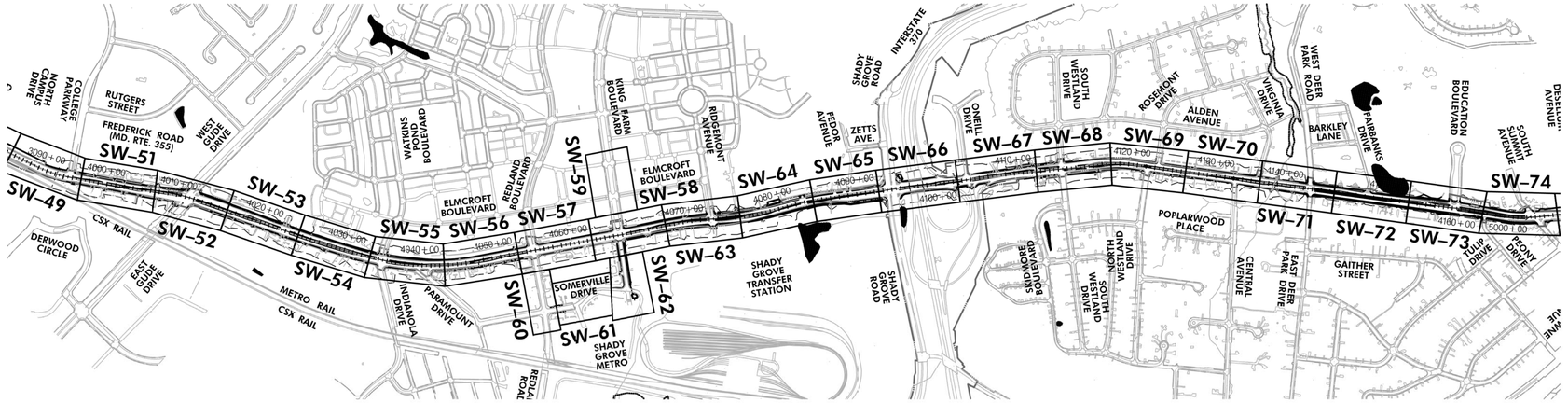

Table 1: MD-355 BRT (35% Design) ESDv Facilities

Station	Side of Road	POI/LOI	Watershed	BMP Types	BMP ID	IART Managed (ac)	Credited ESDv (cf)
4063+95	N	4-233	ROCK CREEK	Planter Box	4-RC-PB-001N	0.07	645
4062+00	N	4-233	ROCK CREEK	Planter Box	4-RC-PB-002N	0.73	2,363
4087+00	N	4-235	ROCK CREEK	Planter Box	4-RC-PB-003N	0.16	1,457
4089+00	N	4-235	ROCK CREEK	Planter Box	4-RC-PB-004N	0.18	1,645
4091+00	N	4-235	ROCK CREEK	Planter Box	4-RC-PB-005N	0.17	709
4154+55	N	4-300	POTOMAC RIVER	Planter Box	4-PR-PB-001N	0.28	1,323
3093+00	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-001N	0.06	194
3093+95	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-002N	0.07	233
4001+30	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-003N	0.07	242
4004+55	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-004N	0.16	552
4006+90	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-005N	0.15	527
4008+90	N	4-198	ROCK CREEK	Underground Filter	4-RC-UF-006N	0.19	660
4012+60	N	4-200	ROCK CREEK	Underground Filter	4-RC-UF-007N	0.56	1,895
4018+00	N	4-200	ROCK CREEK	Underground Filter	4-RC-UF-008N	0.19	656
4019+05	N	4-200	ROCK CREEK	Underground Filter	4-RC-UF-009N	0.17	561
4021+55	N	4-200	ROCK CREEK	Underground Filter	4-RC-UF-010N	0.13	447
4050+25	N	4-233	POTOMAC RIVER	Underground Filter	4-PR-UF-001N	0.09	300
4005+25	M	4-198	ROCK CREEK	Bioswale	4-RC-BS-001M	0.20	1,155
4013+75	M	4-200	ROCK CREEK	Bioswale	4-RC-BS-002M	0.23	1,820
4021+75	M	4-200	ROCK CREEK	Bioswale	4-RC-BS-003M	0.11	560
4046+50	M	4-230	ROCK CREEK	Bioswale	4-RC-BS-004M	0.41	1,365
4076+00	M	4-233	ROCK CREEK	Bioswale	4-RC-BS-005M	0.22	1,970
4076+50	M	4-233	ROCK CREEK	Bioswale	4-RC-BS-006M	0.06	350
4084+60	M	4-235	ROCK CREEK	Bioswale	4-RC-BS-007M	0.08	758
4028+50	M	4-230	POTOMAC RIVER	Bioswale	4-PR-BS-001M	0.62	4,025
4036+25	M	4-230	POTOMAC RIVER	Bioswale	4-PR-BS-002M	1.55	1,120
4099+00	M	4-237	POTOMAC RIVER	Bioswale	4-PR-BS-003M	0.20	840
4118+00	M	4-300	POTOMAC RIVER	Bioswale	4-PR-BS-004M	0.16	700
4116+75	M	4-300	POTOMAC RIVER	Bioswale	4-PR-BS-005M	0.74	2,310
4134+75	M	4-300	POTOMAC RIVER	Bioswale	4-PR-BS-006M	0.13	1,185
4145+50	M	4-301	POTOMAC RIVER	Bioswale	4-PR-BS-007M	0.46	4,146
4009+50	S	4-198	ROCK CREEK	Porous Pavement	-	0.03	294
4017+50	S	4-200	ROCK CREEK	Porous Pavement	-	0.13	1,121
4024+50	S	4-200	ROCK CREEK	Porous Pavement	-	0.02	207
4026+40	S	4-230	ROCK CREEK	Porous Pavement	-	0.03	253
4075+00	S	4-233	ROCK CREEK	Porous Pavement	-	0.13	1,133
4084+00	S	4-235	ROCK CREEK	Porous Pavement	-	0.02	152
4085+40	S	4-235	ROCK CREEK	Porous Pavement	-	0.01	77
4087+10	S	4-235	ROCK CREEK	Porous Pavement	-	0.01	75
4090+00	S	4-235	ROCK CREEK	Porous Pavement	-	0.04	375
4080+25	S	4-235	ROCK CREEK	Porous Pavement	-	0.07	3,556
4024+25	N	4-200	ROCK CREEK	Porous Pavement	-	0.04	320
4026+75	N	4-230	ROCK CREEK	Porous Pavement	-	0.03	274
4045+10	N	4-230	ROCK CREEK	Porous Pavement	-	0.01	76
4046+25	N	4-230	ROCK CREEK	Porous Pavement	-	0.01	69
4047+55	N	4-233	ROCK CREEK	Porous Pavement	-	0.02	146
4063+25	N	4-233	ROCK CREEK	Porous Pavement	-	0.07	562
4076+50	N	4-233	ROCK CREEK	Porous Pavement	-	0.14	1,183
4086+00	N	4-235	ROCK CREEK	Porous Pavement	-	0.28	2,365
4042+00	S	4-230	POTOMAC RIVER	Porous Pavement	-	0.13	1,093
4048+00	S	4-235	POTOMAC RIVER	Porous Pavement	-	0.06	546
4095+00	S	4-236	POTOMAC RIVER	Porous Pavement	-	0.01	73
4097+00	S	4-237	POTOMAC RIVER	Porous Pavement	-	0.02	145
4100+00	S	4-237	POTOMAC RIVER	Porous Pavement	-	0.03	1,302
4103+50	S	4-237	POTOMAC RIVER	Porous Pavement	-	0.03	295
4106+25	S	4-238	POTOMAC RIVER	Porous Pavement	-	0.03	250

Table 1: MD-355 BRT (35% Design) ESDv Facilities

Station	Side of Road	POI/LOI	Watershed	BMP Types	BMP ID	IART Managed (ac)	Credited ESDv (cf)
4+08+60	S	4-238	POTOMAC RIVER	Porous Pavement	-	0.22	1,892
4+10+75	S	4-238	POTOMAC RIVER	Porous Pavement	-	0.03	255
4+15+00	S	4-300	POTOMAC RIVER	Porous Pavement	-	0.07	560
4+20+50	S	4-300	POTOMAC RIVER	Porous Pavement	-	0.07	606
4+30+00	S	4-300	POTOMAC RIVER	Porous Pavement	-	0.06	533
4+33+40	S	4-300	POTOMAC RIVER	Porous Pavement	-	0.03	244
4+36+00	S	4-300	POTOMAC RIVER	Porous Pavement	-	0.02	174
4+38+50	S	4-301	POTOMAC RIVER	Porous Pavement	-	0.06	523
4+44+50	S	4-301	POTOMAC RIVER	Porous Pavement	-	0.07	629
4+52+50	S	4-301	POTOMAC RIVER	Porous Pavement	-	0.12	989
4+60+00	S	4-301	POTOMAC RIVER	Porous Pavement	-	0.05	405
4+63+50	S	4-301	POTOMAC RIVER	Porous Pavement	-	0.05	396
4029+00	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.03	241
4030+75	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.02	177
4032+20	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.01	99
4033+50	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.02	145
4036+00	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.04	310
4037+75	N	4-230	POTOMAC RIVER	Porous Pavement	-	0.01	106
4095+00	N	2-236	POTOMAC RIVER	Porous Pavement	-	0.05	398
4097+50	N	2-237	POTOMAC RIVER	Porous Pavement	-	0.09	796
4+04+60	N	4-237	POTOMAC RIVER	Porous Pavement	-	0.02	136
4+07+50	N	4-238	POTOMAC RIVER	Porous Pavement	-	0.06	544
4+10+40	N	4-238	POTOMAC RIVER	Porous Pavement	-	0.01	62
4+11+20	N	4-238	POTOMAC RIVER	Porous Pavement	-	0.01	62
4+14+50	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.07	633
4+23+40	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.01	90
4+24+40	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.01	116
4+25+45	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.01	121
4+26+60	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.02	179
4+28+00	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.02	190
4+29+30	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.02	164
4+30+75	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.03	294
4+34+50	N	4-300	POTOMAC RIVER	Porous Pavement	-	0.06	510
4+38+25	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.07	623
4+42+25	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.02	169
4+43+25	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.01	106
4+44+40	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.02	208
4+45+60	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.02	185
4+47+30	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.04	332
4+48+75	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.01	106
4+49+55	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.01	66
4+52+50	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.11	897
4+56+25	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.03	288
4+57+40	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.01	68
4+59+00	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.04	306
4+60+25	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.01	94
4+61+75	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.04	319
4+63+50	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.02	168
4+64+75	N	4-301	POTOMAC RIVER	Porous Pavement	-	0.02	163

Table 2: MD-355 BRT (35% Design) ESDv and Q10 Bioretention Facilities*

Station	Side of Road	POI/LOI	Watershed	BMP Types	BMP ID	IART Managed (ac)	Surface Storage (cf)	Sub-Surface Storage (cf)	Total ESDv (cf)
2112+25	SB	2-201A	CABIN JOHN	Bioretention Pond	BR-2-201A-Q10	N/A	2,302	4,500	6,802
2116+10	SB	2-217C	CABIN JOHN	Bioretention Pond	BR-2-217D-Q10	N/A	180	1,200	1,380
4062+00	NB	4-245	ROCK CREEK	Bioretention Pond	BR-4-245-Q10	N/A	1,282	3,000	4,282
5063+30	NB	5-148	SENECA CREEK	Bioretention Pond	BR-5-148-Q10	N/A	139	720	859
6075+00	NB	6-324	SENECA CREEK	Bioretention Pond	BR-6-324-1-Q10	N/A	489	2,289	2,289
6072+25	NB	6-324	SENECA CREEK	Bioretention Pond	BR-6-324-2-Q10	N/A	1,076	4,676	4,676

*These facilities are also being used for Q10 control. There is no IART being sought from these BMPs

Table 3: MD-355 BRT (35% Design) Q10 BMP Summary

Station	Side of Road (NB, SB)	POI/ LOI	Watershed	BMP Type	BMP ID.	Storage Volume Provided (cf)
4001+00	NB	POI-4-198	Rock Creek	30" RCP	UG-4-198-1-Q10	2,416
4004+00	SB	POI-4-198	Rock Creek	30" RCP	UG-4-198-2-Q10	4,379
4018+00	NB	POI-4-200	Rock Creek	48" RCP	UG-4-200-1-Q10	7,980
4017+00	NB/MEDIAN	POI-4-200	Rock Creek	48" RCP	UG-4-200-2-Q10	462
4030+00	SB	POI-4-230	Potomac	30" RCP	UG-4-230-1-Q10	2,831
4034+50	SB	POI-4-230	Potomac	30" RCP	UG-4-230-2-Q10	7,562
4069+00	NB	POI-4-233	Rock Creek	Twin 48" RCP	UG-4-233-Q10	15,708
4079+50	SB	POI-4-235	Rock Creek	Detention Pond	DET-4-235-Q10	11,250
4094+10	SB	POI-4-236	Rock Creek	Detention Pond	DET-4-236-Q10	6,300
4108+50	SB	POI-4-238	Potomac	100x4x10 Vault	UG-4-238-Q10	5,000
4130+00	SB	POI-4-300	Potomac	48" RCP	UG-4-300-Q10	15,771
4150+00	SB	POI-4-301	Potomac	Retrofit-ED Pond	RET-ED-4-301-Q10	18,000
4062+00	NB	POI-4-245	Rock Creek	Bioretention Pond	BR-4-245-Q10	5,000

Table 4: MD-355 BRT (35% Design) IART, ESDv, and Q10 Requirements Per Watershed

Total Per Watershed	IART Required (ac.)	IART Provided (ac.)	ESDv Required (cf)	ESDv Provided (cf)	10-YR Detention Storage Required (cf)	10-YR Detention Storage Provided
Cabin John	11.55	17.07	54,756	98,923	238,252	*Q10 is provided per POI/LOI as required
Potomac	11.54	7.81	73,152	42,021	159,627	
Rock Creek	24.56	23.60	121,886	122,007	498,707	
Seneca Creek	13.21	15.22	76,096	76,002	313,848	
Total	60.89	63.70	325,890	338,953	1,210,434	

SW–50

800' 0 800' 1600'

SCALE: 1"=800'

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

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SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT KEY MAP
MDE SC-52

SCALE : 1" = 800' DATE : DECEMBER 2022

Project No. : 502005 SHEET 339 of 887

11/16/2022
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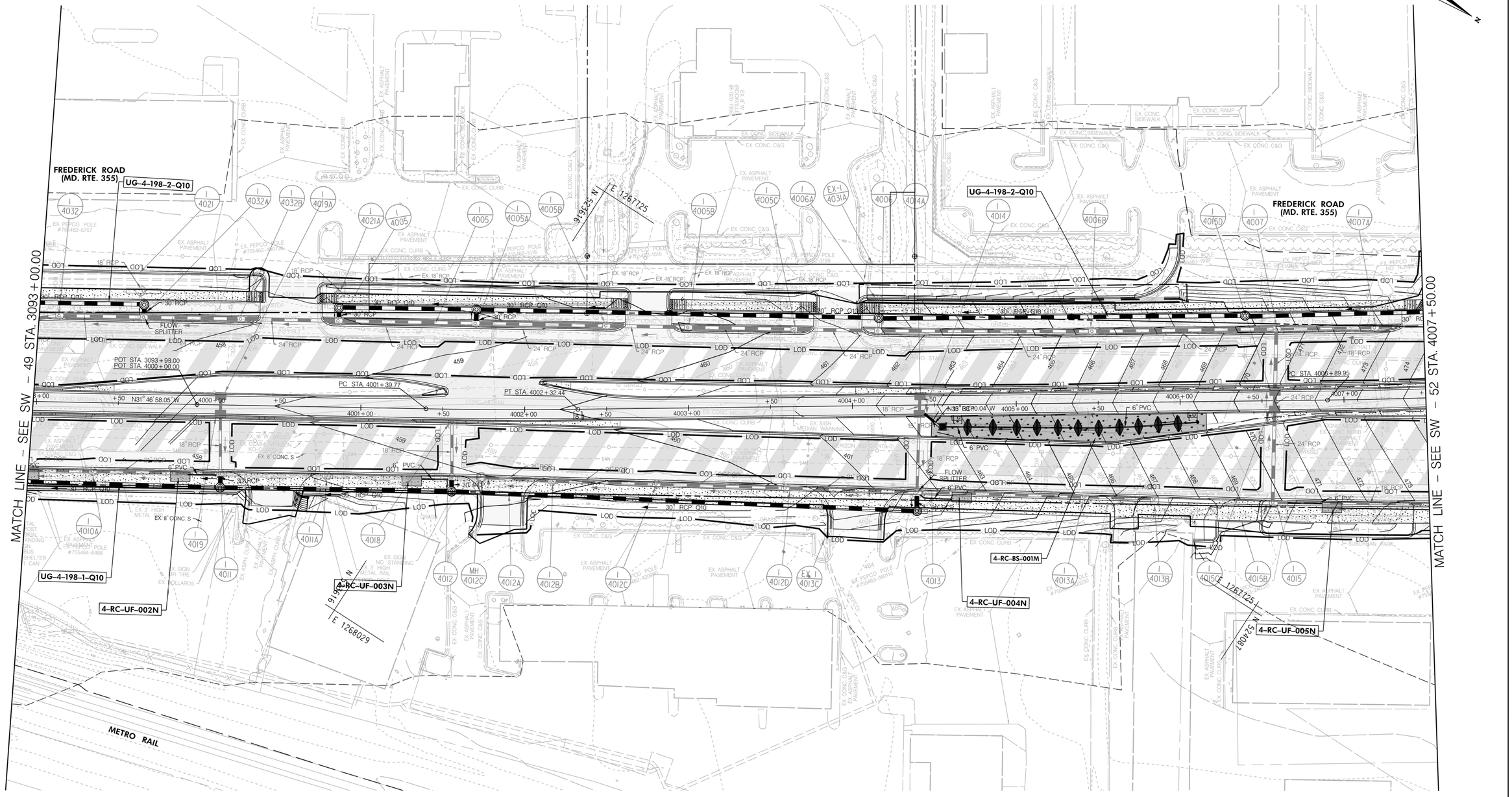
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(MD. RTE. 355)
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MATCH LINE - SEE SW - 52 STA. 4007+50.00
UG-4-198-1-Q10
4-RC-UF-002N
4-RC-UF-003N
4-RC-UF-004N
4-RC-UF-005N
4-RC-BS-001M
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E 1267725
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E 1268029
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E 1268125
9,240,817 N
POT STA. 3093+98.00
POT STA. 4000+00.00
PC STA. 4001+39.77
PT STA. 4002+32.44
PC STA. 4005+89.95
N31° 46' 58.05" W
N33° 55' 00.04" W
METRO RAIL
FLOW SPLITTER
EX. 8" CONC. S
EX. 16" W
EX. 3" HIGH METAL
EX. SIGN NO STANDING
EX. SIGN BUS SHELTER CAN
EX. SIGN MEDIAN WARNING
EX. SIGN SPEED LIMIT
EX. BOLLARDS
EX. PEPCO POLE #755462-5757
EX. PEPCO POLE #755462-6466
EX. PEPCO POLE #755463-1515
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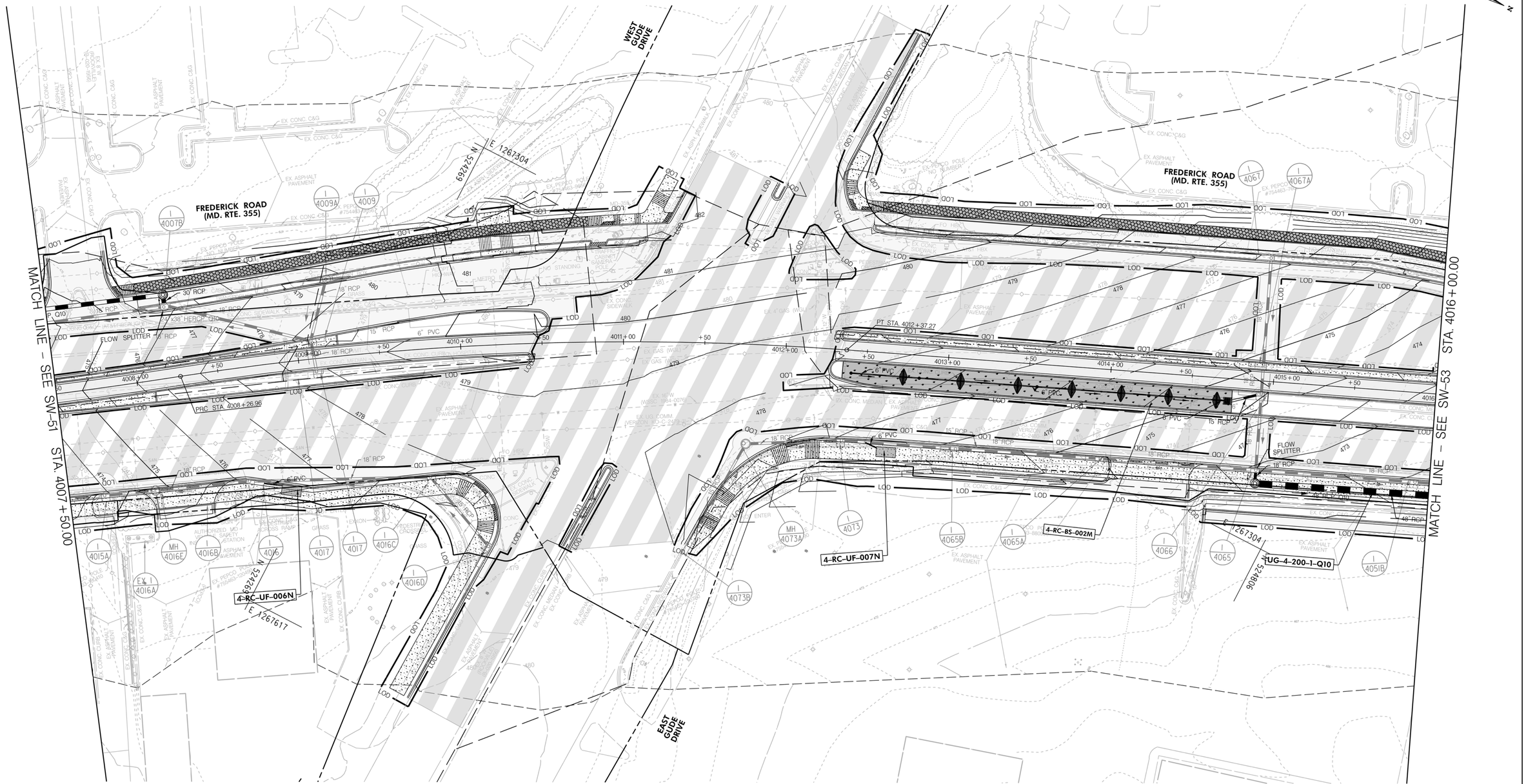

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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GAITHERSBURG, MARYLAND

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Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-52

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-54

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 341 of 887

11/18/2022
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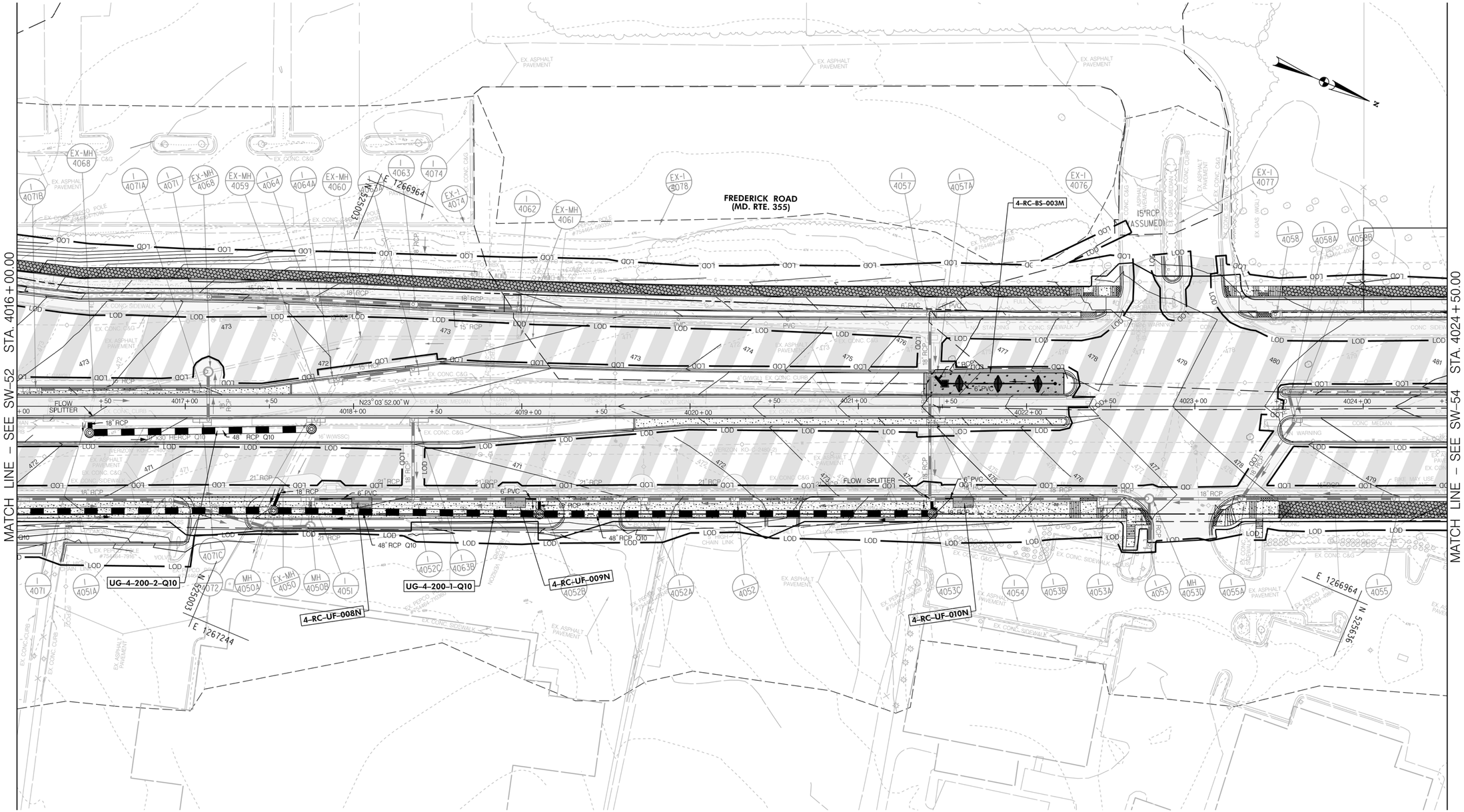

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
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- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'
SCALE: 1"=30'

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Chief, Design Section — Date
APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-53

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-55

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 342 of 887

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11/18/2022
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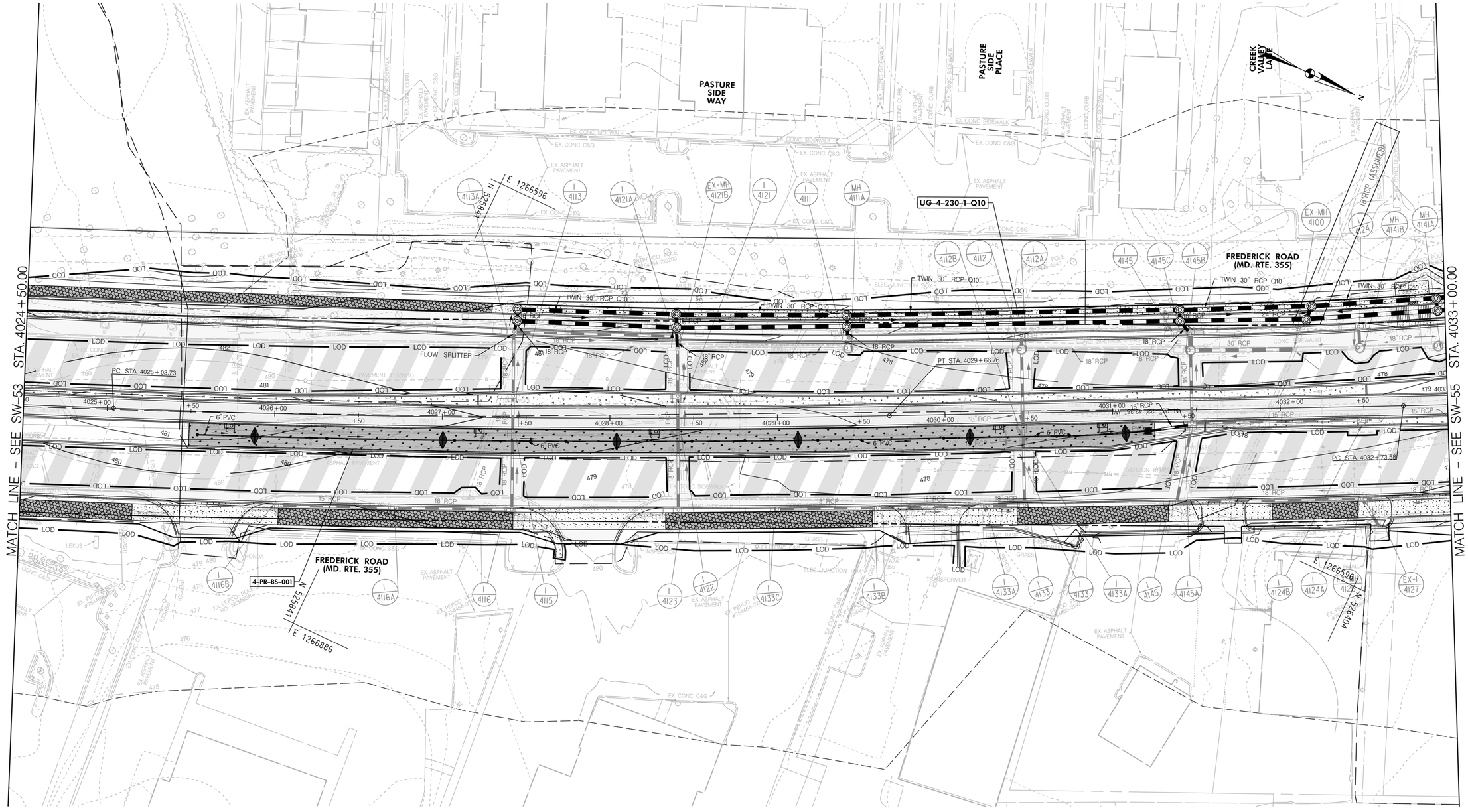

LEGEND

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- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SW-54

30' 0 30' 60'
SCALE: 1"=30'

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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: _____ EXPIRATION DATE: _____

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

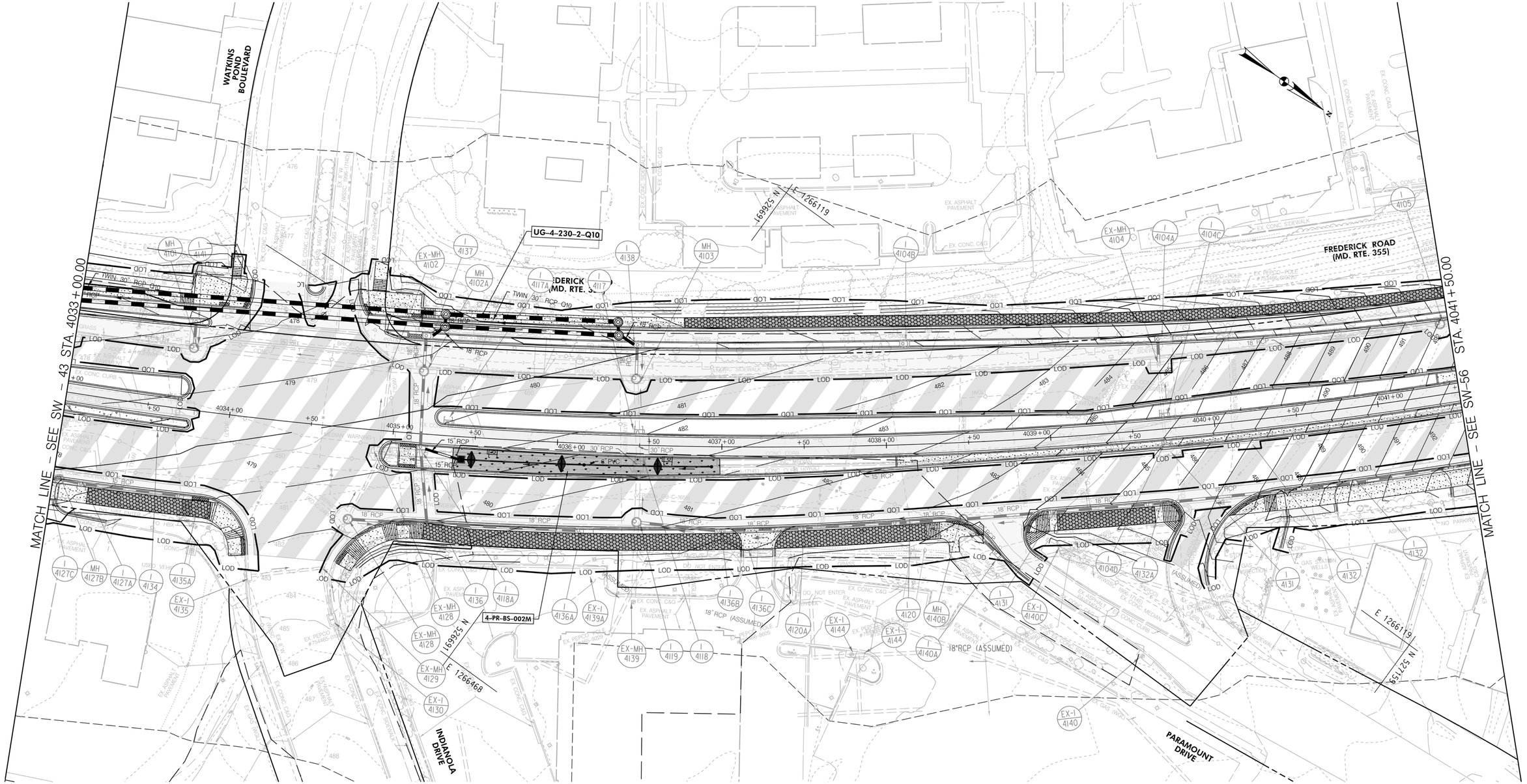
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-56

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 343 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SW Plan View 44 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SCALE: 1"=30'

SW-55

NO.	REVISION	DATE	BY

Stantec
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LAUREL, MARYLAND 20707
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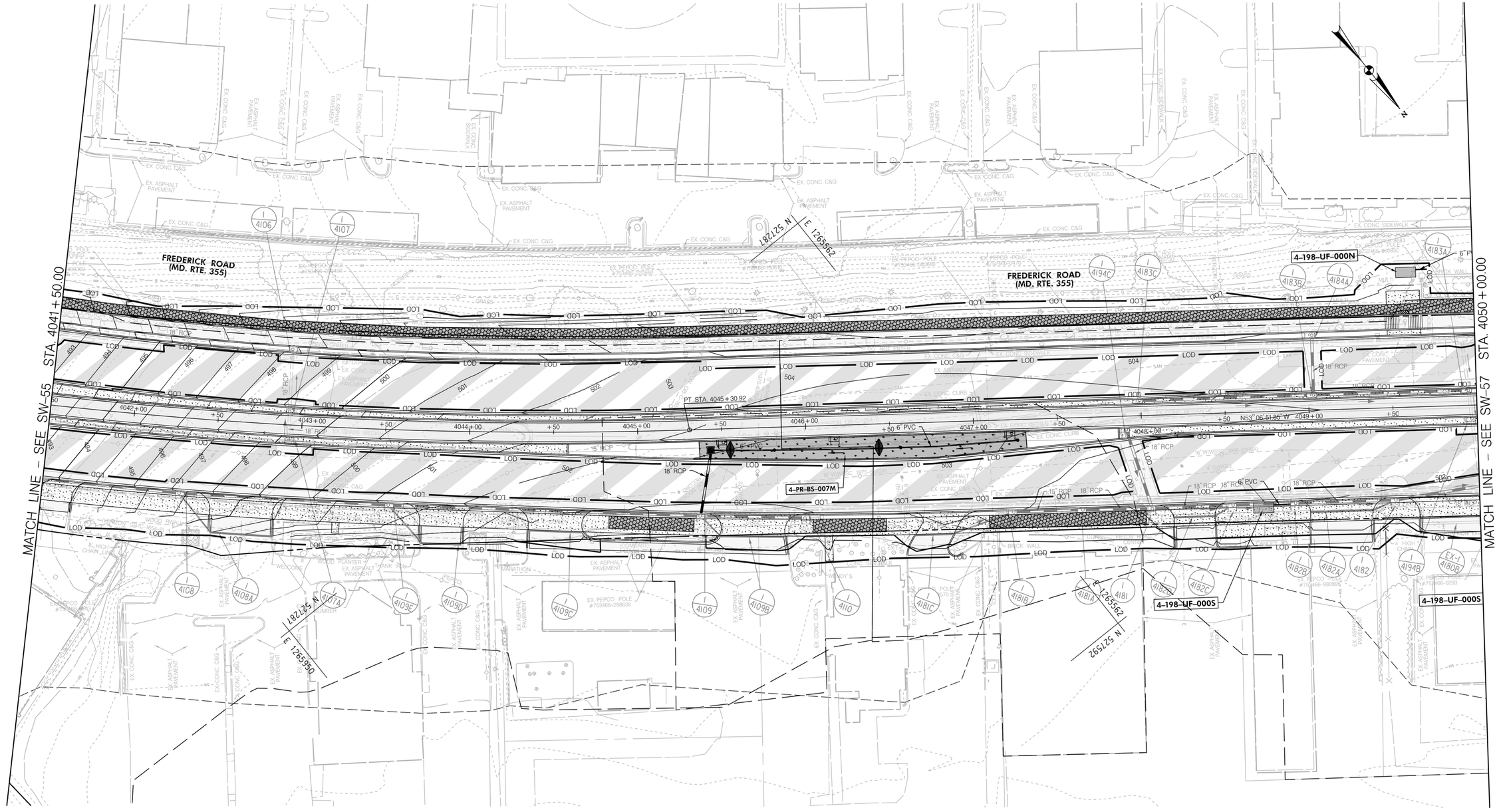
Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-57

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 344 of 887



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-56

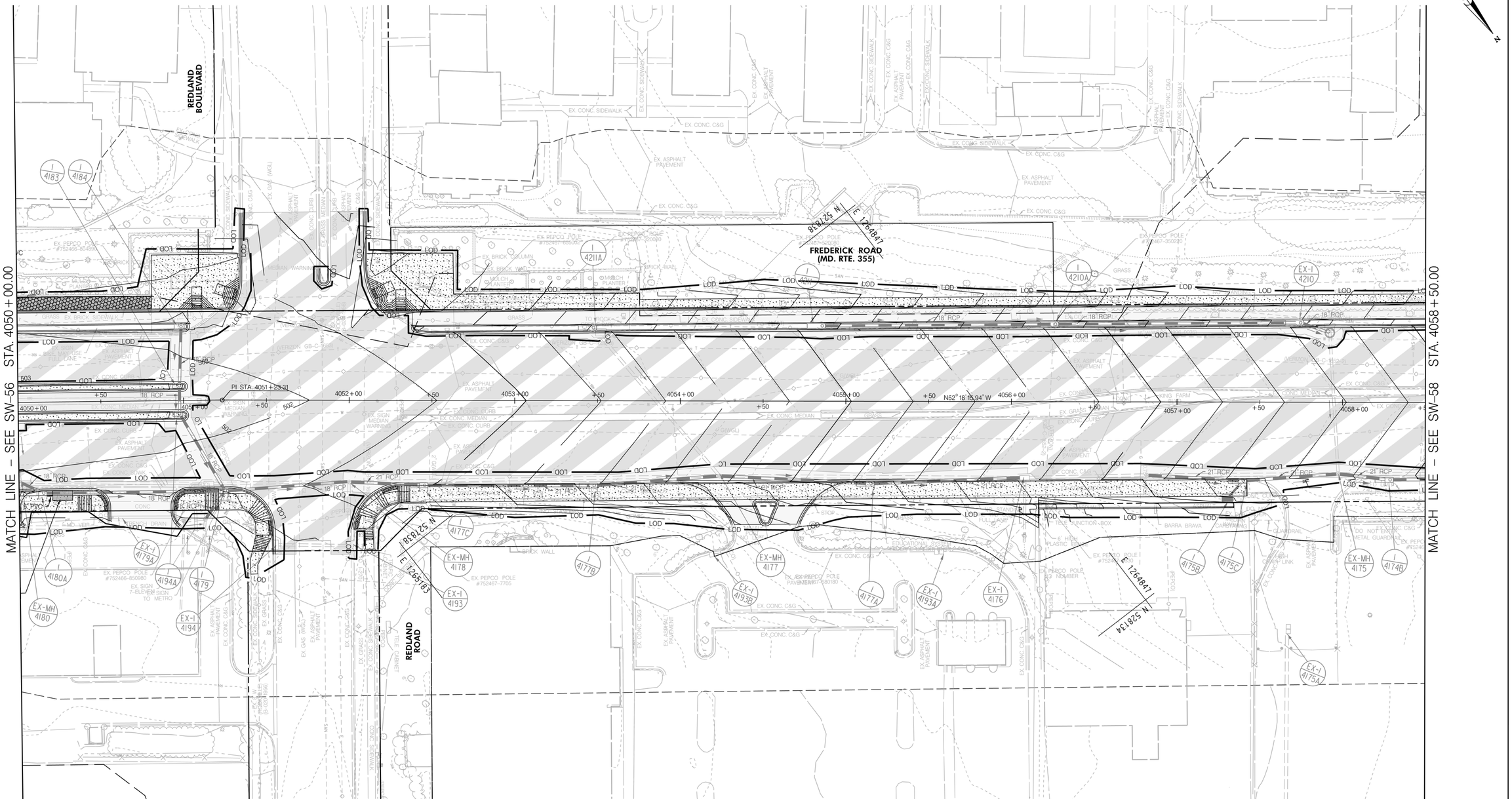
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-58

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 345 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\202621\3106\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 45 - 30 Scale

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262131067100 CADD\702 Civil\252 Plans\SWM Sheet Files\SWM Plan View 46 - 30 Scale


REDLAND BOULEVARD
FREDERICK ROAD (MD. RTE. 355)
REDLAND ROAD
MATCH LINE – SEE SW-56
STA. 4050+00.00
MATCH LINE – SEE SW-58
STA. 4058+50.00
MATCH LINE – SEE SW-60
PI STA. 4051+23.31
N52° 18' 15.94" W
N 521838 E 1265183
N 521838 E 1264847
N 528134 E 1264847
LOD
18" RCP
21" RCP
EX. CONC. C&G
EX. ASPHALT PAVEMENT
EX. CONC. SIDEWALK
EX. PEPCO POLE #752466-650980
EX. PEPCO POLE #752467-7705
EX. PEPCO POLE #752467-350210
EX. PEPCO POLE #752467-350200
EX. PEPCO POLE #752467-650180
EX. SIGN 7-ELEVEN SIGN TO METRO
EX. BRICK WALL
EX. GAS VALVE
EX. GAS WALL
EX. GRASS
EX. CONC. MEDIAN
EX. CONC. CURB
EX. SIGN MEDIAN WARNING
EX. BENCH DRAIN
EX. CONC. CURB (WGL)
EX. GRASS MEDIAN
EX. ASPHALT MEDIAN
EX. CONC. MEDIAN CURB
EX. GRASS MEDIAN
EX. CONC. CURB
EX. CONC. SIDEWALK
EX. CONC. C&G
EX. ASPHALT PAVEMENT
EX. BRICK COLUMN
EX. BRICK WALL
MULCH PLANTER
EX. CONC. C&G
EX. ASPHALT PAVEMENT
EX. CONC. SIDEWALK

MATCH LINE – SEE SW–59

MATCH LINE – SEE SW–57 STA. 4058+50.00

MATCH LINE – SEE SW–63 STA. 4067+00.00

MATCH LINE – SEE SW–62

KING FARM BOULEVARD

FREDERICK ROAD (MD. RTE. 355)

LADYSHIRE LANE

4-RC-BS-008M

4-RC-PB-001N

4-PR-UF-002S-C

4-RC-PB-000N

UG-4-233-Q10

METRO STATION

FLOW SPLITTER

TWIN 48" RCP Q10

N 528300 E 1264185

N 528230 E 1264165

N 528300 E 1264647

N 528235 E 1264185

PI STA. 4061+89.37

N54° 02' 15.33" W

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

Stantec
6110 FROST PLACE,
LAUREL, MARYLAND 20707
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Chief, Design Section — Date

APPROVED
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Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

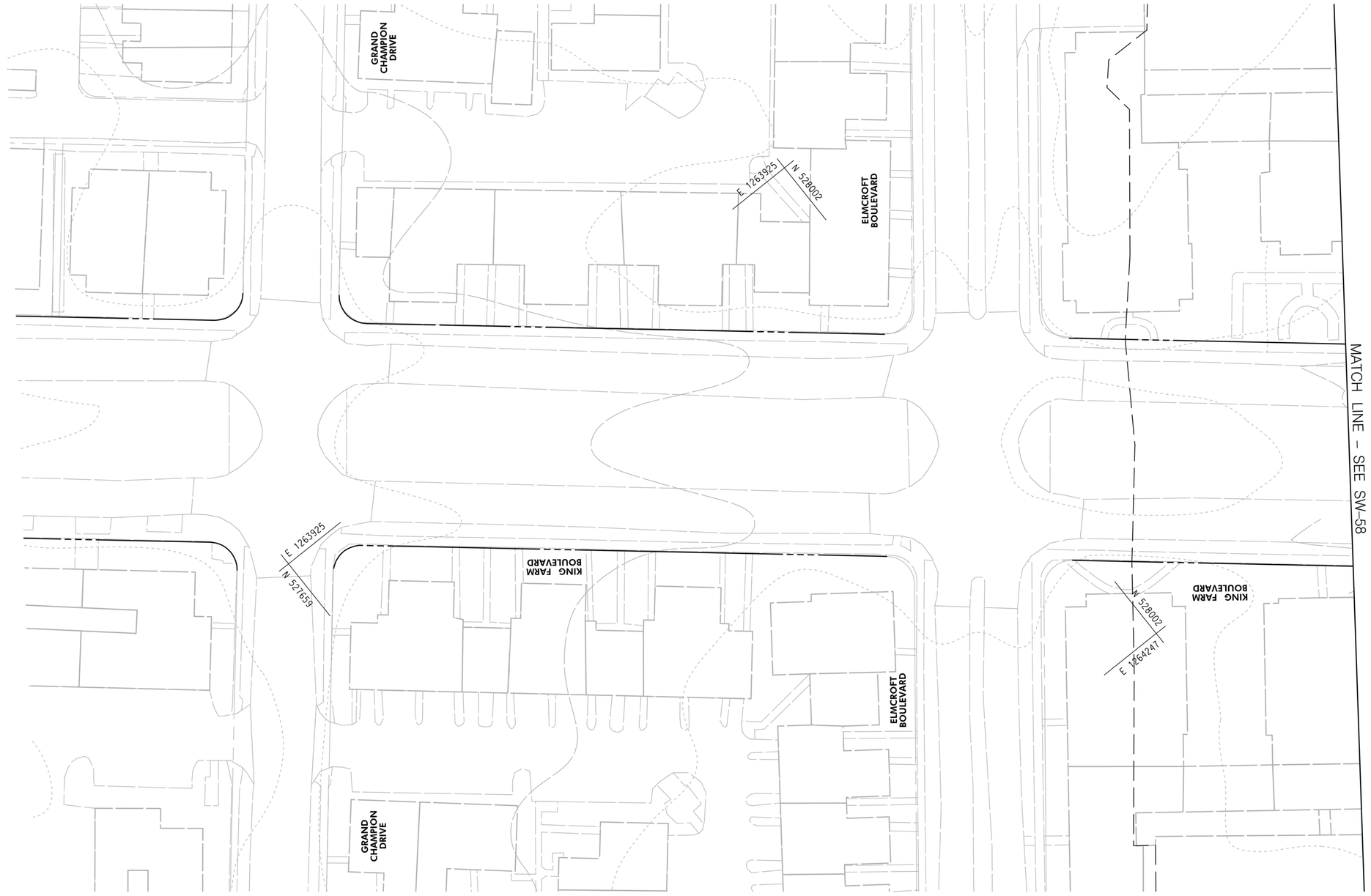
MD 355 BUS RAPID TRANSIT (BRT) SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-60

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 347 of 887

SW–58

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262130\06\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 47 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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GAITHERSBURG, MARYLAND

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Chief, Design Section Date

APPROVED

SEE TITLE SHEET FOR SIGNATURES _____
Chief, Division of Transportation Engineering Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW–59

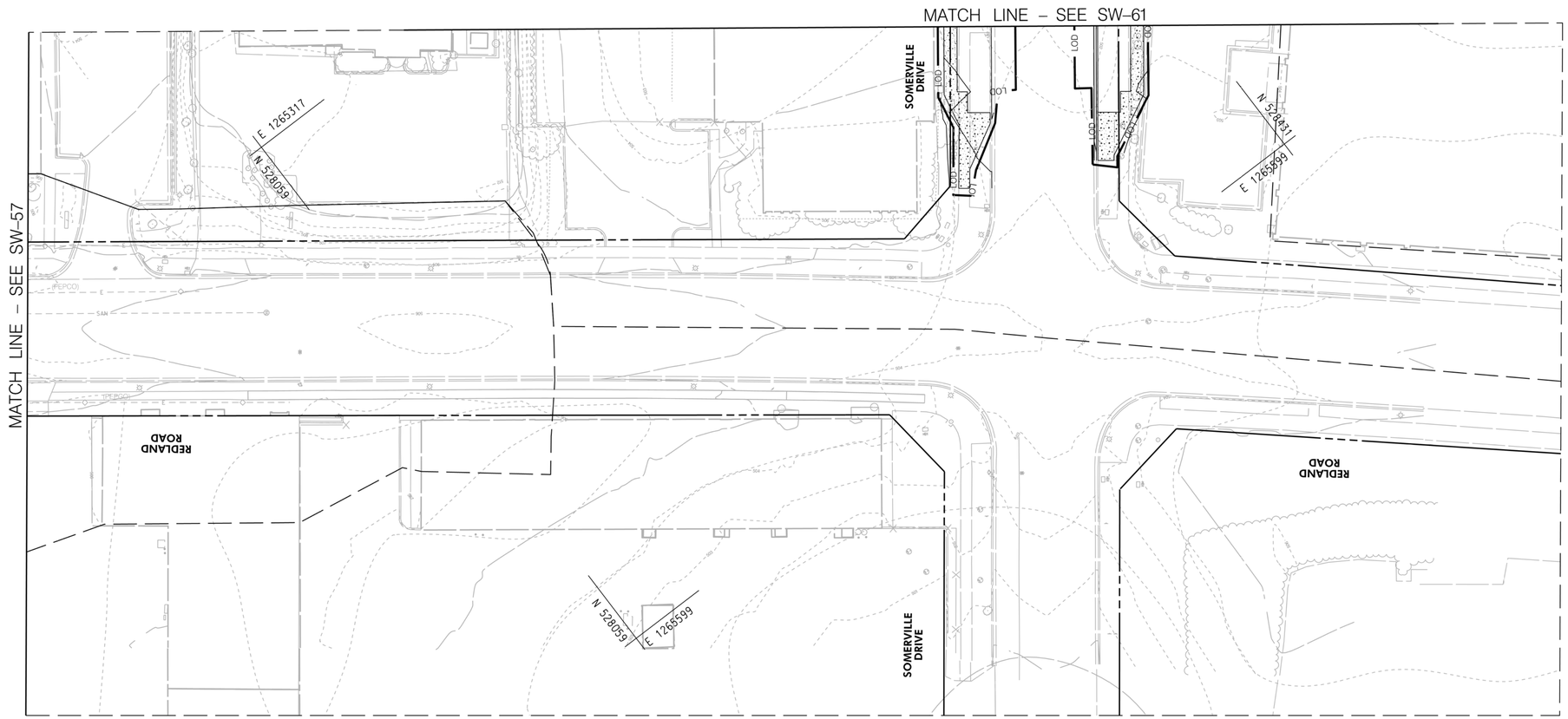
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC–61

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 348 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262130 6\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 47A - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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GAITHERSBURG, MARYLAND

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Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-60

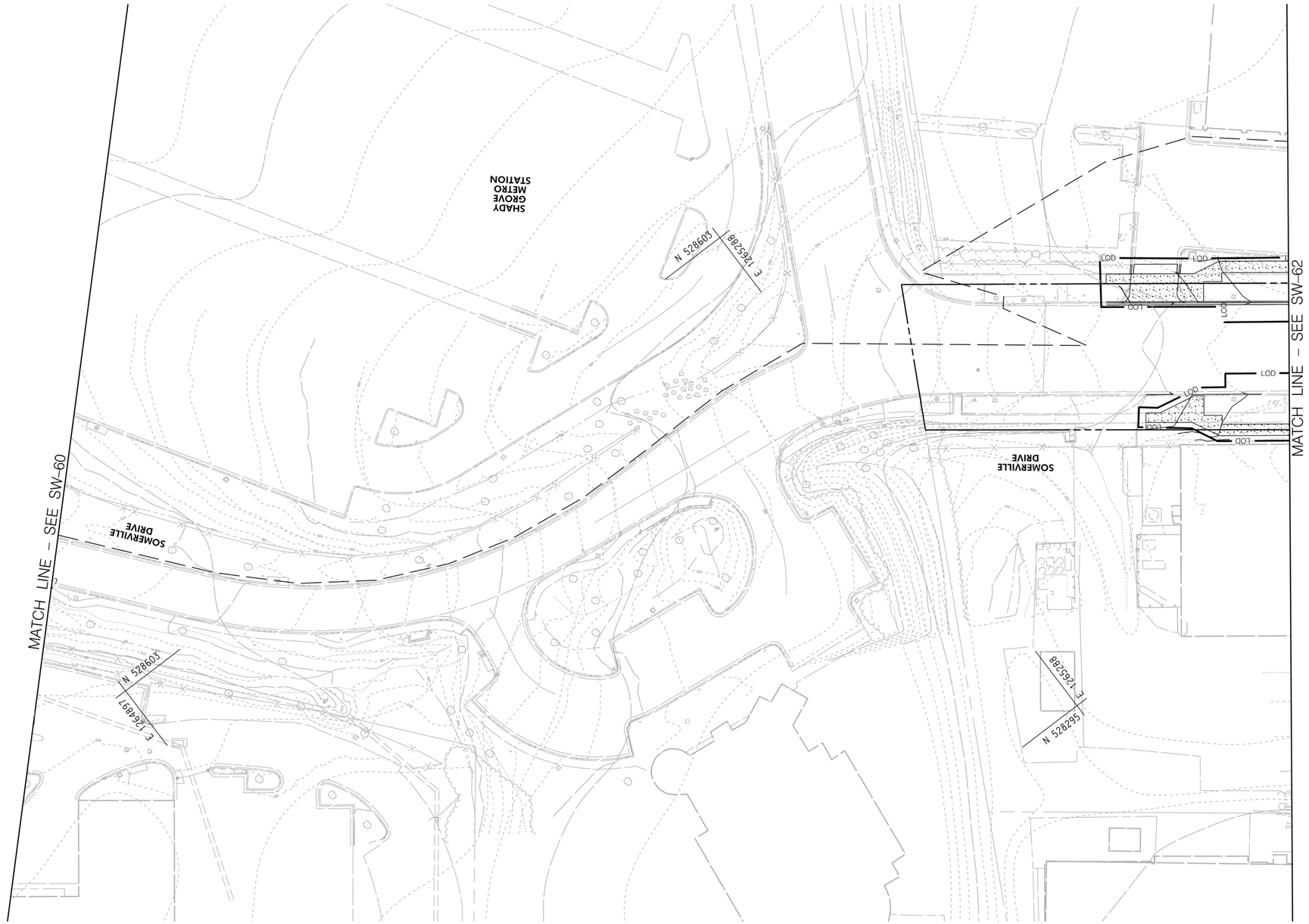
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-62

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 349 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262131061700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 46A - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

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30' 0 30' 60'
SCALE: 1"=30'

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

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SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-61

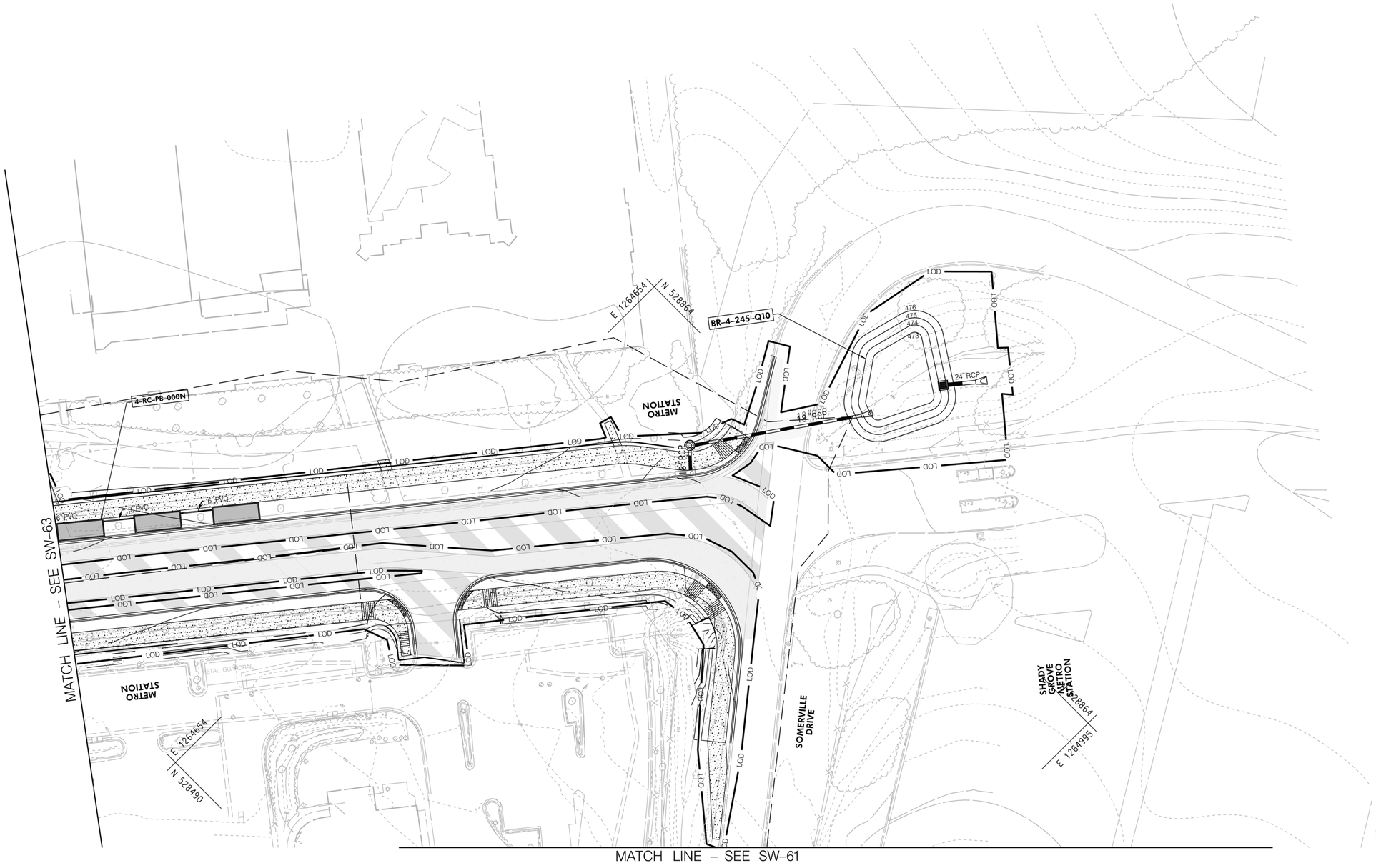
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-63

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 350 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 46B - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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Designed by : _____ Drawn by : _____ Checked by : _____

SW–62

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC–64

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 351 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\202621306\700 CADD\702 Civil\252 Plans\SWM Sheet Files\SWM Plan View 46C - 30 Scale

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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SW-63

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-65

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 352 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262131067\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 48 - 30 Scale

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'

SCALE: 1"=30'

SW-64

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MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-66

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 353 of 887

11/18/2022
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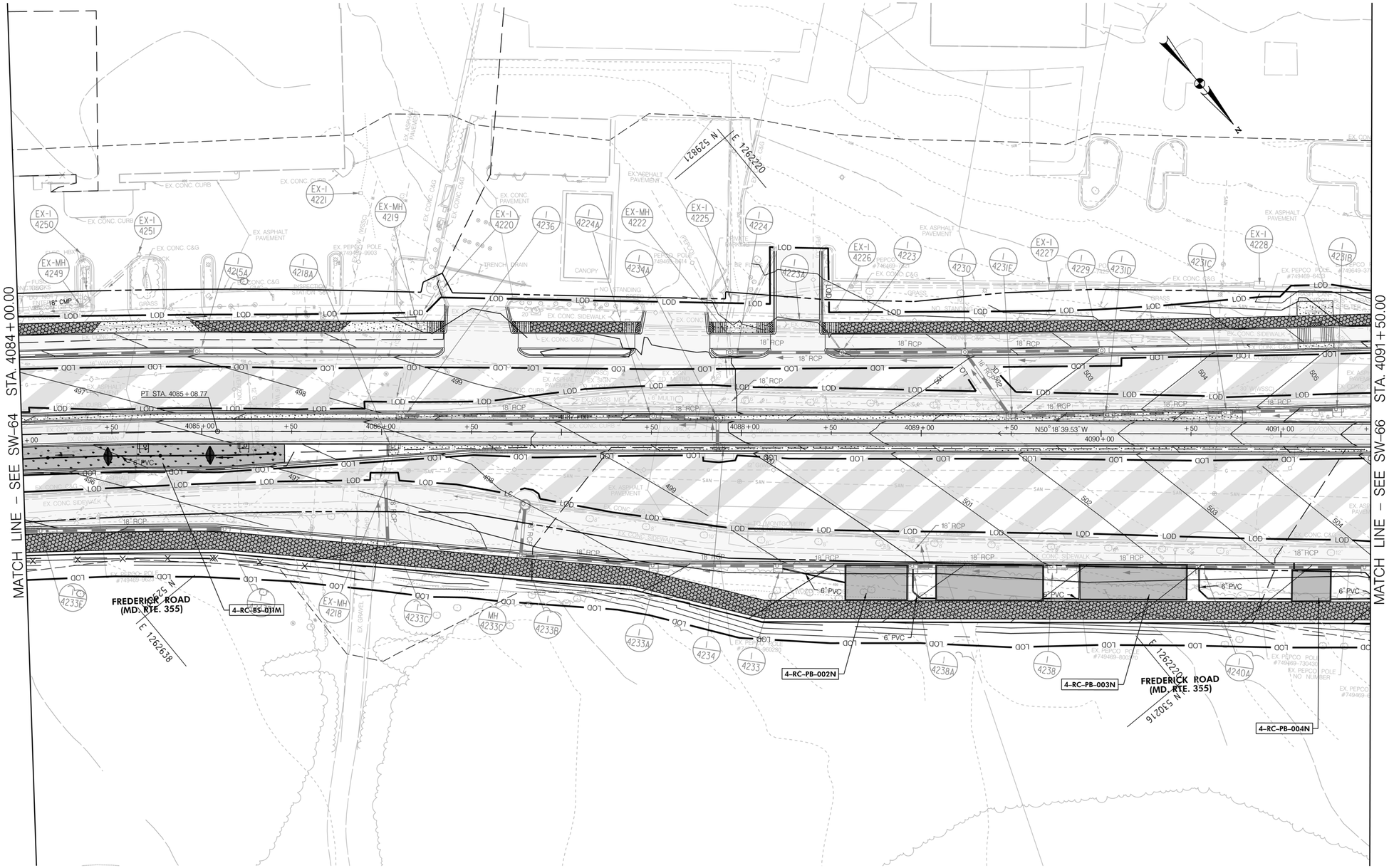
11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262l3106\T00 CADD\T02 Civil\25% Plans\SWM Sheet Files\SWM Plan View 50 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SW–65

30' 0 30' 60'
SCALE: 1"=30'

NO.	REVISION	DATE	BY

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MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC–67

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 354 of 887

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SW-66

30' 0 30' 60'

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
SEE TITLE SHEET FOR SIGNATURES
Chief, Design Section — Date

APPROVED
SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

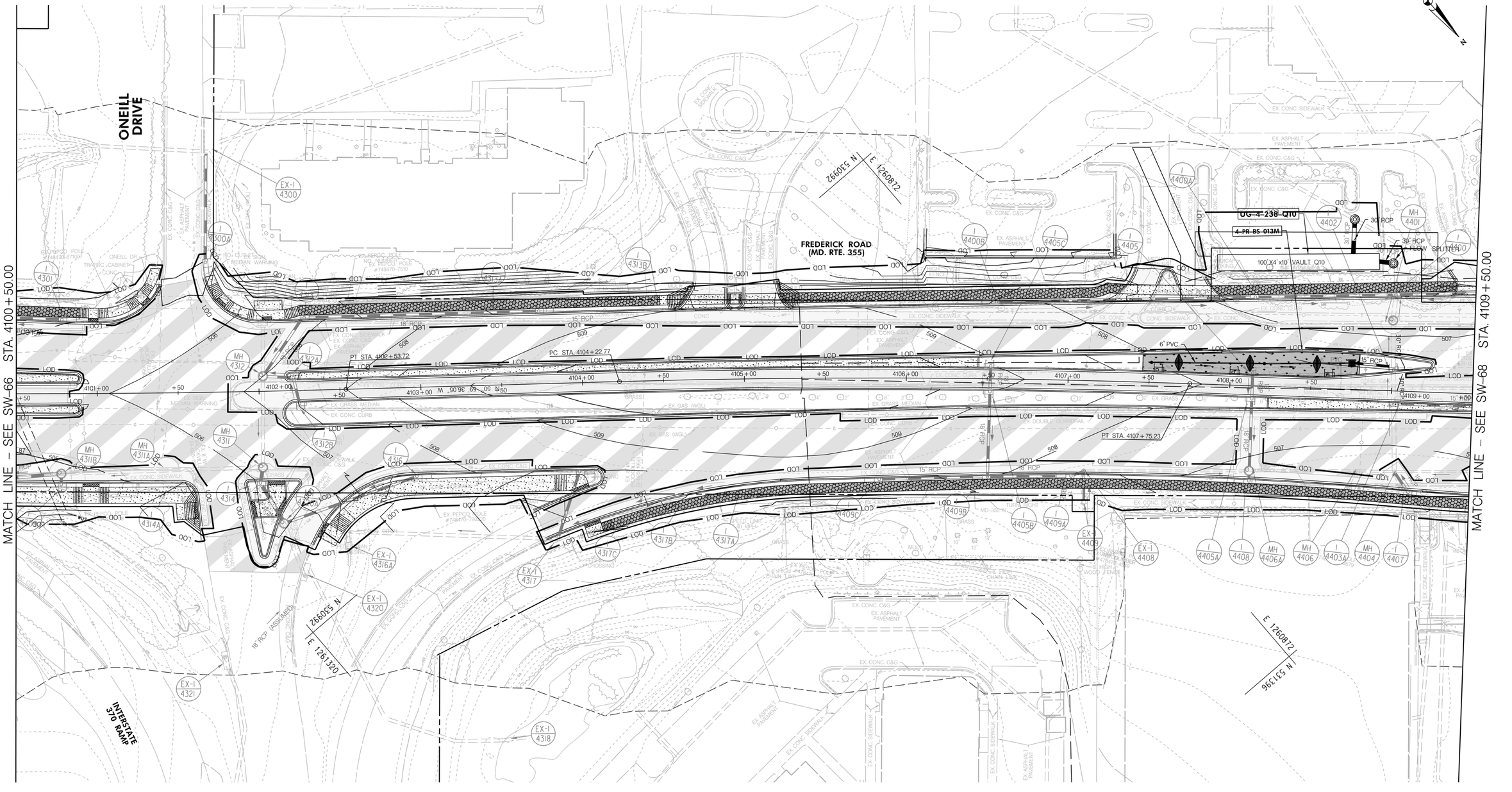
Designed by : _____ Drawn by : _____ Checked by : _____

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-68

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 355 of 887

11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262|3106.700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 5i - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'
SCALE: 1"=30'

Stantec
6110 FROST PLACE,
LAUREL, MARYLAND 20707
(301) 982-2800
www.stantec.com

PROFESSIONAL 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: _____ EXPIRATION DATE: _____

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

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Chief, Design Section — Date
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Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-67

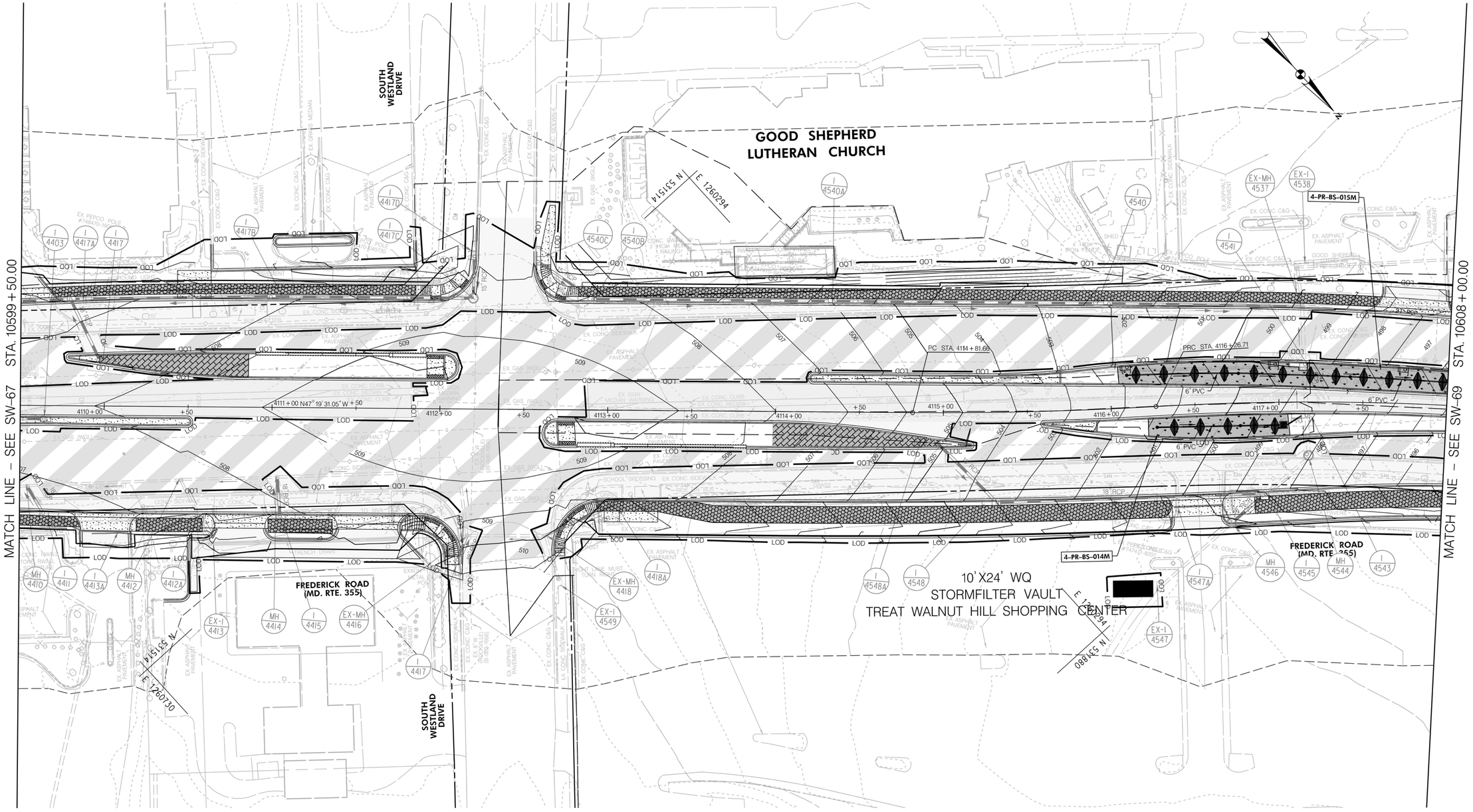
MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-69

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 356 of 887

11/8/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\202621\3106\700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 52 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SW-68

30' 0 30' 60'
SCALE: 1"=30'

NO.	REVISION	DATE	BY

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MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC-70

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 357 of 887

11/18/2022
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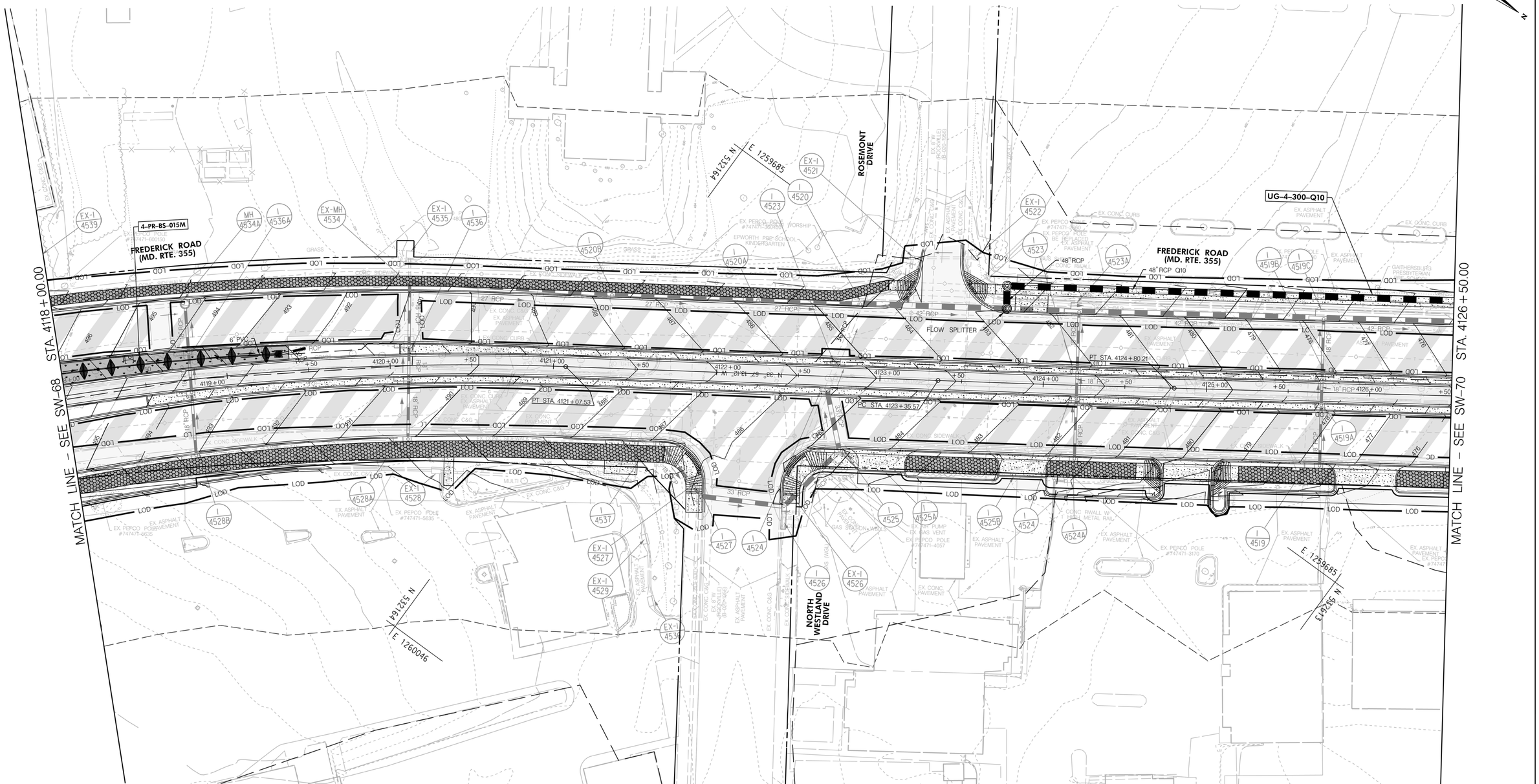
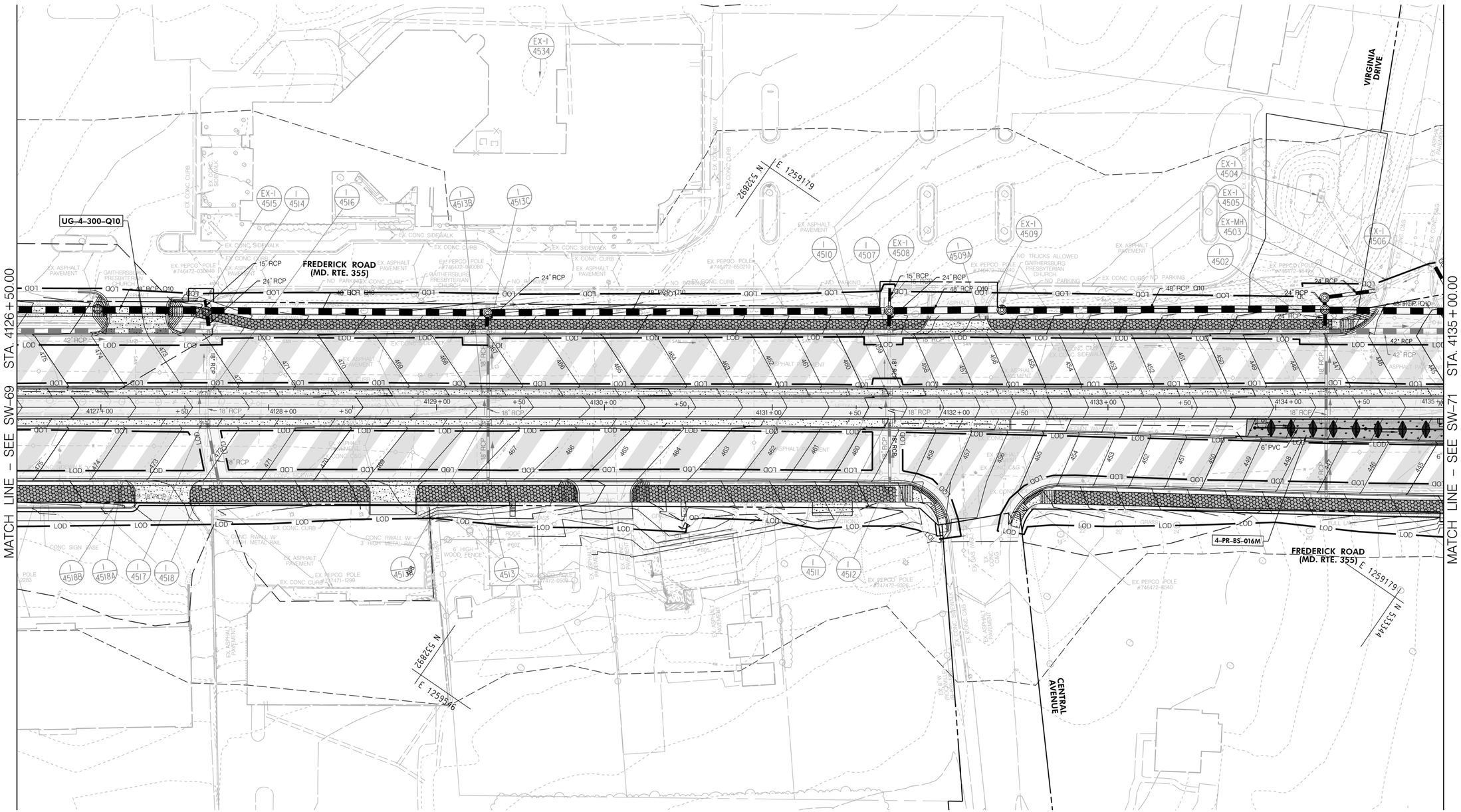

STA. 4118+00.00
MATCH LINE – SEE SW-68
STA. 4126+50.00
MATCH LINE – SEE SW-70
FREDERICK ROAD (MD. RTE. 355)
ROSEMONT DRIVE
NORTH WESTLAND DRIVE
4-PR-BS-015M
UG-4-300-Q10
N 532164
E 1259685
N 532164
E 1260046
N 532163
E 1259685
PC STA. 4123+35.57
PT STA. 4121+07.53
PT STA. 4124+80.21
FLOW SPLITTER
33 RCP
48" RCP
48" RCP Q10
42" RCP
27" RCP
18" RCP
9" PVC
EX. PEPCO POLE #747471-5635
EX. PEPCO POLE #747471-3170
EX. PEPCO POLE #747471-4057
EX. PEPCO POLE #747471-4009
EX. PEPCO POLE #747471-3999
EX. PEPCO POLE #747471-3998
EX. PEPCO POLE #747471-3997
EX. PEPCO POLE #747471-3996
EX. PEPCO POLE #747471-3995
EX. PEPCO POLE #747471-3994
EX. PEPCO POLE #747471-3993
EX. PEPCO POLE #747471-3992
EX. PEPCO POLE #747471-3991
EX. PEPCO POLE #747471-3990
EX. PEPCO POLE



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'
SCALE: 1"=30'

NO.	REVISION	DATE	BY

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SEE TITLE SHEET FOR SIGNATURES
Chief, Division of Transportation Engineering — Date

Designed by : _____ Drawn by : _____ Checked by : _____

SW-70

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN

MDE SC-72

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 359 of 887

11/18/2022
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MATCH LINE – SEE SW – 70 STA. 4135+00.00

MATCH LINE – SEE SW – 72 STA. 4143+50.00

UG-4-300-Q10

4-PR-BS-016M

4-PR-BS-017M

FREDERICK ROAD
(MD. RTE. 355)

WEST DEER
PARK ROAD

EAST DEER
PARK DRIVE

N 534538
E 1258724

N 534033
E 1259124

N 533553
E 1259074

LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
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- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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Designed by : _____ Drawn by : _____ Checked by : _____

SW–71

MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC–73

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 360 of 887

11/18/2022
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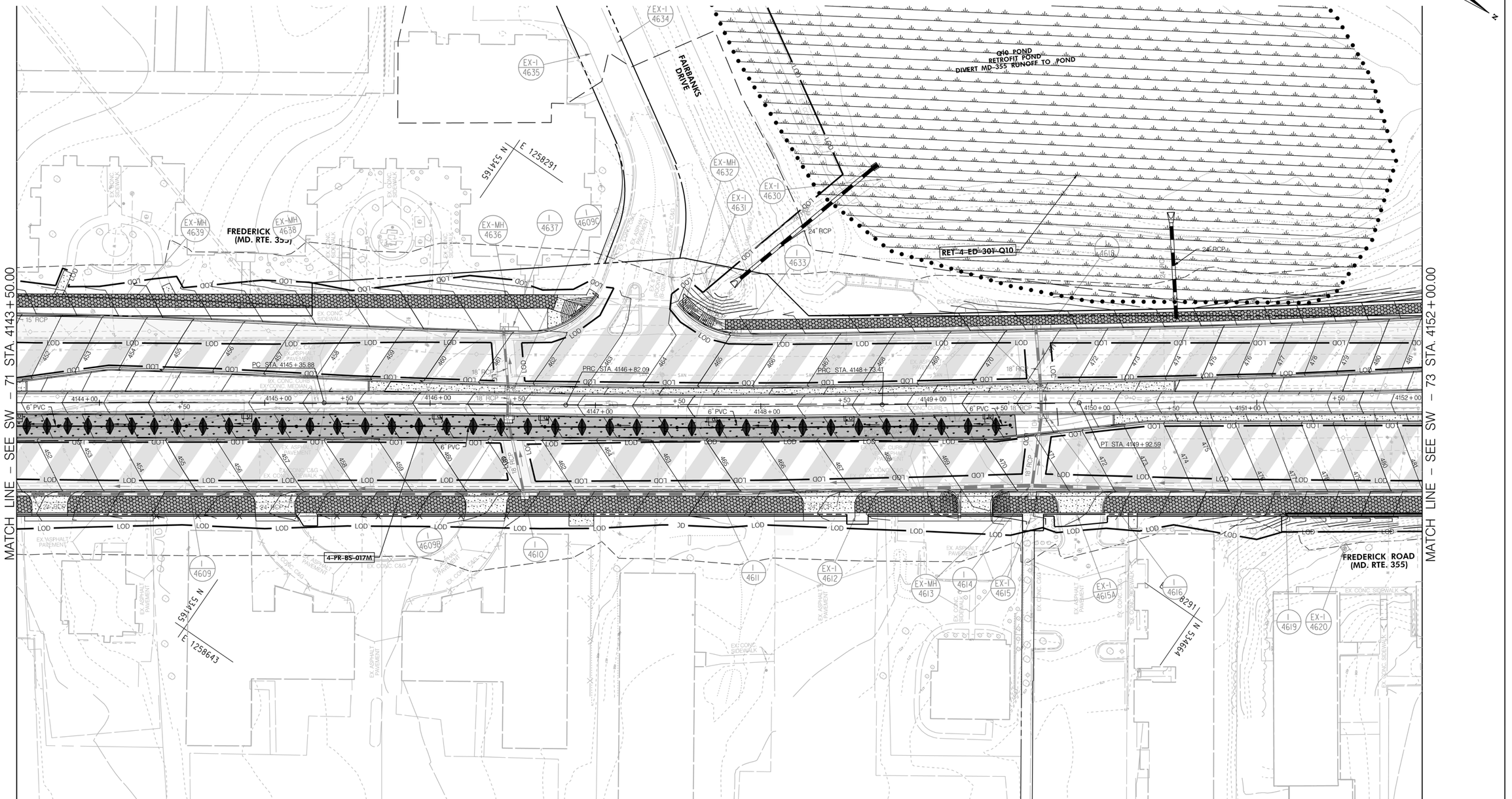
11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262130\06\700 CADD\702 Civil\25% Plans\SW Sheet Files\SWM Plan View 57 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SCALE: 1"=30'

NO.	REVISION	DATE	BY

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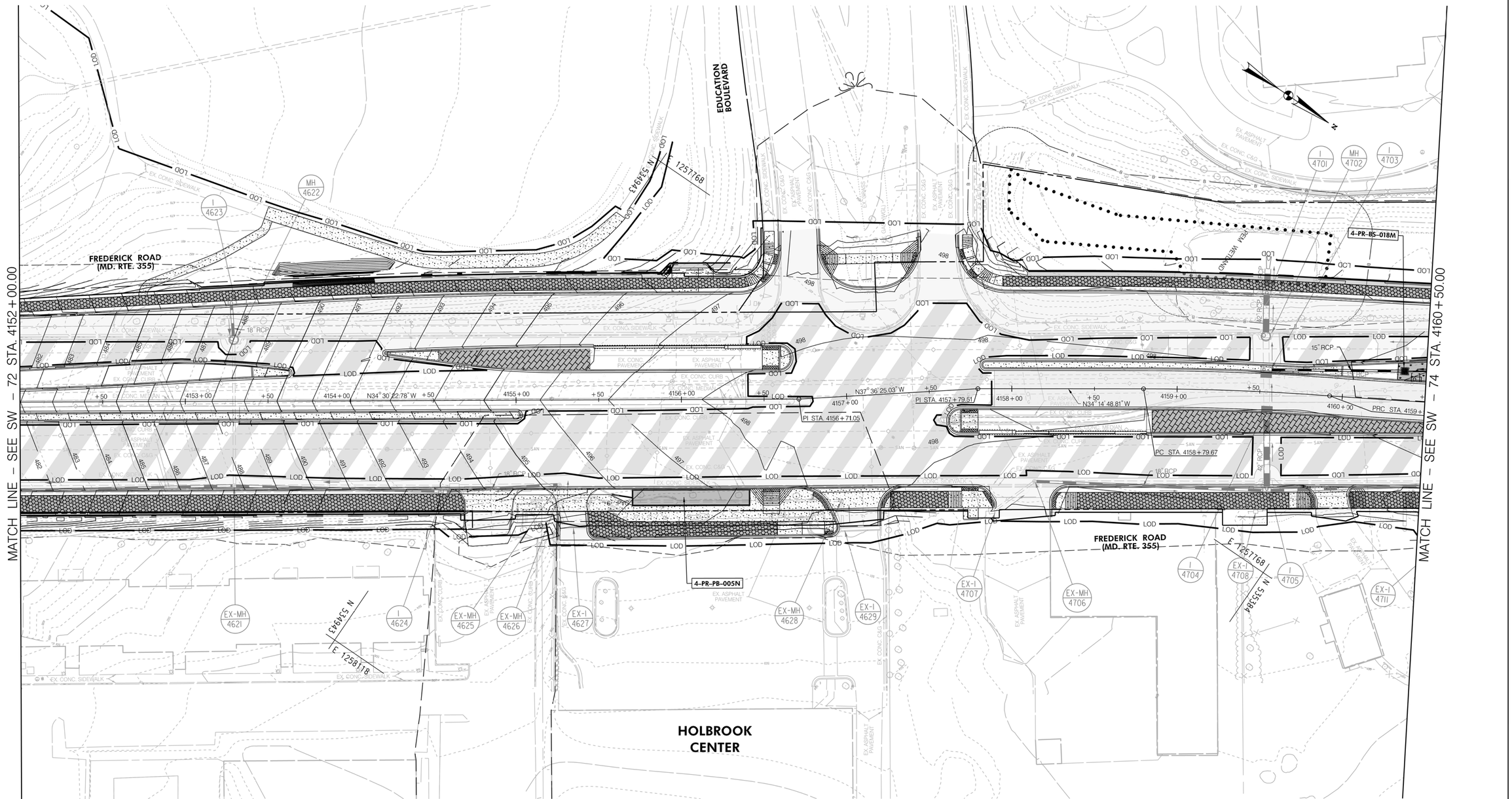
Designed by : _____ Drawn by : _____ Checked by : _____

SW–72

MD 355 BUS RAPID TRANSIT (BRT) SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC–74

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 361 of 887



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
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- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

SW–73

30' 0 30' 60'
SCALE: 1"=30'

NO.	REVISION	DATE	BY

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(301) 982-2800
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MD 355 BUS RAPID TRANSIT (BRT)
SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC–75

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 362 of 887

11/18/2022
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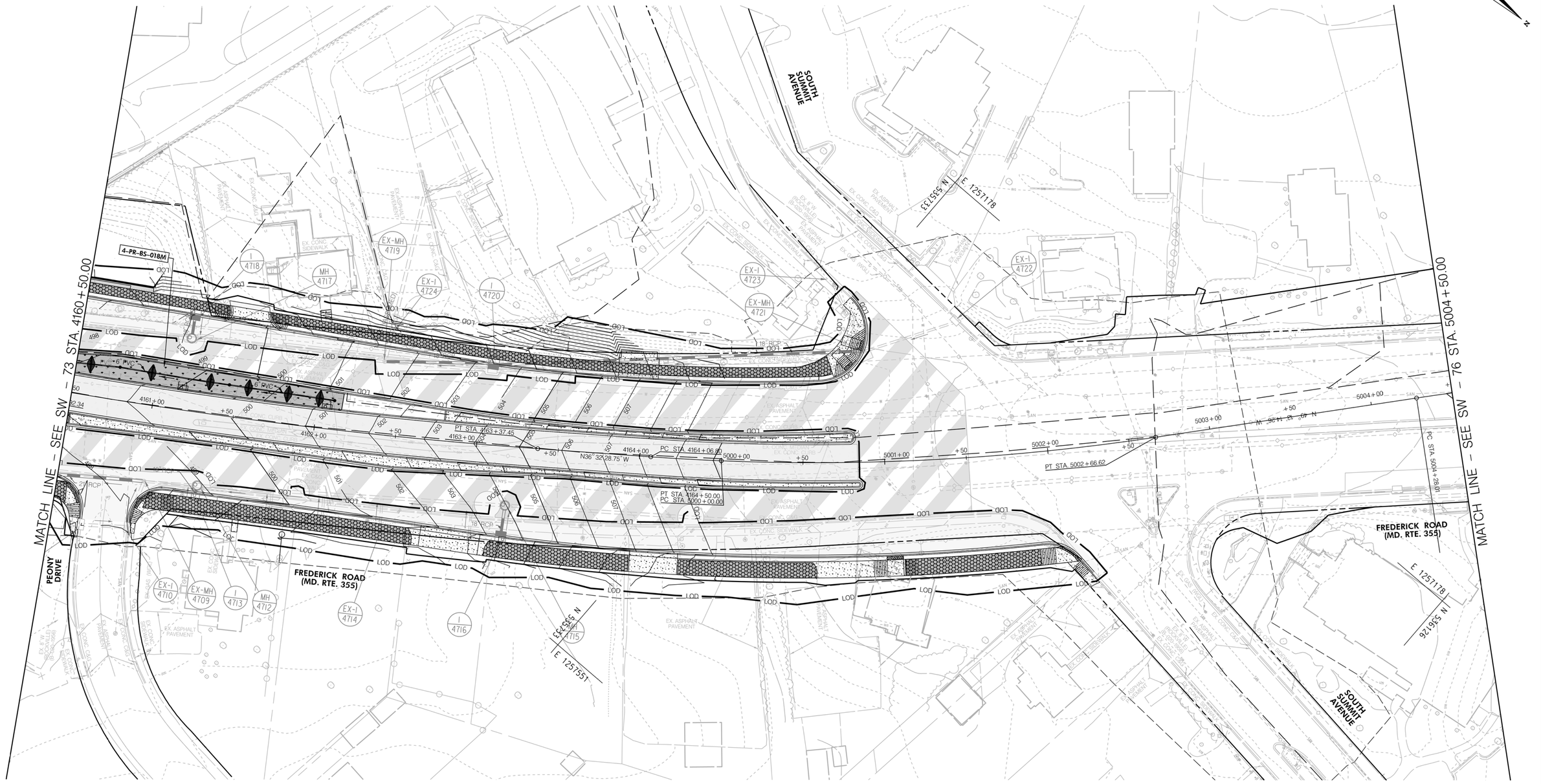
11/18/2022
pw:\\stantec-sc-pw.bentley.com:stantec-sc-pw-02\Documents\20262130\6.700 CADD\702 Civil\25% Plans\SWM Sheet Files\SWM Plan View 59 - 30 Scale



LEGEND

- IMPERVIOUS SURF. AREA FULL
- IMPERVIOUS SURF. AREA MILL
- PROPOSED BIO-SWALES
- PROPOSED PLANTER BOXES
- PROPOSED FILTERS
- PROPOSED PERM. PAVEMENT
- PROPOSED BIO-RET. POND
- PROPOSED POTENTIAL FACILITY
- PROPOSED UG FACILITY
- PROPOSED STORM DRAIN
- PROPOSED INLET
- PROPOSED STORM FILTER
- PROPOSED BUS PLATFORM

30' 0 30' 60'
SCALE: 1"=30'

SW–74

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MD 355 BUS RAPID TRANSIT (BRT) SEGMENT 4
STORMWATER MANAGEMENT PLAN
MDE SC–76

SCALE : 1" = 30' DATE : DECEMBER 2022

Project No. : 502005 SHEET 363 of 887