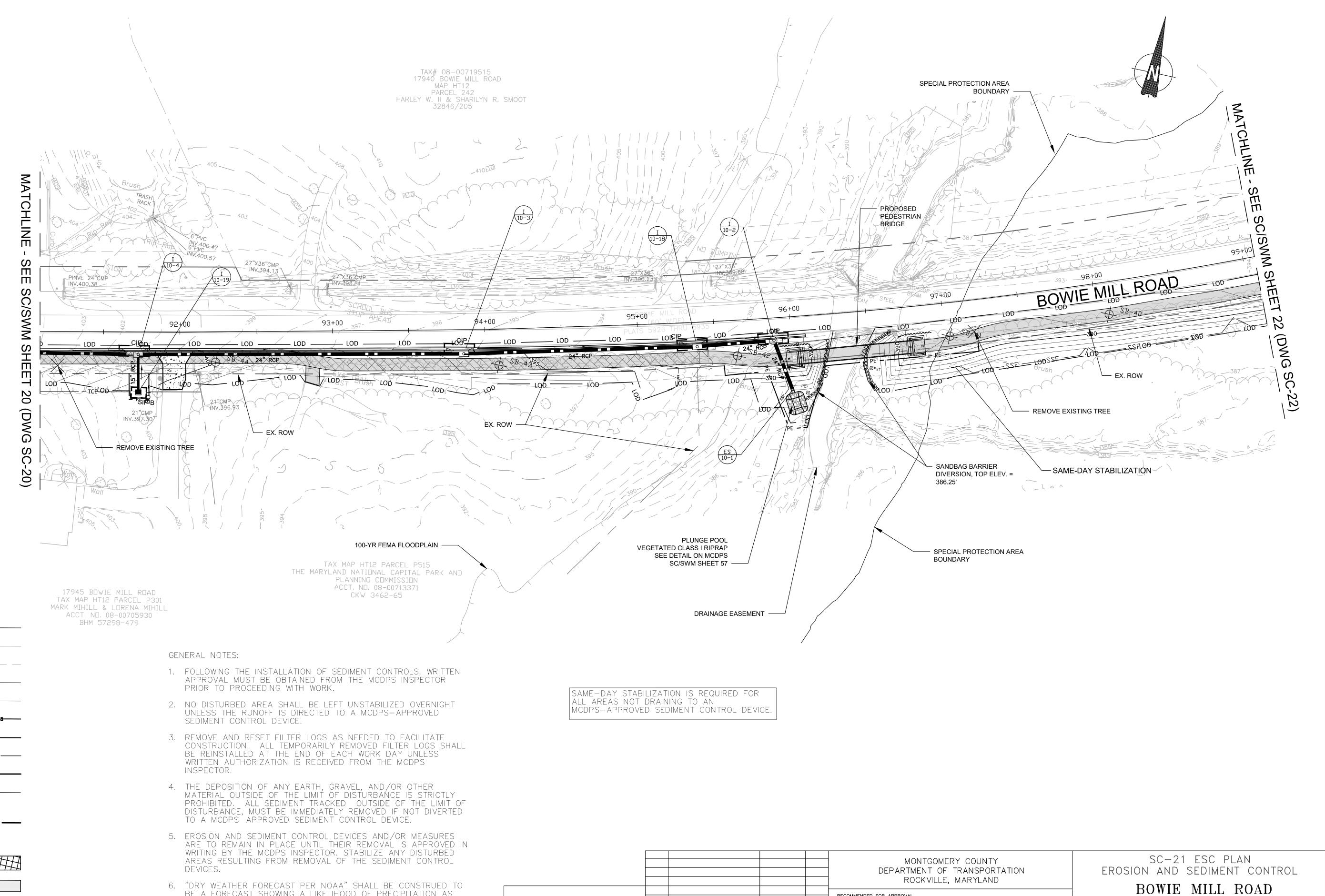
STANDARD INLET PROTECTION - B					
	LOCATION	QUANTITY	DRAINAGE AREA		
	STA 91+73, 40 RT	1 EA	0.33 AC		

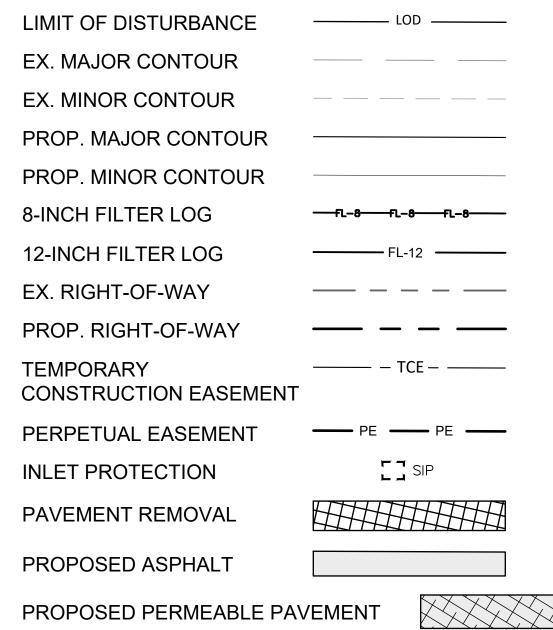
EXISTING PIPES TO BE REMOVED				
FROM TO LENGTH SIZE				
STA 91+85, 24 RT	STA 92+09, 24 RT	25 FT	21 IN	

SUPER SILT FENCE					
FROM	ТО	QUANTITY			
STA 95+78 RT	STA 95+94 RT	33 FT			
STA 97+07 RT	STA 97+88 RT	86 FT			
STA 97+88 RT	STA 98+87 RT	108 FT			

MAINTENANCE OF STREAMFLOW				
FROM	ТО	QUANTITY		
STA 96+07 RT	STA 96+53 RT	1 LS		

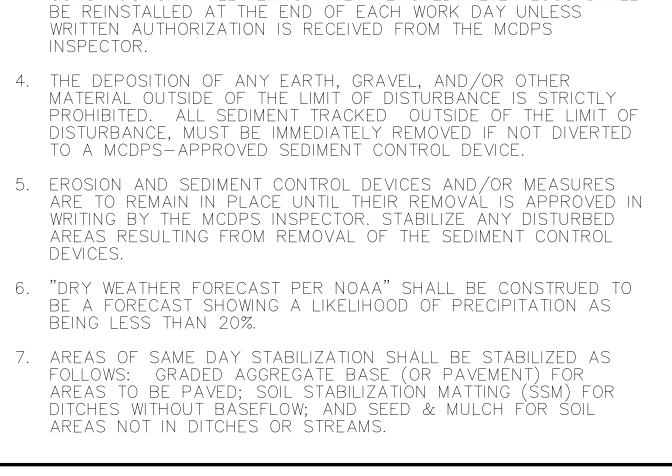
LEGEND

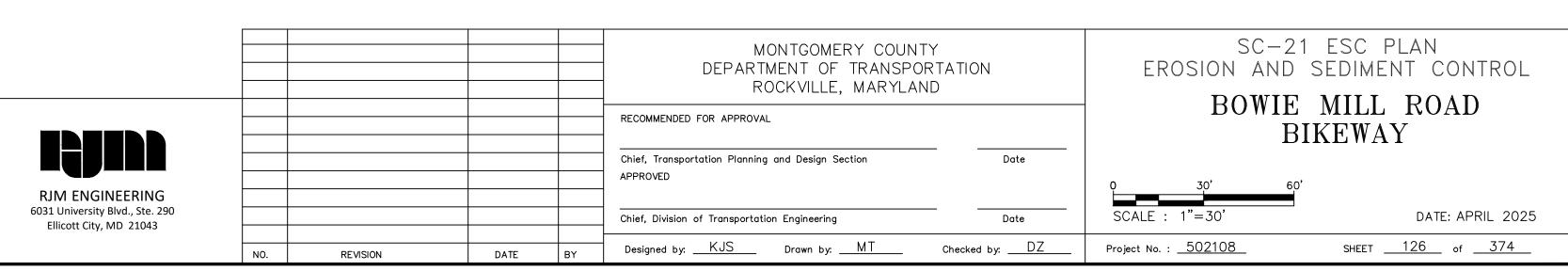




SOIL BORING/INFILTRATION TEST

BIOSWALE BOTTOM AREA



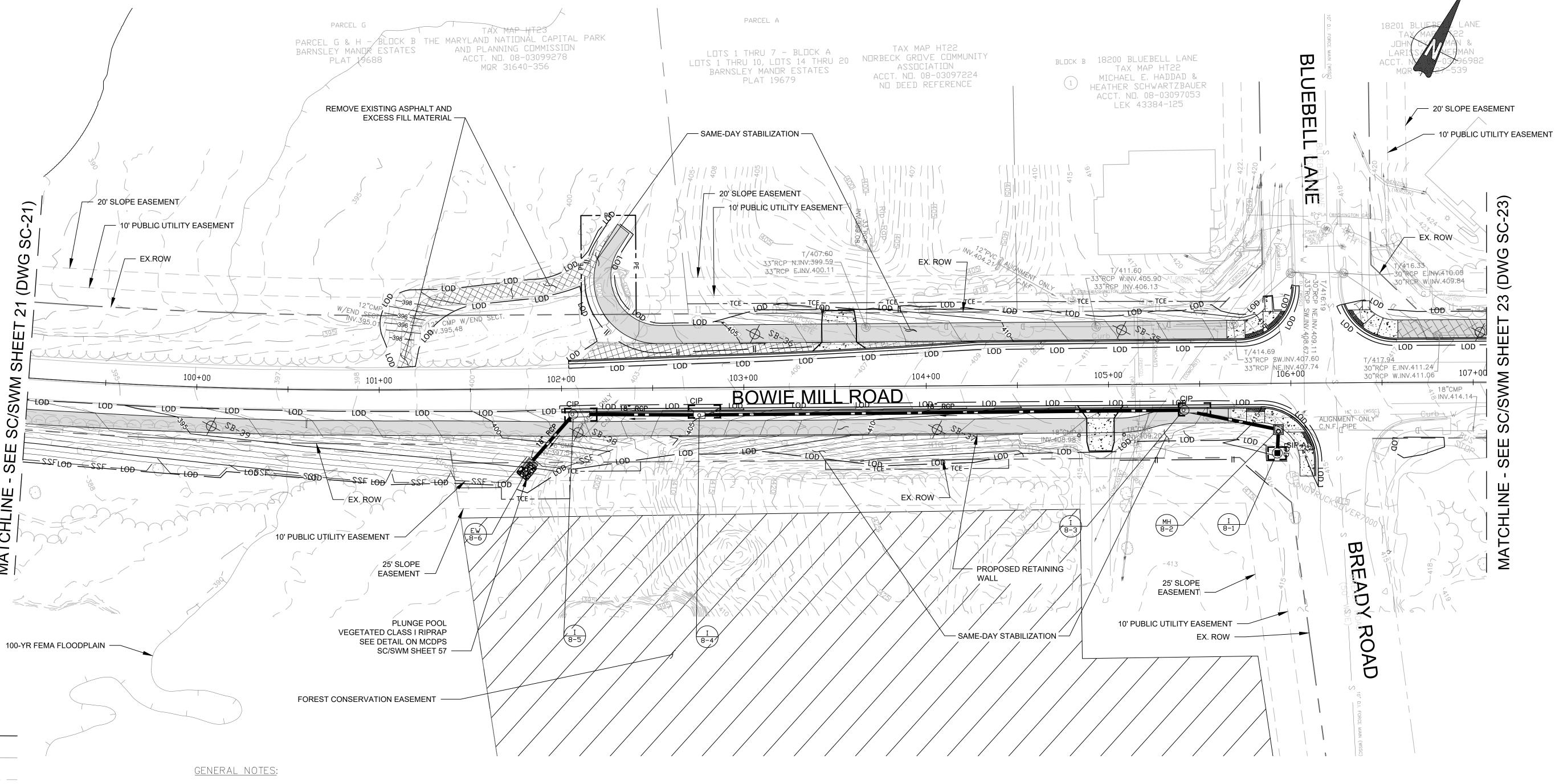


CURB INLET PROTECTION				
LOCATION	QUANTITY	DRAINAGE AREA		
STA 102+06, 14 RT	1 EA	0.02 AC		
STA 102+75, 15 RT	1 EA	0.40 AC		
STA 105+41, 17 RT	1 EA	0.12 AC		

STANDARD	STANDARD INLET PROTECTION - A				
LOCATION QUANTITY DRAINAGE ARE					
STA 105+92, 38 RT	1 EA	0.03 AC			

EXISTING PIPES TO BE REMOVED					
FROM	ТО	LENGTH	SIZE		
STA 102+09, 29 RT	UNKNOWN	UNK	6 IN		
STA 104+84, 28 RT	STA 105+08, 28 RT	25 LF	18 IN		
STA 101+04, 39 LT	STA 101+24, 36 LT	20 LF	12 IN		

SUPER SILT FENCE				
FROM	ТО	QUANTITY		
STA 98+87 RT	STA 99+77 RT	94 FT		
STA 99+77 RT	STA 100+19 RT	44 FT		
STA 100+19 RT	STA 101+07 RT	95 FT		
STA 101+07 RT	STA 101+39 RT	38 FT		
STA 101+39 RT	STA 101+81 RT	52 FT		
STA 101+84 RT	STA 102+28 RT	53 FT		



LEGEND

PROPOSED ASPHALT

PAVEMENT REMOVAL

PROPOSED PERMEABLE PAVEMENT

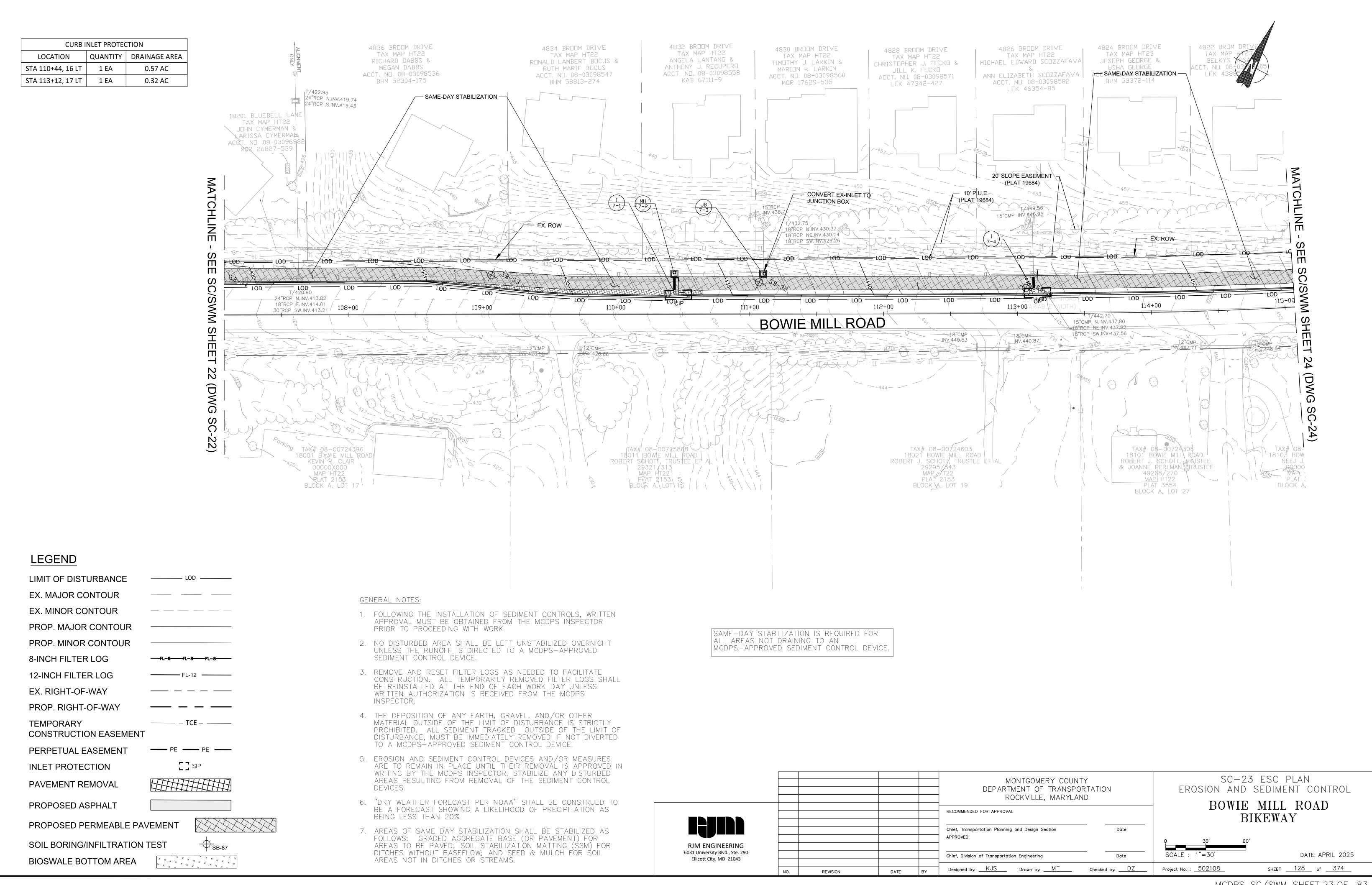
SOIL BORING/INFILTRATION TEST

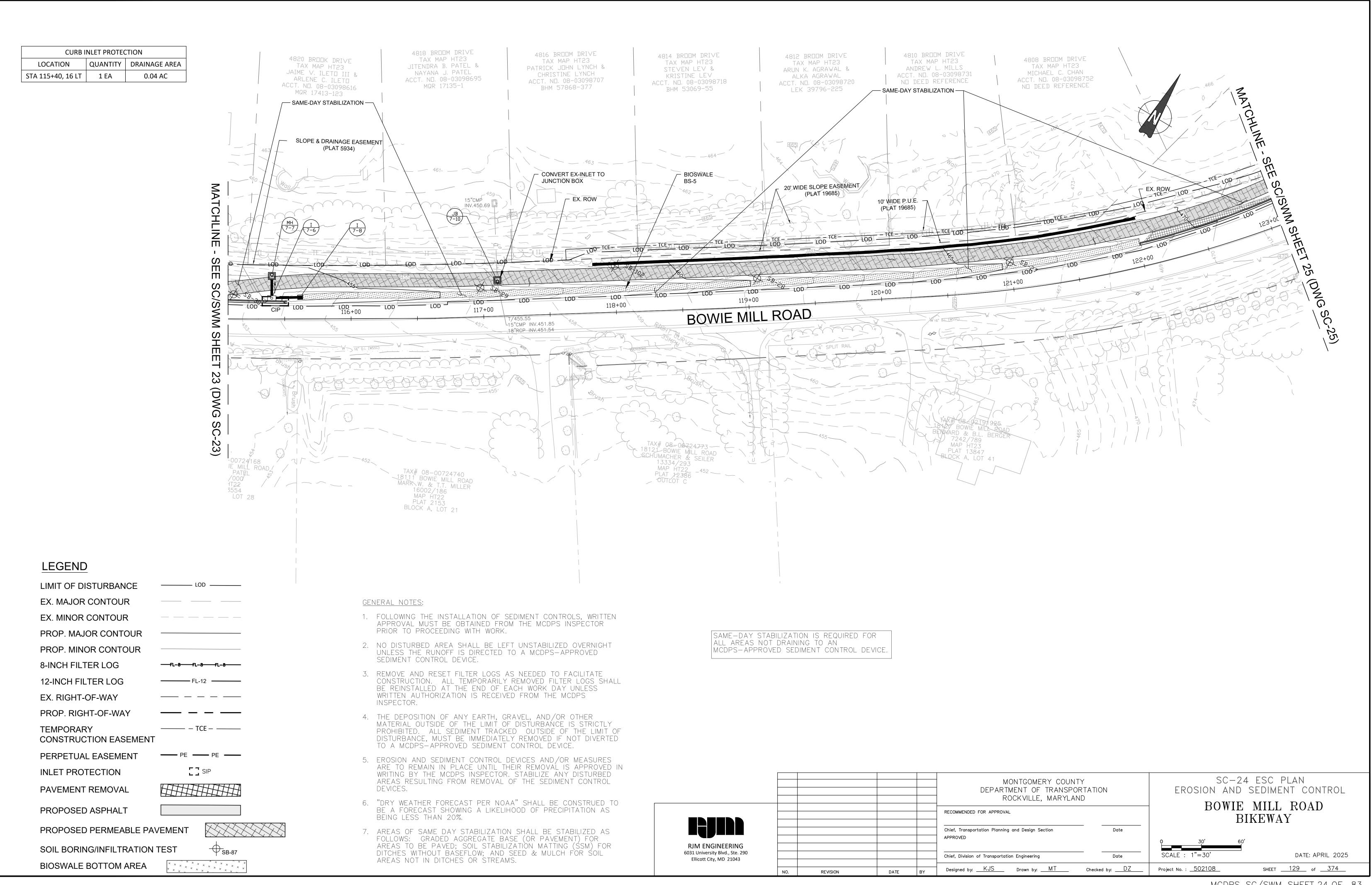
BIOSWALE BOTTOM AREA

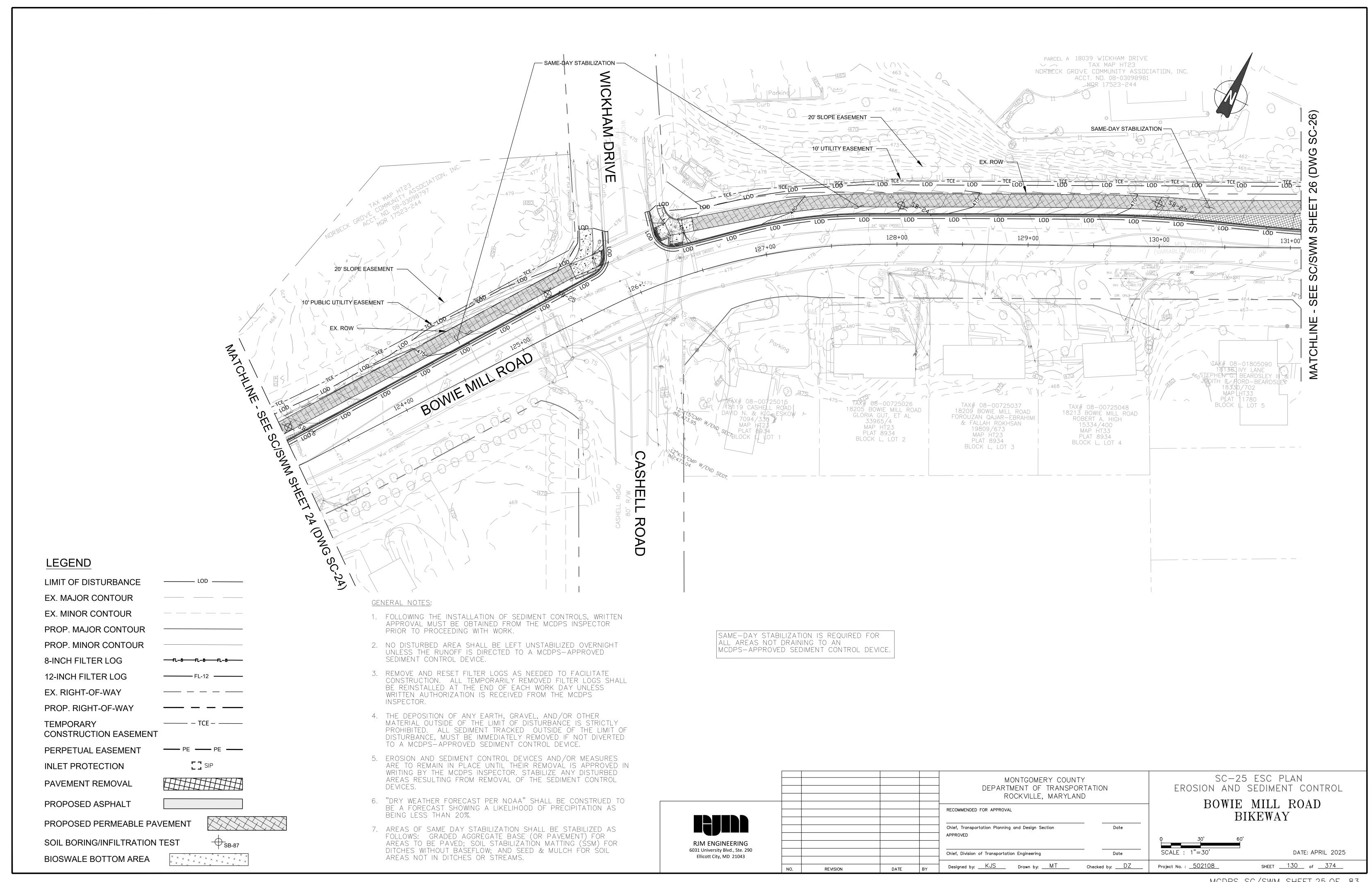
- 1. FOLLOWING THE INSTALLATION OF SEDIMENT CONTROLS, WRITTEN APPROVAL MUST BE OBTAINED FROM THE MCDPS INSPECTOR PRIOR TO PROCEEDING WITH WORK.
- 2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO A MCDPS—APPROVED SEDIMENT CONTROL DEVICE.
- 3. REMOVE AND RESET FILTER LOGS AS NEEDED TO FACILITATE CONSTRUCTION. ALL TEMPORARILY REMOVED FILTER LOGS SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE MCDPS INSPECTOR.
- 4. THE DEPOSITION OF ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL OUTSIDE OF THE LIMIT OF DISTURBANCE IS STRICTLY PROHIBITED. ALL SEDIMENT TRACKED OUTSIDE OF THE LIMIT OF DISTURBANCE, MUST BE IMMEDIATELY REMOVED IF NOT DIVERTED TO A MCDPS—APPROVED SEDIMENT CONTROL DEVICE.
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- 6. "DRY WEATHER FORECAST PER NOAA" SHALL BE CONSTRUED TO BE A FORECAST SHOWING A LIKELIHOOD OF PRECIPITATION AS BEING LESS THAN 20%.
- 7. AREAS OF SAME DAY STABILIZATION SHALL BE STABILIZED AS FOLLOWS: GRADED AGGREGATE BASE (OR PAVEMENT) FOR AREAS TO BE PAVED; SOIL STABILIZATION MATTING (SSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS.

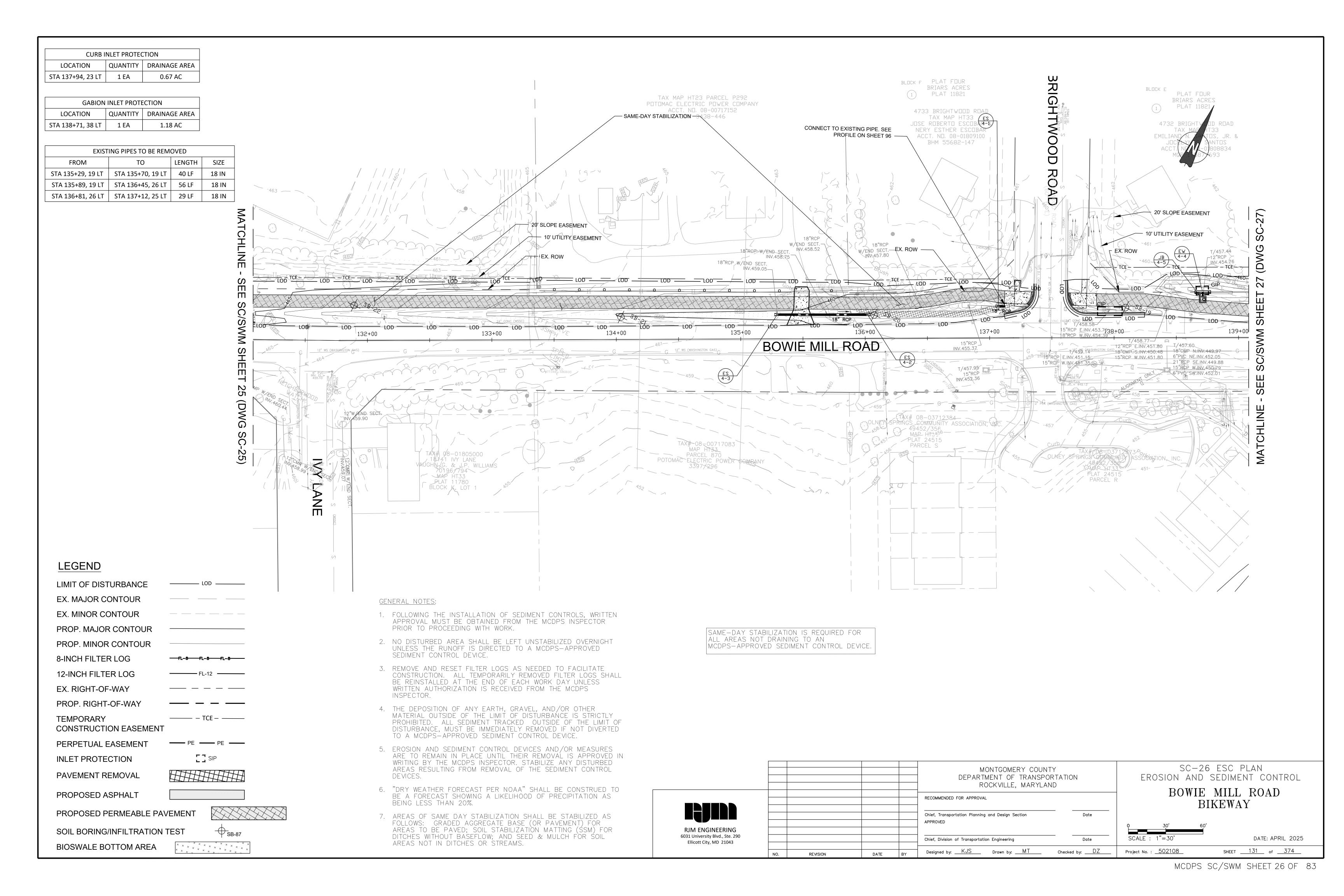
SAME-DAY STABILIZATION IS REQUIRED FOR ALL AREAS NOT DRAINING TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE.

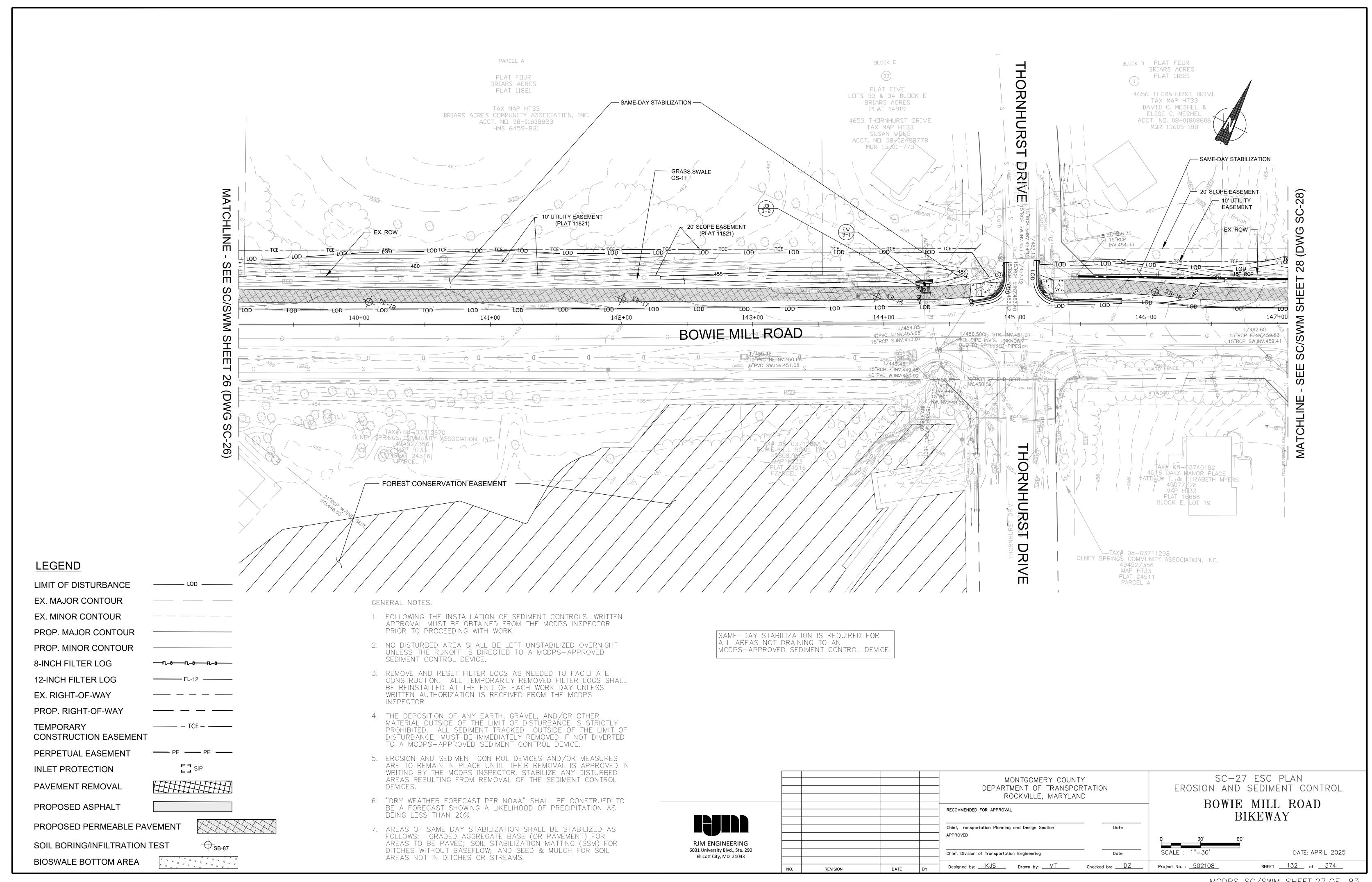
					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	SC-22 ESC PLAN EROSION AND SEDIMENT CONTROL	
RJM ENGINEERING					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED Date	BOWIE MILL ROAD BIKEWAY	
6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering Date	SCALE: 1"=30' DATE: APRIL 2025	
	NO.	REVISION	DATE	BY	Designed by: <u>KJS</u> Drawn by: <u>MT</u> Checked by: <u>DZ</u>	Project No. : <u>502108</u> SHEET <u>127</u> of <u>374</u>	

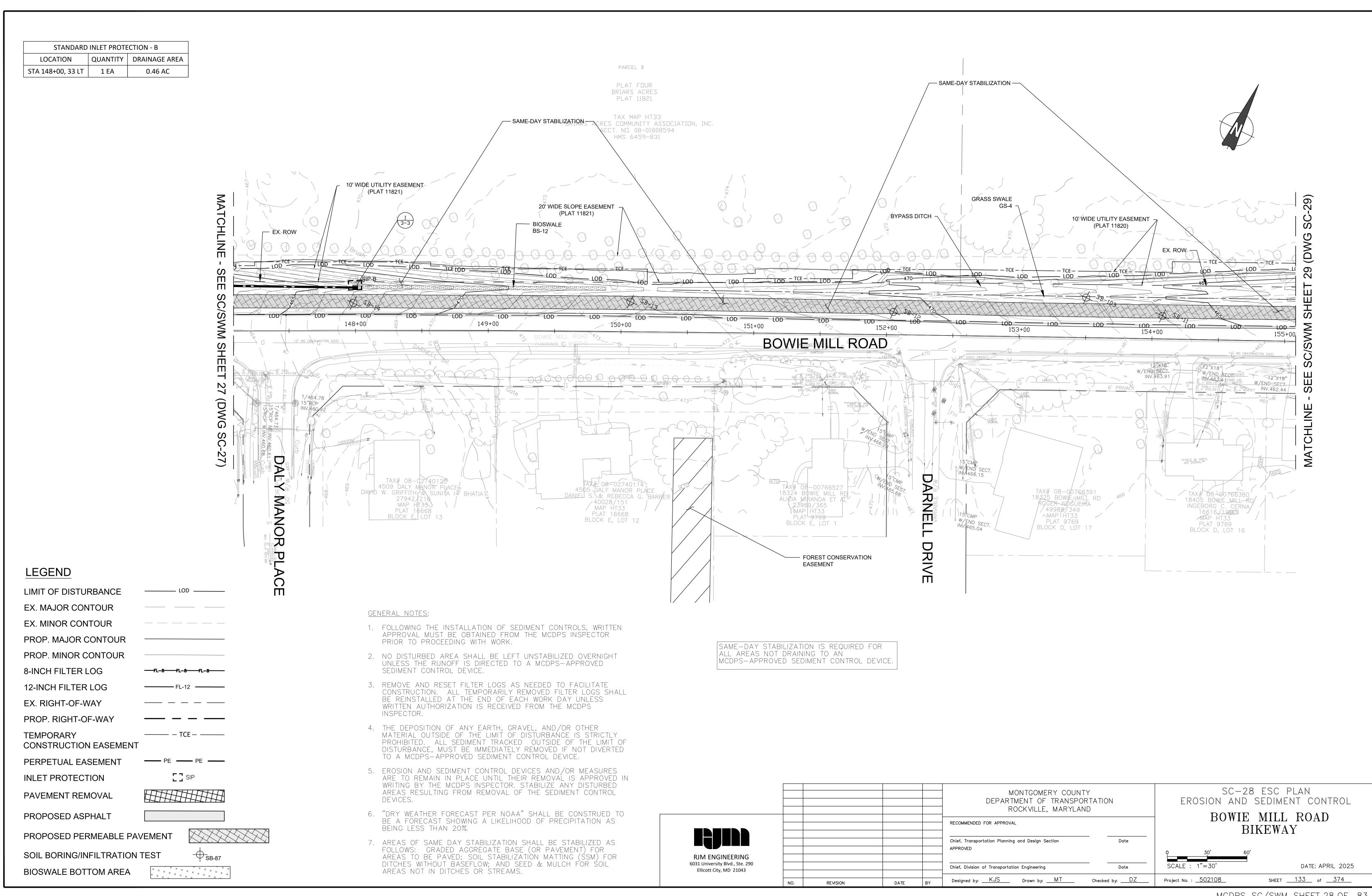












CURB INLET PROTECTION								
LOCATION QUANTITY DRAINAGE AREA								
STA 160+49, 14 LT	1 EA	0.27 AC						
STA 162+73, 18 LT	1 EA	0.57 AC						

EXISTING PIPES TO BE REMOVED							
FROM	ТО	LENGTH	SIZE				
STA 158+52, 22 LT	STA 158+50, 16 LT	9 LF	30 IN				
STA 160+85, 27 LT	STA 161+05, 27 LT	20 LF	12 x 15 IN				
STA 161+95, 28 LT	STA 162+16, 27 LT	21 LF	12 x 15 IN				
STA 162+83, 28 LT	STA 163+03, 27 LT	21 LF	12 x 15 IN				

SUPER SILT FENCE							
FROM	QUANTITY						
STA 158+66 LT	STA 159+21 LT	70 FT					

LEGEND

LIMIT OF DISTURBANCE _____ LOD _____ EX. MAJOR CONTOUR **EX. MINOR CONTOUR** PROP. MAJOR CONTOUR PROP. MINOR CONTOUR 8-INCH FILTER LOG ——FL-8——FL-8—— 12-INCH FILTER LOG EX. RIGHT-OF-WAY PROP. RIGHT-OF-WAY ——— – TCE – ——— TEMPORARY CONSTRUCTION EASEMENT PERPETUAL EASEMENT SIP **INLET PROTECTION** PAVEMENT REMOVAL PROPOSED ASPHALT

PROPOSED PERMEABLE PAVEMENT

SOIL BORING/INFILTRATION TEST

SB-87

BIOSWALE BOTTOM AREA

GENERAL NOTES:

18409 BOWIE MILL RD

ADAM D. MOSKOF

-463150/115 MAP HT33

PLAT 9769

BLOCK D, LOT 15

TAX# 08-00766367

1841'3 BOWIE MILL RD

BRANDON J. & DEBORAH E. SAVAGE

PLAT 9769 BLOCK D, LOT 14

156+00

1. FOLLOWING THE INSTALLATION OF SEDIMENT CONTROLS, WRITTEN APPROVAL MUST BE OBTAINED FROM THE MCDPS INSPECTOR PRIOR TO PROCEEDING WITH WORK.

PARCEL A

PLAT THREE

BRIARS ACRES

PLAT 11820

TAX MAP HT33

BRIARS ACRES COMMUNITY

ACCT. NO. 08-

- SAME-DAY STABILIZATION -

- BYPASS DITCH

**FIBER IN AREA

TAX# 08-00766356

1841 Z BOWIE MILL RD SAUL A. & INGRID Z. MARTINEZ

54966/169

MAP HT33

PLAT 9768

BLOCK D, LOT 13

- GRASS SWALE

20' WIDE SLOPE EASEMENT (PLAT 11820)

BOWIE MILL ROAD

TAX# 08-00766345

18421 BOWIE MHL/RD MARIA E. MENJIVAR & 33847/48 MAP HT33

BLOCK D, LOT 12

PLAT 9768

- 2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO A MCDPS—APPROVED SEDIMENT CONTROL DEVICE.
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SAME-DAY STABILIZATION IS REQUIRED FOR ALL AREAS NOT DRAINING TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE.

SC-29 ESC PLAN MONTGOMERY COUNTY EROSION AND SEDIMENT CONTROL DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Transportation Planning and Design Section Date RJM ENGINEERING 6031 University Blvd., Ste. 290 DATE: APRIL 2025 Chief, Division of Transportation Engineering Date Ellicott City, MD 21043 Project No. : <u>502108</u> SHEET ____134___ of ___374___ Checked by: DZ Designed by: KJS Drawn by: MT REVISION

18504 B□WIE

18500 BOWIE MILL ROAD

TAX MAP HT33

ANDREW DEMAREST &

ASHLEY DEMAREST

ACCT. N□. 08-00766210

LEK 47782-31

EX. ROW

W/END SECT.

W/END SECT .-

TAX#\ 08-00765501

MAP HT43

PLAT 9522 PARCEL A

1850'1 BQWIE MILL RD

MARYLAND NATIONAL CAPITOL PARK

& PLANNING COMMISION

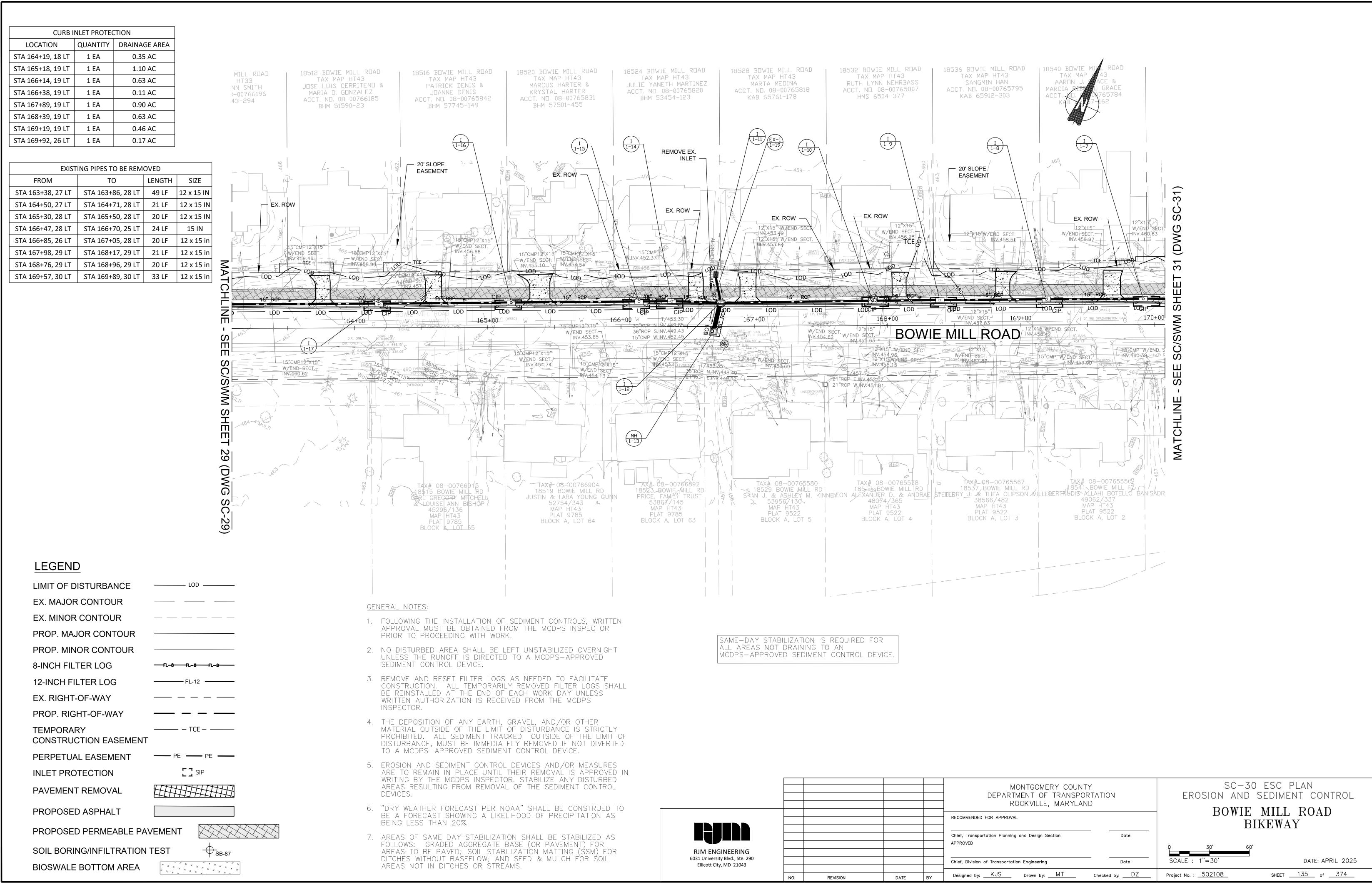
18508 BDWIE

TAX MAP

SHARON A'

LEK 346

ACCT, NO. 08



CURB INLET PROTECTION								
LOCATION	QUANTITY	DRAINAGE AREA						
STA 171+02, 18 LT	1 EA	0.05 AC						
STA 172+10, 17 LT	1 EA	0.16 AC						
STA 172+93, 19 LT	1 EA	0.14 AC						
STA 173+74, 26 LT	1 EA	0.17 AC						

STANDARD INLET PROTECTION - B								
LOCATION	QUANTITY	DRAINAGE AREA						
STA 171+28, 41 RT	1 EA	0.33 AC						

EXISTING PIPES TO BE REMOVED							
FROM TO LENGTH SIZE							
STA 172+24, 27 LT	STA 172+45, 28 LT	20 LF	15 IN				
STA 173+35, 31 LT	STA 173+56, 31 LT	20 LF	15 IN				
STA 173+88, 35 LT	STA 174+12, 39 LT	25 LF	12 IN				

LEGEND LIMIT OF DISTURBANCE EX. MAJOR CONTOUR EX. MINOR CONTOUR PROP. MAJOR CONTOUR PROP. MINOR CONTOUR 8-INCH FILTER LOG 12-INCH FILTER LOG EX. RIGHT-OF-WAY PROP. RIGHT-OF-WAY TEMPORARY ——— – TCE – ——— CONSTRUCTION EASEMENT PERPETUAL EASEMENT SIP **INLET PROTECTION** PAVEMENT REMOVAL PROPOSED ASPHALT

PROPOSED PERMEABLE PAVEMENT

SOIL BORING/INFILTRATION TEST

BIOSWALE BOTTOM AREA

GENERAL NOTES:

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20' SLOPE EASEMENT

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- 7. AREAS OF SAME DAY STABILIZATION SHALL BE STABILIZED AS FOLLOWS: GRADED AGGREGATE BASE (OR PAVEMENT) FOR AREAS TO BE PAVED; SOIL STABILIZATIÒN MATTING (ŚSM) FOR DITCHES WITHOUT BASEFLOW; AND SEED & MULCH FOR SOIL AREAS NOT IN DITCHES OR STREAMS.

SAME-DAY STABILIZATION IS REQUIRED FOR ALL AREAS NOT DRAINING TO AN MCDPS-APPROVED SEDIMENT CONTROL DEVICE.

TAX# 08-00765875

18549 BOWIE MILL RD TBASSAM & R ZIADI

16444/29

MAP HT43

PLAT 9522 BLOCK C, LOT 3

TAX# 08-00765864 ()

18553 BOWIE MILL RD

TUYET PHAM

43977/485

MAP HT43

PLAT 9522

BLOCK C, LOT 2

SC-31 ESC PLAN MONTGOMERY COUNTY EROSION AND SEDIMENT CONTROL DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Transportation Planning and Design Section Date RJM ENGINEERING 6031 University Blvd., Ste. 290 Chief, Division of Transportation Engineering Date Ellicott City, MD 21043 Checked by: DZ Project No. : <u>502108</u> SHEET <u>136</u> of <u>374</u> Designed by: KJS Drawn by: MT REVISION

20' SLOPEEASEMENT

BOWIE MILL ROAD

TAX# 08-Ø0765853(

JUSTICE & JULIA DAGADU

18557 BOWIE MILL RD

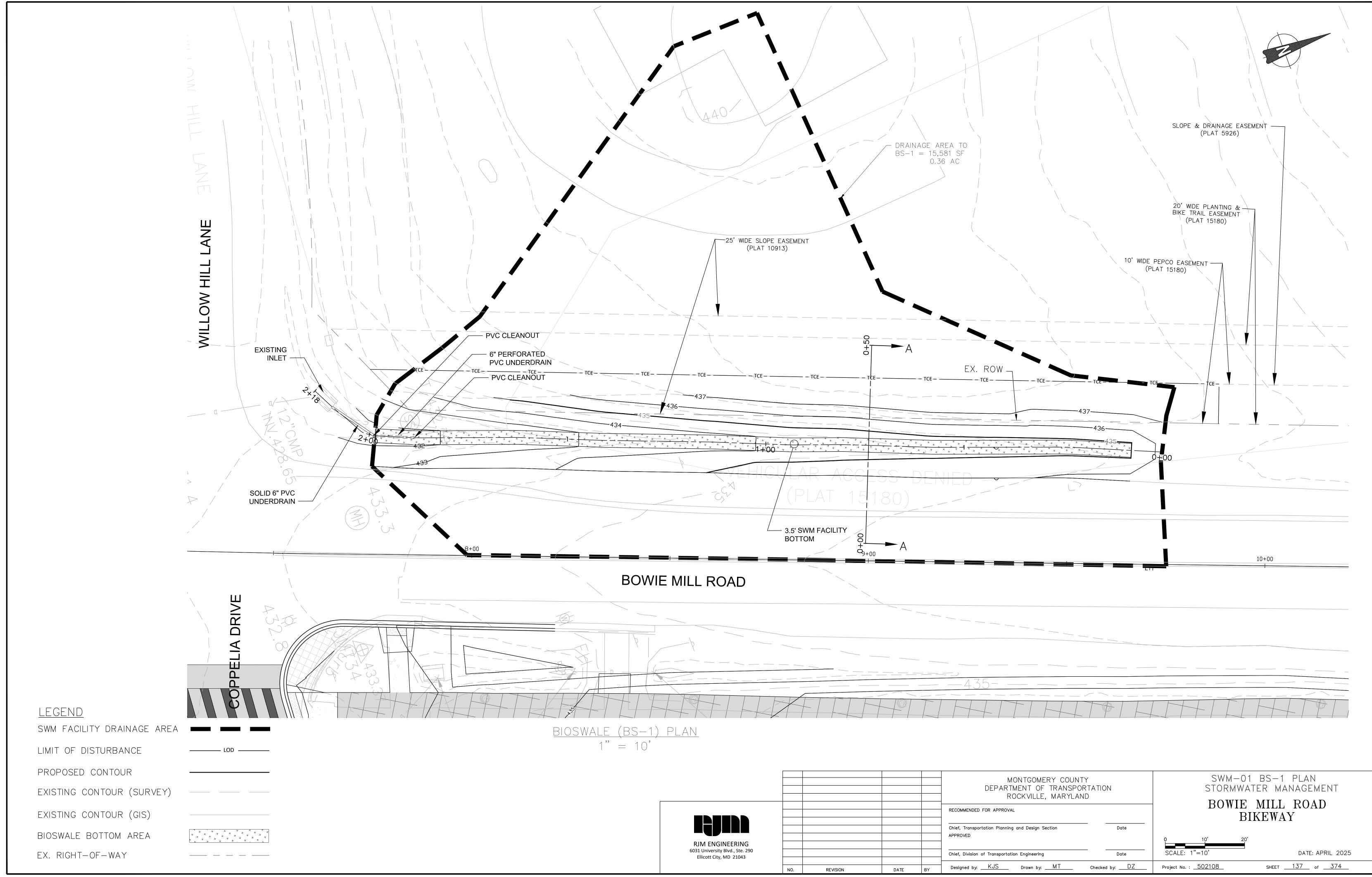
5264 / 251 MAP HT43

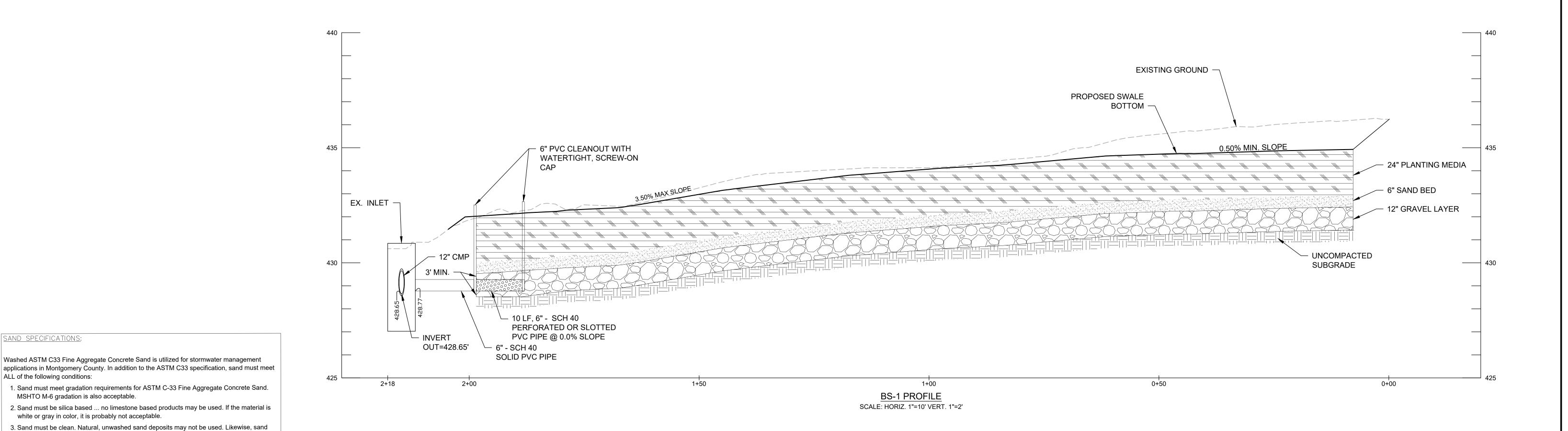
PLAT 9522

BLOCK C, LOT

(MD

DATE: APRIL 2025





CONSTRUCTION INSPECTION	- 	
CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR	OWNER/ DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is require at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/develope to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved SC/SM plans on-site at all times. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	r	INITIALS/DATE
 Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans 		
Final grading and establishment of permanent stabilization conforms to approved plans		

that has become contaminated by improper storage or installation practices will be rejected.

4. Manufactured sand or stone dust is not acceptable under any circumstance.

SAND SPECIFICATIONS:

ALL of the following conditions:

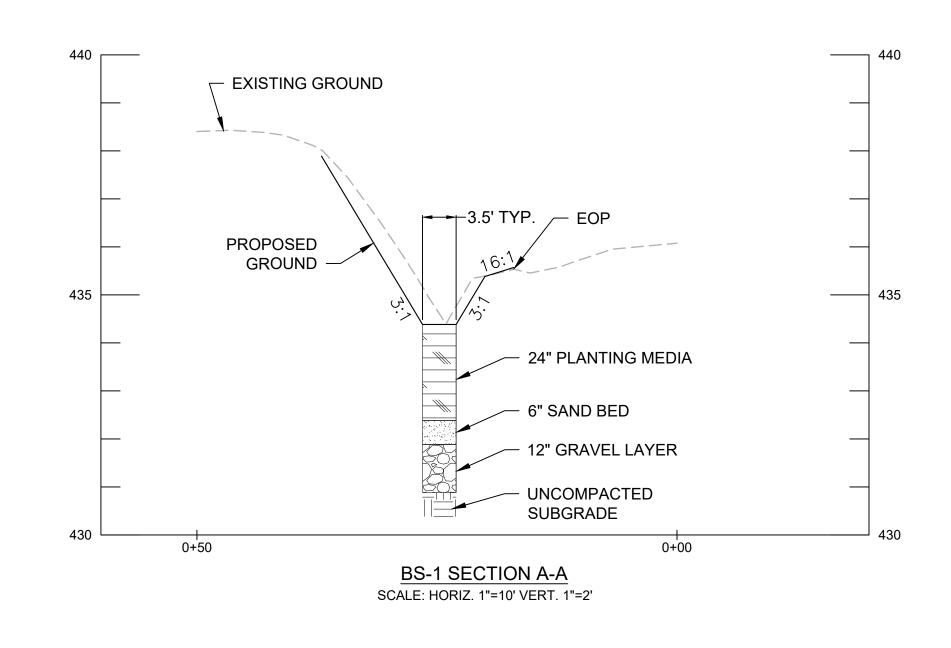
MSHTO M-6 gradation is also acceptable.

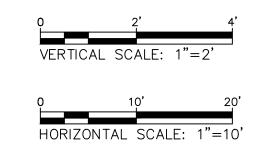
white or gray in color, it is probably not acceptable.

- 1. GRAVEL LAYER: THE GRAVEL LAYER MUST MEET MSHA SIZE #7 (TABLE 901A), AND SHALL BE 12-INCHES IN DEPTH. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN FILTER MEDIA, EXCEPT AT DRIVEWAY CROSSINGS, AS SHOWN IN THE TYPICAL SECTION. THE GRAVEL MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.
- 2. PLANTING MEDIA: THE PLANTING MEDIA SHALL BE 24 INCHES THICK AND CONFORM TO MONTGOMERY COUNTY MICRO-BIORETENTION FACILITY PLANTING MEDIA SPECIFICATIONS: 1/3 PERLITE OR SOLITE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL.
- THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA: CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.

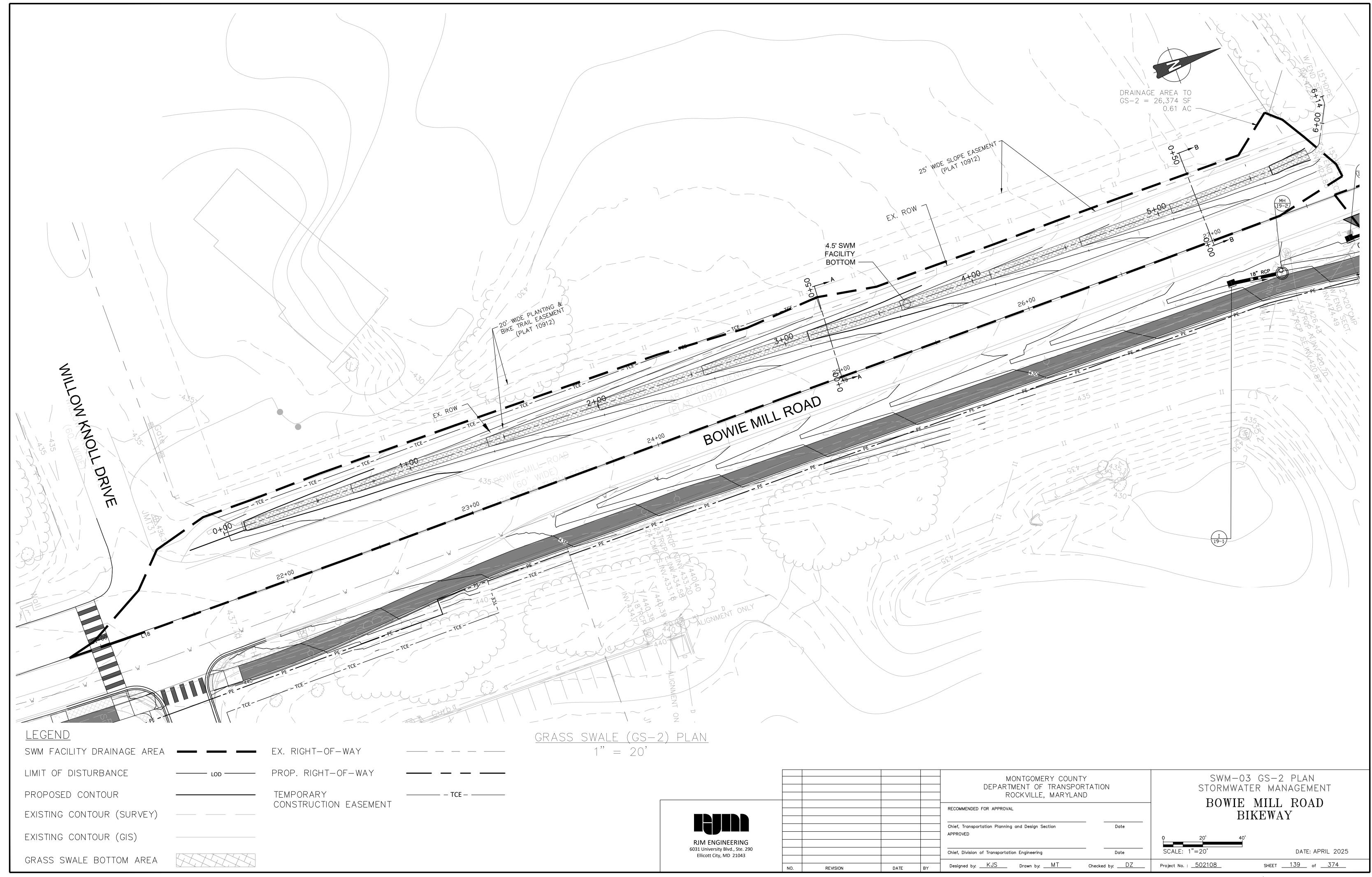
THE FIRST LAYER OF THE PLANTING MEDIUM SHALL BE LIGHTLY TILLED TO MIX IT INTO THE 6-INCH SAND LAYER, SO AS NOT TO CREATE A DEFINITIVE BOUNDARY. THE PLANTING BED SHALL BE FLOODED AFTER PLACEMENT. ANY SETTLEMENT THAT OCCURS SHALL BE FILLED BACK TO THE DESIGN ELEVATION.

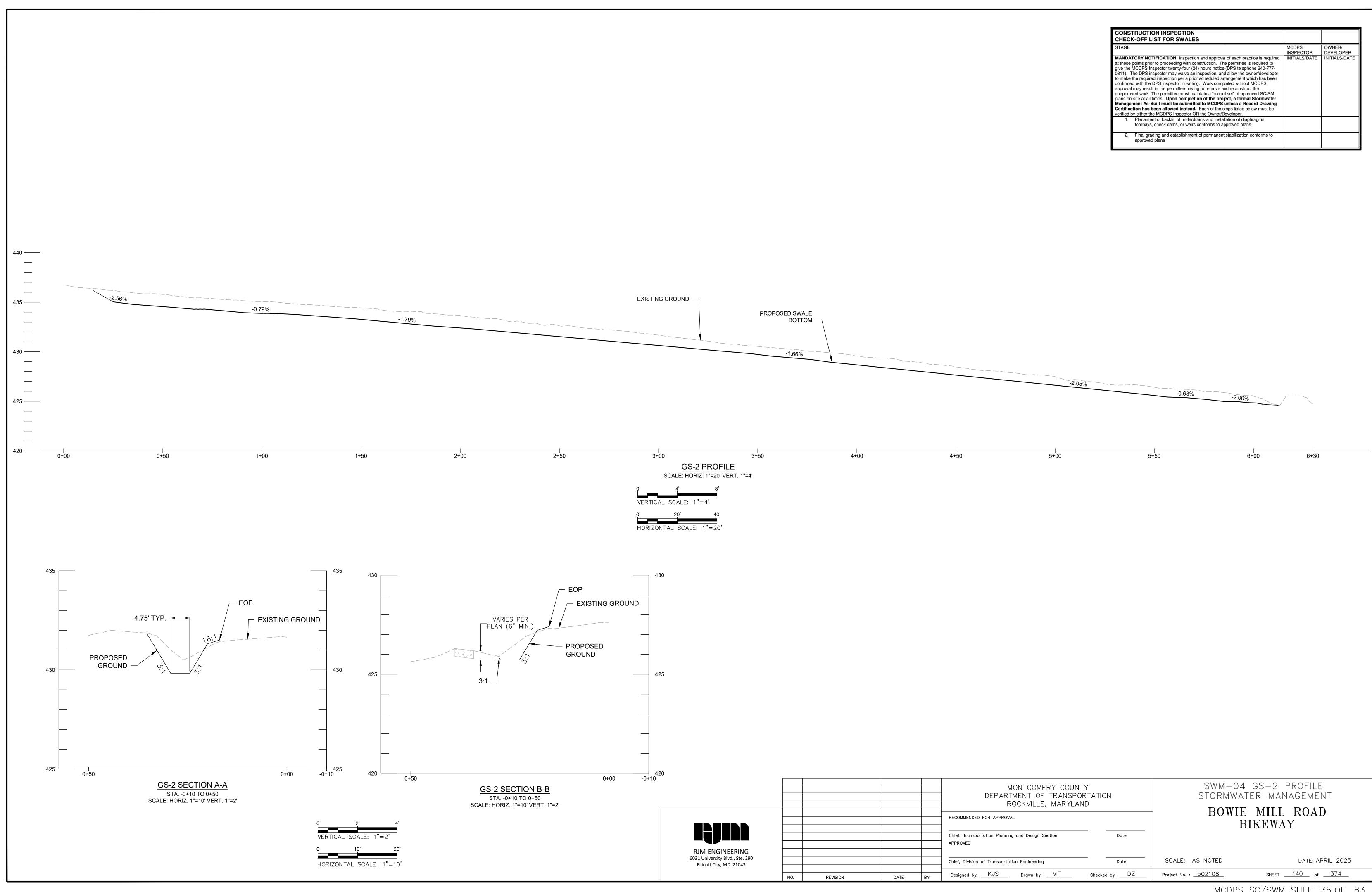
- 3. SAND BED: A MINIMUM 6-INCH FINE AGGREGATE SAND LAYER SHALL BE PROVIDED BELOW THE PLANTING MEDIA. ASTM C33 OR AASHTO M6 FINE AGGREGATE CONCRETE SAND IS REQUIRED PER MONTGOMERY COUNTY SAND SPECIFICATIONS.
- 4. PERFORATED PIPE MUST HAVE PERFORATIONS 3/8 INCH IN DIAMETER AND LOCATED 4 INCHES ON CENTER, EVERY 90 DEGREES AROUND THE PIPE. PERFORATED PIPE MUST BE AT LEAST 12 INCHES INSIDE THE FILTER MEDIA. IF THIS CANNOT BE ACHIEVED, THEN SIDES OF THE FILTER MEDIA MUST BE LINED WITH FILTER FABRIC. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE. AN ACCEPTABLE ALTERNATIVE TO PERFORATED PIPE IS 6" DIAMETER SCHEDULE 40 SLOTTED PVC PIPE WITH 0.125 INCH SLOTS. SLOTS SHALL BE 0.125 INCHES WIDE AND A MINIMUM OF 1.9 INCHES IN LENGTH, WITH A MINIMUM OF 4 SLOTS PER ROW AND 4 ROWS PER LINEAR FOOT OF PIPE.

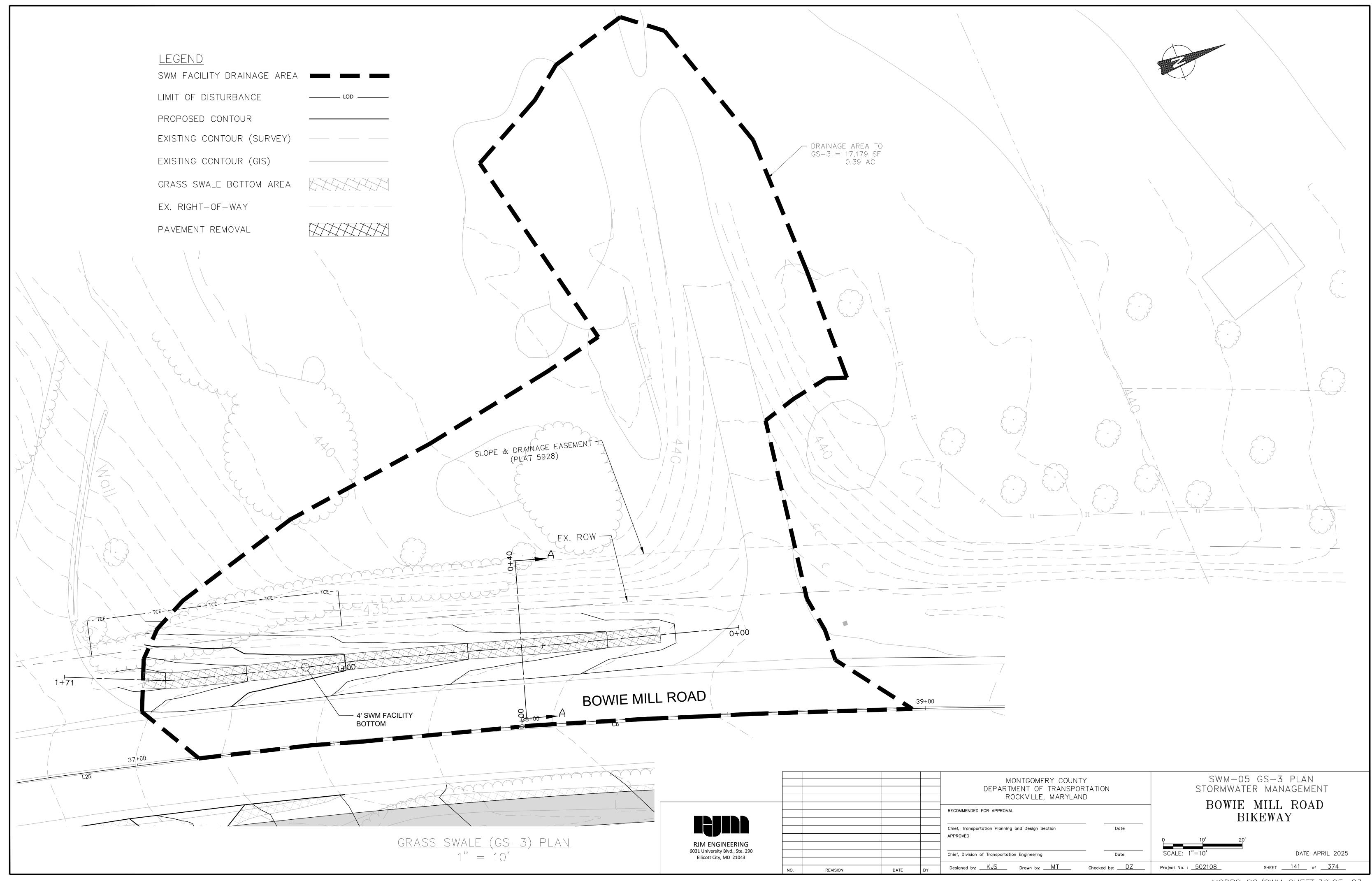


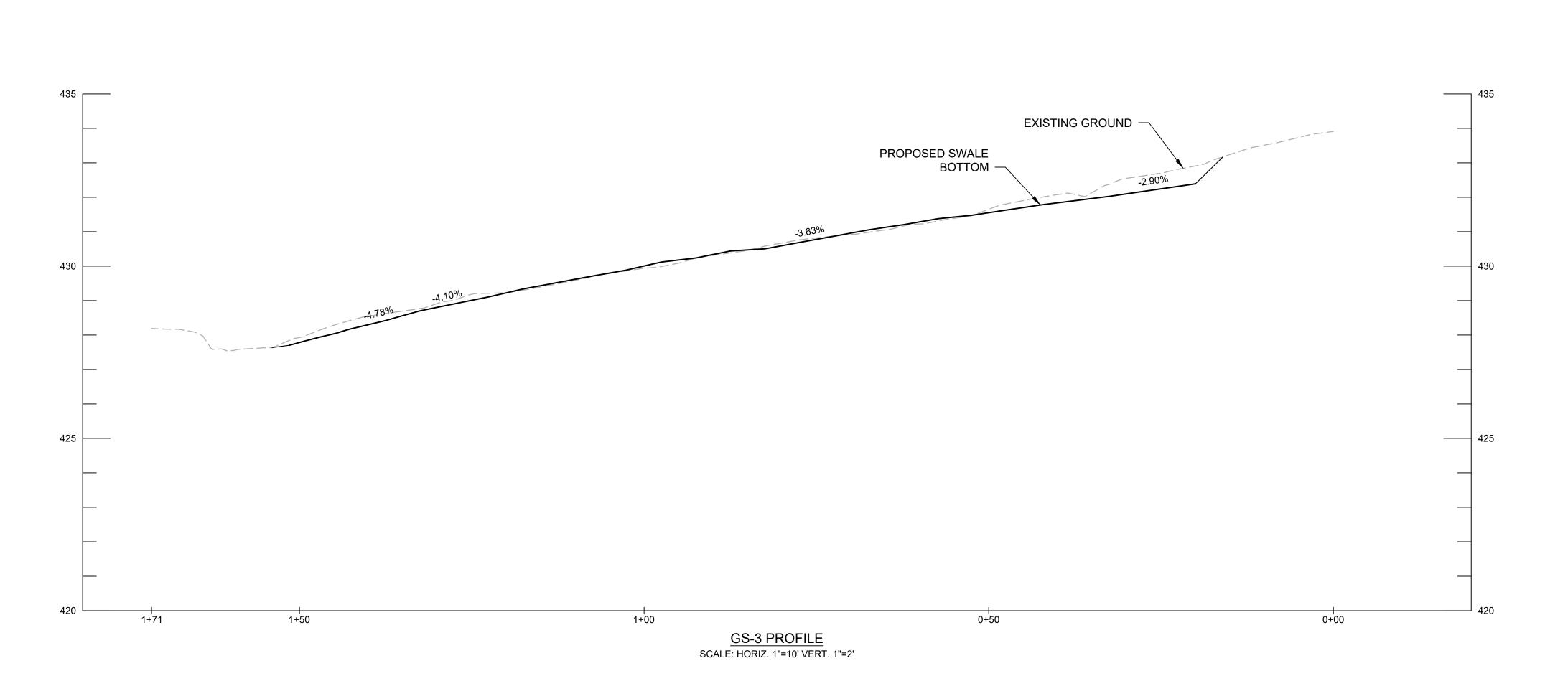


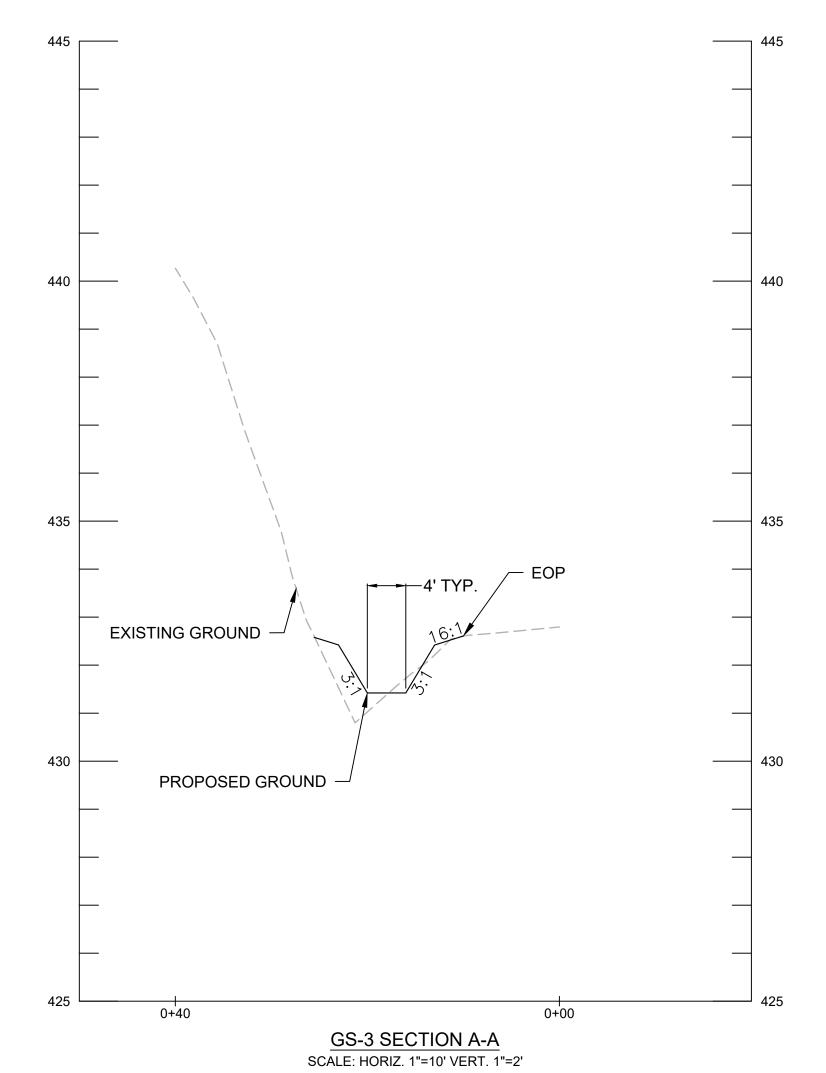
					MONTGOMERY COUN DEPARTMENT OF TRANSPO ROCKVILLE, MARYLA	ORTATION	STORMWA	BS-1 PROFILE TER MANAGEMENT
					RECOMMENDED FOR APPROVAL			E MILL ROAD BIKEWAY
					Chief, Transportation Planning and Design Section APPROVED	Date		
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	SCALE: AS NOTED	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>	SHEET <u>138</u> of <u>374</u>



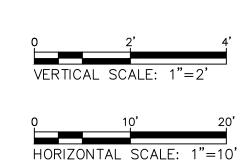




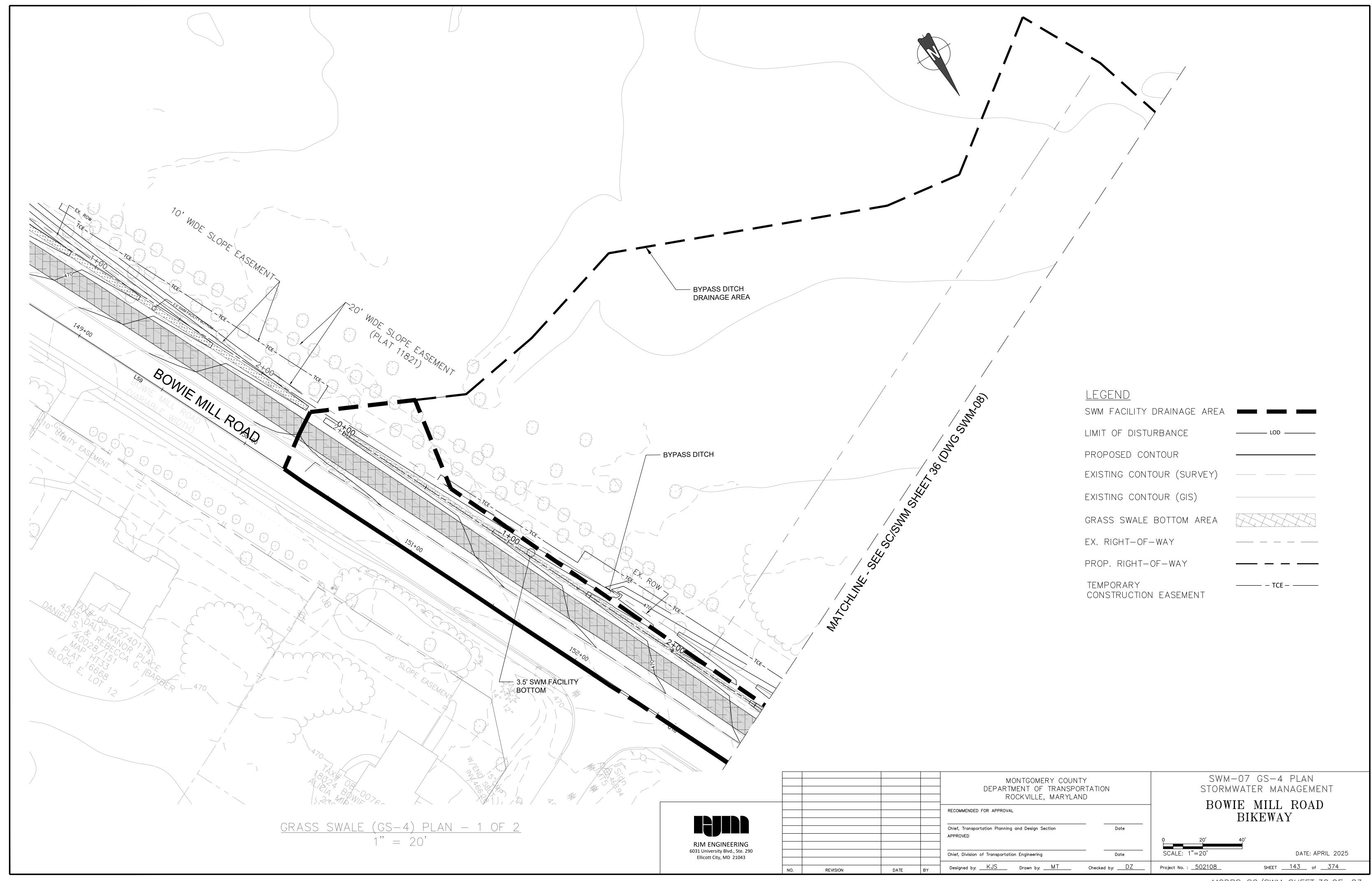


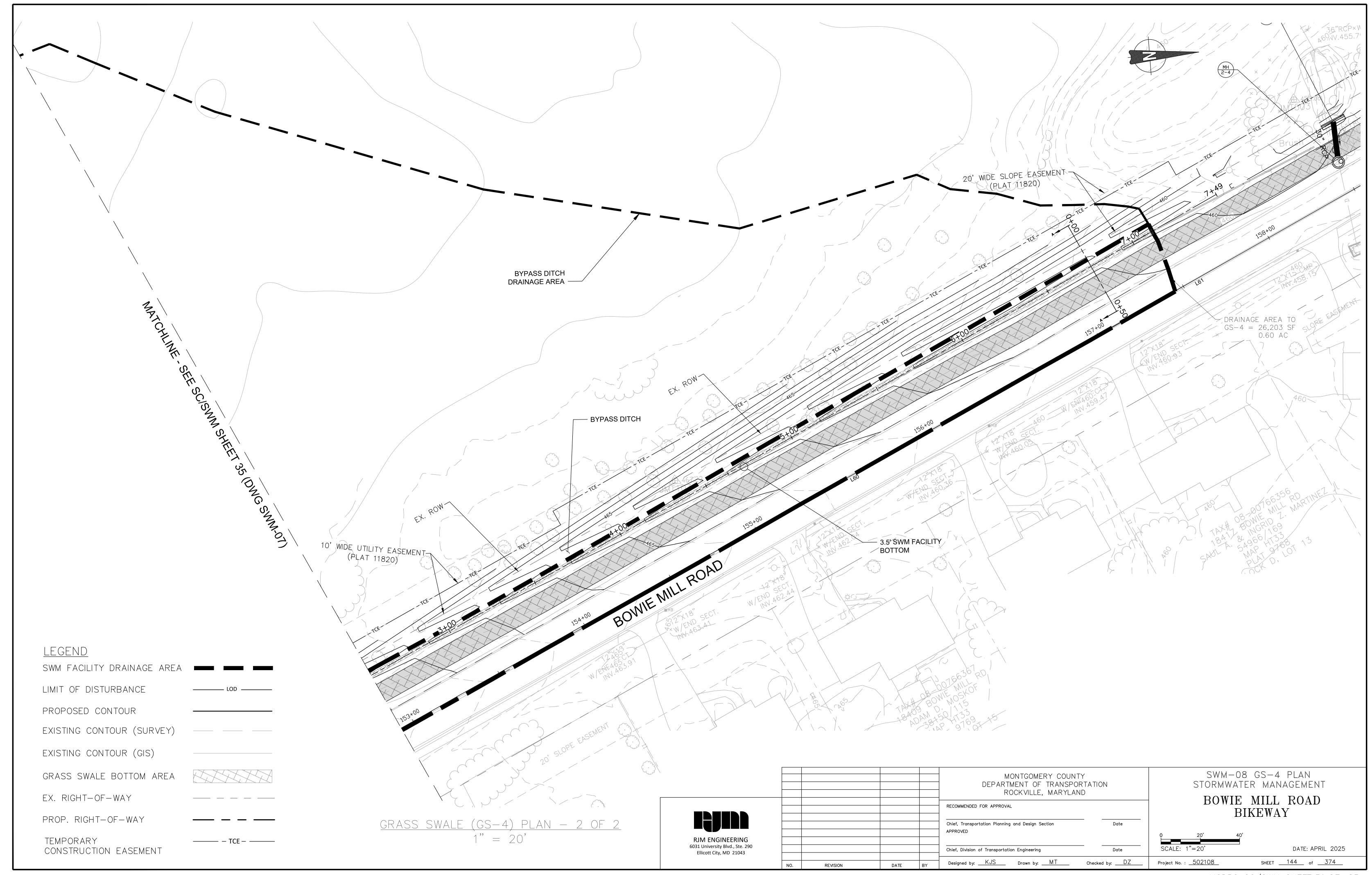


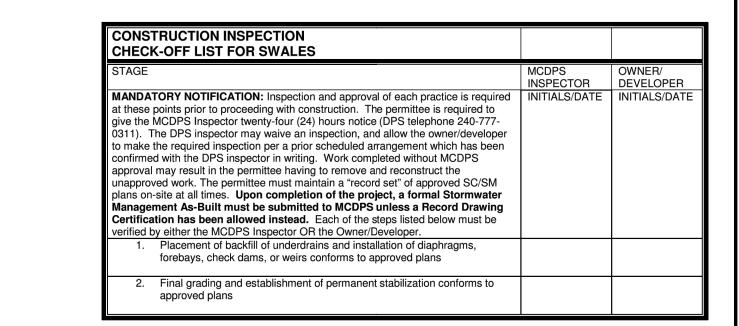
CONSTRUCTION INSPECTION CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR	OWNER/ DEVELOPER
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 Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans 		
Final grading and establishment of permanent stabilization conforms to approved plans		

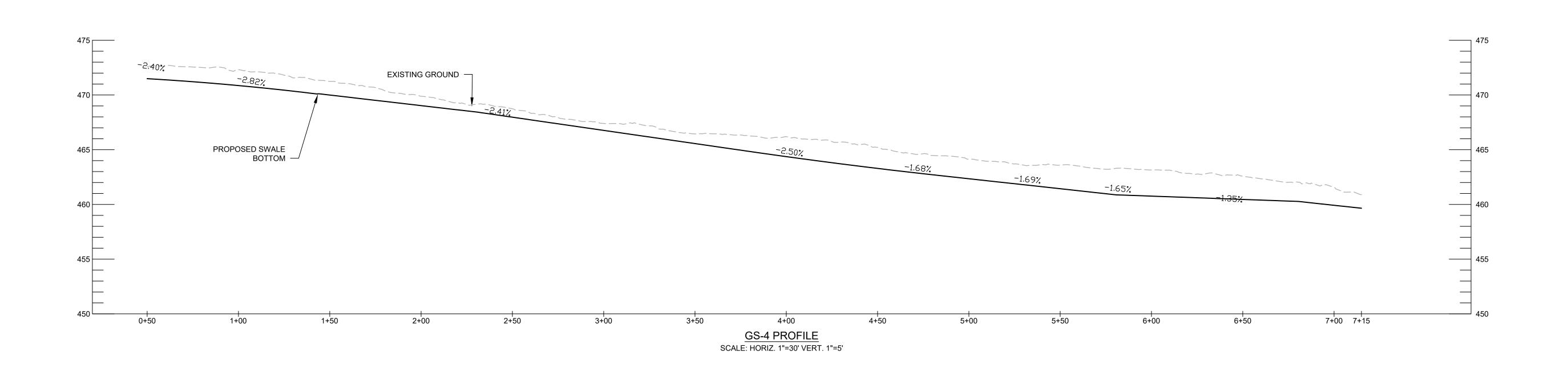


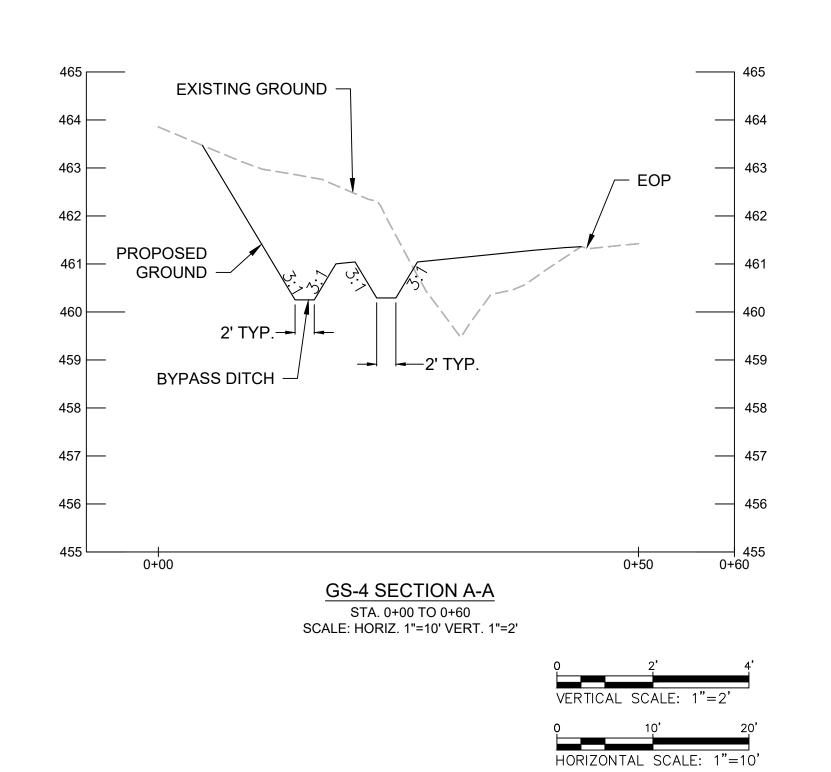
					MONTGOMERY COUN DEPARTMENT OF TRANSPO ROCKVILLE, MARYLA	RTATION	STORMWAT	GS-3 PROFILE ER MANAGEMENT
					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED	Date		MILL ROAD IKEWAY
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043	NO.	REVISION	DATE	BY	Chief, Division of Transportation Engineering Designed by: KJS Drawn by: MT	Date Checked by: DZ	SCALE: AS NOTED Project No. : 502108	DATE: APRIL 2025 SHEET <u>142</u> of <u>374</u>











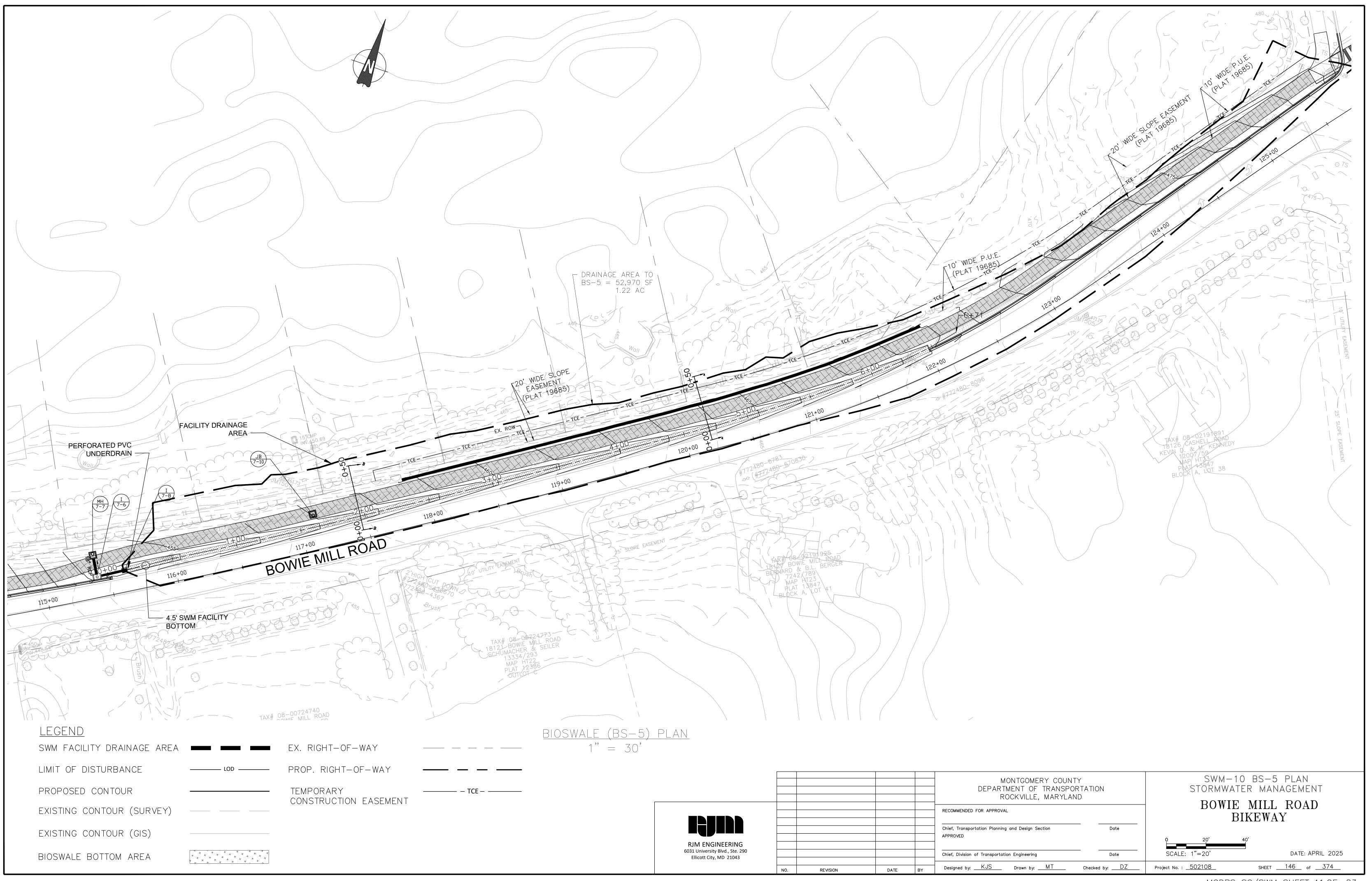
					MONTGOMERY COUNTY DEPARTMENT OF TRANSPOR ROCKVILLE, MARYLANI	RTATION	SWM- STORM
					RECOMMENDED FOR APPROVAL		BOW
RJM ENGINEERING					Chief, Transportation Planning and Design Section APPROVED	Date	
6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	SCALE: AS NOTED
	NO.	REVISION	DATE	BY	Designed by: <u>KJS</u> Drawn by: <u>MT</u>	Checked by: DZ	Project No. : <u>502108</u>

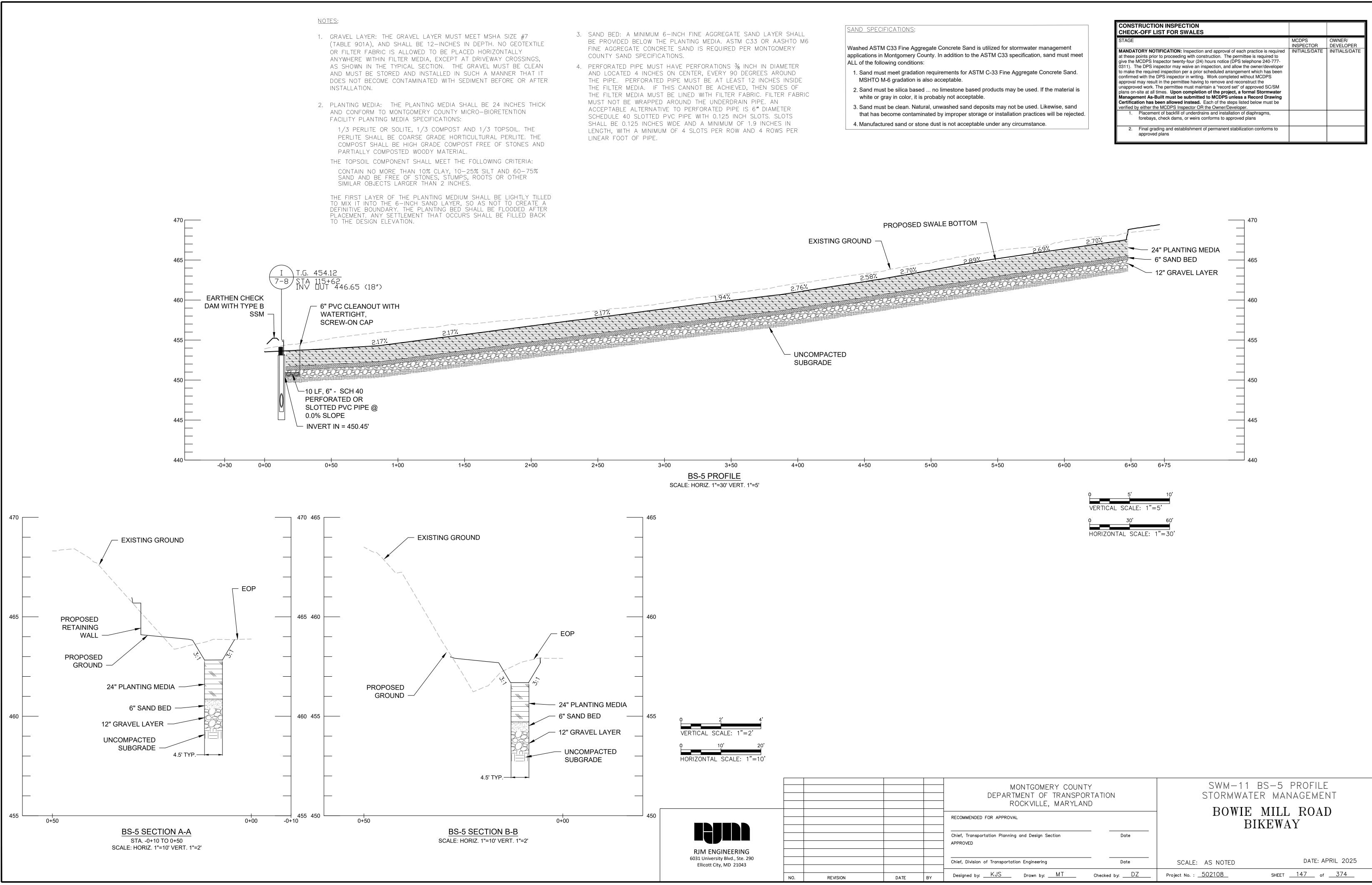
SWM-09 GS-4 PROFILE STORMWATER MANAGEMENT BOWIE MILL ROAD BIKEWAY

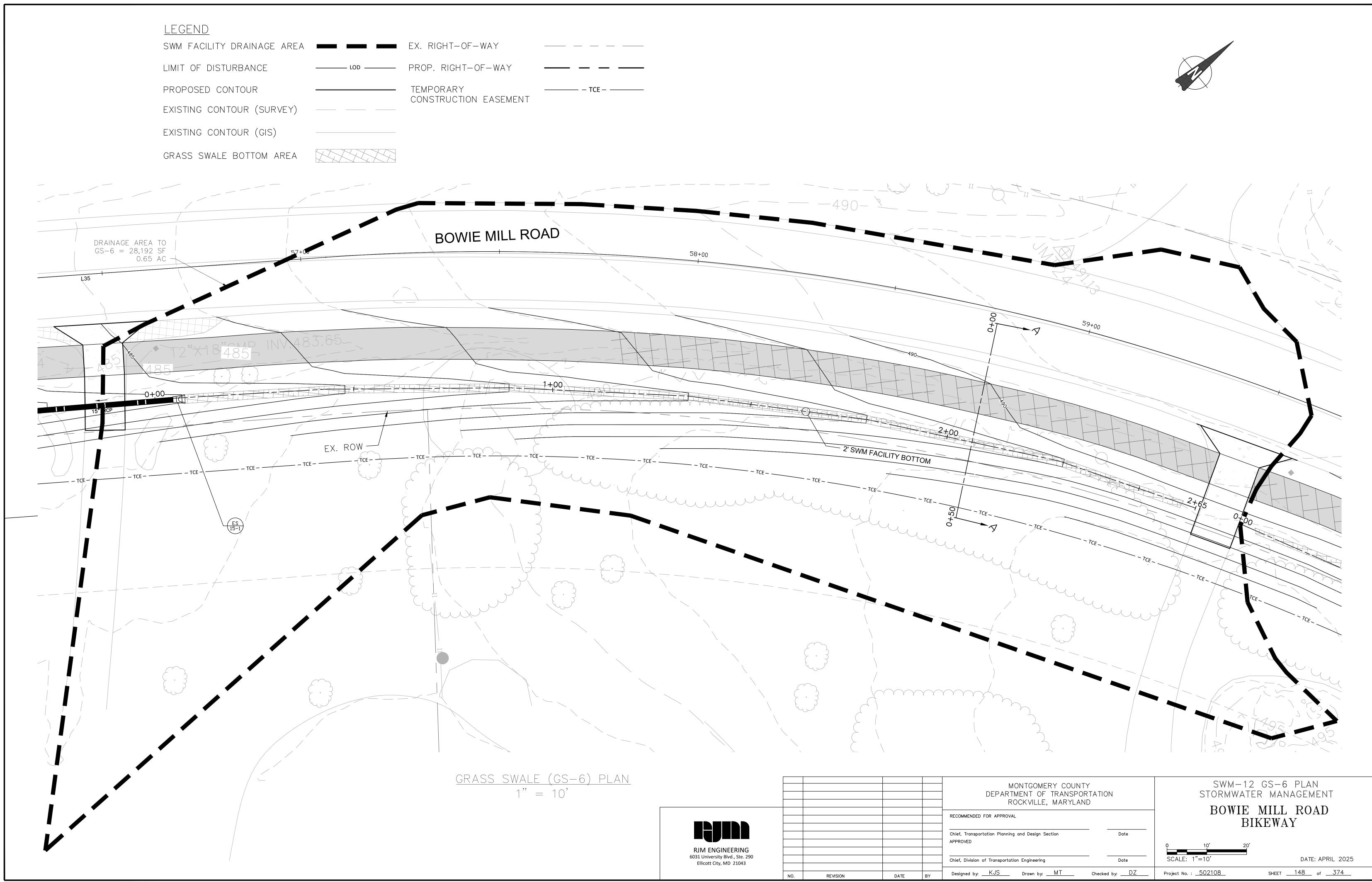
 Project No. : _502108
 SHEET __145__ of __374__

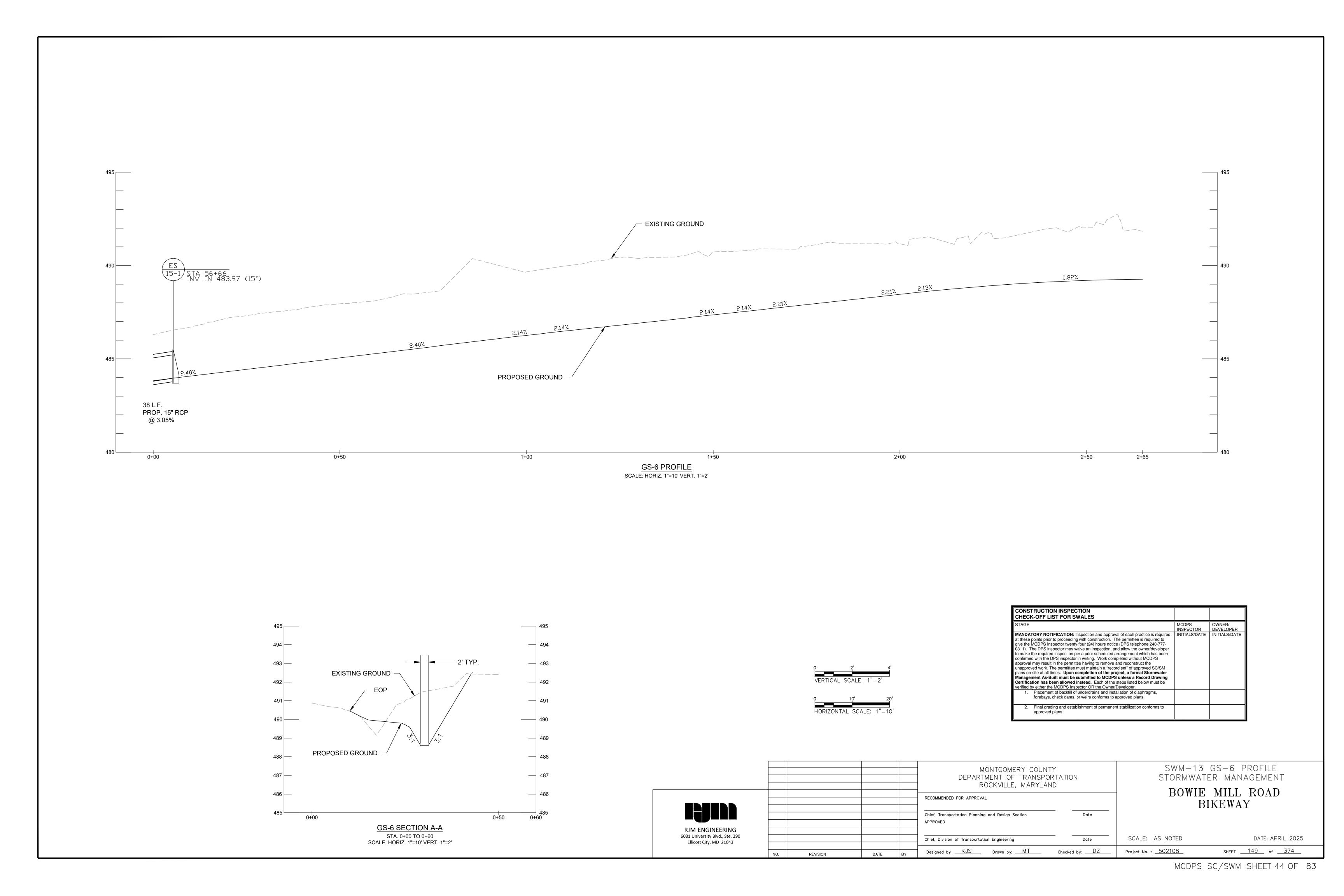
 MCDPS SC/SWM SHEET 40 OF _83

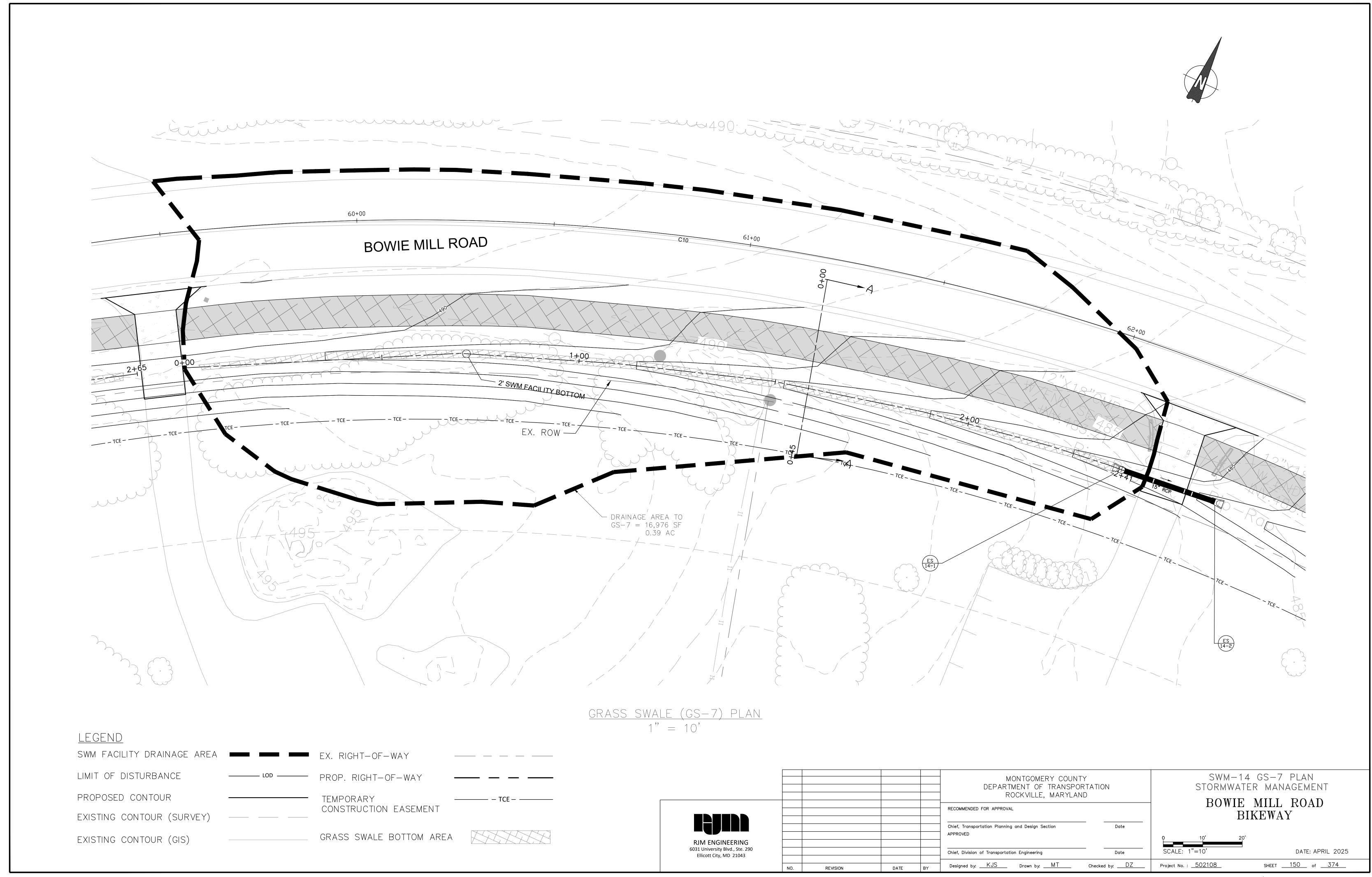
DATE: APRIL 2025

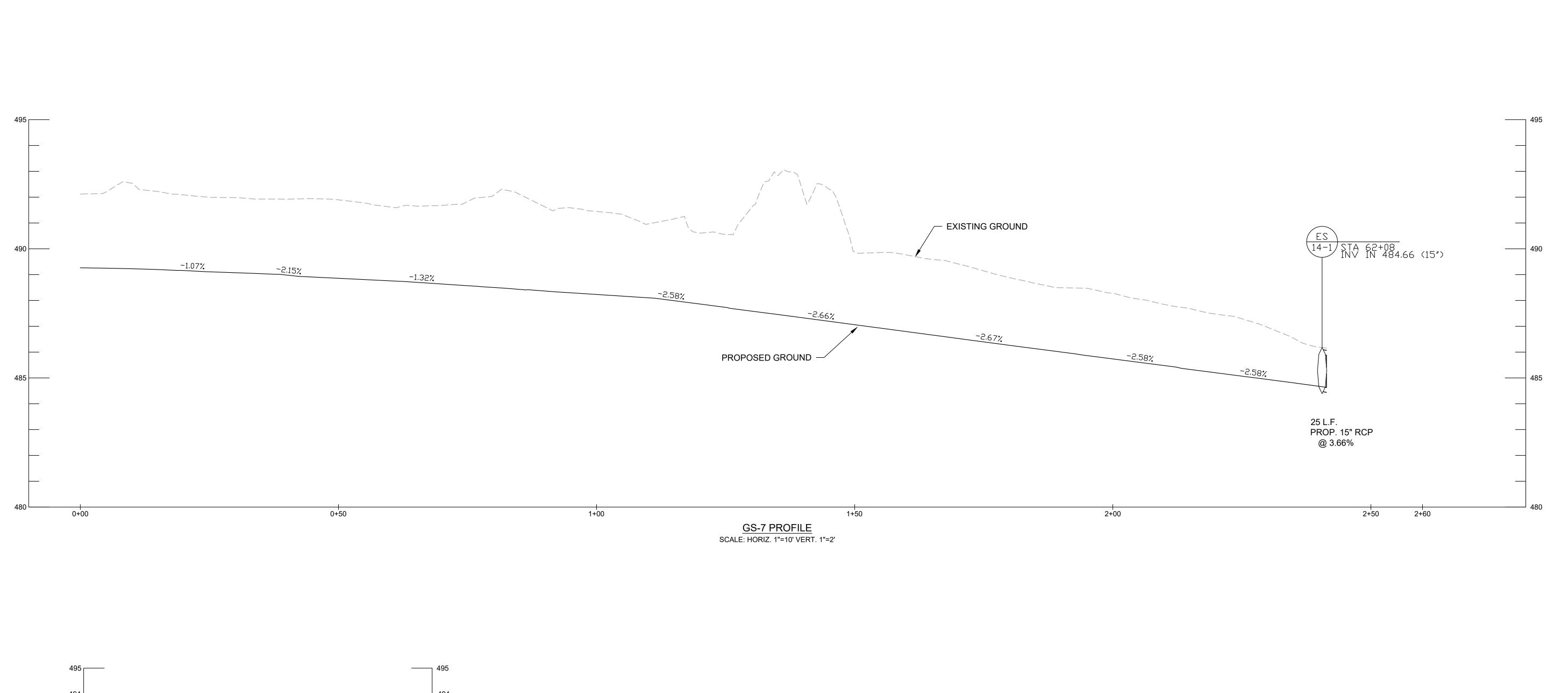




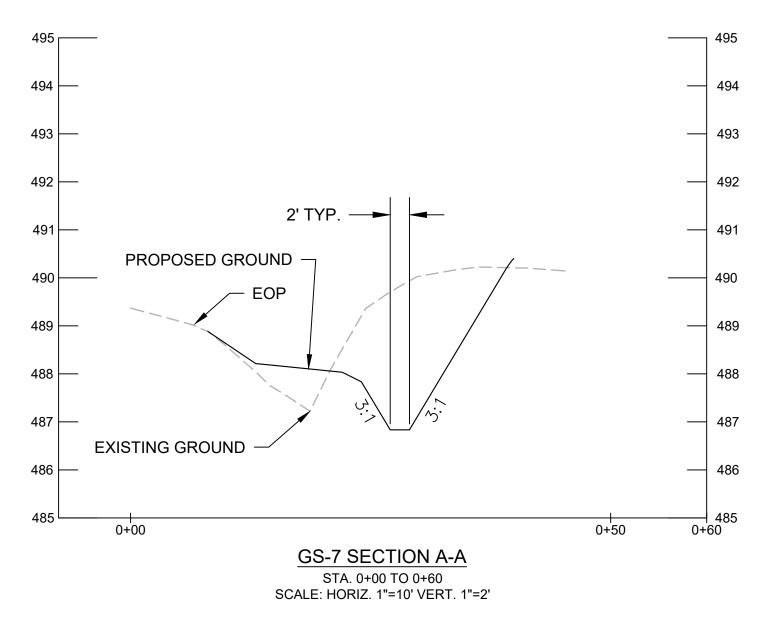


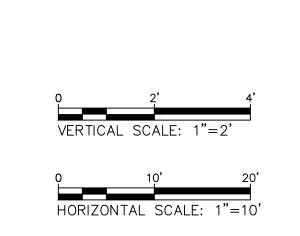






RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043





CONSTRUCTION INSPECTION CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR	OWNER/ DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved SC/SM plans on-site at all times. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
 Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans 		
Final grading and establishment of permanent stabilization conforms to approved plans		

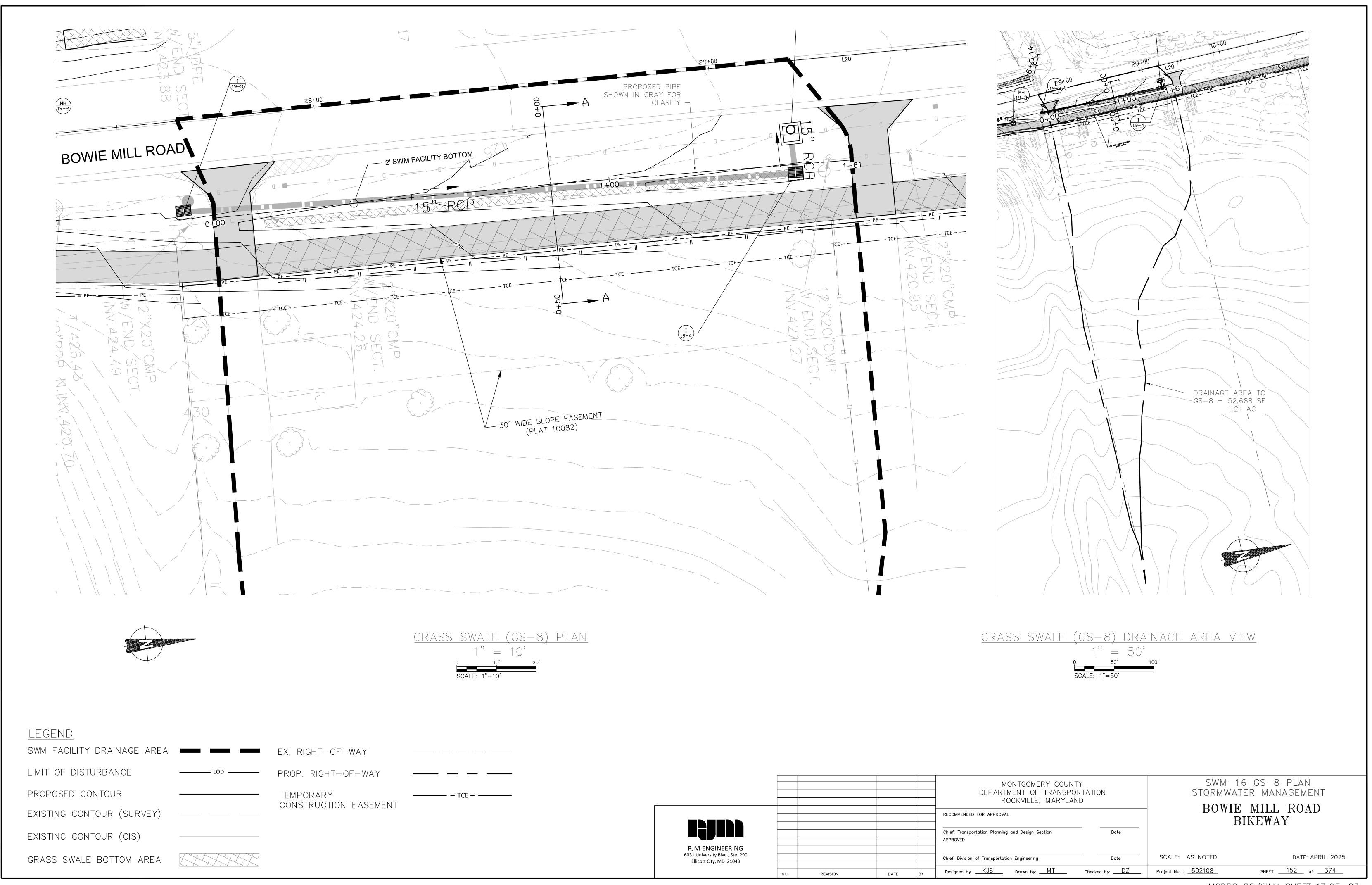
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL Date Chief, Transportation Planning and Design Section Date Chief, Division of Transportation Engineering Checked by: DZ Project No. : <u>502108</u> Designed by: KJS Drawn by: MT

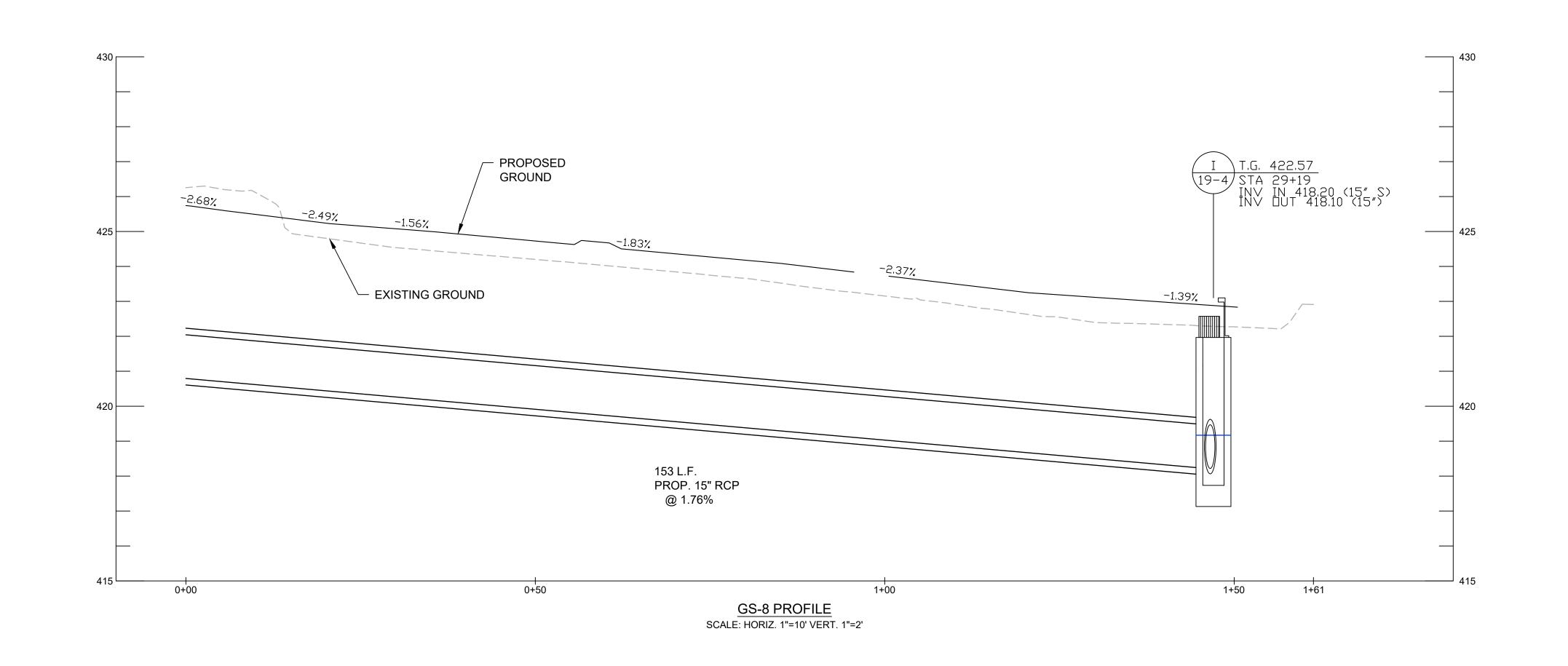
SWM-15 GS-7 PROFILE STORMWATER MANAGEMENT

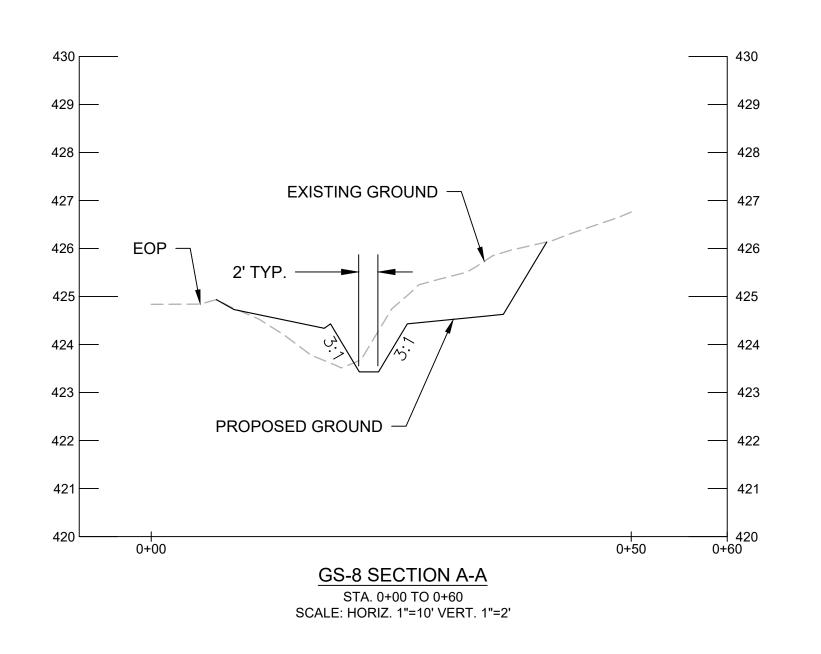
BOWIE MILL ROAD BIKEWAY

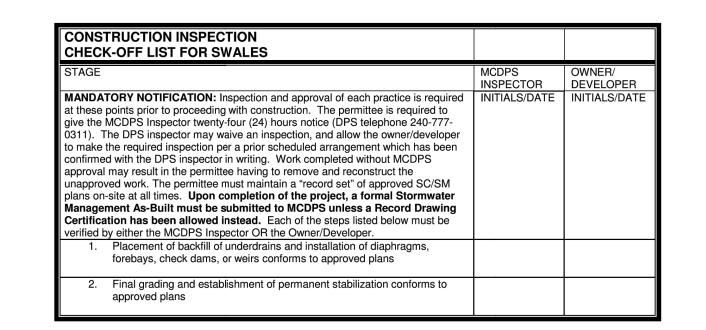
SCALE: AS NOTED

DATE: APRIL 2025 SHEET <u>151</u> of <u>374</u>









					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORT ROCKVILLE, MARYLAND	TATION	
					RECOMMENDED FOR APPROVAL		
					Chief, Transportation Planning and Design Section APPROVED	Date	
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	
,,,	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	_ f

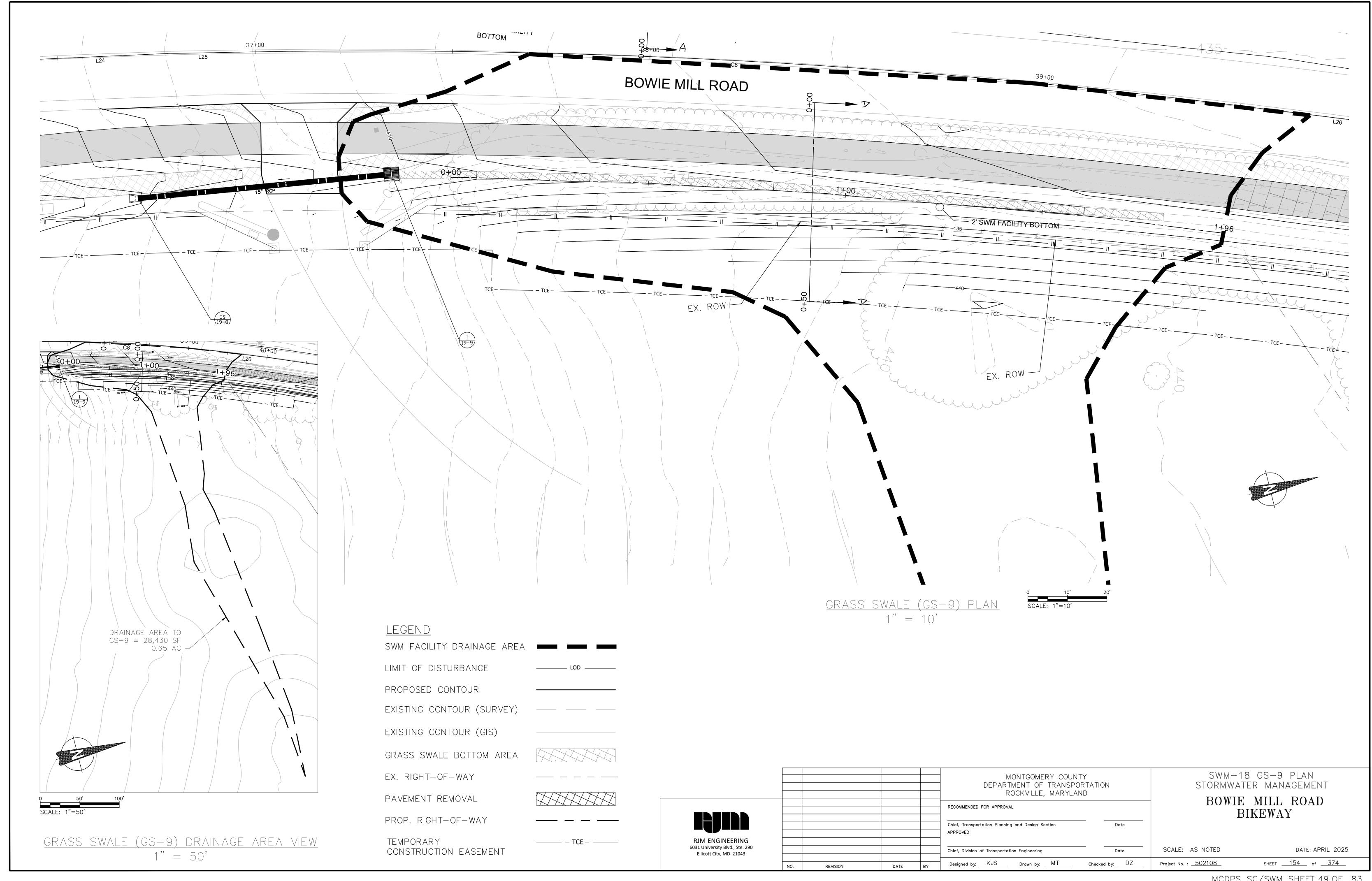
SWM-17 GS-8 PROFILE STORMWATER MANAGEMENT BOWIE MILL ROAD

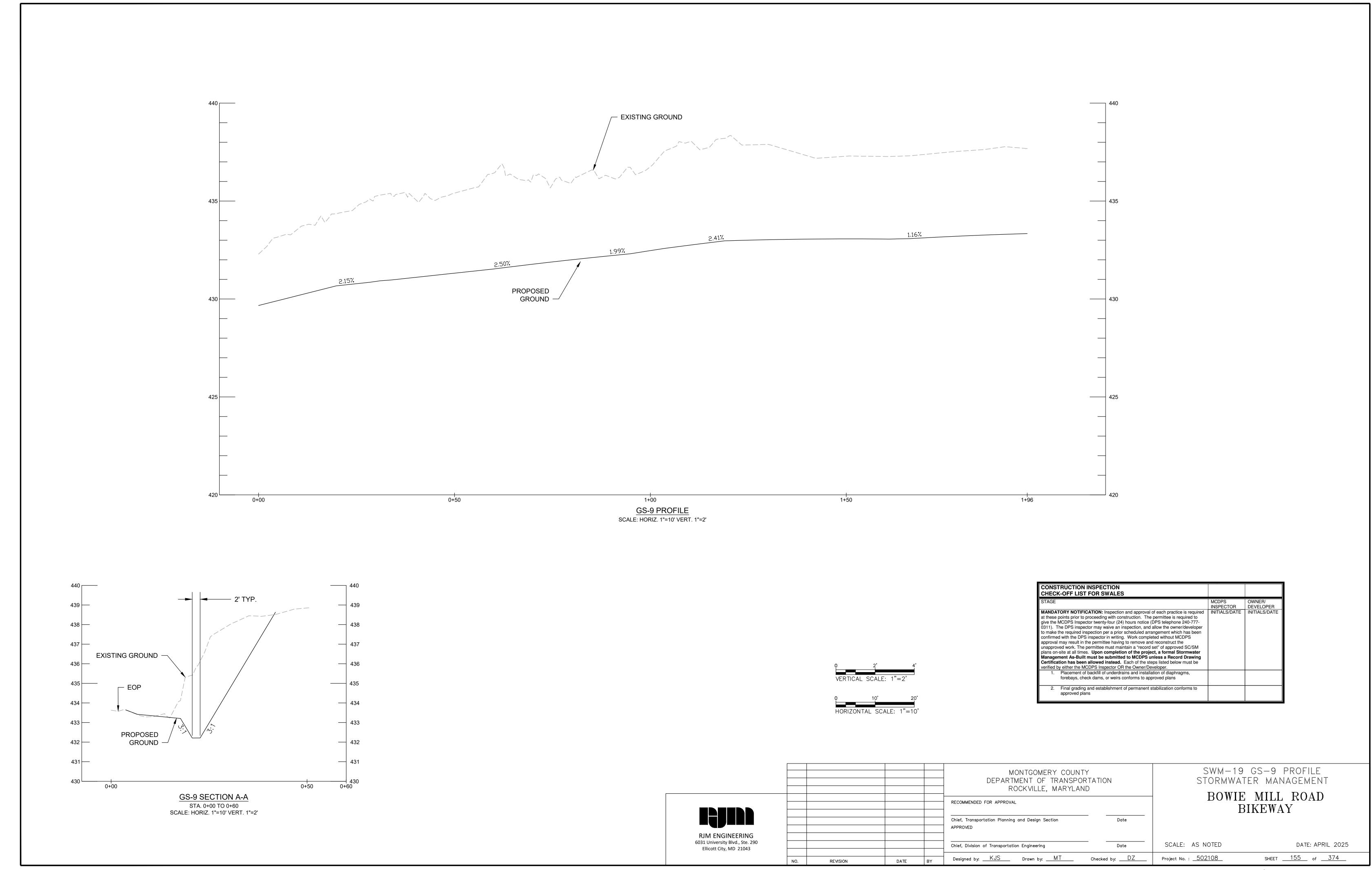
BOWIE MILL ROAD BIKEWAY

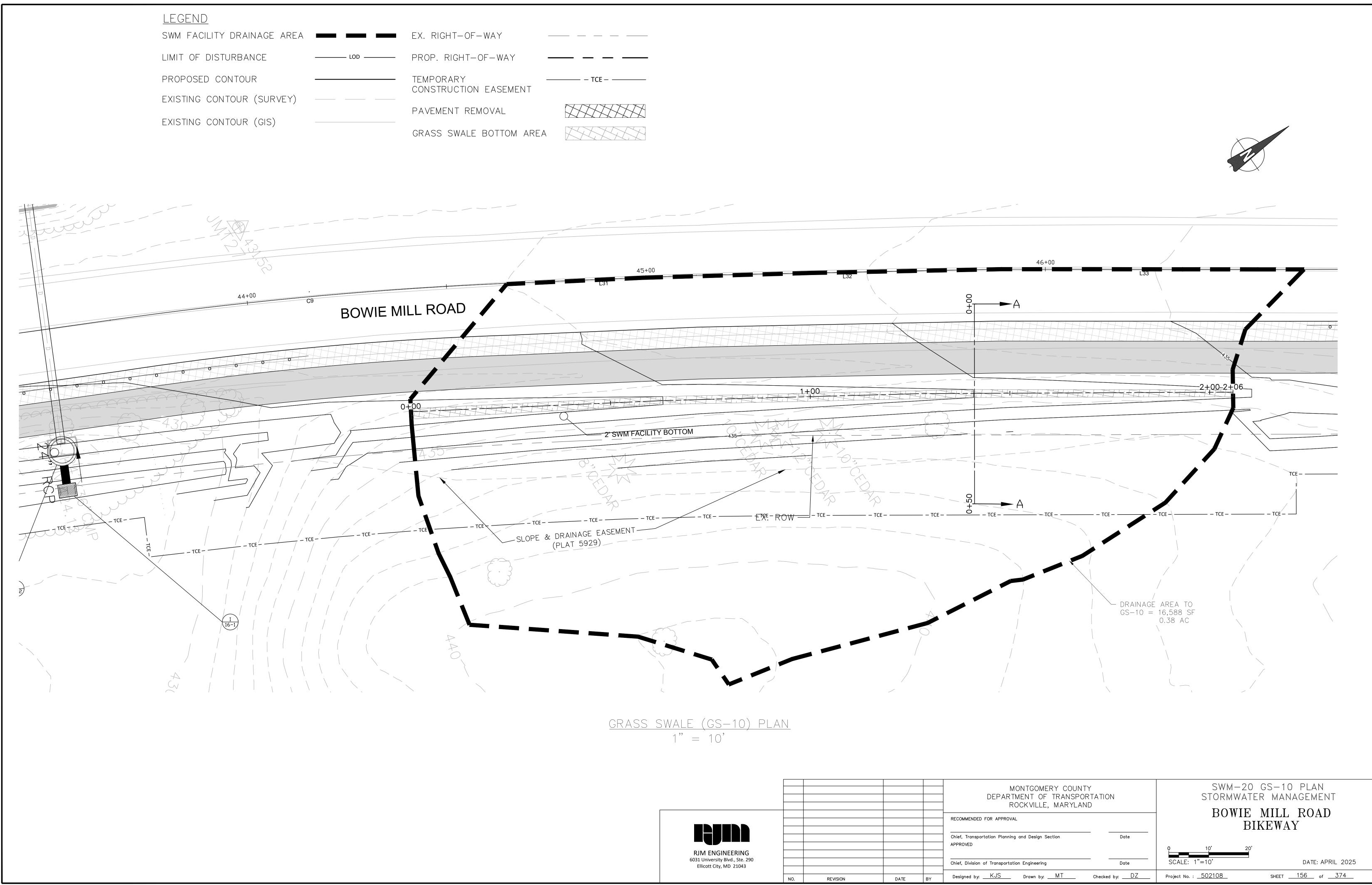
 SCALE:
 AS NOTED
 DATE: APRIL 2025

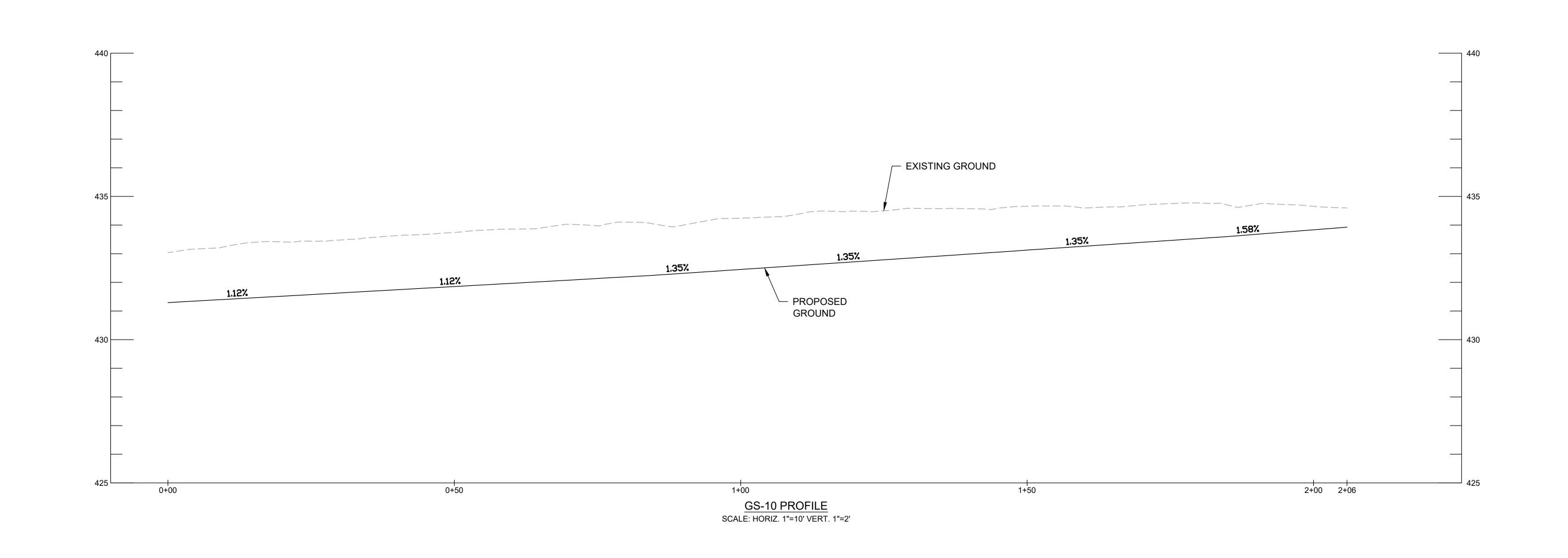
 Project No. :
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 374

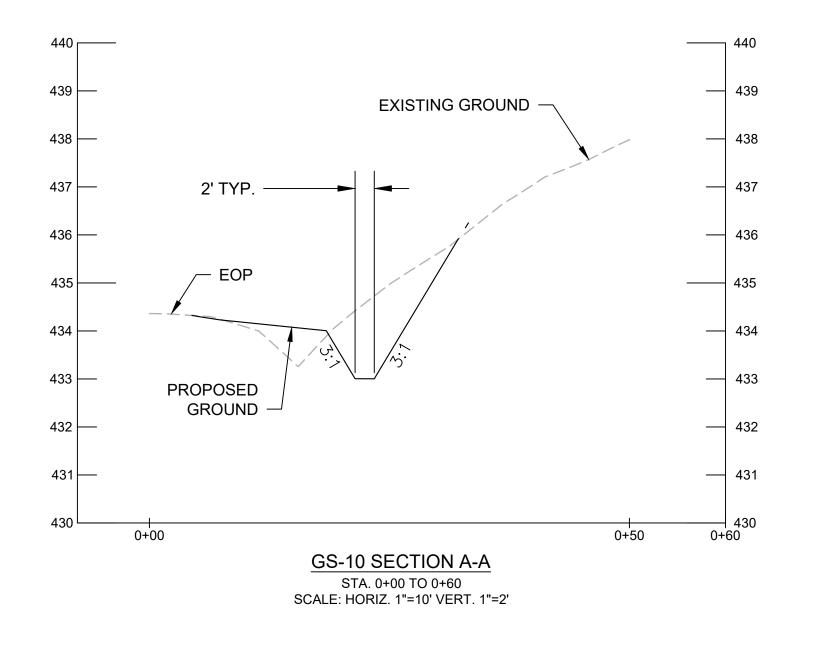
MCDPS SC/SWM SHEET 48 OF 83



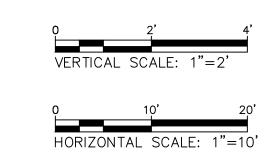








CHECK-OFF LIST FOR SWALES STAGE	MCDPS	OWNER/
STAGE	INSPECTOR	DEVELOPER
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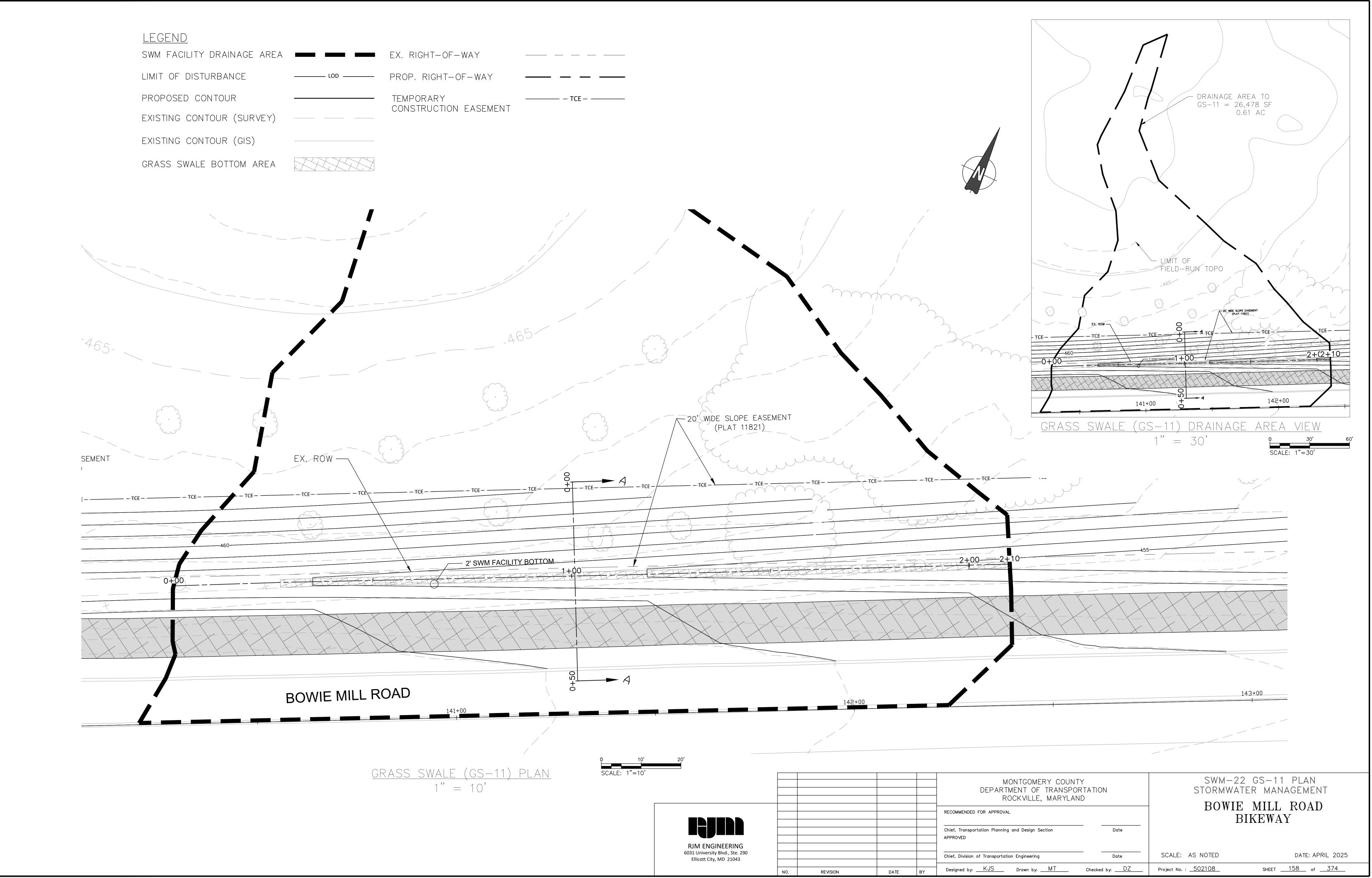
					MONTGOMERY COUNT DEPARTMENT OF TRANSPOF ROCKVILLE, MARYLAN	RTATION	SWM- STORM'
					RECOMMENDED FOR APPROVAL		BOV
					Chief, Transportation Planning and Design Section APPROVED	Date	
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	SCALE: AS NOTED
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>
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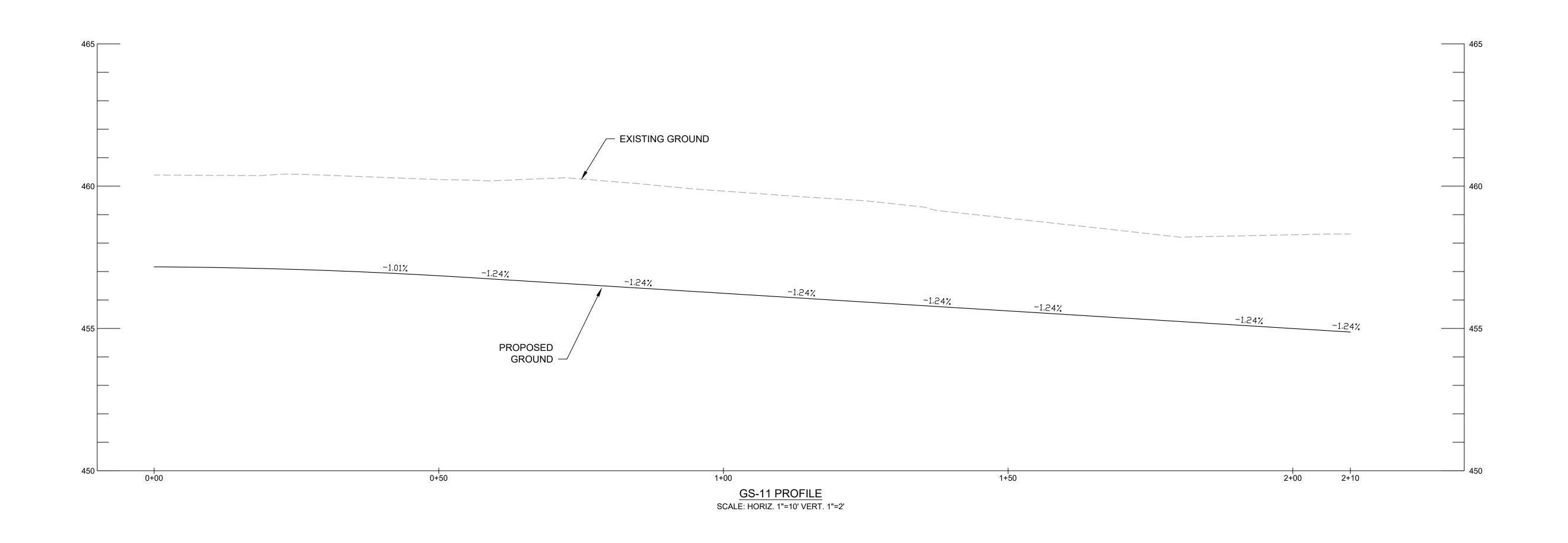
SWM-21 GS-10 PROFILE STORMWATER MANAGEMENT BOWIE MILL ROAD BIKEWAY

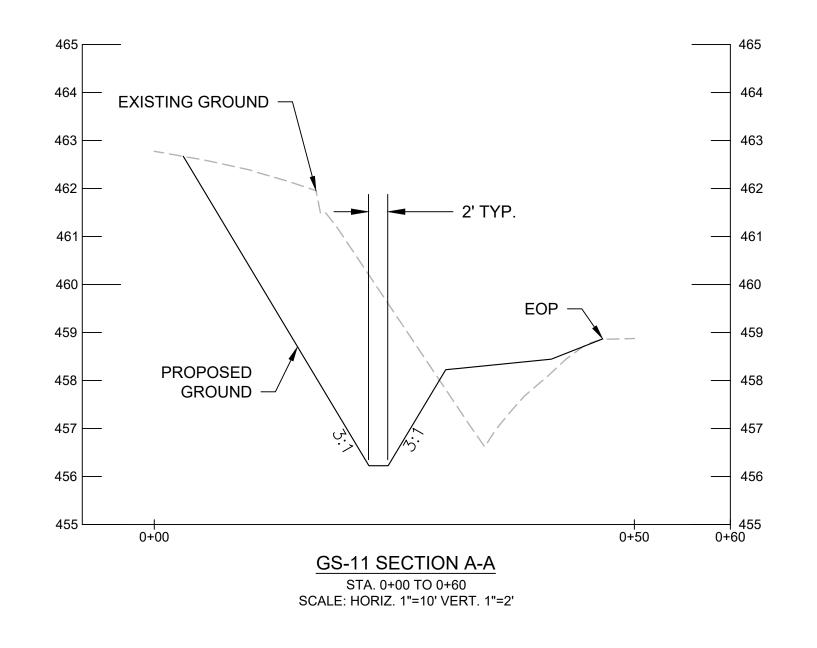
SCALE: AS NOTED DATE: APRIL 2025

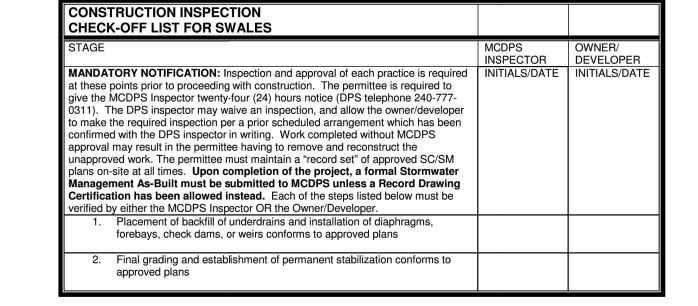
2108 SHEET 157 of 374

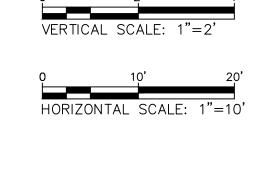
MCDPS SC/SWM SHEET 52 OF 83









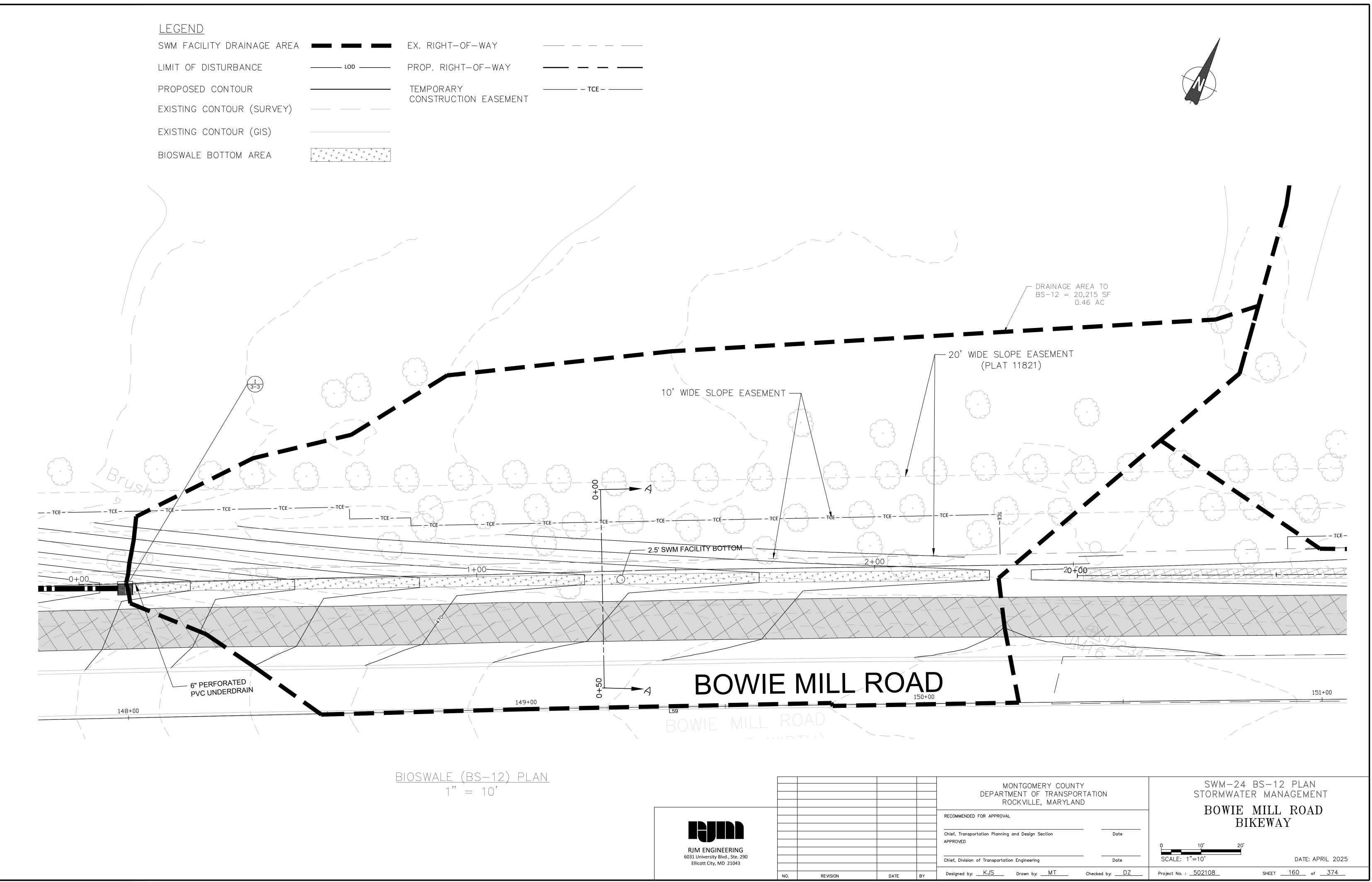


					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORT ROCKVILLE, MARYLAND	
					RECOMMENDED FOR APPROVAL	
					Chief, Transportation Planning and Design Section APPROVED	Date
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	 Date
EIIICOLL CILY, IVID 21045	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ

SWM-23 GS-11 PROFILE STORMWATER MANAGEMENT BOWIE MILL ROAD BIKEWAY

SCALE: AS NOTED

DATE: APRIL 2025 Project No. : <u>502108</u> SHEET <u>159</u> of <u>374</u>



<u>NOTES:</u>

474 —

473 —

472 —

EXISTING GROUND

0+00

STA. 0+00 TO 0+60

HORIZONTAL SCALE: 1"=10'

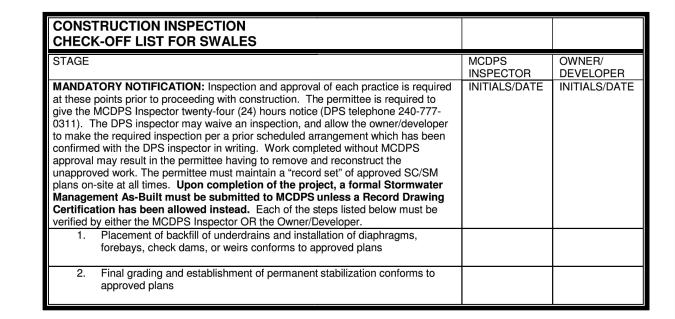
- 1. GRAVEL LAYER: THE GRAVEL LAYER MUST MEET MSHA SIZE #7 (TABLE 901A), AND SHALL BE 12-INCHES IN DEPTH. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN FILTER MEDIA, EXCEPT AT DRIVEWAY CROSSINGS, AS SHOWN IN THE TYPICAL SECTION. THE GRAVEL MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.
- 2. PLANTING MEDIA: THE PLANTING MEDIA SHALL BE 24 INCHES THICK AND CONFORM TO MONTGOMERY COUNTY MICRO-BIORETENTION FACILITY PLANTING MEDIA SPECIFICATIONS:
 - 1/3 PERLITE OR SOLITE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL.
 - THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA: CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
- THE FIRST LAYER OF THE PLANTING MEDIUM SHALL BE LIGHTLY TILLED TO MIX IT INTO THE 6-INCH SAND LAYER, SO AS NOT TO CREATE A DEFINITIVE BOUNDARY. THE PLANTING BED SHALL BE FLOODED AFTER PLACEMENT. ANY SETTLEMENT THAT OCCURS SHALL BE FILLED BACK TO THE DESIGN ELEVATION.

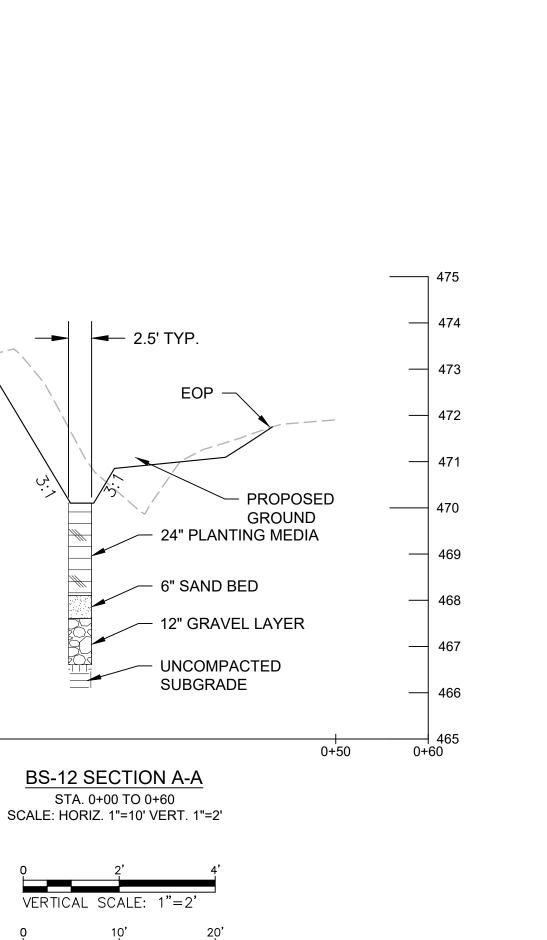
- 3. SAND BED: A MINIMUM 6-INCH FINE AGGREGATE SAND LAYER SHALL BE PROVIDED BELOW THE PLANTING MEDIA. ASTM C33 OR AASHTO M6 FINE AGGREGATE CONCRETE SAND IS REQUIRED PER MONTGOMERY COUNTY SAND SPECIFICATIONS.
- 4. PERFORATED PIPE MUST HAVE PERFORATIONS 3/8 INCH IN DIAMETER AND LOCATED 4 INCHES ON CENTER, EVERY 90 DEGREES AROUND THE PIPE. PERFORATED PIPE MUST BE AT LEAST 12 INCHES INSIDE THE FILTER MEDIA. IF THIS CANNOT BE ACHIEVED, THEN SIDES OF THE FILTER MEDIA MUST BE LINED WITH FILTER FABRIC. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE. AN ACCEPTABLE ALTERNATIVE TO PERFORATED PIPE IS 6" DIAMETER SCHEDULE 40 SLOTTED PVC PIPE WITH 0.125 INCH SLOTS. SLOTS SHALL BE 0.125 INCHES WIDE AND A MINIMUM OF 1.9 INCHES IN LENGTH, WITH A MINIMUM OF 4 SLOTS PER ROW AND 4 ROWS PER LINEAR FOOT OF PIPE.

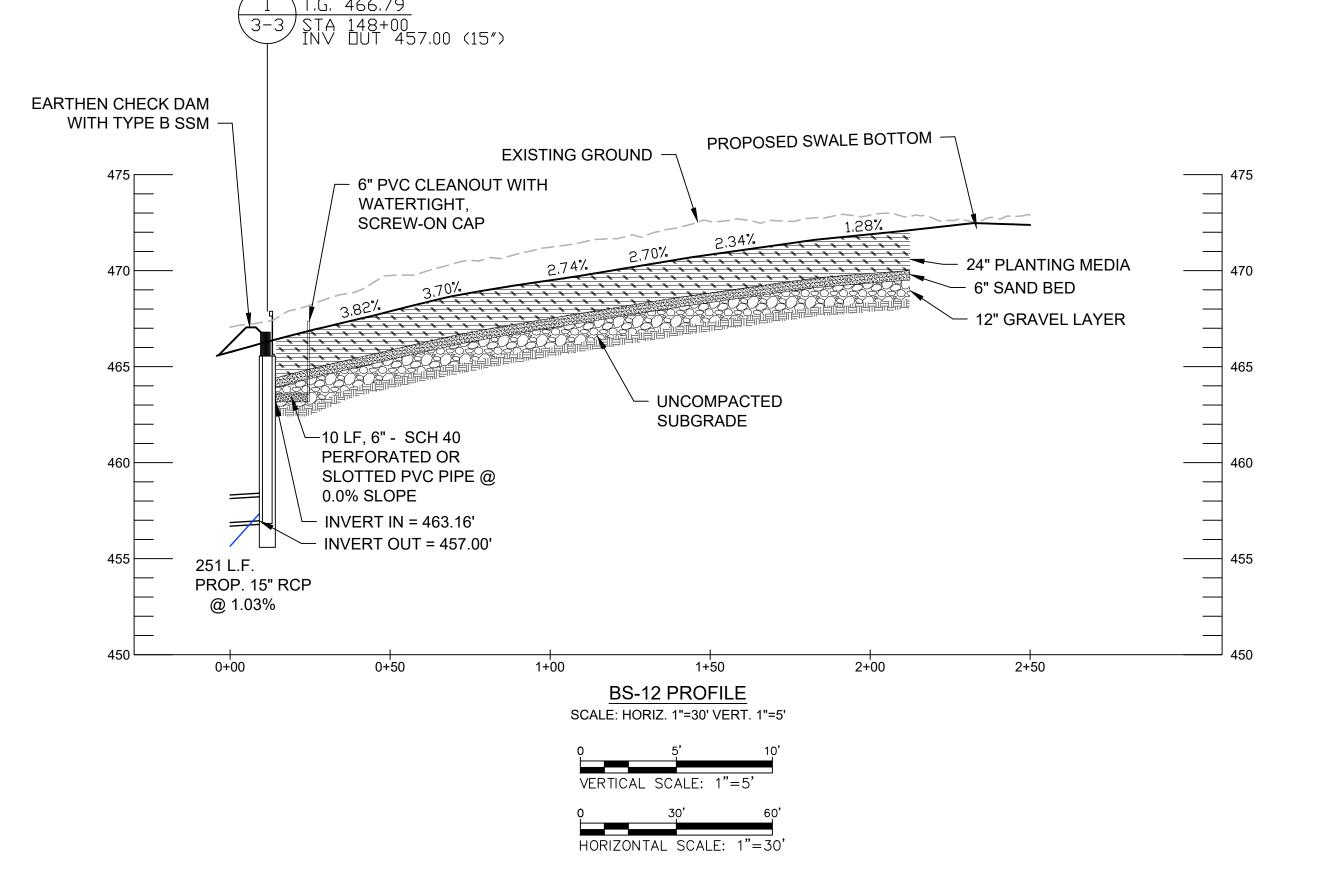
SAND SPECIFICATIONS:

Washed ASTM C33 Fine Aggregate Concrete Sand is utilized for stormwater management applications in Montgomery County. In addition to the ASTM C33 specification, sand must meet ALL of the following conditions:

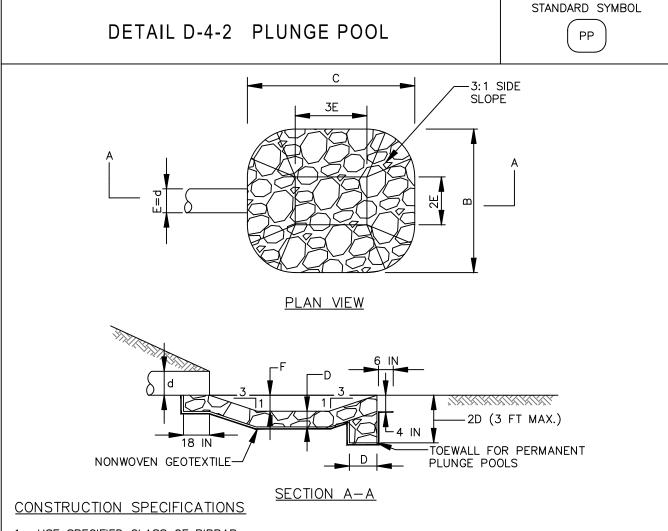
- 1. Sand must meet gradation requirements for ASTM C-33 Fine Aggregate Concrete Sand. MSHTO M-6 gradation is also acceptable.
- 2. Sand must be silica based ... no limestone based products may be used. If the material is white or gray in color, it is probably not acceptable.
- 3. Sand must be clean. Natural, unwashed sand deposits may not be used. Likewise, sand that has become contaminated by improper storage or installation practices will be rejected. 4. Manufactured sand or stone dust is not acceptable under any circumstance.







					MONTGOMERY COUNT DEPARTMENT OF TRANSPO ROCKVILLE, MARYLAN	RTATION	STORMWA ⁻	BS-12 PROFILE FER MANAGEMENT
					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED	Date		MILL ROAD SIKEWAY
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					Chief, Division of Transportation Engineering	Date	SCALE: AS NOTED	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT	Checked by: DZ	Project No. : <u>502108</u>	SHEET <u>161</u> of <u>374</u>



- 1. USE SPECIFIED CLASS OF RIPRAP.
- 2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCHING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE.
- 3. PREPARE THE SUBGRADE FOR THE PLUNGE POOL TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- 4. EMBED THE GEOTEXTILE A MINIMUM OF 4 INCHES AND EXTEND THE GEOTEXTILE A MINIMUM OF 6 INCHES BEYOND THE EDGE OF THE SCOUR HOLE.
- 5. STONE FOR THE PLUNGE POOL MAY BE PLACED BY EQUIPMENT. CONSTRUCT TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. DELIVER AND PLACE THE STONE FOR THE PLUNGE POOL IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE STONE FOR THE PLUNGE POOL IN A MANNER TO PREVENT DAMAGE TO THE GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
- 6. AT THE PLUNGE POOL OUTLET, PLACE THE STONE SO THAT IT MEETS THE EXISTING GRADE.
- . MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED RIPRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

NOTE: VEGETATED RIPRAP SHALL BE PROVIDED FOR ALL PLUNGE POOLS. SEE SPECIFICATIONS, THIS SHEET.

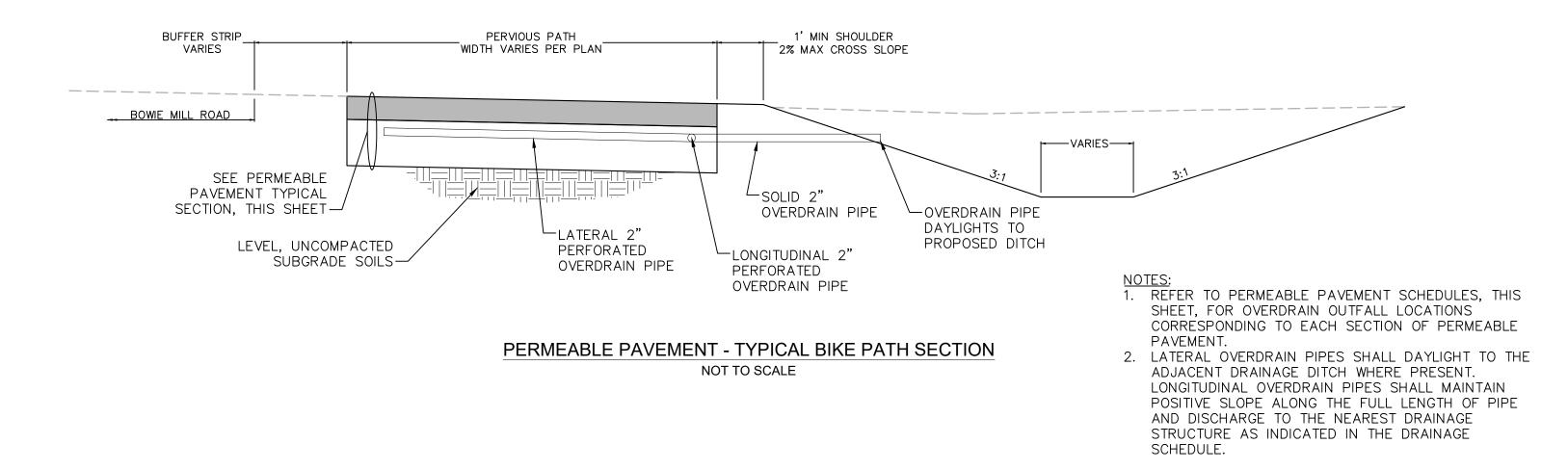
			PLUNGE	POOL SCHED	ULE		
		PLUNGE	С	В	F	D	E=d
LOCATION	RIPRAP TYPE	POOL TYPE	[FT]	[FT]	[FT]	[IN]	[IN]
EW-8-6	CLASS 1	TYPE II	9	7.5	0.75	19	18
ES-10-1	CLASS 1	TYPEI	14	12	1.5	19	18
ES-14-10	CLASS 1	TYPEI	11.25	10	1.25	19	15

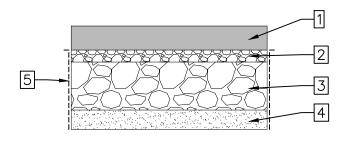
	Riparian Seed	Mix
% of mix by species (20 lbs/acre native spp.)	Common Name	Species
25%	Creeping red fescue	Festuca rubra
20%	Virginia wild rye	Elymus virginicus
15%	Purple Top	Tridens flavus
30%	Riverbank wild rye	Elymus riparius
10%	Deer tongue grass	Dichanthelium clandestinum
	Erosion Control to be In	cluded in Mix
lbs Per Acre	Туре	Usage Dates
50	Oats or Barley	Nov. 1st thru March 15th
15	Foxtail Millet	May 15th thru Aug 15th
25	Annual Ryegrass	March 16th thru May 14th and Aug 16th thru Oct. 31st
This native	seed mix has an applicat	ion rate of 20+/- lbs/acre.
Add an inexpensiv	e, erosion control seed (the appropriate	types listed above) and spread at erate.
•	ative seed is 20 lbs/acre a acre, total rate will be 35	and the erosion control grass is 15 lbs seed total/acre.

CONSTRUCTION SPECIFICATIONS

- 1. PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL RIPRAP. EMBED AT LEAST 4 INCHES INTO SIDES OF RIPRAP
- 2. INSTALL CLASS I RIPRAP LINING TO A MINIMUM DEPTH OF 19 INCHES (2 \times D_{50}). STONE TO BE PLACED IN ONE CONTINUOUS LAYER SO THAT IT BLENDS WITH THE SURROUNDING GROUND TO AVOID SCOUR. STONE SHOULD NOT PROTRUDE ABOVE THE ADJACENT CHANNEL AND SHOULD BE PLACED,
- 3. INCORPORATE TOPSOIL AND/OR MULCH IN RIPRAP TO FILL THE VOID SPACE BETWEEN STONES TO WITHIN 2 INCHES OF THE SURFACE.
- 4. SEED WITH RIPARIAN SEED MIX.

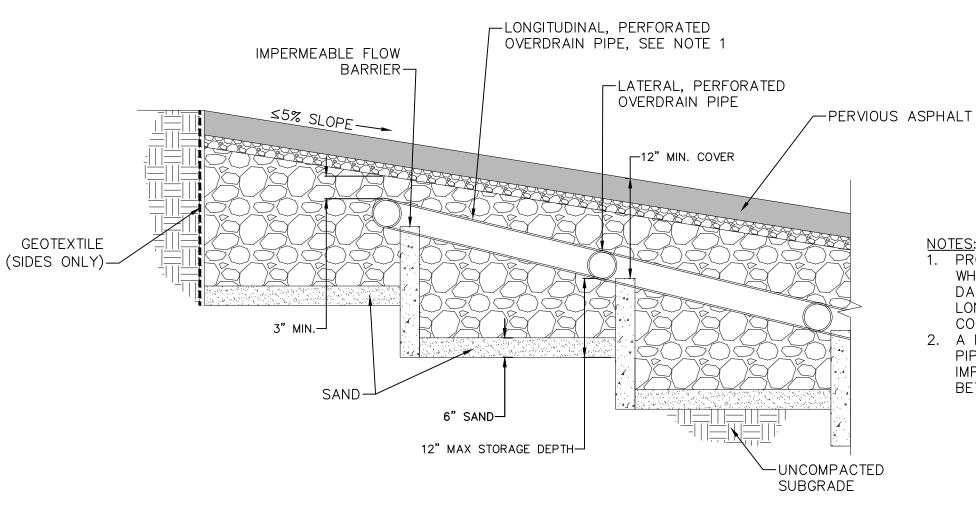
VEGETATED RIPRAP SPECIFICATIONS





- 1 4" POROUS ASPHALT
- 2" AGGREGATE BASE CONSISTING OF WASHED AASHTO NO. 3 COURSE AGGREGATE AND NO. 57 STONE
- 3 VARIABLE DEPTH CLEAN NO. 7 STONE. MINIMUM DEPTH 12"
- 4" SAND, WASHED ASTM C-33 FINE AGGREGATE CONCRETE SAND
- 5 GEOTEXTILE CLASS PE (TYPE III) SIDES ONLY. MIRAFI 140 N OR MCDPS APPROVED EQUIVALENT

PERMEABLE PAVEMENT - TYPICAL PAVEMENT SECTION NOT TO SCALE



WHERE THE LATERAL OVERDRAIN PIPES CANNOT DAYLIGHT TO AN ADJACENT DITCH. CONTINUE LONGITUDINAL OVERDRAIN TO THE TERMINAL CONNECTION TO A DRAINAGE STRUCTURE. 2. A MINIMUM OF ONE LATERAL, PERFORATED OVERDRAIN

1. PROVIDE LONGITUDINAL, PERFORATED OVERDRAIN PIPES

PIPE SHALL BE PROVIDED BETWEEN EACH IMPERMEABLE FLOW BARRIER. THE MAXIMUM SPACING BETWEEN LATERAL OVERDRAIN PIPES IS 50 FEET.

PERMEABLE PAVEMENT - STEPPED BASE TYPICAL SECTION NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Date RJM ENGINEERING 6031 University Blvd., Ste. 290 Chief, Division of Transportation Engineering Date Ellicott City, MD 21043 Project No. : <u>502108</u> Designed by: KJS Drawn by: MT Checked by: DZ

SWM-26 SWM DETAILS STORMWATER MANAGEMENT

BOWIE MILL ROAD BIKEWAY

> DATE: APRIL 2025 SHEET <u>162</u> of <u>374</u>

				I	PERME	ABLE PAVEMENT OUTFALL SCHEDULE
		STA	AT ION F	RANGE		OVERDRAIN OUT FALL LOCATIONS
STA	7+67	RT	ТО	STA. 19+02	RT	ADJACENT DITCH
STA	19+67	RT	ТО	STA. 20+96	RT	GUTTER PAN (THROUGH FACE OF CURB)
STA	23+80	RT	ТО	STA. 34+60	RT	ADJACENT DITCH
STA	39+50	RT	ТО	STA. 42+00	RT	ADJACENT DITCH
STA	49+34	RT	ТО	STA. 50+99	RT	ADJACENT DITCH
						ADJACENT DIT CH (ST A. 57+79 T O 72+00)
OT A	57+79	RT	ТО	STA. 88+25	RT	ADJACENT SLOPE AWAY FROM ROAD (STA. 72+00 TO 77+00)
51 A	31+19	KI	10	STA. 00+20	ΚI	ADJACENT DIT CH (ST A. 77+00 T O 84+50)
						STRUCTURES I-10-10, I-10-9, I-10-8, I-10-7, MH-10-6 (STA 84+50 TO 88+25)
STA	88+84	RT	ТО	STA 95+40	RT	ST RUCT URES I-10-5, I-10-4, I-10-3, I-10-18, I-10-2
STA	106+59	RT	ТО	STA. 125+60	LT	EX. INLET AT STA. 106+80 LT, I-7-1, I-7-4, MH-7-7 (STA. 106+59 TO STA. 115+50)
						BIOSWALE BS-5 (ST A. 115+50 T O ST A. 125+60)
STA	126+52	RT	ТО	STA. 137+12	LT	ADJACENT DITCH
STA	137+86	RT	ТО	STA. 144+67	LT	ADJACENT DITCH
STA	145+37	RT	ТО	STA. 159+22	LT	ADJACENT DITCH, BIOSWALE BS-12, GRASS SWALE GS-4
CT A	160+13	RT	ТО	STA. 171+21	1.T	STRUCTURES I-2-1, I-1-18, I-1-17, I-1-16, I-1-15, I-1-14, I-1-12, I-1-10, I-1-9, I-1-8, I-1-
SIA	100+13	ΚI	10	SIA. 1/1+21	LI	7. l-1-6

FROM STA. 7+67 RT TO STA. 19+02 RT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approvaunappro Manage Certific	priority Notification: Inspection and approval of each practice is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ad with the DPS inspector in writing. Work completed without MCDPS I may result in the permittee having to remove and reconstruct the ved work. Upon completion of the project, a formal Stormwater ment As-Built must be submitted to MCDPS unless a Record Drawing atton has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
1.	Excavation to subgrade conforms to approved plans		
2.	Placement and backfill of any drainage or distribution systems conforms to approved plans		
3.	Placement of crushed stone subbase conforms to approved plans		
	Placement of surface material conforms to approved plans		
4.	Placement of surface material comorns to approved plans		

FROM STA. 39+50 RT TO STA. 42+00 RT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). o make confirme approva unappro Manage Certific	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ed with the DPS inspector in writing. Work completed without MCDPS I may result in the permittee having to remove and reconstruct the wed work. Upon completion of the project, a formal Stormwater ement As-Built must be submitted to MCDPS unless a Record Drawing atton has been allowed instead. Each of the steps listed below must be	INITIALS/DATE	INITIALS/DATE
	by either the MCDPS Inspector OR the Owner/Developer.		
verified 1.			
1.	Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to		
1. 2.	Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 88+84 RT TO STA. 95+40 RT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). T to make confirme approval unapprov Manager Certifica	points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	INITIALS/DATE	INITIALS/DATE
2.	Placement and backfill of any drainage or distribution systems conforms to approved plans		
3.	Placement of crushed stone subbase conforms to approved plans		
4.	Placement of surface material conforms to approved plans		
5.	Final grading and permanent stabilization conforms to approved plans	· ·	

FROM STA. 137+86 TO TO STA. 144+67 LT

	TRUCTION INSPECTION K-OFF LIST FOR PERMEABLE PAVEMENTS		
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). T to make confirme approval unapprov Manage Certifica	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	INITIALS/DATE	INITIALS/DATE
1.	Excavation to subgrade conforms to approved plans		
2.	Placement and backfill of any drainage or distribution systems conforms to approved plans		
3.	Placement of crushed stone subbase conforms to approved plans		
4.	Placement of surface material conforms to approved plans		
5.	Final grading and permanent stabilization conforms to approved plans		

FROM STA. 19+67 RT TO STA. 20+96 RT

	TRUCTION INSPECTION K-OFF LIST FOR PERMEABLE PAVEMENTS		
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). T to make confirme approval unapprov Manage Certifica	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	INITIALS/DATE	INITIALS/DATE
1.	Excavation to subgrade conforms to approved plans		
2.	Placement and backfill of any drainage or distribution systems conforms to approved plans		
3.	Placement of crushed stone subbase conforms to approved plans		
4.	Placement of surface material conforms to approved plans		
5.	Final grading and permanent stabilization conforms to approved plans		

FROM STA. 49+34 RT TO STA. 50+99 RT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approva unappro	ATORY NOTIFICATION: Inspection and approval of each practice is required a points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ed with the DPS inspector in writing. Work completed without MCDPS all may result in the permittee having to remove and reconstruct the bored work. Upon completion of the project, a formal Stormwater	INITIALS/DATE	INITIALS/DATE
Certifica	ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans		
Certification verified	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
Certificativerified 1.	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to		
Verified 1. 2.	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 106+59 LT TO STA. 125+60 LT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approva unappro	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ad with the DPS inspector in writing. Work completed without MCDPS I may result in the permittee having to remove and reconstruct the ved work. Upon completion of the project, a formal Stormwater rement As-Built must be submitted to MCDPS unless a Record Drawing	INITIALS/DATE	INITIALS/DATE
Certific	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
Certific	ation has been allowed instead. Each of the steps listed below must be		
Certific verified	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
Certification verified 1.	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to		
verified 1.	ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 145+37 LT TO STA. 159+22 LT

	TRUCTION INSPECTION K-OFF LIST FOR PERMEABLE PAVEMENTS		
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approva	properties and approval of each practice is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ed with the DPS inspector in writing. Work completed without MCDPS I may result in the permittee having to remove and reconstruct the	INITIALS/DATE	INITIALS/DATE
Manage Certifica	eved work. Upon completion of the project, a formal Stormwater ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
Manage Certifica	ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be		
Manage Certification verified	ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
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Manage Certifica verified 1. 2.	ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 21+62 RT TO STA. 34+60 RT

at these	ATORY NOTIFICATION: Inspection and approval of each practice is required	INSPECTOR	OWNER/ DEVELOPER
0311). to make confirme approva	the points prior to proceeding with construction. The permittee is required to be MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-17-17-17-17-17-17-17-17-17-17-17-17	INITIALS/DATE	INITIALS/DATE
Manage Certific verified	gement As-Built must be submitted to MCDPS unless a Record Drawing cation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans		
Manage Certific verified 1.	d by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans		
Manage Certific verified	d by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans		
Manage Certific verified 1.	cation has been allowed instead. Each of the steps listed below must be d by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 57+79 RT TO STA. 88+25 RT

STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approva	ATORY NOTIFICATION: Inspection and approval of each practice is required to points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer of the required inspection per a prior scheduled arrangement which has been ed with the DPS inspector in writing. Work completed without MCDPS all may result in the permittee having to remove and reconstruct the boxed work. Upon completion of the project, a formal Stormwater	INITIALS/DATE	INITIALS/DATE
Manage Certific verified	ement As-Built must be submitted to MCDPS unless a Record Drawing ration has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
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Manage Certific verified	ement As-Built must be submitted to MCDPS unless a Record Drawing ration has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
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Manage Certific verified 1.	ement As-Built must be submitted to MCDPS unless a Record Drawing lation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer. Excavation to subgrade conforms to approved plans Placement and backfill of any drainage or distribution systems conforms to approved plans		

FROM STA. 126+52 LT TO STA. 137+12 LT

	K-OFF LIST FOR PERMEABLE PAVEMENTS	110000	OW/NED/
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). o make confirme approva	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ad with the DPS inspector in writing. Work completed without MCDPS Image result in the permittee having to remove and reconstruct the	INITIALS/DATE	INITIALS/DATE
Manage Certifica	ved work. Upon completion of the project, a formal Stormwater sment As-Built must be submitted to MCDPS unless a Record Drawing lation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
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FROM STA. 160+13 LT TO STA. 171+21 LT

CHEC	K-OFF LIST FOR PERMEABLE PAVEMENTS		
STAGE		MCDPS INSPECTOR	OWNER/ DEVELOPER
at these give the 0311). to make confirme approva	points prior to proceeding with construction. The permittee is required points prior to proceeding with construction. The permittee is required to MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-The DPS inspector may waive an inspection, and allow the owner/developer the required inspection per a prior scheduled arrangement which has been ad with the DPS inspector in writing. Work completed without MCDPS I may result in the permittee having to remove and reconstruct the wed work. Upon completion of the project, a formal Stormwater	INITIALS/DATE	INITIALS/DATE
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Manage Certification verified	ement As-Built must be submitted to MCDPS unless a Record Drawing ation has been allowed instead. Each of the steps listed below must be by either the MCDPS Inspector OR the Owner/Developer.		
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Project No. : <u>502108</u>

					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RJM ENGINEERING 6031 University Blvd., Ste. 290 Ellicott City, MD 21043					RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED Chief, Division of Transportation Engineering Date	
	NO.	REVISION	DATE	BY	Designed by: KJS Drawn by: MT Checked by: D	Z

SWM-27 SWM DETAILS
STORMWATER MANAGEMENT

BOWIE MILL ROAD
BIKEWAY

DATE: APRIL 2025

SHEET 163 of 374