THE FOLLOWING MARYLAND STANDARD (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) DETAILS ARE REQUIRED FOR THE PROJECT:

MD 104.03–02 – SHOULDER WORK/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH
MD 104.06–25 – MEDIAN WORK ALL SPEEDS
MD 374.04 – STANDARD WR INLET
MD 374.06 – SINGLE WR INLET
MD 374.08 – TRIPLE WR INLET
MD 374.51 –PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15', & 20'
MD 383.11 – STANDARD DROP MANHOLE
MD 387.11–01 – LONGITUDIINAL UNDERDRAIN LOCATED AT CURB & GUTTER FOR FLEXIBLE PAVEMENT
MD 578.01 – REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
MD 580.03 – NEW CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 620.02–01 – STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 630.02 – STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL AND COMMERCIAL, METHOD NO. 2
MD 645.01 – STANDARD MONOLITHIC CONCRETE MEDIAN TYPE A
MD 655.11 – SIDEWALK RAMPS PERPENDICULAR
MD 655.13 – SIDEWALK RAMPS COMBINATION
MD 655.21 – CUT–THROUGH MEDIAN AND ISLAND OPENINGS
MD 655.40 – DETECTABLE WARNING SURFACES

FOR ALL STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT: http://apps.roads.maryland.gov/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp. ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

INDEX OF SHEETS

SHEET NO.	DRAWING NO.	SHEET NAME
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2	GN-01	GENERAL NOTES, DESIGN TRAFFIC DATA, SYMBOLS & ABBREVIATIONS
3	GS-01	GEOMETRIC LAYOUT
4	TS-01	TYPICAL SECTIONS
5	TS-02	TYPICAL SECTIONS
6	DT-01	PAVING DETAILS
7	PS-01	ROADWAY PLAN
8	PS-01A	ROADWAY CONSTRUCTION NOTES
9	PR-01	ROADWAY PROFILES
10	DD-01	DRAINAGE & STORMWATER MANAGEMENT PLAN
11	DD-02	DRAINAGE & STORMWATER MANAGEMENT PLAN
12	DD-03	DRAINAGE & STORMWATER MANAGEMENT PLAN
13	PP-01	PIPE PROFILES
14-16	DA-01-03	EXISTING DRAINAGE AREA MAPS
17-19	DA-04-06	PROPOSED DRAINAGE AREA MAPS
20	ESC-01	EROSION & SEDIMENT CONTROL NOTES
21	ESC-02	EROSION & SEDIMENT CONTROL NOTES
22	ESC-03	EROSION & SEDIMENT CONTROL DETAILS & EARTHWORK SUMMARY
23	ESC-04	EROSION & SEDIMENT CONTROL PLAN
24	LP-01	LANDSCAPING PLAN
25	LP-02	LANDSCAPING NOTES & DETAILS
26	LT-01	LIGHTING PLAN
27	LT-02	LIGHTING NOTES & DETAILS
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53-69	XS-01-17	ROADWAY CROSS SECTIONS

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

TIMOTHY H. CUPPLES, P.E.
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS 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 TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

I FURTHER CERTIFY THAT THE ESTIMATED TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 2,611 CUBIC YARDS OF EXCAVATION AND 869 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 41,883 SQUARE FEET.

11/19/2021
DATE

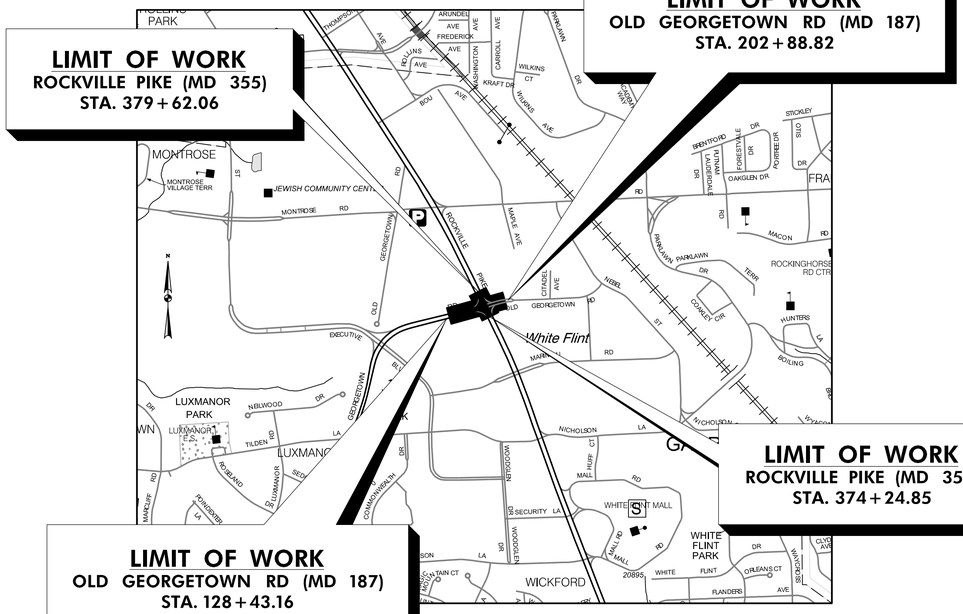
LORI R. ADGATE, P.E.
MD. REGISTRATION NO.28255

70% SUBMITTAL
NOV 2021

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
WHITE FLINT METRO STATION ACCESS IMPROVEMENTS
C. I. P. PROJECT NO. 502106
SHA TRACKING NO. 21–AP–MO–008–XX

LIMIT OF WORK
ROCKVILLE PIKE (MD 355)
STA. 379+62.06

LIMIT OF WORK
OLD GEORGETOWN RD (MD 187)
STA. 202+88.82



LIMIT OF WORK
ROCKVILLE PIKE (MD 355)
STA. 374+24.85

LIMIT OF WORK
OLD GEORGETOWN RD (MD 187)
STA. 128+43.16

VICINITY MAP
SCALE: 1" = 1000'

ALL AREAS OF SHA PROPERTY AND PROPERTY TO BE DEDICATED TO SHA SHALL BE RESTORED IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS, EXCEPT AS NECESSARY FOR WORK FOR WHICH THERE ARE NO SHA STANDARD SPECIFICATIONS.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".

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: 28255 EXPIRATION DATE: 06–30–2022

STATE OF MARYLAND · LORI R. ADGATE · No. 28255 · PROFESSIONAL ENGINEER

PROJECT MANAGER
REBECCA PARK, PE
100 Edison Park Drive, 4th Floor
Gaithersburg, MD 20878
240-777-7263
rebecca.park@montgomerycountymd.gov

NO.	REVISION	DATE	BY

RELATED REQUIRED PERMITS

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT

TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		X			
WATERWAYS/WETLAND(S):					
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
* DPS Roadside Trees Protection Plan		X		Approval Date	
N.P.D.E.S. NOTICE OF INTENT	X		REGISTRATION NO. XXXXXXX		DATE FILED XX/XX/XXXX
FEMA LOMR (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control	X		TBD		
MNCPPC Permit		X	XXXXX		

* A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.

OWNER/PERMIT APPLICANT INFORMATION

NAME: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
ADDRESS: 100 EDISON PARK DRIVE, GAITHERSBURG, MD 20878
PHONE NUMBER: (240) 777-7209
CONTACT PERSON: TIMOTHY H. CUPPLES, P.E.

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

Exempt: Yes ☐ No ☒ If exempt under Section 55–5 of the Code, please list the applicable exemption category below this table.

Project is subject to Chapter 22A–9 of the Mont. Co. Forest Conservation Law

Total Property Area	Total Disturbed Area
N/A square feet	41,883 square feet
Shade Trees Required	**Shade Trees Proposed to be Planted**
16	0
Fee in Lieu (Trees Required – Trees Proposed) x $250	**Total Fee in Lieu** $ $4,000

Required Number of Shade Trees

Area (sq. ft.) of the Limits of Disturbance		Number of Shade Trees Required
From	To	
1	6,000	3
6,001	8,000	6
8,001	12,000	9
12,001	14,000	12
14,001	40,000	15

If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:

(Number of Square Feet in Limits of Disturbance / 40,000) x 15

*Please list the square footage of each proposed planting area on the first sheet of the plan set.

APPROVALS:

TRAFFIC CONTROL PLANS _____ SIGNATURE _____ DATE
LIGHTING PLANS _____ SIGNATURE _____ DATE
SIGNING & PAVEMENT MARKING PLANS _____ SIGNATURE _____ DATE
TRAFFIC SIGNAL PLANS _____ SIGNATURE _____ DATE

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE 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 professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.
REVIEWED DATE	REVIEWED DATE	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	TBD
		SEDIMENT CONTROL PERMIT NO. 286756
REVIEWED DATE	REVIEWED DATE	SM. FILE NO. (STORMWATER MANAGEMENT)
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.	NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.	

SHA TRACKING NO. 21APMO008XX

SC–01 OF SC–17

TI–01

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

RECOMMENDED FOR APPROVAL
Chief, Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

TITLE SHEET

SCALE : N.T.S. DATE : NOV 2021

Project No. : 502106 SHEET 01 of 69

11/19/2021
U:\2026\13204\700 CADD\701 Sheet\Phase 2\pGN-T001_WFMetro.dgn

GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2021, ALL ERATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND, AND 2016 WASHINGTON SUBURBAN SANITARY COMISSION (W.S.S.C.) STANDARDS.

2. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/91 DATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.

3. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.

4. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.

5. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.

6. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS 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 OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.

7. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.

8. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.

9. CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.

10. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.

11. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS AND WATER QUALITY SWALES SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

12. 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. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.

13. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRATE RIGHT-OF-WAY PLATS.

14. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.

15. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSING LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.

16. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.

ABBREVIATIONS

A.A.S.H.T.O.	American Association of State Highway Transportation Officials	E	East	L.L.	Liquid Limit	PROP.	Proposed
ABAN.	Abandoned	E	Electric	LOD	Limit of Disturbance	PRC	Point of Reverse Curve
ABUT.	Abutment	e	External Distance	LONG.	Longitudinal	PT.	Point
ADT	Average Daily Traffic	EA.	Each	L.P.	Light Pole	PT	Point of Tangency
AHD	Ahead	E.B.	Eastbound	LT.	Left	PVC	Point of Vertical Curve
APPROX.	Approximate	E.J.	Expansion Joint	MAC.	Macadam	P.V.C.	Polyvinyl Chloride
℄ or B.L.	Baseline	EL. or ELEV.	Elevation	MAX.	Maximum	PVI	Point of Vertical Intersection
BK	Back / Book	E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe	MB	Micro Bio	PVRC	Point of Vertical Reverse Curve
BIT.	Bituminous	ES	End Section	MC	Moisture Content	PVT	Point of Vertical Tangency
B.C.	Bituminous Concrete	EX. or EXIST.	Existing	MDD	Maximum Dry Content	R	Radius
B.M.	Bench Mark	FT.	Feet	MOD.	Modified	REINF.	Reinforcement
B.O.F.	Bottom of Footing	F or FL	Flowline	MIN.	Minimum	REQ'D	Required
BOT.	Bottom	F.B.D.	Flat Bottom Ditch	MN.	Managed Roadway	R.F.	Rock Fragments
BRG.	Bearing	F.H.	Fire Hydrant	M.S.E.	Mechanically Stabilized Earth	RT.	Right
C.C.	Center of Curve	F.O.	Fiber Optic	N	North	RW or R/W	Right of Way
CATV	Cable Television	F.S.	Full Super Elevation	NB	Northbound	R.C.P.	Reinforced Cement Pipe
C.B.R.	California Bearing Ratio	FWD.	Forward	NE	Northeast	R.C.C.P.	Reinforced Cement Concrete Pipe
C.J.	Contraction Joint	G	Gas	NO.	Number	R.Q.D.	Rock Quality Desgnation
℄ or C/L	Centerline	GL	Gutterline	NP	Non-Plastic	R.M.	Rootmat
CL	Class or Clear	GP	General Purpose Roadway	N.T.S.	Not To Scale	S	South
CLF	Chainlink Fence	G.V.	Gas Valve	O.C.	On Center	SAN.	Sanitary Sewer
CMP	Corrugated Metal Pipe	H.B.	Handbox	OH	Overhead	SB or S/B	Southbound
C.O.	Cleanout	H.D.P.	High Density Polyetheylene	OMC	Optimum Moisture	S.D.	Storm Drain
COMB.	Combination	HDWL.	Headwall	PAV'T.	Pavement	S.D.D.	Surface Drain Ditch
CONC.	Concrete	H.E.R.C.P.	Horizontal Elliptical Reinforced Concrete Pipe	PC	Point of Curvature	SE	Super Elevation
CONSTR.	Construction	H.P.	High Point	PCC	Point of Compound Curvature	SF	Silt Fence
COR.	Corner	H.S.D.	Headlight Sight Distance	P/C	Point of Crown	S.F.	Square Feet
CORR.	Correction	IN	Inch	P/GE	Profile Grade Elevation	SHLDR.	Shoulder
C.Y.	Cubic Yard	I.S.T	Inlet Sediment Trap	P.G.L.	Profile Grade Line	SHA	State Highway Administration
DC	Degree of Curve	INV.	Invert	P/GL	Profile Ground Line	SHA MB	State Highway Administration Micro Bio
D.H.V.	Design Hourly Volume	J.B.	Junction Box	℄	Plate	SHT.	Sheet
D.I.	Drop Inlet	K	K Inlet	P/R	Point of Rotation	S.P.P.	Structural Plate Pipe
DIA.	Diameter	L	Length	P.I.	Plasticity Index	S.P.T.	Standard Penetration Testing
D.O.	Double Opening	L.F.	Linear Feet	P.I	Point of Intersection	S.S.	Stainless Steel
D.S.	Design Speed			POC	Point On Curve	SSD	Stopping Sight Distance
DWG.	Drawing			POT	Point On Tangent	SSF	Super Silt Fence
						STD.	Standard
						STA.	Station
						STIFF.	Stiffener
						SO.	Single Opening
						S.Y.	Square Yards
						SWM	Stormwater Management
						T	Tangent
						T	Telephone
						T.C.	Top of Cover
						TEMP.	Temporary
						T.G.	Top of Grade
						T.B.R.	To Be Removed
						T or TL	Traverse Line
						T.M.	Top of Manhole
						T.O.F.	Top of Footing
						TRAV.	Traverse
						TS	Temporary Swale
						T.S.	Top of Slab
						T.S.	Topsoil
						TYP.	Typical
						U.D.	Under Drain
						U.G.	Underground
						U.O.N.	Unless Otherwise Noted
						U.P.	Utility Pole
						USC	Unified Soil Classification
						USDA	United States Department of Agriculture
						VCL	Vertical Clearance
						V.C.L.	Vertical Curve Length
						W	Water
						W	West
						W.B.	Westbound
						WB	Wetland Buffer
						W.M.	Water Meter
						W.S.	Wrapped Steel

DESIGN TRAFFIC DATA

ROADWAY	MD 355 (ROCKVILLE PIKE)	
CONTROLS / YEARS	2018	2042
AVERAGE DAILY TRAFFIC (A.D.T.)	50,000	59,800
DESIGN HOURLY VOLUME (D.H.V.)	4,200	5,000
DIRECTIONAL DISTRIBUTION	62.68%	56.46%
% TRUCKS - A.D.T.	2	2
% TRUCKS - D.H.V.	2	2
DESIGN SPEED M.P.H.	45 M.P.H.	
FUNCTIONAL CLASSIFICATION	ARTERIAL	
CONTROL OF ACCESS	NONE	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	40 M.P.H.	
ROADWAY	OLD GEORGETOWN ROAD (MD 187)	
CONTROLS / YEARS	2018	2042
AVERAGE DAILY TRAFFIC (A.D.T.)	23,200	17,000
DESIGN HOURLY VOLUME (D.H.V.)	2,000	1,400
DIRECTIONAL DISTRIBUTION	56.86%	57.86%
% TRUCKS - A.D.T.	2	2
% TRUCKS - D.H.V.	2	2
DESIGN SPEED M.P.H.	35 M.P.H.	
FUNCTIONAL CLASSIFICATION	ARTERIAL	
CONTROL OF ACCESS	PARTIAL	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	30 M.P.H.	

SYMBOLS

EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED TRAFFIC BARRIER
EXISTING TRAFFIC BARRIER
EXISTING WOOD FENCE LINE
EXISTING CHAIN LINK FENCE LINE
BASE OR SURVEY LINE
EXISTING FIRE HYDRANT
PROPOSED STORM DRAIN
PROPOSED STORM DRAIN INLET
PROPOSED STORM DRAIN MANHOLE
EXISTING STORM DRAIN
EXISTING INLET
EXISTING UTILITY POLE
EXISTING TREE
EXISTING TREE LINE
CUT SLOPE
FILL SLOPE
STREET LIGHT
STREET LIGHT HANDBOX
STREET LIGHT CONDUIT
EXISTING CONTOUR (MINOR)
EXISTING CONTOUR (MAJOR)

LIMIT OF DISTURBANCE — LOD —
SILT FENCE — SF —
SUPER SILT FENCE — SSF —
DIVERSION FENCE — DF —
STONE CHECK DAM — CD —
TEMPORARY STONE OUTLET STRUCTURE — TSOS —
TEMPORARY GABION OUTLET STRUCTURE — TGOS —
AT-GRADE INLET PROTECTION — AGIP —
CURB INLET PROTECTION — CIP —
MEDIAN INLET PROTECTION — MIP —
STANDARD INLET PROTECTION — SIP —
COMBINATION INLET PROTECTION — COIP —
STABILIZED CONSTRUCTION ENTRANCE — SCE —
PROPOSED UTILITY POLE
PROPOSED UTILITY CONDUIT
PROPOSED UTILITY VAULT
EXISTING GAS — G —
EXISTING WATER — W —
EXISTING SEWER — SS —
EXISTING FIBER OPTIC — FO —

11/19/2021
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Stantec
6110 FROST PLACE,
LAUREL, MARYLAND 20707
(301) 982-2800
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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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND · LORI R. ADCOCK · NO. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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 :

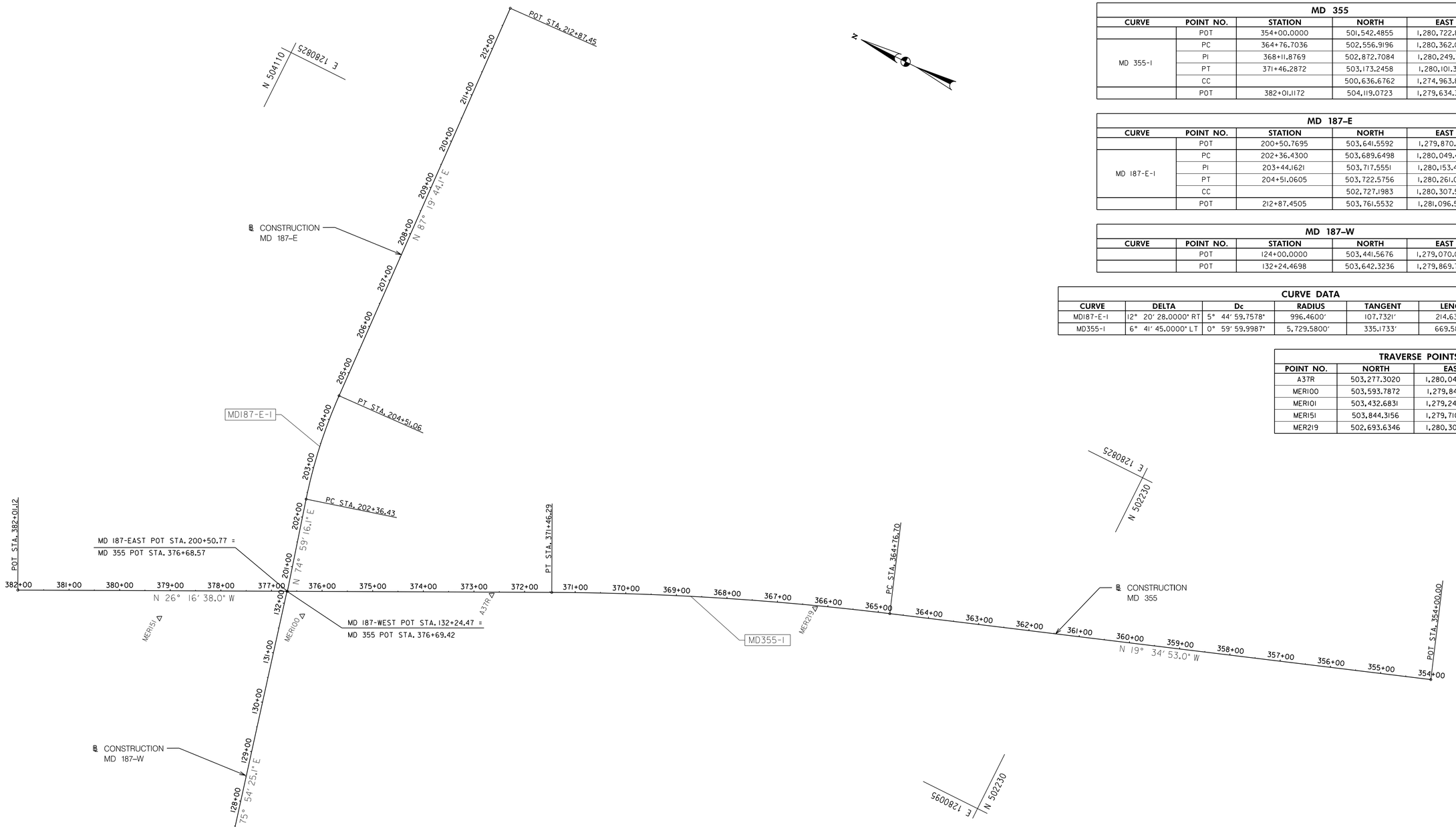
GN-01

WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

GENERAL NOTES, DESIGN TRAFFIC DATA, SYMBOLS & ABBREVIATIONS

SCALE : NO SCALE DATE : NOV 2021

Project No. : 502106 SHEET 02 of 69



MD 355					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	POT	354+00.0000	501,542.4855	1,280,722.8952	N 19° 34′′ 53.00" W
MD 355-1	PC	364+76.7036	502,556.9196	1,280,362.0427	N 19° 34′′ 53.00" W
	PI	368+11.8769	502,872.7084	1,280,249.7109	
	PT	371+46.2872	503,173.2458	1,280,101.3247	N 26° 16′ 38.00" W
	CC		500,636.6762	1,274,963.8252	
	POT	382+01.1172	504,119.0723	1,279,634.3359	N 26° 16′ 38.00" W

MD 187–E					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	POT	200+50.7695	503,641.5592	1,279,870.1014	N 74° 59′′ 16.13" E
MD 187-E-1	PC	202+36.4300	503,689.6498	1,280,049.4255	N 74° 59′ 16.13" E
	PI	203+44.1621	503,717.5551	1,280,153.4808	
	PT	204+51.0605	503,722.5756	1,280,261.0958	N 87° 19′ 44.13" E
	CC		502,727.1983	1,280,307.5330	
	POT	212+87.4505	503,761.5532	1,281,096.5771	N 87° 19′ 44.13" E

MD 187–W					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	POT	124+00.0000	503,441.5676	1,279,070.0694	N 75° 54′ 25.08" E
	POT	132+24.4698	503,642.3236	1,279,869.7240	

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
MD187-E-1	12° 20′ 28.0000" RT	5° 44′ 59.7578"	996.4600′	107.7321′	214.6305′	5.8068′
MD355-1	6° 41′ 45.0000" LT	0° 59′ 59.9987"	5,729.5800′	335.1733′	669.5836′	9.7952′

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
A37R	503,277.3020	1,280,044.1760	402.65
MERI00	503,593.7872	1,279,840.1414	399.62
MERI01	503,432.6831	1,279,240.9519	384.56
MERI5I	503,844.3156	1,279,710.0597	398.80
MER219	502,693.6346	1,280,305.5218	405.88

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND · LORI R. ADCOCK · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

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

APPROVED
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Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

GEOMETRIC LAYOUT

SCALE : DATE : NOV 2021

Project No. : 502106 SHEET 03 of 69

11/19/2021
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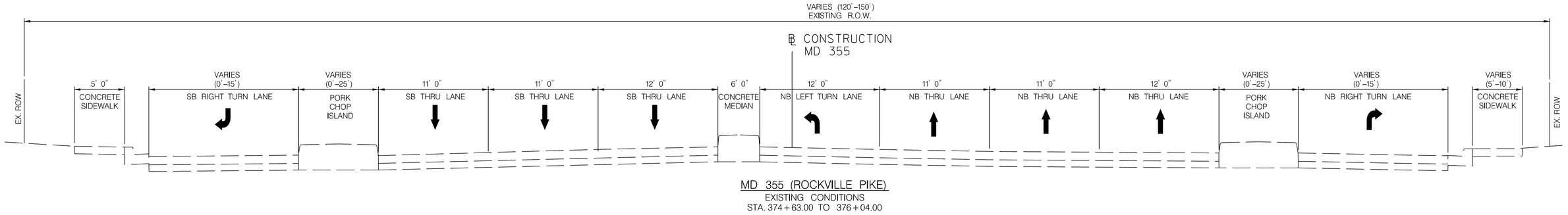
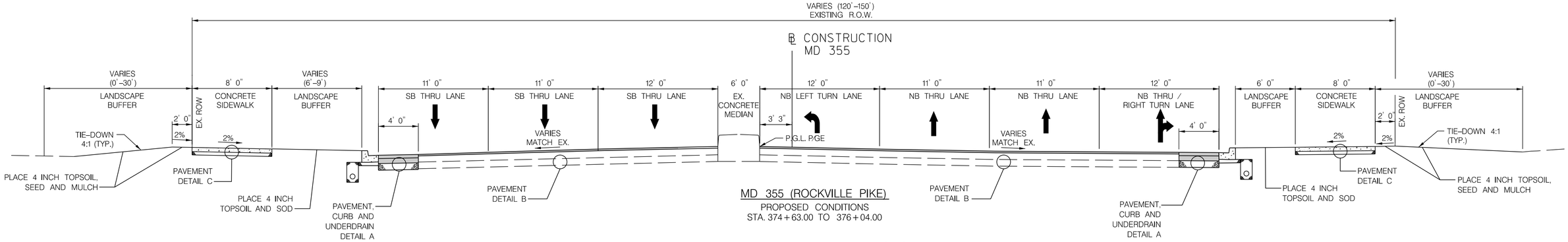
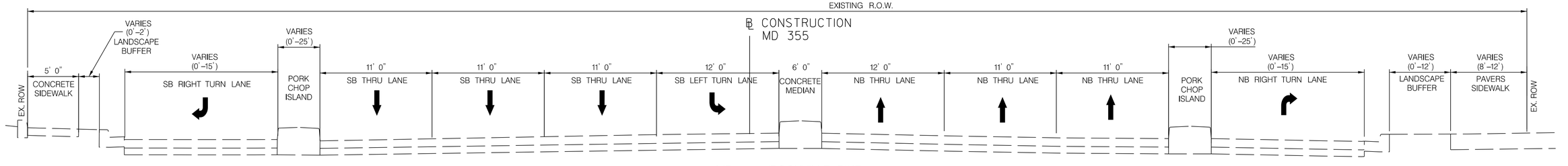


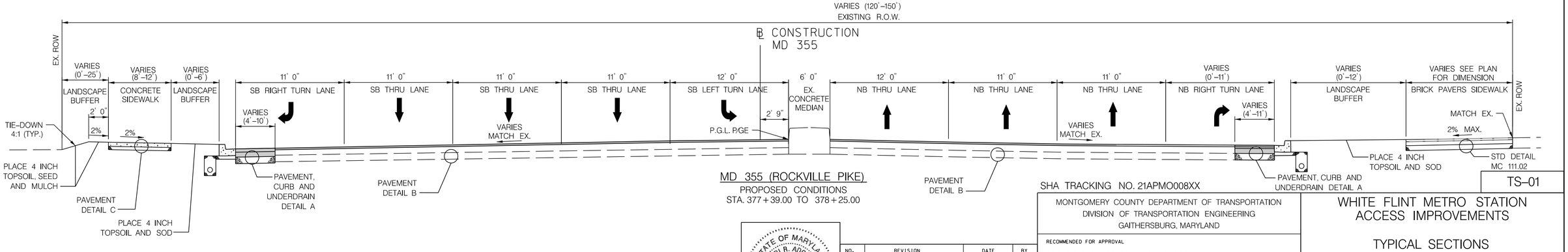
MD 355 (ROCKVILLE PIKE)
EXISTING CONDITIONS
STA. 374+63.00 TO 376+04.00



MD 355 (ROCKVILLE PIKE)
PROPOSED CONDITIONS
STA. 374+63.00 TO 376+04.00



MD 355 (ROCKVILLE PIKE)
EXISTING CONDITIONS
STA. 377+39.00 TO 378+25.00



MD 355 (ROCKVILLE PIKE)
PROPOSED CONDITIONS
STA. 377+39.00 TO 378+25.00

SCALE: 1" = 5'

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STATE OF MARYLAND · ORI R. AGGAY · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

TS–01

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

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

APPROVED
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Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

TYPICAL SECTIONS

SCALE : 1" = 5' DATE : NOV 2021

Project No. : 502106 SHEET 04 of 69

11/9/2021
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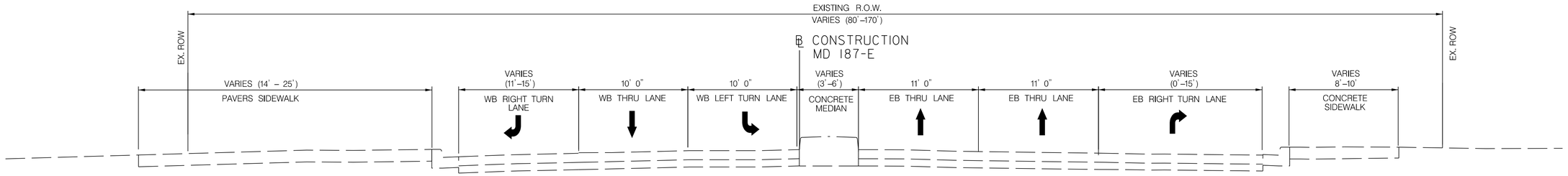
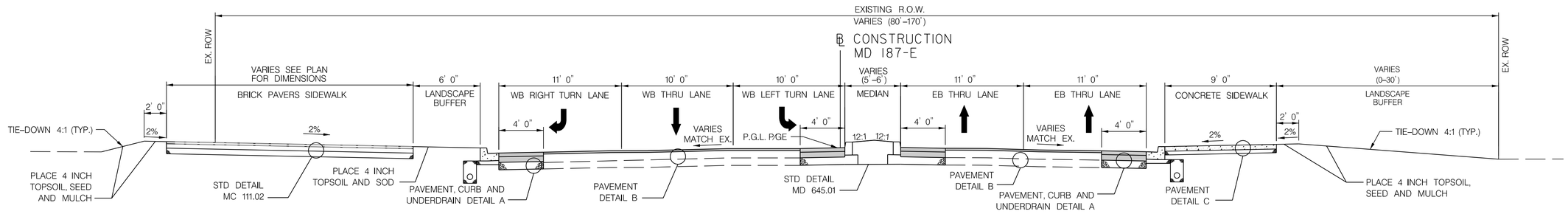
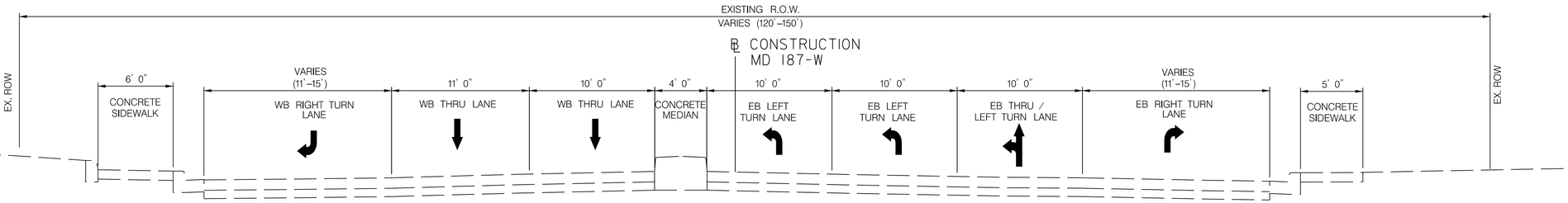


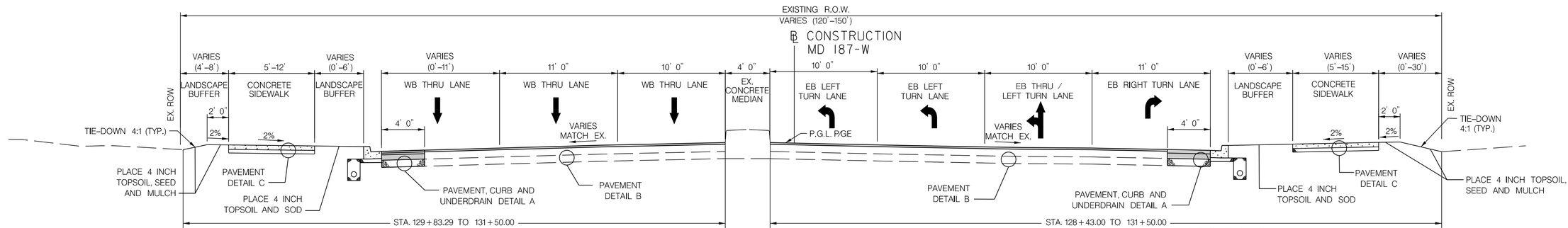
MD 187–E (OLD GEORGETOWN ROAD)
EXISTING CONDITIONS
STA. 200+97.00 TO 202+88.00



MD 187–E (OLD GEORGETOWN ROAD)
PROPOSED CONDITIONS
STA. 200+97.00 TO 202+88.00



MD 187–W (OLD GEORGETOWN ROAD)
EXISTING CONDITIONS
STA. 128+43.00 TO 131+69.00



MD 187–W (OLD GEORGETOWN ROAD)
PROPOSED CONDITIONS
STA. 128+43.00 TO 131+69.00

SHA TRACKING NO. 21APMO008XX

TS–02

5' 0 5" 10'
SCALE: 1" = 5'

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LICENSE NO: 28255 EXPIRATION DATE: 06–30–2022

STATE OF MARYLAND · LORI R. ADKINS · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
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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 :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

TYPICAL SECTIONS

SCALE : 1" = 5' DATE : NOV 2021

Project No. : 502106 SHEET 05 of 69

11/19/2021
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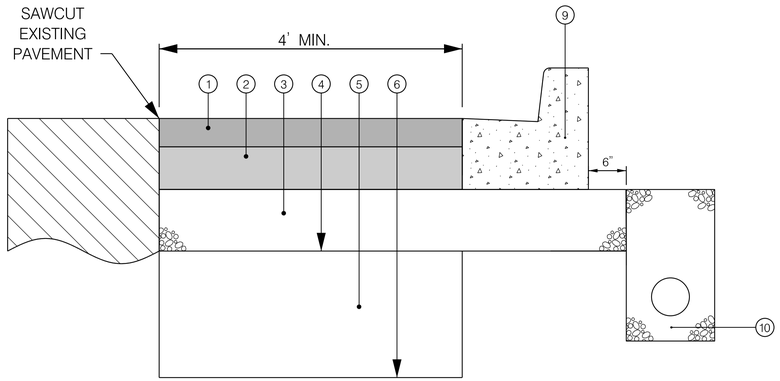
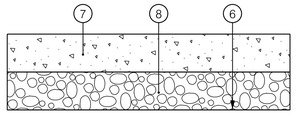


DETAIL A

FULL DEPTH PAVEMENT, CURB & GUTTER, UNDERDRAIN
INCLUDES PORK CHOP ISLAND REPLACEMENT
ROCKVILLE PIKE (MD 355)
OLD GEORGETOWN ROAD (MD 187)

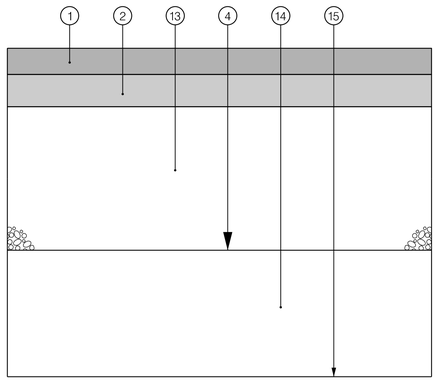
DETAIL B

MILL & OVERLAY
ROCKVILLE PIKE (MD 355)
OLD GEORGETOWN ROAD (MD 187)



DETAIL C

CONCRETE SIDEWALK
ROCKVILLE PIKE (MD 355)
OLD GEORGETOWN ROAD (MD 187)



DETAIL D

UTILITY PAVEMENT PATCH

PAVEMENT LEGEND

1. 2" SUPERPAVE ASPHALT MIX 12.5 MM FOR SURFACE, PG 64S–22, LEVEL 2
2. 8" SUPERPAVE ASPHALT MIX 19.0 MM FOR BASE, PG 64S–22, LEVEL 2 (TWO 4 INCH LIFTS)
3. 8" GRADED AGGREGATE BASE COURSE (ONE 8 INCH LIFT)
4. TOP OF SUBGRADE
5. 3' SELECT BORROW WITH CBR OF MINIMUM 7
6. LIMIT OF CLASS 1 EXCAVATION (SEE NOTE 2 BELOW)
7. 5" CONCRETE (MDSHA STD. MD 655.01)
8. 4" GRADED AGGREGATE BASE
9. COMBINATION CONCRETE CURB AND GUTTER, TYPE D, 10 INCH MINIMUM DEPTH (MDSHA STD. MD 620.02–01)
10. LONGITUDINAL UNDERDRAIN, MDSHA STD. MD 387.11–01
11. 2" SUPERPAVE ASPHALT MIX 12.5 MM FOR SURFACE, PG 64S–22, LEVEL 2
12. TOP OF EXISTING PAVEMENT SURFACE AFTER 2 INCH FINE MILLING
13. 16" GRADED AGGREGATE BASE COURSE (TWO 8 INCH LIFTS)
14. SELECT BORROW WITH CBR OF MINIMUM 7 (DEPTH VARIES)
15. LIMIT OF UTILITY WORK

NOTES:

1. THE SUBGRADE SHALL BE TEST ROLLED AS SPECIFIED IN SECTION 204 OF THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS.
2. ALL EXCAVATION ON THIS PROJECT SHALL BE CONSIDERED CLASS I.

5' 0 5' 10'
SCALE: 1" = 5'

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ADDAIR
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

DT–01

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

RECOMMENDED FOR APPROVAL
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Chief, Design Section — Date

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Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

PAVING DETAILS

SCALE : DATE : NOV 2021

Project No. : 502106 SHEET 06 of 69

11/19/2021
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LIMIT OF WORK
WHITE FLINT ACCESS IMPROV.
ROCKVILLE PIKE (MD 355)
STA. 379+62.06

LIMIT OF WORK
WHITE FLINT ACCESS IMPROV.
OLD GEORGETOWN RD (MD 187)
STA. 128+43.16

LIMIT OF WORK
WHITE FLINT ACCESS IMPROV.
ROCKVILLE PIKE (MD 355)
STA. 374+24.85

LIMIT OF WORK
WHITE FLINT ACCESS IMPROV.
OLD GEORGETOWN RD (MD 187)
STA. 202+88.82

N 503800
E 1279600
N 503350
E 1279250

ROCKVILLE PIKE (MD 355)
OLD GEORGETOWN ROAD
PIKE & ROSE RETAIL BUILDING
JAGUAR/LANDROVER DEALERSHIP
POPEYE'S
WMATA WHITE FLINT METRO STATION 04-00052606
WFP FRONT LOT LIMITED PARTNERSHIP L. 21570, F. 763 AMENDED CONDOMINIUM PLAT 8652
FEDERAL REALTY INVESTMANT TRUST L. 35028, F. 457 PLAT 24871 04-03745532
MONTGOMERY COUNTY MARYLAND PLAT NO. 6061S (RIGHT OF WAY FOR OLD GEORGETOWN ROAD)
MONTROSE ASSOCIATES L. 3356, F. 150 PLAT 9325 (LOT7) 04-00052561
JAFFE FAMILY LLC L. 19940, F. 384 04-00051112

CURVE MD187-E-1
PI Sta 368+11.88
Δ = 12° 20' 28.00" (RT)
D = 5° 44' 59.76"
L = 214.63'
T = 107.73'
R = 996.46'
PC = STA. 202+36.43
PT = STA. 204+51.06

END PR. CURB AND GUTTER AND TIE TO EXISTING, STA. 378+25.00
END PR. SIDEWALK, TIE TO EXISTING, STA. 378+25.00
END PR. CURB AND GUTTER AND TIE TO EXISTING, STA. 378+12.86
END PR. SIDEWALK & TIE TO EXISTING, STA. 377+41.42
END PR. CURB, GUTTER AND SIDEWALK & TIE TO EXISTING, STA. 129+83.29
END PR. CURB, GUTTER AND SIDEWALK & TIE TO EXISTING, STA. 128+44.28
END PR. CURB, GUTTER AND SIDEWALK, & TIE TO EXISTING, STA. 201+84.36
END PR. MONOLITHIC CONCRETE MEDIAN & TIE TO EXISTING, STA. 202+88.82
END PR. CURB, GUTTER AND SIDEWALK & TIE TO EXISTING, STA. 202+48.71
END PR. SIDEWALK AND TIE TO EXISTING STA. 374+63.00, 48.46' RT.
END PR. SIDEWALK AND TIE TO EXISTING STA. 374+63.00, 48.58' LT.
END PR. CURB & GUTTER AND TIE TO EXISTING STA. 374+63.00, 41.79' RT.
END PR. CURB & GUTTER AND TIE TO EXISTING STA. 374+63.00, 41.91' LT.

ADJUST EX. GAS VALVE
ADJUST EX. HANDBOX
ADJUST EX. SEWER MH
ADJUST EX. MANHOLE
ADJUST EX. WATER VALVE
EX. LIGHT TO REMAIN
EX. STREET LIGHT TO REMAIN
EX. STREET LIGHT TO BE RELOCATED
EX. UTILITY POLE TO REMAIN
EX. WATER VALVE
EXISTING RIGHT OF WAY
PR. TEMPORARY CONSTRUCTION EASEMENT
PR. MEDIAN CUT THROUGH
PR. SIDEWALK RAMP STD. NO. MD 655.11 (TYP.)
PR. SIDEWALK RAMP STD. NO. MD 655.11
RECONSTRUCT EX. DRIVEWAY STD. NO. MD 630.02
MATCH EX. SIDEWALK/EDGE
CONTRACTOR TO USE CAUTION WHEN WORKING OVER GAS LINE
USE CAUTION WHEN WORKING OVER GAS LINE
REVERTIBLE EASEMENT FOR CURB & GUTTER (PLATS 34583 & 34584)
REVERTIBLE SLOPE EASEMENT SHA PLATS 35186, 35187
WSSC EASEMENT FOR WATER MAIN & SNAITARY SEWER (L. 45663 F. 369 PT 2)
WSSC SANITARY EASEMENT L. 5228, F. 559
WMATA PERPETUAL EASEMENT L.5304, F. 621
10' PUE PLAT 8562
STA. 377+34.71, 43.55' RT
STA. 376+77.00
STA. 375+00
STA. 374+00

R=12' R=39' R=10' R=5' R=25' R=50' R=30' R=35' R=40'

SCALE: 1" = 30'

LEGEND

- FULL-DEPTH ASPHALT PAVEMENT
- MILL & OVERLAY
- REMOVAL OF EX. CURB, SIDEWALK, PAVEMENT
- CONCRETE MEDIAN AND CONCRETE SIDEWALK
- BRICK PAVERS
- EX. RIGHT OF WAY

SHA TRACKING NO. 21APMO008XX

PS-01

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NO.	REVISION	DATE	BY

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GAITHERSBURG, MARYLAND

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APPROVED
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Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

ROADWAY PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 07 of 69

11/19/2021
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DETECTABLE WARNING SURFACE (STD. NO. MD 655.40)			
℄ CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
MD 355	376+13.42 / 42.55' LT	16	MD SHA STD. NO. 655.40
MD 187 W	131+64.64 / 39.45' RT	16	MD SHA STD. NO. 655.40
MD 187 W	131+58.48 / 6.33' LT	34	MD SHA STD. NO. 655.40
MD 187 W	131+50.58 / 38.75' LT	16	MD SHA STD. NO. 655.40
MD 355	377+32.16 / 56.42' LT	16	MD SHA STD. NO. 655.40
MD 355	377+10.90 / 43.53' RT	20	MD SHA STD. NO. 655.40
MD 187 E	200+98.05 / 33.97' LT	20	MD SHA STD. NO. 655.40
MD 187 E	201+07.84 / 0.20' RT	21	MD SHA STD. NO. 655.40
MD 187 E	201+09.36 / 5.22' RT	21	MD SHA STD. NO. 655.40
MD 187 W	201+19.37 / 36.37' RT	17	MD SHA STD. NO. 655.40
MD 355	376+10.28 / 49.46' RT	21	MD SHA STD. NO. 655.40

STANDARD TYPE "D" COMBINATION CURB & GUTTER (STD. NO. MD 620.02-01)				
℄ CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
MD 355	374+63.00 / 41.91' LT	376+03.42 / 41.88' LT	141	MD SHA STD. NO. 620.02-01
MD 355	376+23.52 / 42.37' LT	376+40.74 / 55.26' LT	22	MD SHA STD. NO. 620.02-01
MD 187 W	131+56.32 / 38.77' RT	130+19.54 / 38.56' RT	137	MD SHA STD. NO. 620.02-01
MD 187 W	129+81.53 / 39.55' RT	128+44.28 / 43.11' RT	137	MD SHA STD. NO. 620.02-01
MD 187 W	129+83.29 / 40.40' LT	131+43.14 / 31.47' LT	153	MD SHA STD. NO. 620.02-01
MD 355	377+41.72 / 52.66' LT	378+25.00 / 52.15' LT	83	MD SHA STD. NO. 620.02-01
MD 355	378+12.86 / 57.03' RT	377+21.62 / 42.85' RT	93	MD SHA STD. NO. 620.02-01
MD 187 E	201+07.43 / 30.83' LT	201+84.28 / 29.87' LT	76	MD SHA STD. NO. 620.02-01
MD 187 E	202+48.71 / 29.50' RT	201+27.63 / 30.48' RT	122	MD SHA STD. NO. 620.02-01
MD 355	376+00.67 / 43.60' RT	374+63.00 / 41.79' RT	138	MD SHA STD. NO. 620.02-01

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD SHA STD. NO 387.11-01				
℄ CONSTRUCTION	BEGIN STA. / OFFSET	END STA. / OFFSET	QUANTITY (LF)	REMARKS
MD 355 / MD 187 W	374+63.02 / 43.58' LT	128+44.32 / 44.78' RT	513	MD SHA STD. NO. 387.11-01
MD 187 W / MD 355	129+83.29 / 42.07' LT	378+25.00 / 53.82' LT	276	MD SHA STD. NO. 387.11-01
MD 355 / MD 187 E	378+12.85 / 58.69' RT	201+84.30 / 31.54' LT	211	MD SHA STD. NO. 387.11-01
MD 187 E / MD 355	202+48.68 / 31.17' RT	374+63.00 / 42.94' RT	292	MD SHA STD. NO. 387.11-01

MONOLITHIC CONCRETE MEDIAN TYPE A-1 (MD SHA STD. NO. 645.01)				
℄ CONSTRUCTION	BEGIN STA. / OFFSET	END STA. / OFFSET	QUANTITY (LF)	REMARKS
MD 187 E	200+97.06 / 2.57' RT	202+88.59 / 3.83' RT	192	MD SHA STD. NO. 645.01
MD 187 W	131+53.76 / 6.22' LT	131+63.20 / 6.44' LT	8	MD SHA STD. NO. 645.01

STANDARD TYPE "D" CURB (STD. NO. MD 620.02-01)				
℄ CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
MD 355	377+83.33 / 92.26' LT	377+72.22 / 66.97' LT	31	MD SHA STD. NO. 620.02-01
MD 355	376+14.27 / 53.04' RT	376+09.85 / 57.10' RT	6	MD SHA STD. NO. 620.02-01
MD 355	376+17.15 / 56.48' RT	376+12.50 / 60.29' RT	6	MD SHA STD. NO. 620.02-01

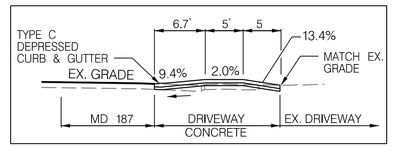
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO.9 (MD SHA STD. NO. 630.02)			
℄ CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS
MD 187 W	130+00.55 / 39.06' RT	60	MD SHA STD. NO. 630.02

BRICK SIDEWALK PAVERS (MC DOT STD. NO. 111.02)			
℄ CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
MD 187 E	201+84.36 / 36.54' LT	1,916	MATCH BRICK PAVER TYPE AND PATTERN OF - THE STERLING AT THE METRO

5 INCH CONCRETE SIDEWALK (MC DOT STD. NO. 111.01)			
℄ CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
MD 355	374+63.00 / 48.58' LT	3,803	MC DOT STD. NO. 111.01
MD 187 W	129+82.16 / 45.20' RT	693	MC DOT STD. NO. 111.01
MD 187 W	129+83.29 / 41.07' LT	3,045	MC DOT STD. NO. 111.01
MD 187 E	202+48.70 / 30.17' RT	5,838	MC DOT STD. NO. 111.01

SIDEWALK RAMPS - PERPENDICULAR (MD SHA STD. NO. 655.11)			
℄ CONSTRUCTION	BEGIN STA. / OFFSET	QUANTITY (EA)	REMARKS
MD 355	376+13.42 / 42.55' LT	1	8 FT MD SHA STD. NO. 655.11
MD 187 W	131+64.64 / 39.45' RT	1	8 FT MD SHA STD. NO. 655.11
MD 187 W	131+50.75 / 38.96' LT	1	8 FT MD SHA STD. NO. 655.11
MD 355	377+32.16 / 56.42' LT	1	8 FT MD SHA STD. NO. 655.11
MD 355	377+10.20 / 43.58' RT	1	10 FT MD SHA STD. NO. 655.11
MD 187 E	200+98.05 / 33.97' LT	1	10 FT MD SHA STD. NO. 655.11
MD 187 E	201+19.37 / 36.37' RT	1	8 FT MD SHA STD. NO. 655.11
MD 355	376+10.28 / 49.46' RT	1	9 FT MD SHA STD. NO. 655.11

BRICK PAVER LAYOUT POINT TABLE		
POINT NUMBER	NORTHING	EASTING
1	503720.5850	1279987.3365
2	503714.0313	1279942.4904
3	503711.0894	1279942.2745
4	503735.6048	1279896.0416
5	503720.1367	1279879.8693
6	503708.3925	1279885.6405
7	503706.0576	1279894.1874
8	503697.1741	1279898.7792
9	503694.0870	1279903.1542
10	503692.0220	1279912.9387
11	503686.8812	1279917.6399
12	503687.8813	1279921.5595
13	503693.6950	1279920.0758
14	503711.4561	1279989.6664



DRIVEWAY DETAIL
OLD GEORGETOWN RD (MD 187)
STA. 130+00.05 RT
(SEE STD. MD-630.02)
N.T.S.

11/19/2021
U:\2026213204\700 CADD\701 Sheet\Phase 2\PHD-0001A_WFMetro.dgn

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ARGATE
NO. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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 :

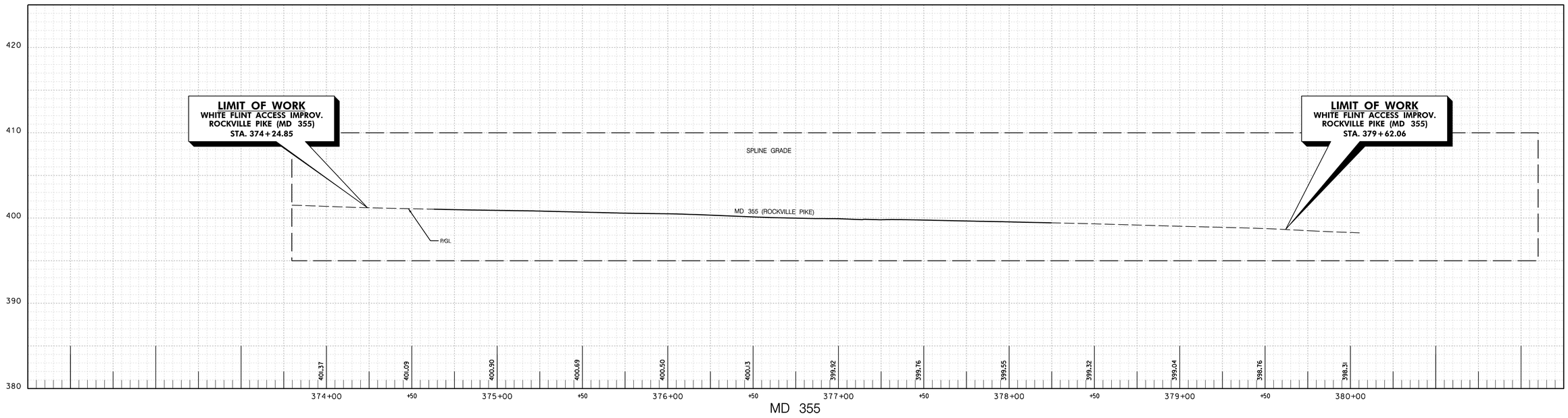
PS-01A

WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

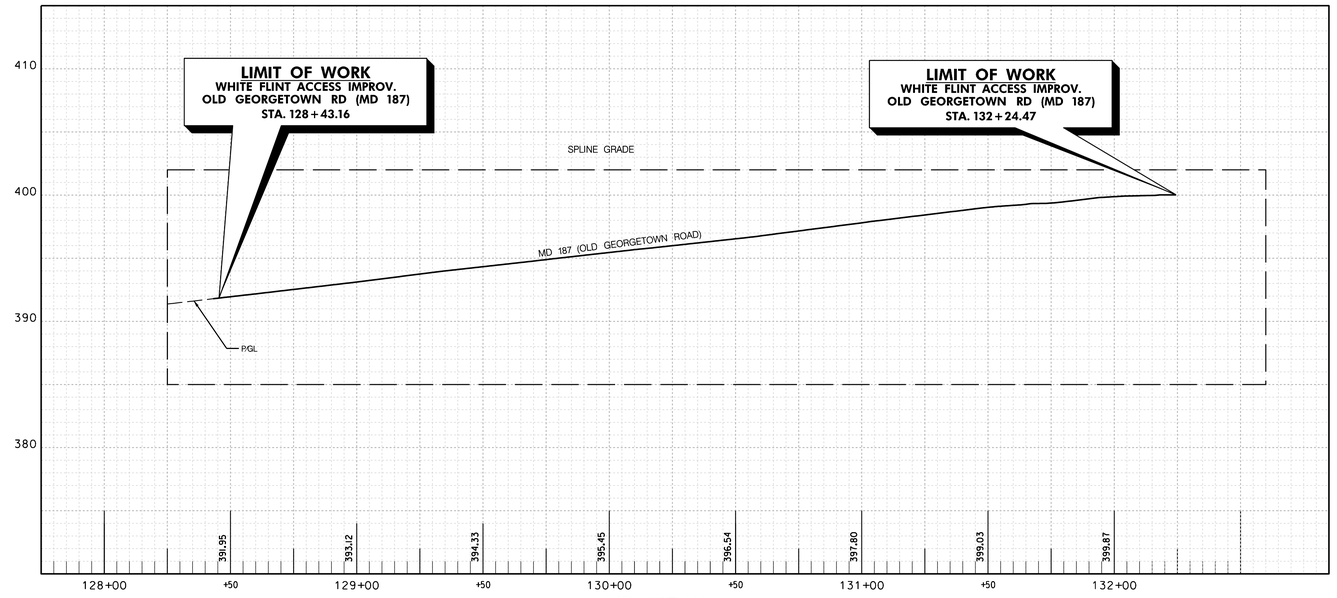
ROADWAY CONTRUCTION NOTES

SCALE : DATE : NOV 2021

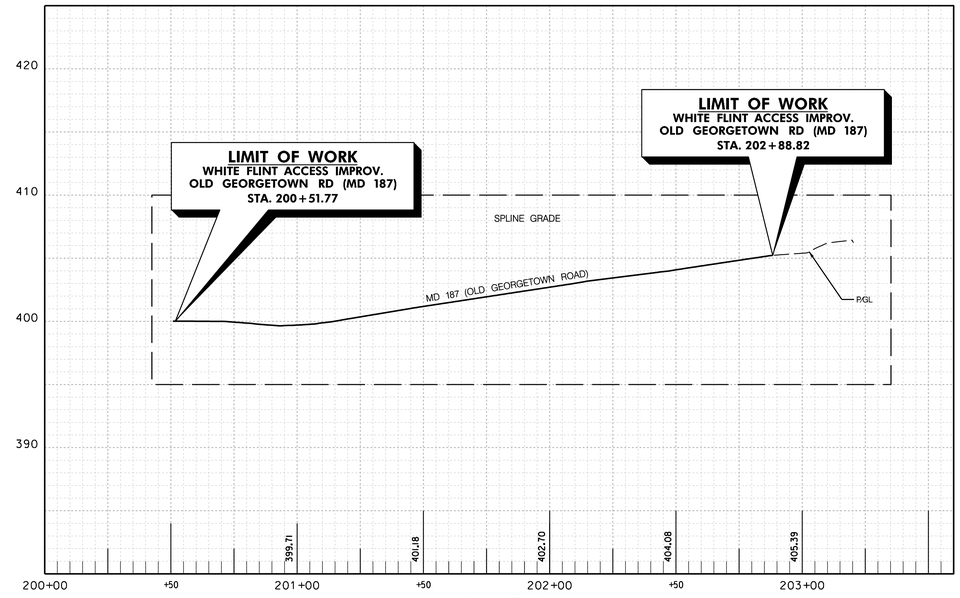
Project No. : 502106 SHEET 08 of 69



MD 355



MD 187–W



MD 187–E

SHA TRACKING NO. 21APMO008XX

PR–01

6' 0 6' 12'
VERTICAL SCALE: 1" = 6'

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

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2018

STATE OF MARYLAND
LORI R. ADCOCK
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

ROADWAY PROFILES

SCALE : H 1" = 30' ; V 1" = 6' DATE : NOV 2021

Project No. : 502106 SHEET 09 of 69

11/19/2021
U:\2026213204\700 CADD\701 Sheet\Phase 2\pHP-V001_WFMetro.dgn

MATCH LINE – SEE DD–03 STA 379+50

STRUCTURE SCHEDULE						
STRUCTURE	STATION	OFFSET	TYPE	TOP ELEV.	INV. OUT	STANDARD
MH-2	376+01.89'	87.18' LT	48" DIA. MANHOLE	398.70	394.81	MD 383.21
I-3	131+04.69'	40.19' RT	15' COG INLET	397.16	395.32	MD 374.51
I-4	375+45.56'	40.13' LT	48" SQ. STD. MANHOLE	400.24	395.26	MD 383.00
I-4A	374+99.14'	39.63' LT	TRIPLE WR INLET	400.33	396.31	MD 374.08
I-11A	377+40.18'	44.49' RT	STD. WRM INLET	399.05	395.67	MD 374.04
I-12A	375+84.85'	42.93' RT	STD. WRM INLET	399.89	396.69	MD 374.04
MH-24	201+38.97'	43.40' LT	48" DIA. MANHOLE	400.25	395.74	MD 383.21
I-24A	201+39.64'	31.91' LT	15' COG INLET	400.36	396.12	MD 374.51
I-25	201+46.12'	29.16' RT	10' COG INLET	400.36	396.52	MD 374.51

PIPE SCHEDULE							
STRUCTURE	TO STRUCTURE	SIZE	TYPE	CLASS	LENGTH	INV. IN	INV. OUT
I-3	MH-2	18"	RCP	IV	62'	395.32	395.01
I-4A	I-4	18"	RCP	IV	71'	396.47	396.11
I-4	MH-2	18"	RCP	IV	70'	395.26	394.91
EX-I-13	I-12A	18"	RCP	IV	4'	•	396.73
I-12A	EX-MH-12	18"	RCP	IV	4'	396.69	•
EX-MH-12	I-11A	18"	RCP	IV	4'	•	395.71
I-11A	EX-MH-11	18"	RCP	IV	4'	395.67	•
I-25	I-24A	18"	RCP	IV	59'	396.52	396.22
I-24A	I-11A	18"	RCP	IV	71'	396.12	395.77
* CONNECT TO EXISTING PIPE							

PIKE & ROSE
RETAIL BUILDING

FEDERAL REALTY INVESTMANT TRUST
L. 35028, F. 457
PLAT 24871
04-03745532

ROCKVILLE PIKE (MD 355)

EXISTING RIGHT OF WAY

WSSC EASEMENT FOR WATER MAIN & SNAITARY SEWER (L. 45663 F. 369 PT 2)

REVERTIBLE EASEMENT FOR CURB & GUTTER (PLATS 34583 & 34584)

WSSC SANITARY EASEMENT
L. 5228, F. 559

EX. STORM DRAIN MH (TO REMAIN)

EX. STORM INLET STRUCTURE TO BE REMOVED & REPLACED W/ PR. MANHOLE

EX. STORM DRAIN PIPE TO BE REMOVED

WFP FRONT LOT LIMITED PARTNERSHIP
L. 21570, F. 763
AMENDED CONDOMINIUM PLAT 8652

WMATA PERPETUAL EASEMENT
L. 6304, F. 624

10' PUE PLAT 8652

OLD GEORGETOWN RD

OLD GEORGETOWN ROAD

MONTGOMERY COUNTY, MARYLAND
PLAT NO. 60615
(RIGHT OF WAY FOR OLD GEORGETOWN ROAD)

N 503750
E 1279500

N 503500
E 1279500

REVERTIBLE SLOPE EASEMENT
SHA PLATS 35186, 35187

JAFFE FAMILY LLC
L. 19940, F. 384
04-00051112

JAGUAR/LANDROVER
DEALERSHIP

MONTROSE ASSOCIATES
L. 3356, F. 428
PLAT 9325 (LOT 7)
04-00052561

POPEYE'S

WHITE FLINT METRO STATION
WMATA
04-00052606

SPEED BUMP

LEGEND

- PROP. CONCRETE SIDEWALK / MEDIAN
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. PAVEMENT/SIDEWALK REMOVAL
- PROP. BRICK SIDEWALK
- 24"RCP PROP. STORM DRAIN PIPE
- PROP. CURB INLET
- PROP. GRATE INLET
- PROP. COMBINATION INLET
- PROP. MANHOLE

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

NOTE:

NO SWM IS PROPOSED FOR THIS PROJECT, PLEASE REFER TO SWM WAIVER AND SWM REPORT.

MATCH LINE – SEE DD–02 STA 374+50

SHA TRACKING NO. 21APMO008XX

SC–02 OF SC–17 | DD–01

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LICENSE NO: _____ EXPIRATION DATE: _____

STATE OF MARYLAND · KHIEM HOANG NGUYEN · 40391 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

DRAINAGE & STORMWATER MANAGEMENT PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 10 of 69

11/19/2021
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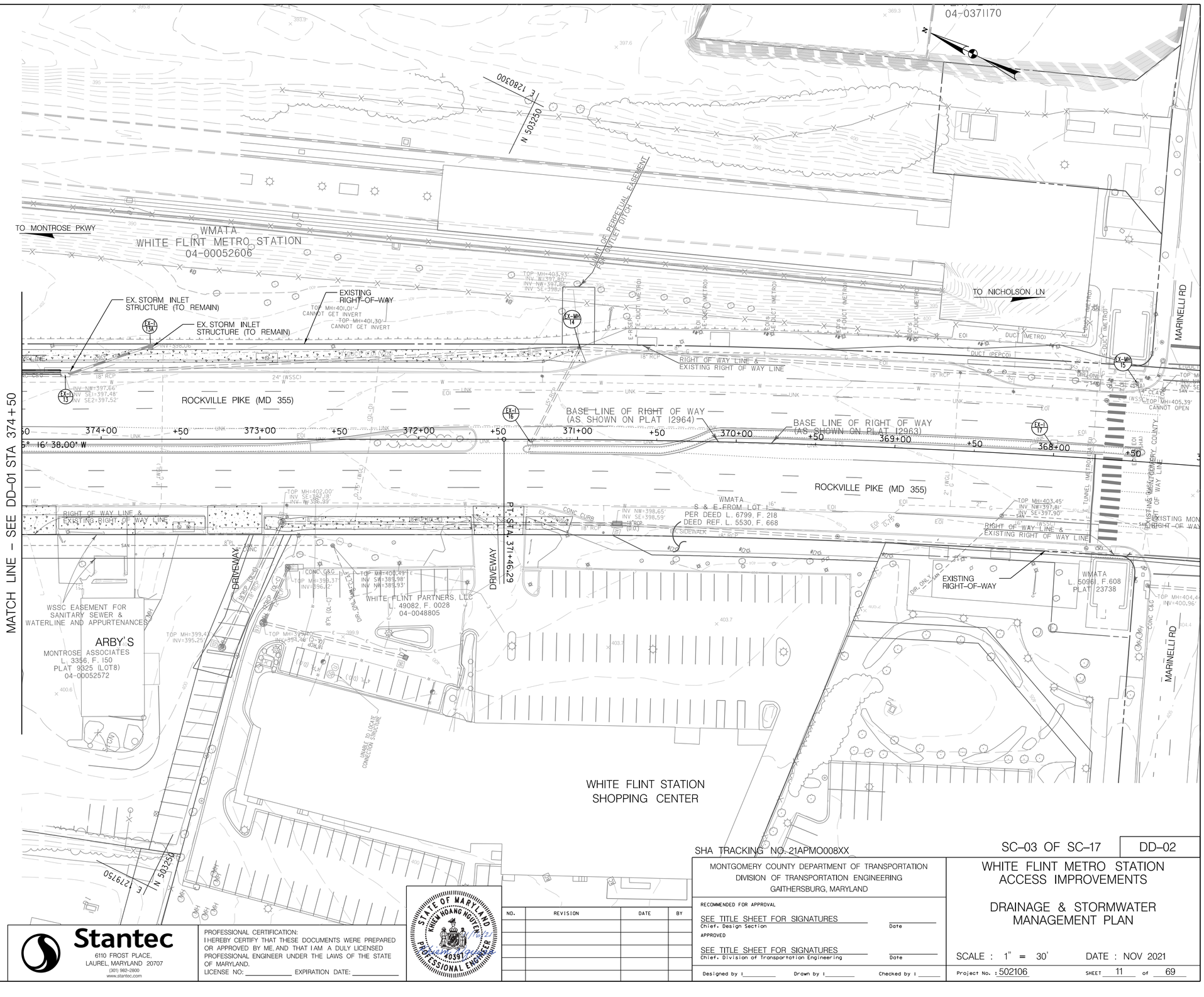
NOTES:

NO SWM IS PROPOSED FOR THIS PROJECT, PLEASE REFER TO SWM WAIVER AND SWM REPORT.

LEGEND

- PROP. CONCRETE SIDEWALK / MEDIAN
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. PAVEMENT/SIDEWALK REMOVAL
- PROP. BRICK SIDEWALK
- 24"RCP PROP. STORM DRAIN PIPE
- PROP. CURB INLET
- PROP. GRATE INLET
- PROP. COMBINATION INLET
- PROP. MANHOLE



SHA TRACKING NO. 21APMO008XX

SC-03 OF SC-17 | DD-02

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LICENSE NO: _____ EXPIRATION DATE: _____

STATE OF MARYLAND
KHIEM HOANG NGUYEN
40397
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

DRAINAGE & STORMWATER MANAGEMENT PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 11 of 69

11/19/2021
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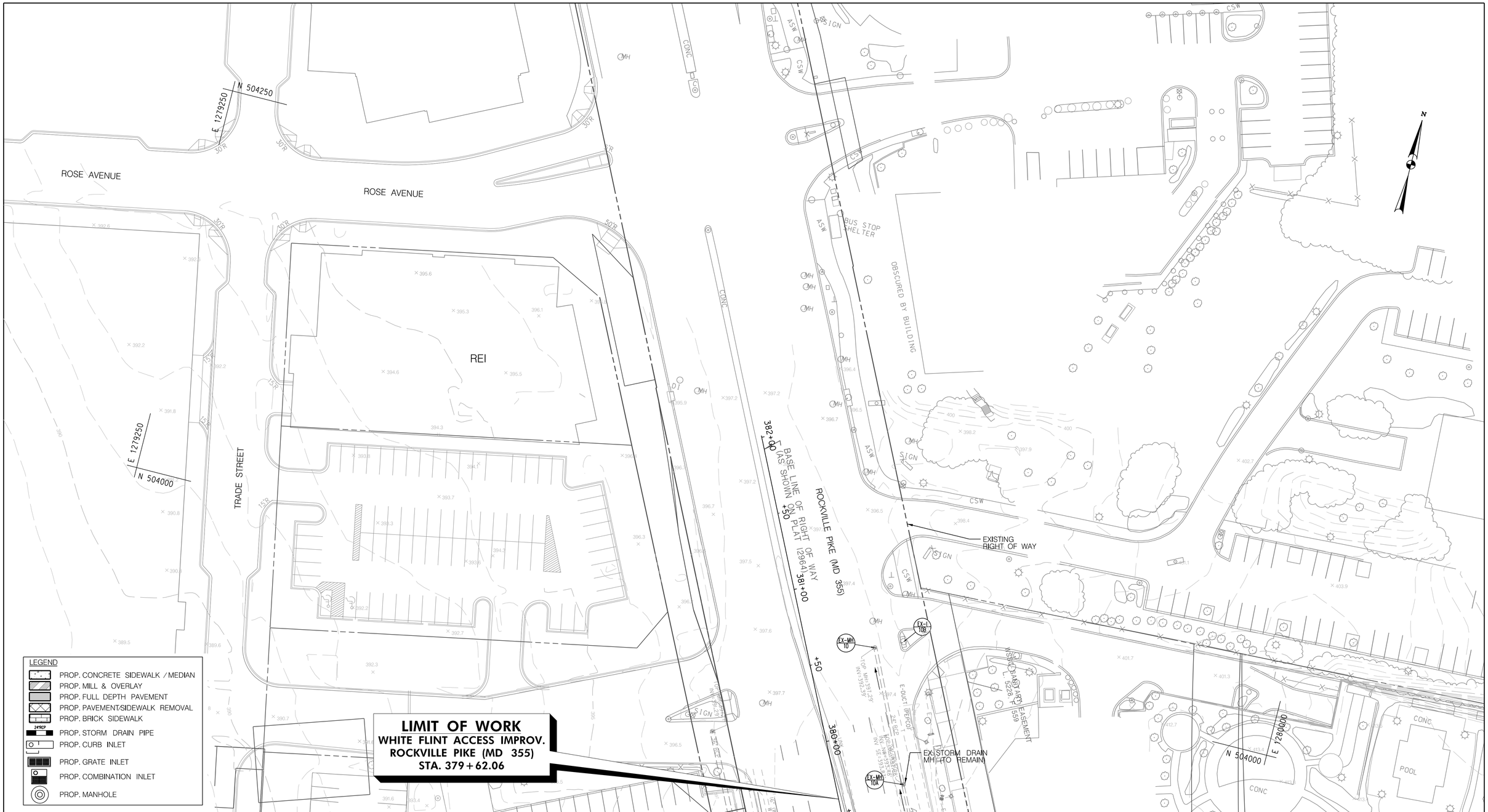

MATCH LINE – SEE DD–01 STA 379+50

SHA TRACKING NO. 21APMO008XX

SC–04 OF SC–17

DD–03

NOTES:

NO SWM IS PROPOSED FOR THIS PROJECT, PLEASE REFER TO SWM WAIVER AND SWM REPORT.

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STATE OF MARYLAND
KHIEM HOANG NGUYEN
40391
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
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 : _____

WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

DRAINAGE & STORMWATER MANAGEMENT PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 12 of 69

11/19/2021
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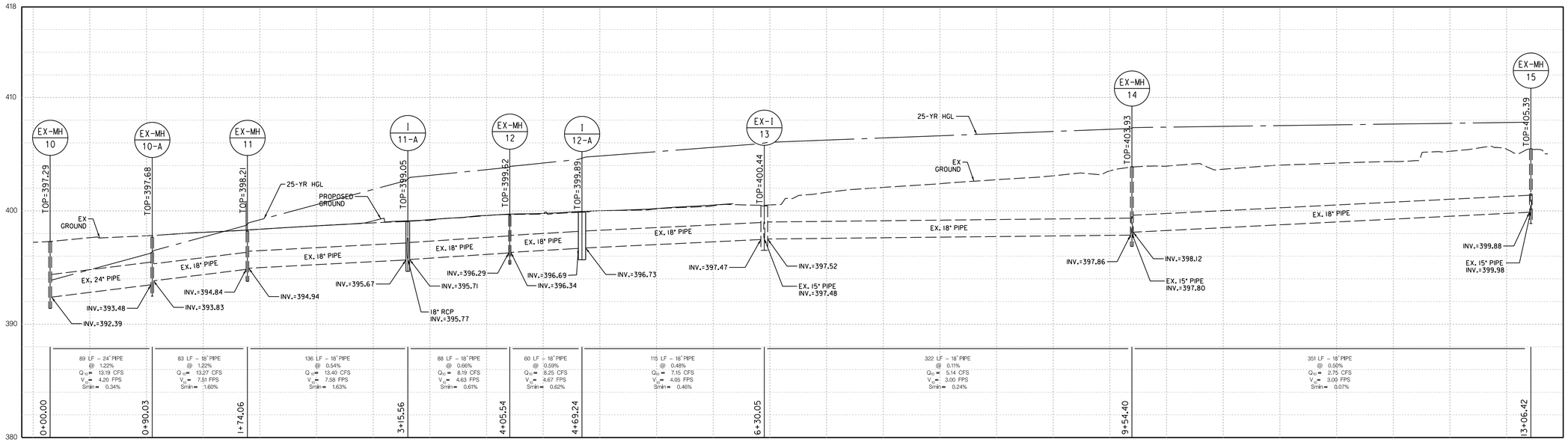
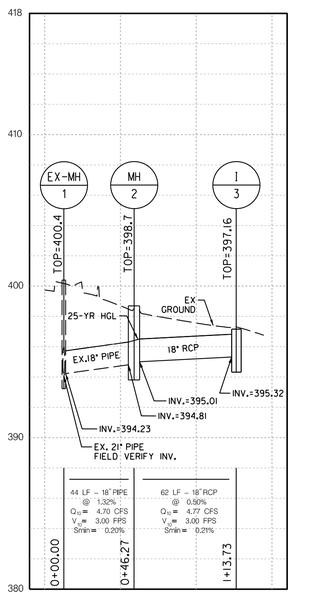
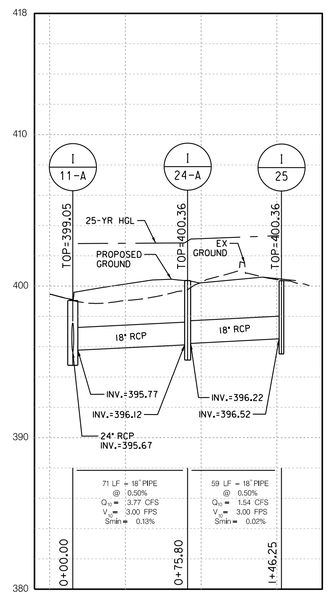


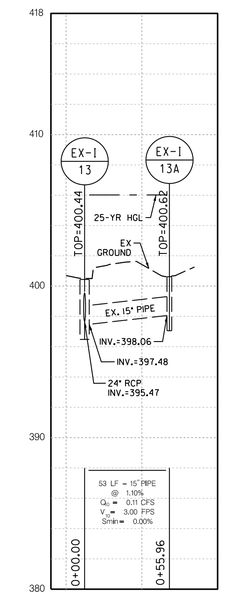
PIPE PROFILE FROM
EX-MH-15 TO EX-MH-10



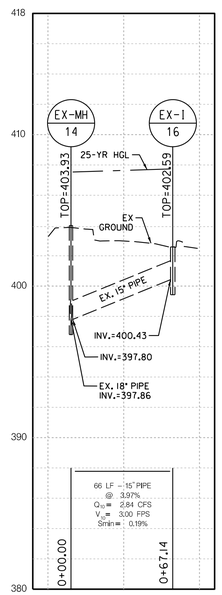
PIPE PROFILE FROM
I-3 TO EX-MH-1



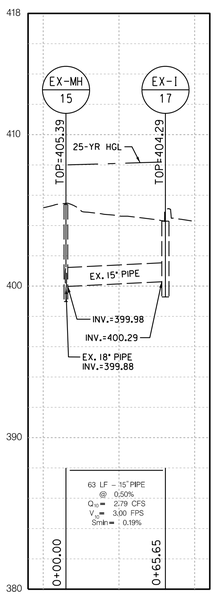
PIPE PROFILE FROM
I-25 TO I-11A



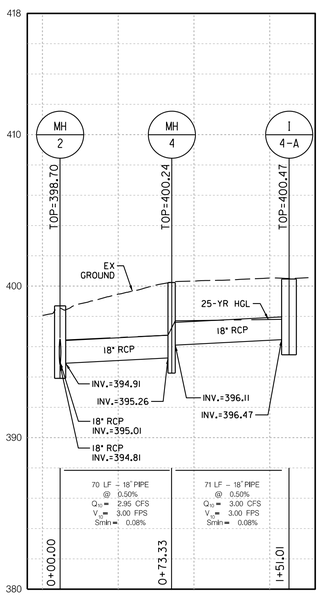
PIPE PROFILE FROM
EX-I-13A TO EX-I-13



PIPE PROFILE FROM
EX-I-16 TO EX-MH-14



PIPE PROFILE FROM
EX-I-17 TO EX-MH-15



PIPE PROFILE FROM
I-4A TO MH-2

VERTICAL SCALE: 1" = 5'

HORIZONTAL SCALE: 1" = 50'

SHA TRACKING NO. 21APMO008XX

SC-05 OF SC-17

PP-01

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LICENSE NO: _____ EXPIRATION DATE: _____

STATE OF MARYLAND
KHIEM HOANG NGUYEN
#039
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

PIPE PROFILES

SCALE : 1" = 50' DATE : NOV 2021

Project No. : 502106 SHEET 13 of 69

11/19/2021
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MATCH LINE – SEE DA–03 STA 379+50

PIKE & ROSE
RETAIL BUILDING

FEDERAL REALTY INVESTMANT TRUST
L. 35028, F. 457
PLAT 24871
04-03745532

ROCKVILLE PIKE (MD 355)

DA E10B
0.70 AC
C=0.80

DA E21
0.78 AC
C=0.76

DA E24
0.38 AC
C=0.87

DA E25
0.32 AC
C=0.72

DA E2
0.68 AC
C=0.83

WSSC SANITARY EASEMENT
L. 5228, F. 559

WFP FRONT LOT LIMITED PARTNERSHIP
L. 21570, F. 763
AMENDED CONDOMINIUM PLAT 8652

WMATA PERPETUAL EASEMENT
L. 5304, F. 624

10' PUE PLAT 8652

WSSC EASEMENT FOR WATER MAIN & SNAITARY SEWER
(L. 45663 F. 369 PT 2)

REVERTIBLE EASEMENT FOR CURB & GUTTER
(PLATS 34583 & 34584)

OLD GEORGETOWN ROAD

MONTGOMERY COUNTY MARYLAND
PLAT NO. 60615
(RIGHT OF WAY FOR
OLD GEORGETOWN ROAD)

REVERTIBLE SLOPE EASEMENT
SHA PLATS 35186, 35187

JAFFE FAMILY LLC
L. 19940, F. 384
04-00051112

JAGUAR/LANDROVER
DEALERSHIP

MONTROSE ASSOCIATES
L. 3356, F. 150
PLAT 9325 (LOT7)
04-00052561
POPEYE'S

WMATA
WHITE FLINT METRO STATION
04-00052606

LEGEND

✱ POINT OF INTEREST

— — DRAINAGE AREA BOUNDARY

MATCH LINE – SEE DA–02 STA 374+50

SHA TRACKING NO. 21APMO008XX

SCALE: 1" = 30'

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STATE OF MARYLAND · KHIEM HOANG NGUYEN · 40397 · PROFESSIONAL ENGINEER

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GAITHERSBURG, MARYLAND

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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 : _____

SC–06 OF SC–17 | DA–01

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EXISTING DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 14 of 69

11/19/2021
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04-0371170

TO MONTROSE PKWY

WMATA
WHITE FLINT METRO STATION
04-00052606

N 503400
E 1280200

LIMIT OF PERPETUAL EASEMENT FOR OUTLET DITCH

N 503200
E 1280200

TO NICHOLSON LN

DA E17
0.45 AC
C = 0.89

MARINELLI RD

DA E13A
0.08 AC
C = 0.25

TOP MH=401.30'
CANNOT GET INVERT

RIGHT OF WAY LINE &
EXISTING RIGHT OF WAY LINE

ROCKVILLE PIKE (MD 355)

DA E13
0.42 AC
C = 0.87

DA E16
0.47 AC
C = 0.86

BASE LINE OF RIGHT OF WAY
(AS SHOWN ON PLAT 12964)

BASE LINE OF RIGHT OF WAY
(AS SHOWN ON PLAT 12963)

TOP MH=405.39'
CANNOT OPEN

374+00 +50 373+00 +50 372+00 +50 371+00 +50 370+00 +50 369+00 +50 368+00 +50 367+00 +50

S 16° 16' 38.00" W

MATCH LINE - SEE DA-01 STA 374+50

DA E2
0.68 AC
C = 0.83

TOP MH=402.00'
INV SE=397.18'
INV W=396.99'

RIGHT OF WAY LINE &
EXISTING RIGHT OF WAY LINE

CONC CURB
EX SIDEWALK
18" RCP

PT STA. 371+46.29

WMATA
S & E FROM LOT 1
PER DEED L. 6799, F. 218
DEED REF. L. 5530, F. 668

INV NW=398.65'
INV SE=398.59'

EXISTING MONTGOMERY COUNTY
RIGHT OF WAY LINE

DRIVEWAY

WSSC EASEMENT FOR
SANITARY SEWER &
WATERLINE AND APPURTENANCES

ARBY'S
MONTROSE ASSOCIATES
L. 3356, F. 150
PLAT 9325 (LOT8)
04-00052572

TOP MH=399.40'
INV=395.25'

CONC C&G
TOP MH=399.37'
INV=396.12'

WHITE FLINT PARTNERS, LLC
L. 49082, F. 0028
04-0048805

TOP MH=399.70'
INV=394.40'

N 503200
E 1279900

WMATA
L. 5096, F. 608
PLAT 23738

TOP MH=404.44'
INV=400.96'

TOP MH=404.59'
INV=400.08'

WHITE FLINT STATION
SHOPPING CENTER

LEGEND

* POINT OF INTEREST

DRAINAGE AREA BOUNDARY

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

SHA TRACKING NO. 21APMO008XX

SC-07 OF SC-17 | DA-02

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 :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EXISTING DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 15 of 69

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: _____

STATE OF MARYLAND
KHIEM HOANG NGUYEN
40397
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

11/19/2021
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MATCH LINE – SEE DA–01 STA 379+50

SHA TRACKING NO. 21APMO008XX

SC–08 OF SC–17

DA–03

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

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Chief, Division of Transportation Engineering — Date

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EXISTING DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 16 of 69

NO.	REVISION	DATE	BY

STATE OF MARYLAND
KHIEM HOANG NGUYEN
40391
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MATCH LINE – SEE DA–06 STA 379+50

PIKE & ROSE
RETAIL BUILDING

FEDERAL REALTY INVESTMANT TRUST
L. 35028, F. 457
PLAT 24871
04-03745532

ROCKVILLE PIKE (MD 355)

DA E10B
0.70 AC
C=0.79

WSSC SANITARY EASEMENT
L. 5228, F. 559

WFP FRONT LOT LIMITED PARTNERSHIP
L. 21570, F. 763
AMENDED CONDOMINIUM PLAT 8652

WMATA PERPETUAL EASEMENT
L. 5304, F. 624

10' PUE PLAT 8652

WSSC EASEMENT FOR WATER MAIN & SNAITARY SEWER
(L. 45663 F. 369 PT 2)

REVERTIBLE EASEMENT FOR CURB & GUTTER
(PLATS 34583 & 34584)

DA 11A
0.45 AC
C=0.83

DA 24A
0.38 AC
C=0.85

OLD GEORGETOWN RD

DA 25
0.31 AC
C=0.70

OLD GEORGETOWN ROAD

MONTGOMERY COUNTY, MARYLAND
PLAT NO. 60615
(RIGHT OF WAY FOR
OLD GEORGETOWN ROAD)

REVERTIBLE SLOPE EASEMENT
SHA PLATS 35186, 35187

JAFFE FAMILY LLC
L. 19940, F. 384
04-00051112

JAGUAR/LANDROVER
DEALERSHIP

DA 13
0.85 AC
C=0.79

MONTROSE ASSOCIATES
L. 3356, F. 150
PLAT 9325 (LOT7)
04-00052561
POPEYE'S

WMATA
WHITE FLINT METRO STATION
04-00052606

DA 12A
0.35 AC
C=0.61

ROCKVILLE PIKE (MD 355)

MATCH LINE – SEE DA–05 STA 374+50

SHA TRACKING NO. 21APMO008XX

LEGEND

- POINT OF INTEREST
- DRAINAGE AREA BOUNDARY
- 24"RCP — PROP. STORM DRAIN PIPE
- PROP. CURB INLET
- PROP. GRATE INLET
- PROP. COMBINATION INLET
- PROP. MANHOLE

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

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STATE OF MARYLAND · KHIEM HOANG NGUYEN · 40397 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 17 of 69

SC–09 OF SC–17 DA–04

11/19/2021
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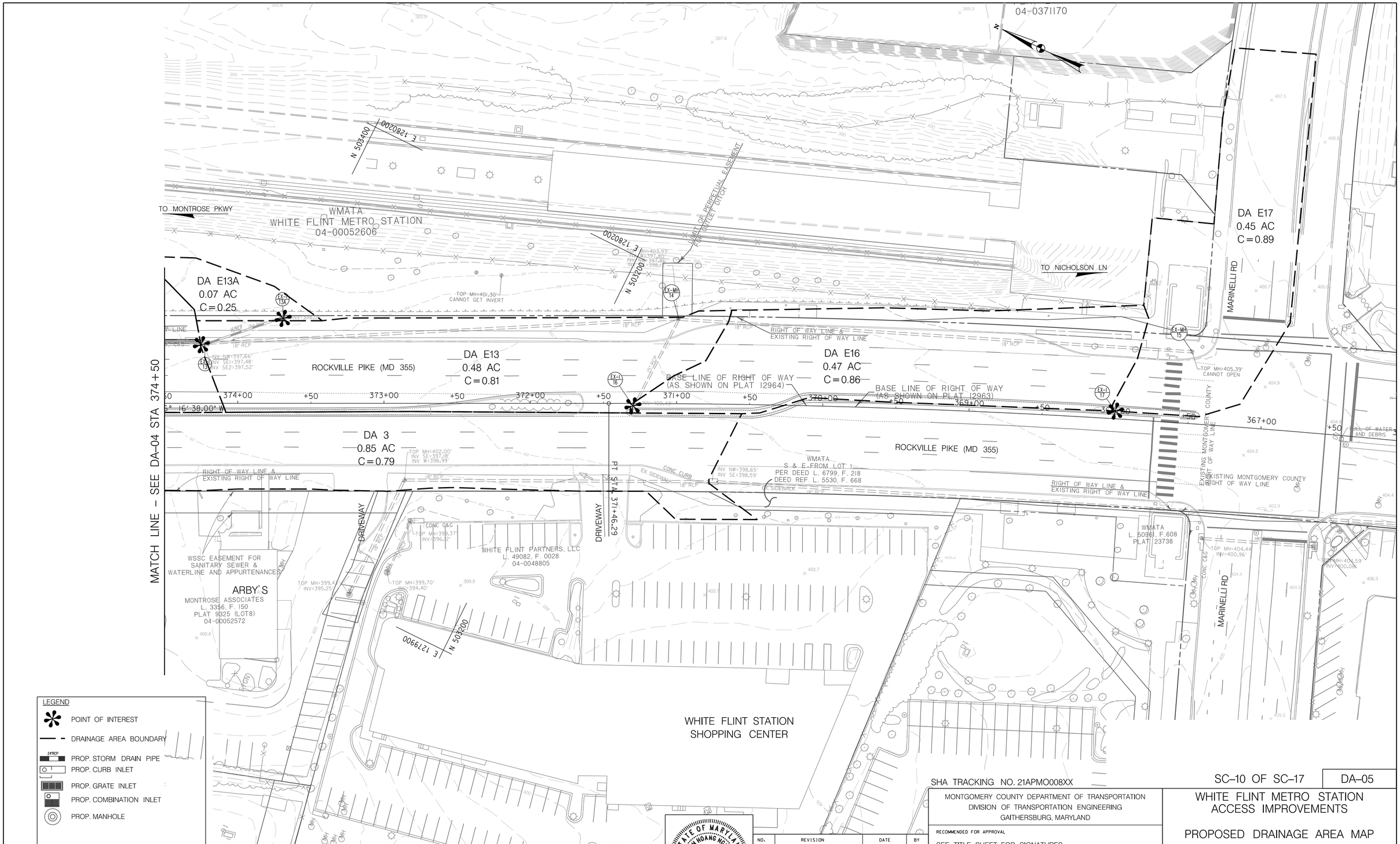

SHA TRACKING NO. 21APMO008XX

SC-10 OF SC-17 | DA-05

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

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

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Designed by : Drawn by : Checked by :

Project No. : 502106 SHEET 18 of 69

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LICENSE NO: _____ EXPIRATION DATE: _____

STATE OF MARYLAND KHIEM HOANG NGUYEN 40391 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

11/19/2021
U:\20262\13204\700 CADD\701 Sheet\Phase 2\pDA-0005_WFMetro.dgn



MATCH LINE – SEE DA–04 STA 379+50

SHA TRACKING NO. 21APMO008XX

SC–11 OF SC–17

DA–06

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STATE OF MARYLAND — KHIEM KOANG NGUYEN — 40391 — PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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 : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 19 of 69

11/19/2021
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MONTGOMERY COUNTY GOVERNMENT
STANDARD EROSION AND SEDIMENT CONTROL NOTES

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.

2. The permittee must obtain inspection and approval by DPS at the following points:

   A. At the required pre-construction meeting.

   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.

   D. Prior to removal or modification of any sediment control structure(s).

   E. Prior to final acceptance.

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.

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.

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.

6. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:

   a) 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

   b) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

   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.

7. 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 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.

8. 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 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.

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.

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 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 measures.

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 management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.

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 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 stabilization.

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.

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.

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.

17. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.

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.

20. Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.

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.

22. Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.

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 the 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.

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

   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.

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

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 Amendments".

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

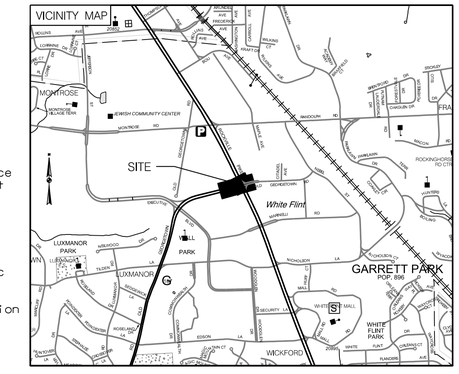
Criteria

A. Soil Preparation
   (1) Temporary stabilization
      (a) Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
      (b) Apply fertilizer and lime as prescribed on these plans.
      (c) Incorporate lime and fertilizer into the top 3 to 5 inches of soil by discing or other suitable means.
   (2) Permanent Stabilization
      (a) A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
         (i) Soil pH between 6.0 and 7.0.
         (ii) Soluble salts less than 500 parts per million (ppm), than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
         (iv) Soil contains 1.5 percent minimum organic matter by weight.
         (v) Soil contains sufficient pore space to permit adequate root penetration.
      (b) Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
      (c) Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
      (d) Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
      (e) Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loosen and friable. seedbed loosening may be unnecessary on newly disturbed areas.

B. Topsoiling
   (1) Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants and/or unacceptable soil gradation.
   (2) Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the soil survey published by USDA-NRCS.
   (3) Topsoiling is limited to areas having 2:1 for flatter slopes where:
      (a) The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
      (b) The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
      (c) The original soil to be vegetated contains material toxic to plants growth.
      (d) The soil is so acidic that treatment with limestone is not feasible.
   (4) Areas having slopes steeper than 2:1 require special consideration and design.
   (5) Topsoil specifications: soil to be used as topsoil must meet the following criteria:
      (a) Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand.
      Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1.5 inches in diameter.
      (b) Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sledge, poison ivy, thistle, or others as specified.
      (c) Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
   (6) Topsoil Application
      (a) Erosion and sediment control practices must be maintained when applying topsoil.
      (b) Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compacted to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
      (c) Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil amendments (fertilizer and lime specifications)
   (1) Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
   (2) Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
   (3) Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.
   (4) Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
   (5) Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

BEFORE BEGINNING CONSTRUCTION CONTACT
"MISS UTILITY"
AT
1-800-257-7777
AT LEAST 48 HOURS PRIOR TO EXCAVATION



SHA TRACKING NO. 21APMO008XX

SC-12 OF SC-17 | ESC-01

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

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EROSION & SEDIMENT CONTROL NOTES

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 : ____

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 20 of 69

NO.	REVISION	DATE	BY

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

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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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND — ORI R. ADDATO — NO. 28255 — PROFESSIONAL ENGINEER

11/19/2021
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STANDARD SYMBOLS

AT-GRADE INLET PROTECTION	AGIP	ROCK OUTLET PROTECTION II	ROPII
BAFFLE BOARDS	BB	ROCK OUTLET PROTECTION III	ROPIII
CATCH BASIN INSERT	CBI	SILT FENCE	SF
CLEAR WATER DIVERSION PIPE	CWD - 12 NOTE: DESIGNATION CWD-12 REFERS TO CLEAR WATER DIVERSION WITH 12 INCH PIPE.	SILT FENCE ON PAVEMENT	SFOP
COMBINATION INLET PROTECTION	COIP	SOD	
CURB INLET PROTECTION	CIP	STABILIZED CONSTRUCTION ENTRANCE	SCE
DIVERSION FENCE	DF	STANDARD INLET PROTECTION	SIP
EARTH DIKE	A-1 PLACE DESIGNATION (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF DIKE.	STOCKPILE AREA	
EMERGENCY SPILLWAY	ES	STONE CHECK DAM	CD
FILTER BAG	FB	STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	ST-II
FILTER BERM	FB-A FB-B	SUBSURFACE DRAINS	SSD
FILTER LOG	FL-18 NOTE: DESIGNATION FL-18 REFERS TO FILTER LOG WITH 18 INCH DIAMETER.	SUMP PIT	SP
GABION INFLOW PROTECTION	GP	SUPER SILT FENCE	SSF
GABION INLET PROTECTION	GIP	TEMPORARY ACCESS CULVERT	
LIMIT OF DISTURBANCE	LOD	TEMPORARY ASPHALT BERM	TAB
MEDIAN INLET PROTECTION	MIP	TEMPORARY BARRIER DIVERSION	TBD
MEDIAN SUMP INLET PROTECTION	MSIP	TEMPORARY GABION OUTLET STRUCTURE	TGOS
MOUNTABLE BERM	MB	TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
PERIMETER DIKE/SWALE	PDS-1	TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY STONE OUTLET STRUCTURE	TSOS
PIPE OUTLET SEDIMENT TRAP ST I	ST-I	TEMPORARY SWALE	A-1 PLACE DESIGNATION (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF SWALE.
PIPE SLOPE DRAIN	PSD - 12 NOTE: DESIGNATION PSD-12 REFERS TO PIPE SLOPE DRAIN WITH 12 IN PIPE	WASH RACK OPTION	WR
PLUNGE POOL	PP	CHESAPEAKE BAY CRITICAL AREA	CBCA
PORTABLE SEDIMENT TANK	PST	DRAINAGE BOUNDARY	DA
REMOVABLE PUMPING STATION	RPS	EXISTING CONTOURS	- 100 -
RIPRAP INFLOW PROTECTION	RRP	PROPOSED CONTOURS	100
RIPRAP OUTLET SEDIMENT TRAP ST III	ST-III	TREE PROTECTION FENCE	TPF
ROCK OUTLET PROTECTION I	ROPI	WETLAND	
		WETLAND BUFFER	B
		100-YEAR FLOODPLAIN	

GENERAL NOTES

1. CONSTRUCTION CAN OCCUR COINCIDENTALLY OR ANY ORDER THE CONTRACTOR CHOOSES AS LONG AS APPROVALS ARE IN PLACE.
2. REMOVE WATER THAT POOLS WITHIN ANY AREA OF EXCAVATION WITH SUMP PIT, PUMP, AND FILTER BAG.
3. WEATHER SHOULD BE MONITORED TO ENSURE CONSTRUCTION OF PROPOSED DRAINAGE FACILITIES ARE DONE IN A DAY WITH NO EXPECTED RAINFALL. PROPOSED DRAINAGE FACILITIES SHOULD BE CONSTRUCTED WITHIN ONE WORK DAY.
4. SITE SHOULD BE STABILIZED AT THE END OF EACH WORK DAY.
5. OBTAIN WRITTEN APPROVAL FROM MCDPS INSPECTOR, PRIOR TO THE REMOVAL OF ANY SEDIMENT CONTROL DEVICES FOR EACH SEQUENCE.
6. PLANT AND VEGETATE SITE AS SHOWN ON LANDSCAPE PLAN.
7. STABILIZE SITE AND GET WRITTEN APPROVAL FROM MCDPS INSPECTOR TO REMOVE REMAINING SEDIMENT CONTROL DEVICES.

SEQUENCE OF CONSTRUCTION

1. PRIOR TO CLEARING OF 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), 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 TOCOMMENCING ANY WORK.
2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
3. THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MNCPPC INSPECTOR, CERTIFYING THAT THE LIMITS OF DISTURBANCE AND ANY TREE PROTECTION MEASURES ARE CORRECTLY MARKED AND INSTALLED PIROR TO COMMENCING AND CLEARING.
4. CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
5. INSTALL SEDIMENT CONTROL DEVICES.
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.
7. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SITE SPECIFIC IMPROVEMENTS AS FOLLOWS:
   - A. PHASE 1 - BEGINNING IN THE NW QUADRANT OF THE ROCKVILLE PIKE/OLD GEORGETOWN RD INTERSECTION, PERFORM EXCAVATION FOR THE REMOVAL OF THE EXISTING CHANNELIZATION ISLAND AND RIGHT TURN RAMP. CONSTRUCT THE PROPOSED STORM DRAIN IMPROVEMENTS. CONSTRUCT THE CURB AND GUTTER, SIDEWALK AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. PLACE FULL DEPTH PAVEMENT AND PERMANENTLY STABILIZE DISTURBED ROADSIDE AREAS AS INDIICATED ON THE LANDSCAPE PLANS.
   - B. PHASE 2 - PERFORM EXCAVATION FOR THE REMOVAL OF THE EXISTING CHANNELIZATION ISLAND AND RIGHT TURN RAMP LOCATED IN THE NE QUADRANT OF THE ROCKVILLE PIKE/OLD GEORGETOWN RD INTERSECTION. CONSTRUCT THE PROPOSED STORM DRAIN IMPROVEMENTS. CONSTRUCT THE CURB AND GUTTER, SIDEWALK AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. PLACE FULL DEPTH PAVEMENT AND PERMANENTLY STABILIZE DISTURBED ROADSIDE AREAS AS INDICATED ON THE LANDSCAPE PLANS.
   - C. PHASE 3 - CONSTRUCT PROPOSED MEDIAN ALONG OLD GEORGETOWN ROAD FROM STA. 200+97.06 TO STA. 202+88.59.
   - D. PHASE 4 - PERFORM EXCAVATION FOR THE REMOVAL OF THE EXISTING CHANNELIZATION ISLAND AND RIGHT TURN RAMP LOCATED IN THE SE QUADRANT OF THE ROCKVILLE PIKE/OLD GEORGETOWN RD INTERSECTION. CONSTUCT THE PROPOSED STORM DRAIN IMPROVEMENTS. CONSTRUCT THE CURB AND GUTTER, SIDEWALK AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. PLACE FULL DEPTH PAVEMENT AND PERMANENTLY STABILIZE DISTURBED ROADSIDE AREAS AS INDICATED ON THE LANDSCAPE PLANS.
   - E. PHASE 5 - PERFORM EXCAVATION FOR THE REMOVAL OF THE EXISTING CHANNELIZATION ISLAND AND RIGHT TURN RAMP LOCATED IN THE SW QUADRANT OF THE ROCKVILLE PIKE/OLD GEORGETOWN RD INTERSECTION. CONSTUCT THE PROPOSED STORM DRAIN IMPROVEMENTS. CONSTRUCT THE CURB AND GUTTER, SIDEWALK AND PEDESTRIAN RAMPS AS SHOWN ON THE PLANS. PLACE FULL DEPTH PAVEMENT AND PERMANENTLY STABILIZE DISTURBED ROADSIDE AREAS AS INDICATED ON THE LANDSCAPE PLANS.
8. UPON FINAL STABILIZATION AND WRITTEN APPROVAL FROM MCDPS INSPECTOR, THE PERMITTEE SHALL REMOVE THE SEDIMENT CONTROL DEVICES.
9. THE PERMITTEE SHALL SUBMIT AS-BUILT PLANS FOR REVIEW AND APPROVAL BY MCDPS.

DEPARTMENT OF PERMITTING SERVICES

Marc Elrich
County Executive

Mitra Pedoeem
Director

May 24, 2021

Ms. Lori Adgate
Stantec
6110 Frost Place
Laurel, Maryland 20707

Re: **COMBINED STORMWATER MANAGEMENT CONCEPT/*SITE DEVELOPMENT STORMWATER MANAGEMENT PLAN*** for
MD 355 at Old Georgetown Road
Preliminary Plan #: N/A
SM File #: 286756
Tract Size/Zone: 3.69 Acres
Total Concept Area: 1.41 Acres
Lots/Block: N/A
Parcel(s): N/A
Watershed: Cabin John Creek

Dear Ms. Adgate:

Based on a review by the Department of Permitting Services Review Staff, the stormwater management concept for the above-mentioned site is **acceptable**. The stormwater management concept proposes to meet required stormwater management goals via waiver of stormwater management requirements due to project restrictions.

This stormwater management concept approval is for the portion of the project that is within the Montgomery County Right-of-Way only. Portions of the project are within the MSHA right-of-way and are subject to MSHA stormwater management requirements and design guidelines. Any stormwater management practices required for this project by MSHA will be reviewed, inspected and maintained by MSHA. The MSHA approved details for these practices must be included as a part of the DPS sediment control plan set, and must be noted as approved, inspected and maintained by MSHA.

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 project.
3. All filtration media for manufactured best management practices, whether for new development or redevelopment, must consist of MDE approved material.

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

DPS Montgomery County Department of Permitting Services
2425 Reedie Drive, 7th Floor, Wheaton, Maryland 20902 | 240-777-0311
www.montgomerycountymd.gov/permittingservices

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

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 Etheridge

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

MCE: DN 286756

cc: SM File # 286756

ESD: Required/Provided 6274 cf / 0 cf
PE: Target/Achieved: 1.8"/0.0"
STRUCTURAL: 0 cf
WAIVED: Full Waiver.

11/19/2021
U:\2026\13204\700 CADD\701 Sheet\Phase 2\pES-N002_WFMetro.dgn

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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND · LORI R. ADGATE · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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 :

SC-13 OF SC-17 | ESC-02

WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

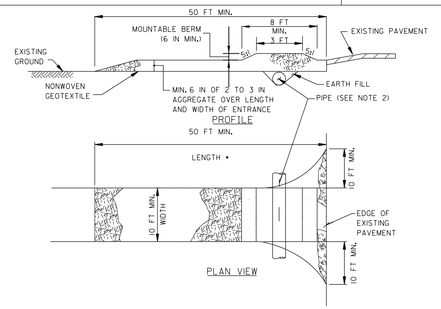
EROSION & SEDIMENT
CONTROL NOTES

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 21 of 69

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

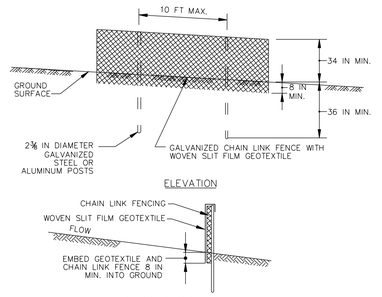
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	201 1	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-3 SUPER SILT FENCE [1]

STANDARD SYMBOL: SSF



CONSTRUCTION SPECIFICATIONS

1. INSTALL 2¾ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.

2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2¾ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HOG RINGS.

3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SUMMARY OF EARTHWORK

CLASS I EXCAVATION	
EXCAVATION	2,312
TOP SOIL REMOVED UNDER FILL	0
ROOTMAT REMOVED UNDER FILL	11
TOTAL CLASS I EXCAVATION	2,323
CLASS IA EXCAVATION	
UNSUITABLE MATERIAL	0
TOTAL CLASS IA EXCAVATION	0
EXCAVATION AVAILABLE FOR EMBANKMENT	
TOTAL CLASS I EXCAVATION	2,323
MINUS: UNUSABLE EX PAVEMENT MATERIAL	1,301
TOPSOIL REMOVED IN CUT	0
ROOTMAT REMOVED IN CUT	11
TOPSOIL REMOVED IN FILL	0
ROOTMAT REMOVED IN FILL	0
SOIL EXCAVATION ADJUSTED	1,022
SOIL EXCAVATION DENSIFIED (0.85)	869
CLASS I EXCAVATION AVAILABLE FOR EMBANKMENT	869

EROSION AND SEDIMENT CONTROL EXCAVATION	
E&S EXCAVATION (ORIGINAL AND CLEANOUT)	0
MINUS: E&S EXCAVATION NOT AVAILABLE FOR EMBANKMENT (CLEAN OUT)	0
E&S EXCAVATION ADJUSTED	0
E&S EXCAVATION DENSIFIED (0.83)	0
EROSION AND SEDIMENT CONTROL AVAILABLE FOR EMBANKMENT	0
EMBANKMENT REQUIRED	
EMBANKMENT FOR SIDE SLOPES	1,022
BACKFILL FOR REMOVAL OF MISC. EXISTING ROADWAY ITEMS (IE. PAVEMENT, SIDEWALK)	346
BACKFILL FOR TOPSOIL REMOVED UNDER FILL	0
BACKFILL FOR ROOTMAT REMOVED UNDER FILL	11
TOTAL EMBANKMENT REQUIRED	1,379
BALANCE	
TOTAL EMBANKMENT REQUIRED	1,379
MINUS: CLASS I EXCAVATION AVAILABLE FOR EMBANKMENT	869
EROSION AND SEDIMENT CONTROL EXCAVATION AVAILABLE FOR EMBANKMENT	0
BALANCE	510

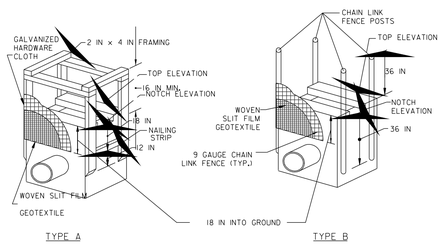
NOTES:

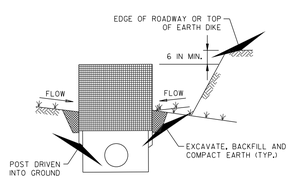
1.) ALL EXCAVATION ON THIS PROJECT SHALL BE CONSIDERED CLASS I. NO SEPARATE MEASUREMENT OF CLASS 2 EXCAVATION WILL BE MADE.

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

TYPE A MAXIMUM DRAINAGE AREA = ¼ ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE





1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.

2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.

3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ½ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

FOR TYPE B, USE 2¾ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.

4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.

5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

2 OF 2

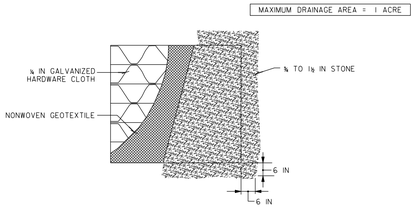
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL: AGIP

MAXIMUM DRAINAGE AREA = 1 ACRE



CONSTRUCTION SPECIFICATIONS

1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.

2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.

3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.

4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

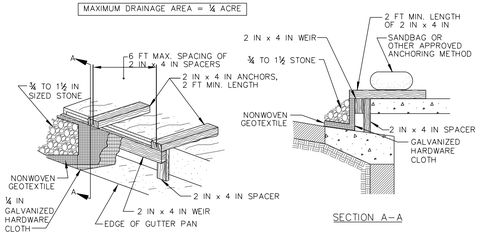
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP

MAXIMUM DRAINAGE AREA = ¼ ACRE



CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¼ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND · ORI R. ADGIE · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

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

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

Designed by : Drawn by : Checked by :

SC-14 OF SC-17 | ESC-03

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EROSION & SEDIMENT CONTROL DETAILS & EARTHWORK SUMMARY

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 22 of 69

11/19/2021
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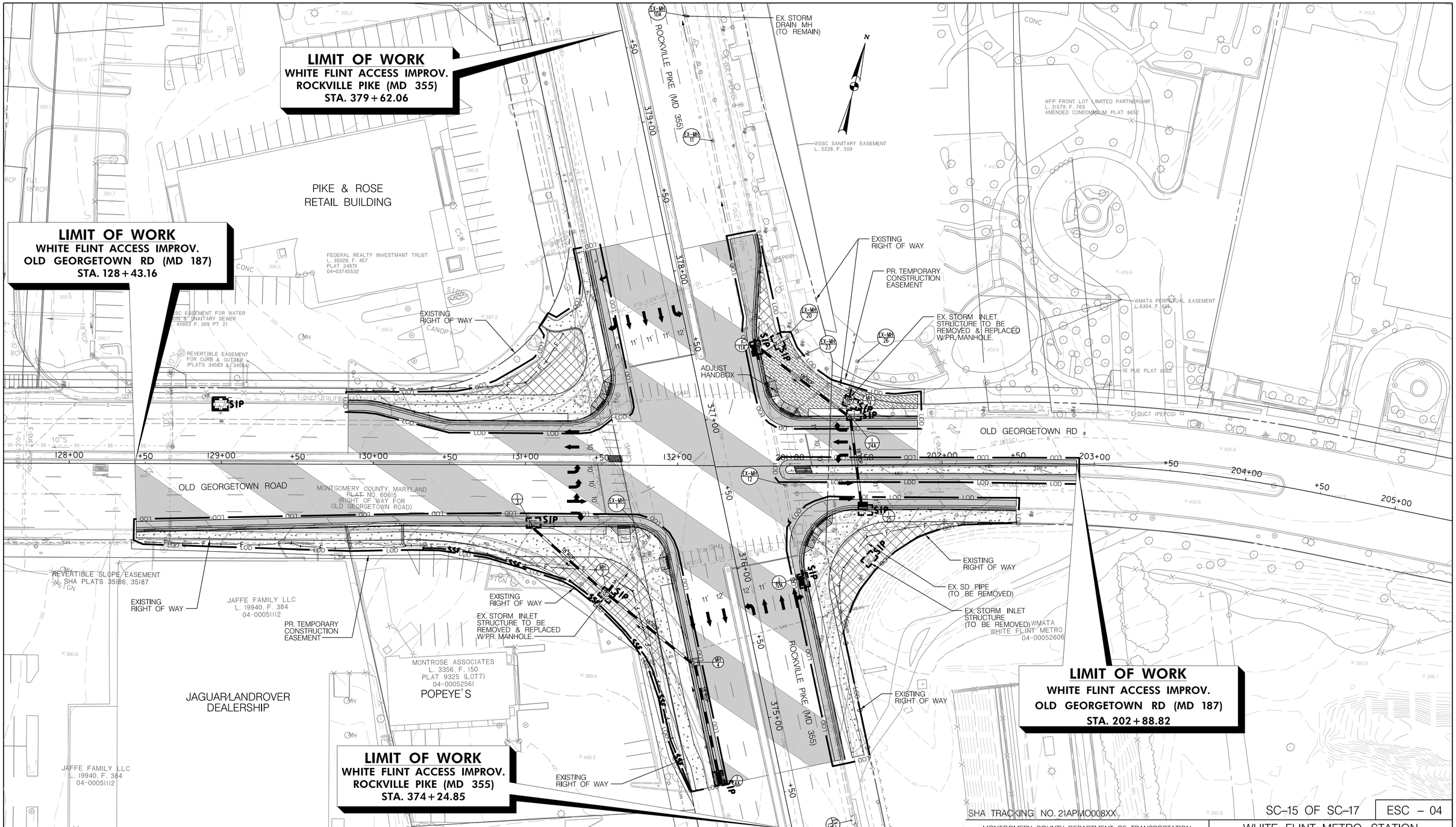

LEGEND

- FULL-DEPTH ASPHALT PAVEMENT
- MILL & OVERLAY
- REMOVAL OF EX. CURB, SIDEWALK, PAVEMENT
- CONCRETE SIDEWALK
- BRICK SIDEWALK
- EX. RIGHT OF WAY

SHA TRACKING NO. 21APMO008XX

SC-15 OF SC-17 | ESC - 04

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 : ____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

EROSION & SEDIMENT CONTROL PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 23 of 69

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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND — LORI R. ADGATE — No. 28255 — PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

11/19/2021
U:\2026213204\700 CADD\701 Sheet\Phase 2\pES-P001_WFMetro.dgn

PIKE & ROSE
RETAIL BUILDING
PLAT 24671
04-03745532

ROCKVILLE PIKE (MD 355)

OLD GEORGETOWN ROAD

MONTGOMERY COUNTY, MARYLAND
PLAT NO. 60615
(RIGHT OF WAY FOR
OLD GEORGETOWN ROAD)

JAFFE FAMILY LLC
L. 19940, F. 384
04-00051112

MONTROSE ASSOCIATES
L. 3356, F. 150
PLAT 9325 (LOT7)
04-00052561

POPEYE'S

JAGUAR/LANDROVER
DEALERSHIP

WFP FRONT LOT LIMITED PARTNERSHIP
L. 21570, F. 763
AMENDED CONDOMINIUM PLAT 8652

WMATA
04-00052606

WSSC EASEMENT FOR WATER MAIN & SNAITARY SEWER (L. 45663 F. 369 PT 2)

REVERTIBLE EASEMENT FOR CURB & GUTTER (PLATS 34583 & 34584)

REVERTIBLE SLOPE EASEMENT SHA PLATS 35186, 35187

WSSC SANITARY EASEMENT L. 5228, F. 559

WMATA PERPETUAL EASEMENT L.5304, F. 164

10' PUE PLAT 8652

11" ZELKOVA /GOOD
TURFGRASS ESTABLISHMENT (TE) 14 SY
TEMPORARY ORANGE CONSTRUCTION FENCE 28 LF
13" ZELKOVA /FAIR /EXPOSED ROOT
TURFGRASS SOD ESTABLISHMENT (TE) 36 SY
TEMPORARY ORANGE CONSTRUCTION FENCE 141 LF
2 ULP
3 ULP
TURFGRASS ESTABLISHMENT (TE) 214 SY
7" CHINESE ELM /GOOD
TURFGRASS SOD ESTABLISHMENT (TE) 60 SY
9" ZELKOVA /GOOD
7" CHINESE ELM /GOOD

12" LONDON PLANE TREE /GOOD
TPF COINCIDES WITH LOD LINE (TYP.)
TEMPORARY ORANGE CONSTRUCTION FENCE 87 LF
12" LONDON PLANE TREE
TURFGRASS SOD ESTABLISHMENT (TE) 56 SY
2 AA
13" LONDON PLANE TREE /GOOD
TURFGRASS SOD ESTABLISHMENT (TE) 48 SY
2 CCA

4 CCA
TURFGRASS SOD ESTABLISHMENT (TE) 39 SY
TURFGRASS SOD ESTABLISHMENT (TE) 86 SY
7" CRAB APPLE /GOOD
TURFGRASS ESTABLISHMENT (TE) 317 SY
8" CRAB APPLE /GOOD
3 AA
9" CRAB APPLE /GOOD
TURFGRASS SOD ESTABLISHMENT (TE) 129 SY
TEMPORARY ORANGE CONSTRUCTION FENCE 193 LF
7" CRAB APPLE /GOOD
7" CRAB APPLE /GOOD

TURFGRASS SOD ESTABLISHMENT (TE) 2 SY
TURFGRASS ESTABLISHMENT (TE) 257 SY
TURFGRASS SOD ESTABLISHMENT (TE) 85 SY
2 AA

PLANTING SCHEDULE - PLD-01					
KEY	QTY.	SCIENTIFIC / COMMON NAME	ROOT BALL	SIZE	REMARKS
AA	7	Amelanchier arborea / Downy Serviceberry	B&B	2" cal. min	Small tree / Central leader
CCA	6	Cercis canadensis / Eastern Redbud	B&B	2" cal. min	Small tree / Central leader
ULP	5	Ulmus parvifolia 'Dynasty' / Chinese Elm	B&B	2" cal. min	Medium tree / Central leader

NOTE:
1. TEMPORARY ORANGE CONSTRUCTION FENCE FOR TREE PROTECTION SHOULD BE PLACED ON THE LOD LINE DURING THE INSTALLATION. SHOWN OFF-SET FOR DRAWING READABILITY ONLY.

SCALE: 1" = 30'

LANDSCAPE LEGENDS

PROPOSED TREES
EXISTING TREES
TREE PROTECTION FENCE (TEMPORARY ORANGE CONSTRUNCTION FENCE
SIDE WALK
TURFGRASS ESTABLISHMENT
TURFGRASS SOD ESTABLISHMENT
EXISTING RIGHT OF WAY

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

LANDSCAPE ARCHITECT 3190
KATHLEEN RENDEL DANIEL
STATE OF MARYLAND

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

SC-16 OF SC-17

LP-01

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 :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

LANDSCAPING PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 24 of 69

11/19/2021
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NOTES

7.1 LANDSCAPE NOTES. LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA SHALL CONFORM TO THESE NOTES. FOR GUIDANCE REGARDING DESIGN MODIFICATIONS DURING CONSTRUCTION, REFER TO SHA LANDSCAPE DESIGN GUIDE, SHA LANDSCAPE ESTIMATING MANUAL, AND SHA ENVIRONMENTAL GUIDE FOR ACCESS AND DISTRICT PERMIT APPLICANTS AT HTTP://WWW.ROADS.MARYLAND.GOV/INDEX.ASPX?PAGEID=25

7.2 SHA STANDARD SPECIFICATIONS. LANDSCAPE CONSTRUCTION SHALL CONFORM TO SECTIONS 701 THROUGH 716, AND LANDSCAPE MATERIALS SHALL CONFORM TO SECTION 920 OF THE MOST RECENT REVISION OF SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, INCLUDING ALL REVISIONS AND SUPPLEMENTS, AND AS SPECIFIED IN THESE NOTES. THESE REQUIREMENTS SHALL SUPERSEDE ALL OTHER SPECIFICATIONS FOR WORK ON SHA PROPERTY. ALL SHA SPECIFICATIONS FOR LANDSCAPING AND LANDSCAPE MATERIALS PUBLISHED IN 2008 HAVE BEEN REPLACED. CURRENT SPECIFICATIONS ARE A HTTP://WWW.ROADS.MARYLAND.GOV/INDEX.ASPX?PAGEID=44

7.3 EROSION AND SEDIMENT CONTROL MANAGER (ESCM). SOIL DISTURBANCE SUCH AS GRADING, EXCAVATION, SOIL PLACEMENT OR OTHER ACTIVITIES THAT INVOLVE SOIL DISTURBANCE SHALL BE SUPERVISED BY AN ESCM MANAGER WITH A VALID "SHA YELLOW CARD" IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS AND ANY APPLICABLE EROSION AND SEDIMENT CONTROL PERMIT.

7.4 SHA STANDARD DETAILS FOR TREES, SHRUBS AND PLANTING BEDS. THE INSTALLATION OF TREES, SHRUBS, PLANTING BEDS AND OTHER LANDSCAPE CONSTRUCTION RELATED TO SECTION 710 OF THE SHA STANDARD SPECIFICATIONS SHALL CONFORM TO THE "SHA BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES - CATEGORY 7" AT HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDSSPECS/DESMANUALSTDPUB /PUBLICATIONSONLINE/OHD/BOOKSTD/TOCCAT7.ASP

7.5 TEMPORARY STABILIZATION SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 704 TO ENSURE THAT AREAS OF SOIL DISTURBANCE ARE PROTECTED FROM WIND, RAINFALL AND FLOWING WATER UNTIL PERMANENT STABILIZATION IS INSTALLED.

7.6 ROADWAY PAVEMENT REMOVAL. AREAS OF ROADWAY REMOVAL SHALL BE EXCAVATED TO REMOVED PAVEMENTS, AGGREGATE BASE, AND COMPACTED SOIL TO A MINIMUM DEPTH OF 10 INCHES BELOW THE PAVEMENT SURFACE OR AS NECESSARY TO REMOVE ALL MATERIAL UNSUITABLE FOR LANDSCAPING. THE EXCAVATION AREAS SHALL BE RESTORED WITH SUBSOIL AND TOPSOIL AS PART OF SOIL RESTORATION.

1. TEMPORARY MULCH, EITHER AS TEMPORARY STRAW MULCH OR TEMPORARY MATTING MULCH, SHALL BE INSTALLED AT THE END OF EACH WORKING DAY TO PROVIDE "SAME DAY STABILIZATION" UNLESS OTHER APPROVED STABILIZATION IS INSTALLED.
2. TEMPORARY STRAW MULCH SHALL BE INSTALLED ON AREAS AND SLOPES FLATTER THAN 4:1 TEMPORARY MATTING MULCH SHALL BE APPLIED ON SLOPES 4:1 AND STEEPER, AND TO AREAS WITIN CHANNELS.
3. TEMPORARY SEED SHALL BE INSTALLED IN LIEU OF TEMPORARY MULCH WHEN SOIL REDISTURBANCE IS EXPECTED MORE THAN 30 DAYS AFTER SOIL DISTURBANCE. THE REQUIRED APPLICATION RATE SHALL BE 100 LBS PER ACRE OF 37-0-0 (SCU) FERTILIZER.

7.7 EXCAVATION AND DEBRIS REMOVAL. DEBRIS RELATED TO THE DEMOLITION OF SIDEWALKS, DRIVEWAYS, CURBS, TREES, STUMPS, ROOTS, FENCING, PIPES, AND OTHER MATERIALS THAT MAY INTERFERE WITH LANDSCAPE INSTALLATION OR FUTURE MAINTENANCE SHALL BE EXCAVATED AS NECESSARY FOR THEIR COMPLETE REMOVAL AND DISPOSAL.

7.8 SOIL RESTORATION. AREAS OF PAVEMENT REMOVAL, EXCAVATION OR DRILLING IN LANDSCAPED AREAS SHALL REMOVE EXCAVATED DEBRIS AND RESTORE THE SUBGRADE WITH APPROVED SUBSOIL AND TOPSOIL PLACED IN CONFORMANCE WITH SECTION 701 OF THE SHA STANDARD SPECIFICATIONS.

1. A LAYER OF APPROVED TOPSOIL AT LEAST 4 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS FLATTER THAN 2:1 AND IN ALL CHANNELS PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED.
2. A LAYER OF APPROVED TOPSOIL AT LEAST 2 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS 2:1 AND STEEPER PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED,
3. BIORETENTION SOIL MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 - STORMWATER FILTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE SHA LANDSCAPE NOTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN BSM IN CONFORMANCE WITH STORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.

7.9 TURFGRASS SOD ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 708 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO MARCH 1.

7.10 TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 705 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO MARCH 1.

7.11 SOIL STABILIZATION MATTING SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 709 OF THE SHA STANDARD SPECIFICATIONS, IN CONJUCTION WITH TRUFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER SECTION 707 AS FOLLOWS:

1. AREAS FLATTER THAN 6:1. TYPE A OR TYPE E MATTING MAY BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUCTION WITH TURFGRASS ESTABLISHMENT.
2. AREAS STEEEPER THAN 6:1 AND FLATTER THAN 4:1. TYPE A OR TYPE E MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDORMULCH BINDER IN CONJUCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.
3. CHANNELS, STORMWATER MANAGEMENT FACILITIES, AND SLOPES 4:1 AND STEEPER TYPE A SOIL STABILIZATION MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDR IN CONJUCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.

7.14 ROADSIDE TREE PERMIT. TREE REMOVAL, TREE INSTALLATION, TREE ROOT AND BRANCH PRUNING, AND OTHER REGULATED IMPACTS TO TREES IN THE SHA RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE ROADSIDE TREE PERMIT (RTP) OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION ACT PLAN OF THE LOCAL AUTHORITY.

1. A COPY OF THE RTP OR FCP SHALL BE SUBMITTED TO THE SHA OFFICE OF ENVIRONMENTAL DESIGN BEFORE WORK IS PERFORMED, AND A COPY OF THE RTP OR FCP SHALL BE REPRODUCED IN THE PLANS OR BE IN POSSESSION OF THE APPLICANT AT THE PROJECT SITE WHEN THE PERMITTED WORK IS PERFORMED.
2. A MARYLAND LICENSED TREE EXPERT SHALL PERFORM THE SPECIFIED TREE OPERATIONS IN CONFORMANCE WITH THE SHA STANDARD SPECIFICATIONS AND ANSI A300 STANDARDS FOR TREE CARE OPERATIONS.

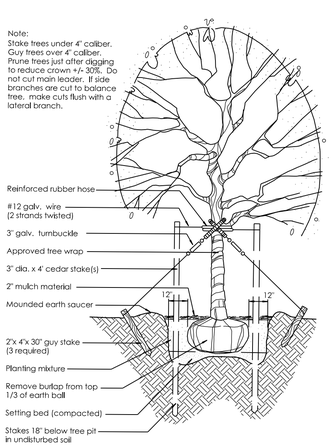
7.15 TREES AND OTHER PLANT MATERIAL INSTALLATION. TREES, SHRUBS, PERENNIALS, ANNUALS, BULBS, LANDSCAPE BEDS, BARK MULCH AND SIMILAR MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 710 AND 711 OF THE SHA STANDARD SPECIFICATIONS. TREE AND SHRUBS SHALL BE PRUNED AT THE TIME OF INSTALLATION TO ENSURE SIDEWALK CLEARANCE FOR PEDESTRIANS IS MAINTAINED TO A HEIGHT OF 8 FEET. NO TREE OR SHRUB SHALL BE INSTALLED WITHIN 3 FEET OF CURBS, SIDEWALKS, OR PAVEMENT EDGES.

PLANTING SCHEDULE - PLD-01

KEY	QTY.	SCIENTIFIC / COMMON NAME	ROOT BALL	SIZE	REMARKS
AA	7	Amelanchier arborea / Downy Serviceberry	B&B	2" cal. min	Small tree / Central leader
CCA	6	Cercis canadensis / Eastern Redbud	B&B	2" cal. min	Small tree / Central leader
ULP	5	Ulmus parvifolia 'Dynasty' / Chinese Elm	B&B	2" cal. min	Medium tree / Central leader

MASTER LANDSCAPE 700 ITEMS

QTY	UNIT	CAT. CODE	ITEM	SHA SPECS
1341	SY	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
800	SY	705405	TEMPORARY SEED	704
800	SY	705500	TURFGRASS ESTABLISHMENT	705
800	SY	709100	TYPE A SOIL STABILIZATION MATTING	709
541	SY	708220	TURFGRASS SOD ESTABLISHMENT	708
800	SY	705412	TEMPORARY MULCH	704
541	SY	705565	REFERTILIZING	705
449	LF	715050	TREE ROOT PRUNING	715
449	LF	120784	TEMPORARY ORANGE CONSTRUCTION FENCE	120



PLANTING DETAIL/DECIDUOUS TREES
NOT TO SCALE

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

Stantec
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LAUREL, MARYLAND 20707
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LICENSE NO: _____ EXPIRATION DATE: _____

LANDSCAPE ARCHITECT
3190
KATHLEEN RENDEL DANIEL
STATE OF MARYLAND

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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 : _____

SC–17 OF SC–17 | LP–02

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

LANDSCAPING NOTES & DETAILS

SCALE : 1" = 30' DATE : JAN 2021

Project No. : 502106 SHEET 25 of 69

11/19/2021
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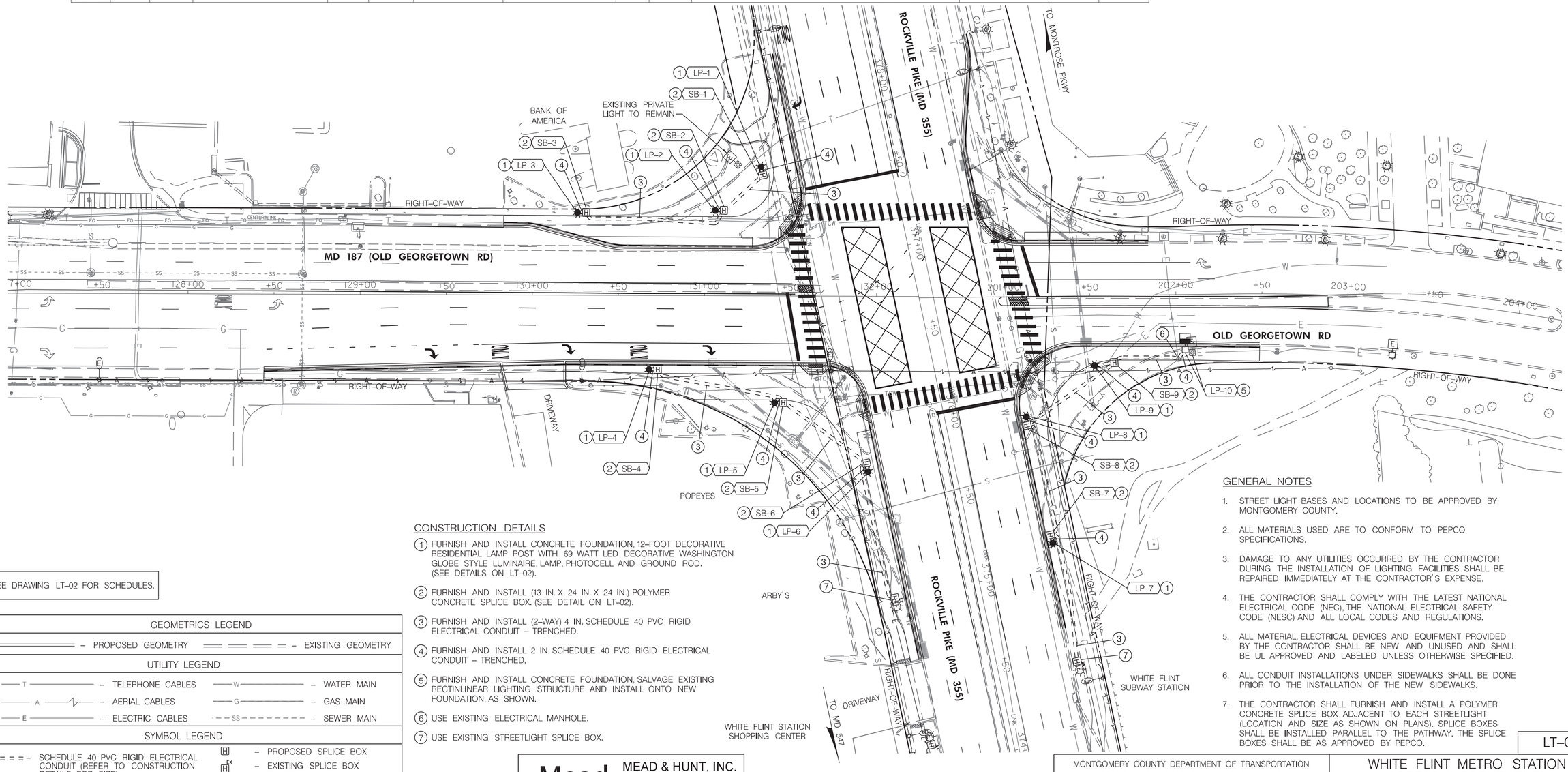
PROPOSED PEDESTRIAN LIGHT POLE SCHEDULE

POLE NO.	MAPGRID	MCPOLEID	STREET NAME	WATTAGE	LAMP TYPE	LUMINARE STYLE	POLE STYLE	ARM	FEED TYPE	ADDRESS	STATION AND OFFSET	NORTHING	EASTING
LP-1			MD 355 (ROCKVILLE PIKE)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	SB ROCKVILLE PIKE, 1ST LIGHT SOUTH OF OLD GEORGETOWN ROAD			
LP-2			MD 187 (OLD GEORGETOWN ROAD)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	WB OLD GEORGETOWN ROAD, 1ST LIGHT WEST OF ROCKVILLE PIKE			
LP-3			MD 187 (OLD GEORGETOWN ROAD)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	WB OLD GEORGETOWN ROAD, 2ND LIGHT WEST OF ROCKVILLE PIKE			
LP-4			MD 187 (OLD GEORGETOWN ROAD)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	EB OLD GEORGETOWN ROAD, 2ND LIGHT WEST OF ROCKVILLE PIKE			
LP-5			MD 187 (OLD GEORGETOWN ROAD)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	EB OLD GEORGETOWN ROAD, 1ST LIGHT WEST OF ROCKVILLE PIKE			
LP-6			MD 355 (ROCKVILLE PIKE)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	SB ROCKVILLE PIKE, 1ST LIGHT SOUTH OF OLD GEORGETOWN ROAD			
LP-7			MD 355 (ROCKVILLE PIKE)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	NB ROCKVILLE PIKE, 2ND LIGHT SOUTH OF OLD GEORGETOWN ROAD			
LP-8			MD 355 (ROCKVILLE PIKE)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	NB ROCKVILLE PIKE, 1ST LIGHT SOUTH OF OLD GEORGETOWN ROAD			
LP-9			MD 187 (OLD GEORGETOWN ROAD)	69	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	N/A	UG	EB OLD GEORGETOWN ROAD, 1ST LIGHT EAST OF ROCKVILLE PIKE			
LP-10			MD 187 (OLD GEORGETOWN ROAD)	N/A	N/A	EXISTING RECTILINEAR	EXISTING	10'	UG	EB OLD GEORGETOWN ROAD, 2ND LIGHT EAST OF ROCKVILLE PIKE			

PROPOSED SPLICE BOX SCHEDULE

SB NO.	STATION AND OFFSET
SB-1	
SB-2	
SB-3	
SB-4	
SB-5	
SB-6	
SB-7	
SB-8	
SB-9	



SEE DRAWING LT-02 FOR SCHEDULES.

GEOMETRICS LEGEND

– PROPOSED GEOMETRY – EXISTING GEOMETRY

UTILITY LEGEND

– TELEPHONE CABLES – WATER MAIN
– AERIAL CABLES – GAS MAIN
– ELECTRIC CABLES – SEWER MAIN

SYMBOL LEGEND

– SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT (REFER TO CONSTRUCTION DETAILS FOR SIZE)
– PROPOSED DECORATIVE STREET LIGHT POLE AND LUMINAIRE
– EXISTING RECTILINEAR STREET LIGHT TO BE SALVAGED AND RELOCATED
– EXISTING RECTILINEAR STREET LIGHT TO BE REMAIN
– RELOCATED RECTILINEAR STREET LIGHT
– PROPOSED SPLICE BOX
– EXISTING SPLICE BOX TO REMAIN
– EXISTING ROADWAY STREET LIGHT TO REMAIN
– EXISTING LEASED LIGHT TO REMAIN
– EXISTING DECORATIVE STREET LIGHT TO REMAIN
SB-1 – SPLICE BOX ID NO.
LP-1 – STREET LIGHT POLE ID NO.

CONSTRUCTION DETAILS

1. FURNISH AND INSTALL CONCRETE FOUNDATION, 12-FOOT DECORATIVE RESIDENTIAL LAMP POST WITH 69 WATT LED DECORATIVE WASHINGTON GLOBE STYLE LUMINAIRE, LAMP, PHOTOCELL AND GROUND ROD. (SEE DETAILS ON LT-02).
2. FURNISH AND INSTALL (13 IN. X 24 IN. X 24 IN.) POLYMER CONCRETE SPLICE BOX. (SEE DETAIL ON LT-02).
3. FURNISH AND INSTALL (2-WAY) 4 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT – TRENCHED.
4. FURNISH AND INSTALL 2 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT – TRENCHED.
5. FURNISH AND INSTALL CONCRETE FOUNDATION, SALVAGE EXISTING RECTINLINEAR LIGHTING STRUCTURE AND INSTALL ONTO NEW FOUNDATION, AS SHOWN.
6. USE EXISTING ELECTRICAL MANHOLE.
7. USE EXISTING STREETLIGHT SPLICE BOX.

GENERAL NOTES

1. STREET LIGHT BASES AND LOCATIONS TO BE APPROVED BY MONTGOMERY COUNTY.
2. ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS.
3. DAMAGE TO ANY UTILITIES OCCURRED BY THE CONTRACTOR DURING THE INSTALLATION OF LIGHTING FACILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND ALL LOCAL CODES AND REGULATIONS.
5. ALL MATERIAL, ELECTRICAL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AND SHALL BE UL APPROVED AND LABELED UNLESS OTHERWISE SPECIFIED.
6. ALL CONDUIT INSTALLATIONS UNDER SIDEWALKS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE NEW SIDEWALKS.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL A POLYMER CONCRETE SPLICE BOX ADJACENT TO EACH STREETLIGHT (LOCATION AND SIZE AS SHOWN ON PLANS). SPLICE BOXES SHALL BE INSTALLED PARALLEL TO THE PATHWAY. THE SPLICE BOXES SHALL BE AS APPROVED BY PEPCO.

LT-01

Mead & Hunt

MEAD & HUNT, INC.
7055 SAMUEL MORSE DRIVE
SUITE 100
COLUMBIA, MD 21046
(443) 741-3500
WWW.MEADHUNT.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: 27451 EXPIRATION DATE: 01-23-2022

STATE OF MARYLAND — SHAOJIA DU — NO. 27451 — PROFESSIONAL ENGINEER
Date: 2021.11.16 12:07:05 -05'00' Digitally signed by Shaojia Du

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

NO.	REVISION	DATE	BY

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 : WJF Drawn by : WJF Checked by : JW

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

LIGHTING PLAN

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 26 of 69

11/16/2021
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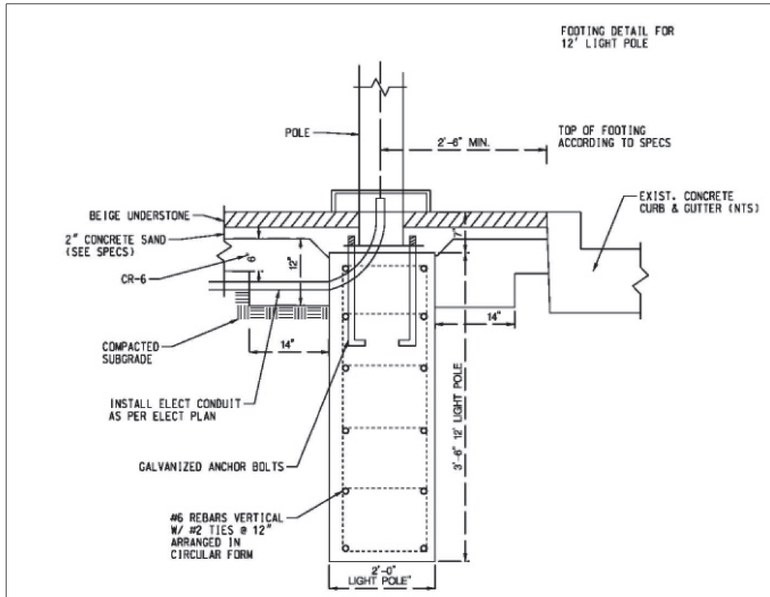
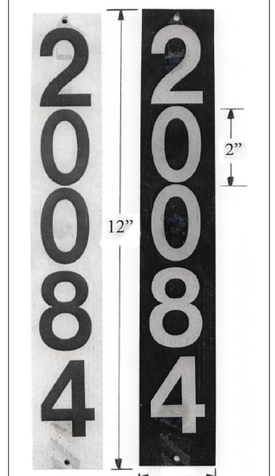
STREETLIGHT CONDUIT INSTALLATION CHECKLIST

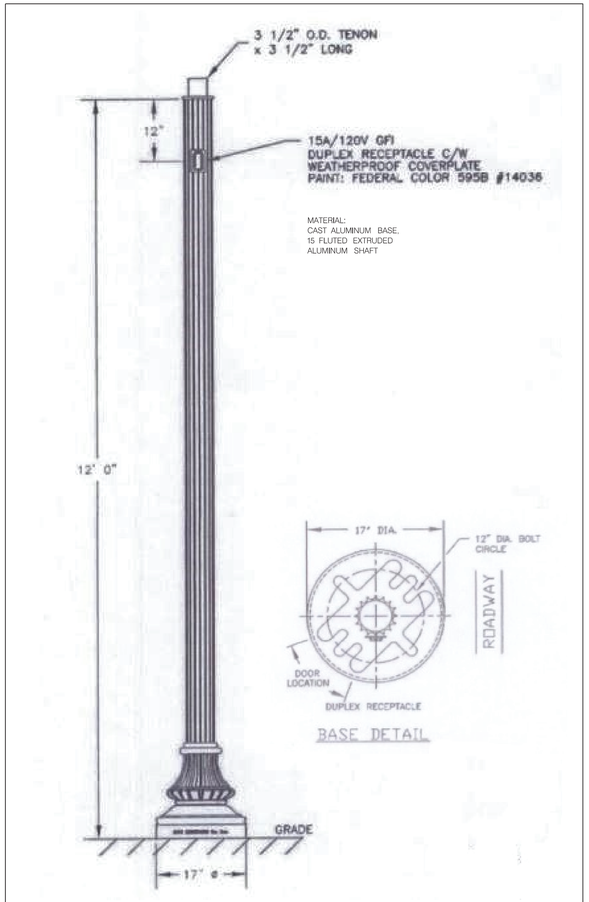
1. 2-WAY FOUR INCH (4"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.
2. TWO INCH (2"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING THE SPLICEBOX TO THE STREET LIGHT FOOTING.
3. CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELLS FOR EACH STREET LIGHT LUMINAIRE.
4. STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH #10 AWG (MIN.) COPPER WITH A THREE FOOT MINIMUM LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.
5. STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF #6 AWG BARE COPPER WIRE ATTACHED.
6. ALL SWEEPBENDS TO BE MINIMUM OF 24 INCHES RADIUS.
7. 1/4" NYLON PULL-LINES IS TO BE INSTALLED IN EACH CONDUIT DUCT.
8. CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1") ABOVE EACH CONDUIT RUN.
9. NO MORE THAN 180 DEGREES OF BENDS IN A CONDUIT RUN.
10. CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM) OF COVER OVER IT.
11. INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL (202) 388-2137 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
12. ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MONTGOMERY COUNTY FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE SPECIAL PROVISIONS FOR STREETLIGHT SPECIFICATIONS.
13. ALL STREETLIGHTS SHALL BE INSTALLED 2'-6" BEHIND THE FACE OF THE CURB (EXCEPT AS NOTED ON PLANS).
14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS / CATALOG CUTS FOR ALL LIGHTING EQUIPMENT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO INSTALLATION.



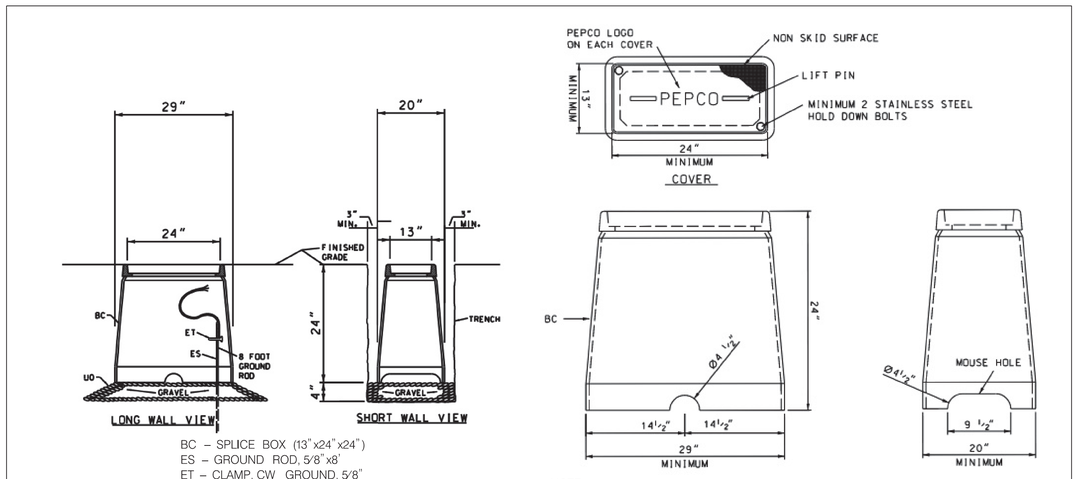
PROPOSED LIGHT POLE FOUNDATION



PROPOSED LIGHT POLE NUMBERING TAG



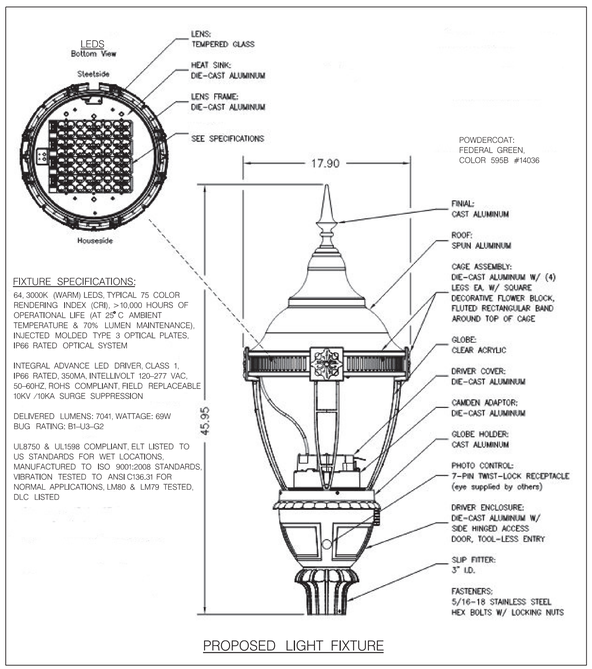
PROPOSED LIGHT POLE



BC – SPLICE BOX (13"x24"x24")
ES – GROUND ROD, 5/8"x8'
ET – CLAMP, CW GROUND, 5/8"
UQ – BANK RUN GRAVEL

NOTE:
SPLICE BOX SHALL BE DESIGNED FOR LIGHT TRUCK LOADING PER ASTM C857.

PROPOSED (13"x24"x24") STREETLIGHT SPLICE BOX



FIXTURE SPECIFICATIONS:

64, 3000K (WARM) LEDS, TYPICAL 75 COLOR RENDERING INDEX (CRI), >10,000 HOURS OF OPERATIONAL LIFE (AT 25°C AMBIENT TEMPERATURE & 70% LUMEN MAINTENANCE), INJECTED MOLDED TYPE 3 OPTICAL PLATES, IP66 RATED OPTICAL SYSTEM

INTEGRAL ADVANCE LED DRIVER, CLASS 1, IP66 RATED, 3SOMA, INTELLIVOLT 120-277 VAC, 50-60HZ, ROHS COMPLIANT, FIELD REPLACEABLE 10KV /10KA SURGE SUPPRESSION

DELIVERED LUMENS: 7041, WATTAGE: 69W
BUG RATING: B1-U3-G2

UL8750 & UL1598 COMPLIANT, ELT LISTED TO US STANDARDS FOR WET LOCATIONS, MANUFACTURED TO ISO 9001:2008 STANDARDS, VIBRATION TESTED TO ANSI C136.31 FOR NORMAL APPLICATIONS, LM80 & LM79 TESTED, DLC LISTED

PROPOSED LIGHT FIXTURE

LT-02

Mead & Hunt

MEAD & HUNT, INC.
7055 SAMUEL MORSE DRIVE
SUITE 100
COLUMBIA, MD 21046
(443) 741-3500
WWW.MEADHUNT.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: 27451 EXPIRATION DATE: 01-23-2022

STATE OF MARYLAND · SHAOJIA DU · NO. 27451 · PROFESSIONAL ENGINEER
Date: 2021.11.16 08:22:05-05'00'
Digitally signed by Shaojia Du

NO.	REVISION	DATE	BY

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 : WJF Drawn by : WJF Checked by : JW

WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

LIGHTING NOTES
AND DETAILS

SCALE : NONE DATE : NOV 2021

Project No. : 502106 SHEET 27 of 69

11/16/2021
X:\466226\202088.01\TECH\CAD\drawings\Lighting\Phase 2\pLT-S002-WFMetro - Phase 2.dgn

NOTE: MD 355 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNS TO REMAIN

25a Old Georgetown RD (11700) — 25b Old Georgetown RD (11700)
D-3(1) (VAR.x16") DUAL FACE

29a Rockville PIKE (11800) — 29b Rockville PIKE (11800)
D-3(1) (VAR.x16") DUAL FACE

EXISTING SIGNS TO BE REMOVED

60b Old Georgetown RD (11700) — 60a Old Georgetown RD (11700)
D-3(1) (VAR.x16") DUAL FACE

62b Rockville PIKE (11800) — 62a Rockville PIKE (11800)
D-3(1) (VAR.x16") DUAL FACE

61
ONLY
R3-5(L) (30"x36")

64,66
PUSH BUTTON TO CROSS Rockville Pike
START CROSSING WATCH FOR TURNING CARS
DON'T START FINISH CROSSING IF STARTED
TIME REMAINING TO FINISH CROSSING
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"
67,68,70

63,65
PUSH BUTTON TO CROSS Rockville Pike
START CROSSING WATCH FOR TURNING CARS
DON'T START FINISH CROSSING IF STARTED
TIME REMAINING TO FINISH CROSSING
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"
69

PUSH BUTTON TO CROSS Old Georgetown Rd
START CROSSING WATCH FOR TURNING CARS
DON'T START FINISH CROSSING IF STARTED
TIME REMAINING TO FINISH CROSSING
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

PUSH BUTTON TO CROSS Old Georgetown Rd
START CROSSING WATCH FOR TURNING CARS
DON'T START FINISH CROSSING IF STARTED
TIME REMAINING TO FINISH CROSSING
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

EXISTING SIGNALS TO BE REMOVED

2a, 3a,4a, 14a, 5a,7a — 12"

9a,13a 15a-22a — 16" LED COUNTDOWN PEDESTRIAN SIGNAL — 12"

a1,d1 EXISTING VIDEO DETECTION TO BE REMOVED

b,c EXISTING VIDEO DETECTION

EXISTING SIGNALS TO REMAIN

1, 8,11 — 12"

10 — 12"

e EXISTING OPTICOM DETECTION

27,28 ONLY R3-5(L) (30"x36")

30 R3-6(L) (30"x36")

PROPOSED SIGNALS

2,5,6 — 12"

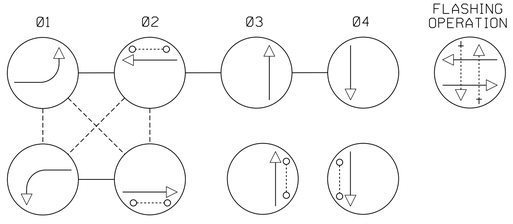
3,4, 7,14 — 12"

9,13 — 12"

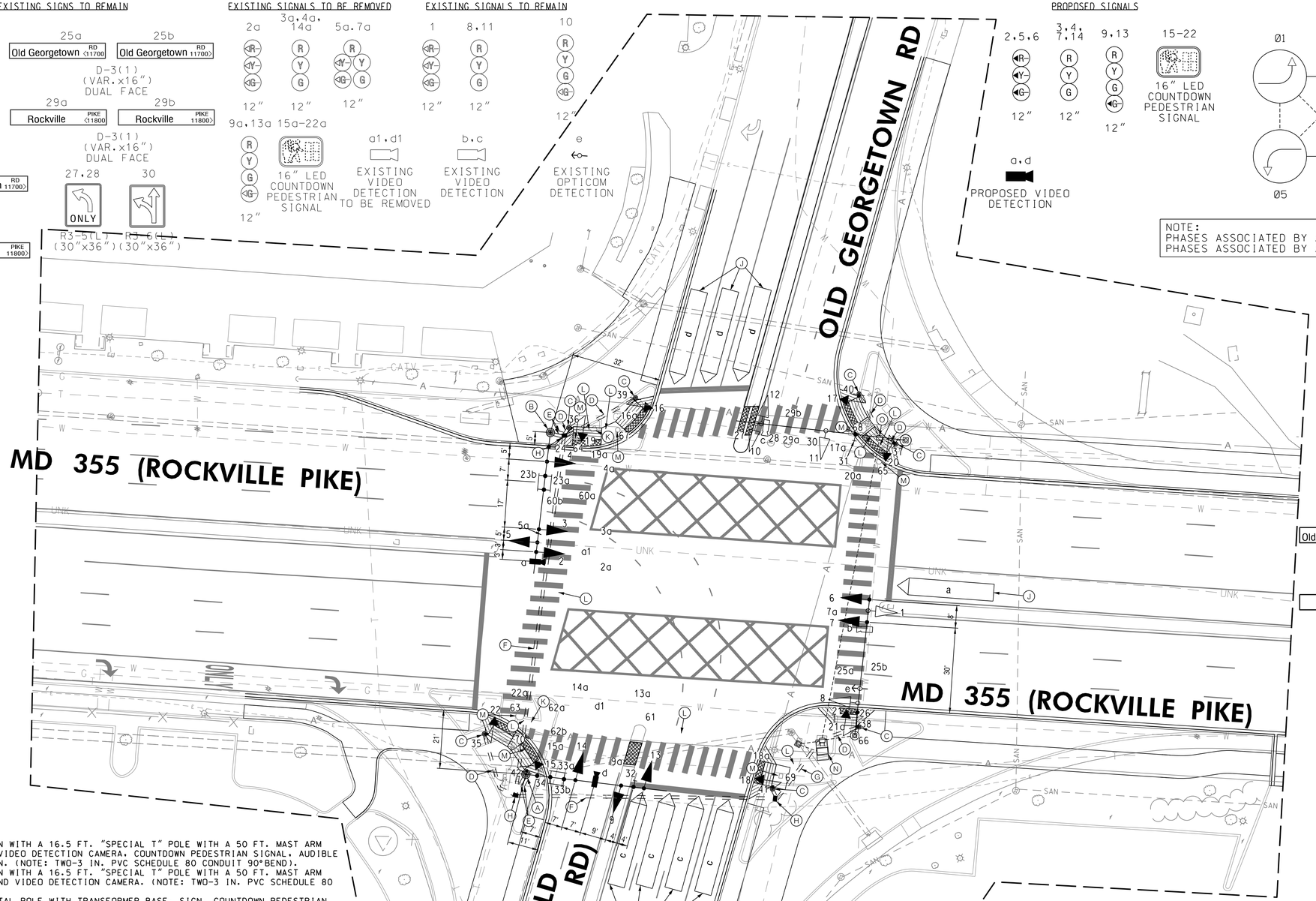
15-22 16" LED COUNTDOWN PEDESTRIAN SIGNAL

a,d PROPOSED VIDEO DETECTION

NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



36,38
PUSH BUTTON TO CROSS ROCKVILLE PIKE
START CROSSING Watch For Turning Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

35,37
PUSH BUTTON TO CROSS ROCKVILLE PIKE
START CROSSING Watch For Turning Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

40,42
PUSH BUTTON TO CROSS OLD GEORGETOWN RD
START CROSSING Watch For Turning Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

39,41
PUSH BUTTON TO CROSS OLD GEORGETOWN RD
START CROSSING Watch For Turning Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
STREET NAME IN BRAILLE TYPE 2
R10-3(1) 9" x 15"

23b Old Georgetown RD (11700) — 23a Old Georgetown RD (11700)
D-3(1) (VAR.x16") DUAL FACE

33b Rockville PIKE (11800) — 33a Rockville PIKE (11800)
D-3(1) (VAR.x16") DUAL FACE

32
ONLY
R3-5(L) (30"x36")

24,26,31,34
NO TURN ON RED
R10-11b (30"x30")

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. "SPECIAL T" POLE WITH A 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: TWO-3 IN. PVC SCHEDULE 80 CONDUIT 90°BEND).
B. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. "SPECIAL T" POLE WITH A 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA. (NOTE: TWO-3 IN. PVC SCHEDULE 80 CONDUIT 90°BEND).
C. INSTALL 10 FT. STEEL PEDESTAL POLE WITH TRANSFORMER BASE, SIGN, COUNTDOWN PEDESTRIAN HEAD, AND AUDIABLE/TACTILE PEDESTRIAN PUSHBUTTON. (NOTE: ONE-2 IN. PVC SCHEDULE 80 CONDUIT 90°BEND).
D. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (TRENCHED DURING SIDEWALK CONSTRUCTION AS NECESSARY).
E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (TRENCHED DURING SIDEWALK CONSTRUCTION AS NECESSARY).
F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED (TRENCHED DURING SIDEWALK CONSTRUCTION AS NECESSARY).
H. INSTALL HANDHOLE.
J. PROPOSED VIDEO DETECTOR ZONE.
K. REMOVE EXISTING HANDHOLE.
L. CAP AND ABANDON EXISTING CONDUIT.
M. REMOVE EXISTING SIGNAL POLE AND ALL ATTACHED EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE.
N. USE EXISTING CABINET AND CONTROLLER.
O. ADJUST HANDHOLE TO GRADE AND INSTALL NEW FRAME AND COVER.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD STORM DRAIN
G GAS MAIN
W WATER MAIN
S SEWER MAIN
E ELECTRIC CABLES
A AERIAL CABLES
T TELEPHONE CABLES
F FIBER-OPTIC

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: _____

STATE OF MARYLAND ROBERT JAMES MILSTEAD No. 17172 PROFESSIONAL ENGINEER
ORIGINAL ON FILE

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS
A 11/2021 TIMS xxxxx SIGNAL MODIFICATION DUE TO NEW GEOMETRICS RJM
B Signalized WB leg of Old Georgetown Rd due to revised geometrics 7-23-03 RRZ
C RECONSTRUCT TRAFFIC WITH APS AND CPS SHA NO: MO2825185 6-18-07

SHA TRACKING NO. 21APMO008XX

SG01

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (ROCKVILLE PIKE) AND
MD 187 (OLD GEORGETOWN RD)

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE _____ CONTRACT NO. BW-480-802-312

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY MC DOT LOGMILE 15018705.32
CHECKED BY _____ TIMS NO. XXXXX
F.A.P. NO. SEE TITLE SHEET TOD NO. _____

TS NO. 3262D | DRAWING SG- 01 OF 02 | SHEET NO. 28 OF 69

11/19/2021
U:\2026213204\700 CADD\701 Sheet\Phase 2\pSG-P001_WFMetro.dgn

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 (ROCKVILLE PIKE) AND MD 187 (OLD GEORGETOWN RD) IN MONTGOMERY COUNTY.

THE MODIFICATIONS INCLUDE TWO NEW MAST ARM POLES AND NEW PEDESTRIAN POLES WITH PEDESTRAIN SIGNALS AND AUDIBLE PUSHBUTTONS.

MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA 6-PHASE, SEMI-ACTUATED MODE, WITH THE MD 355 (ROCKVILLE PIKE) APPROACHES RUNNING CONCURRENTLY. AN EXCLUSIVE LEFT TURN PHASE SHALL BE PROVIDED FOR NORTHBOUND AND SOUTHBOUND APPROACHES OF MD 355 (ROCKVILLE PIKE). A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION SHALL BE PROVIDED ACCROSS THE NORTH AND SOUTH LEGS OF MD 355 (ROCKVILLE PIKE) WITH A LEADING PEDESTRIAN INTERVAL. THE MD 187 (OLD GEORGETOWN ROAD APPROACHES SHALL OPERATE AS A SIDE STREET SPLIT PHASE. A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION SHALL BE PROVIDED ACCROSS THE EAST AND WEST LEGS OF MD 187 (OLD GEORGETOWN ROAD) WITH A LEADING PEDESTRIAN INTERVAL.

III. CONTROLLER REQUIREMENTS

MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL THE APS CONTROL UNIT INTO THE CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO THE MONTGOMERY COUNTY SIGNAL SHOP FOR TESTING AND PROGRAMMING.

GENERAL NOTES

1. FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE; OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ADMINISTRATION STANDARDS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
4. FOR MONTGOMERY COUNTY PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE VIDEO INTERFACE EQUIPMENT TO THE MONTGOMERY COUNTY SIGNAL SHOP. COUNTY FORCES WILL COMPLETE THE RETROFIT WORK IN THE EXISTING CABINET.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
6. THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
7. DURING CONSTRUCTION, PROPOSED SIGNAL EQUIPMENT SHALL NOT BLOCK EXISTING SIGNAL EQUIPMENT
8. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR

PROJECT CONTACT LIST

DISTRICT #	OFFICE OF TRAFFIC AND SAFETY
MR. DEREK GUNN DISTRICT 3 ENGINEER 301-513-7498	<NAME> CHIEF, TRAFFIC OPERATIONS 410-787-7630
VACANT (MO) ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7498	REBECCA LICHTENSTEIN, P.E. ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7625
MR. MARK LOEFFLER DISTRICT ENGINEER - UTILITIES 301-513-7350	MR. MIKE BASSO SECTION CHIEF, SIGNAL OPERATIONS SECTION 410-787-7650/7652
MR. JOHN GOVER ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336	<NAME> SECTION CHIEF, SIGN OPERATIONS SECTION 410-787-7676
MR. GREGORY EDWARDS ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304	MR. MICHAEL BOYLE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION:

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR:

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
801605	59 SF	SHEET ALUMINUM SIGNS
801616	60 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
802146	1 EA	ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER
802501	396 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	220 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805125	99 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	28 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	27 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
811001	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816003	2 EA	HD IP-BASED VIDEO DETECTION CAMERA AND ANY LENGTH LEAD-IN CABLE
818004	7 EA	10 FOOT BREAKAWAY PEDESTAL POLE
818462	2 EA	MAST ARM POLE AND 50 FOOT MAST ARM, ANY 'T' DIMENSION, FOUNDATION AND GROUND ROD
860272	46 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	8 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
861105	1344 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1785 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1241 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
865210	8 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
873002	1 LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

MAINTENANCE OF TRAFFIC NOTE

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL:

STANDARD NO. 104.03-01 (MULTI-LANE UNDIVIDED SHOULDER WORK)
STANDARD NO. 104.04-01 (MULTI-LANE DIVIDED SHOULDER WORK)

ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

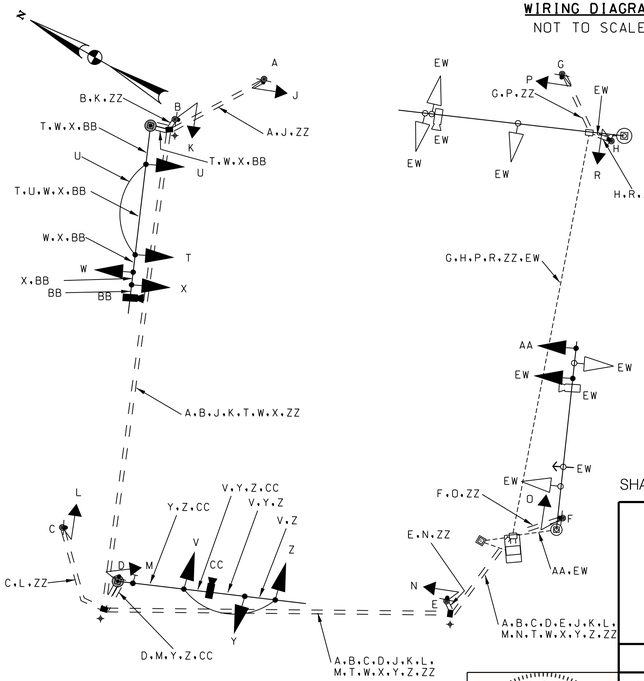
PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1 AND 5	◂G–	◂G–	R	R	◂G–	◂G–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																						
PHASE 1 AND 6	◂R–	◂R–	R	R	◂G–	◂G–	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	◂R–	◂R–	R	R	◂Y–	◂Y–	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	◂G–	◂G–	G	G	◂R–	◂R–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	◂Y–	◂Y–	G	G	◂R–	◂R–	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	◂R–	◂R–	G	G	◂R–	◂R–	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	◂R–	◂R–	G	G	◂R–	◂R–	G	G	R	R	R	R	R	R	FL DW	FL DW	FL DW	FL DW	DW	DW	DW	DW
2 AND 6 CHANGE	◂R–	◂R–	Y	Y	◂R–	◂R–	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3	◂R–	◂R–	R	R	◂R–	◂R–	R	R	◂GG	◂GG	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	◂R–	◂R–	R	R	◂R–	◂R–	R	R	◂GG	◂GG	G	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	◂GG	◂GG	G	R	R	R	DW	DW	DW	DW	FL DW	FL DW	FL DW	FL DW
3 ALT CHANGE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	◂R–	◂R–	R	R	◂R–	◂R–	R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	◂R–	◂R–	R	R	◂R–	◂R–	R	R	R	R	R	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	R	R	R	G	G	G	DW	DW	DW	DW	FL DW	FL DW	FL DW	FL DW
4 ALT CHANGE	◂R–	◂R–	R	R	◂R–	◂R–	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM

NOT TO SCALE



A,B,C,D, E,F,G,H – ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

J,K,L, M,N,O,P, R,T,U,V – ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

W,X, Y,Z,AA – ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

BB,CC – VIDEO DETECTION CABLE

ZZ – NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

EW – EXISTING WIRE

✦ – GROUND ROD

SHA TRACKING NO. 21APMO008XX

SG02

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AND MD 187 (OLD GEORGETOWN RD)

GENERAL INFORMATION SHEET

SCALE NTS ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY RJM
DRAWN BY RJM
CHECKED BY RB
F.A.P. NO. SEE TITLE SHEET

COUNTY MONTGOMERY
LOGMILE 15018705.32
TIMS NO. XXXXX
TOD NO. _____

TS NO. 3262D | DRAWING SG – 2 OF 2 | SHEET NO. 29 OF 69

Stantec
6110 FROST PLACE,
LAUREL, MARYLAND 20707
(301) 982-2800
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LICENSE NO: 17172 EXPIRATION DATE: 12/22/2022

STATE OF MARYLAND · ROBERT JAMES MILSTEAD · NO. 17172 · PROFESSIONAL ENGINEER

PLOTTED: 11/19/2021
FILE: U:\2026213204\700 CADD\701 Sheet\Phase 2\pSG-N001_WFMetro.dgn

11/19/2021
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TEMPORARY TRAFFIC CONTROL REQUIREMENTS

1. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN SECTION 6 OF THE 2011 "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MDMUTCD), MOST RECENT EDITION.

2. THE PERMITTEE MUST HAVE A CERTIFIED TRAFFIC CONTROL MANAGER ON SITE DURING ALL PHASES OF INSPECTION AND CONSTRUCTION AT ALL TIMES.

3. EACH PHASE OF INSPECTION AND CONSTRUCTION, INCLUDING THE FOLLOW UP RESTORATION OPERATIONS, SHALL BE PROVIDED WITH APPROPRIATE WORK ZONE TRAFFIC CONTROLS.

4. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS LISTED IN THE SPECIFICATIONS, MONDAY THROUGH FRIDAY. WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXEMPTION IS GRANTED IN WRITING BY THE COUNTY'S INSPECTOR.

5. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.

6. EXCLUSIVE OF EMERGENCY WORK, THE PERMITTEE SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.

7. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE 2011 MDMUTCD. ALL SIGNS, TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD. TEMPORARY SIGNS SHALL BE FLUORESCENT ORANGE.

9. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON FLUORESCENT ORANGE BACKGROUND AND DIAMOND SHAPED. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED OR COVERED DURING NON-APPLICABLE PERIODS. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE.

10. IF ANY TEMPORARY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA, THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.

11. DURING NIGHTTIME OPERATIONS REFLECTORIZED TRAFFIC DRUMS SHALL BE USED. HOWEVER, FOR EMERGENCY WORK ACTIVITIES WHERE TRAFFIC DRUMS ARE NOT AVAILABLE, REFLECTORIZED TRAFFIC CONES THAT ARE A MINIMUM OF TWENTY EIGHT (28) INCHES IN HEIGHT AND HAVING SIX (6) INCH AND FOUR (4) INCH REFLECTIVE COLLARS WITHIN THE TOP SIXTEEN (16) INCHES OF THE CONE MAY BE USED. ALL WORK AREAS LEFT UNATTENDED AT NIGHT SHALL BE DELINEATED WITH REFLECTORIZED TRAFFIC DRUMS.

12. THE PERMITEE SHALL OBTAIN A TEMPORARY NOISE WAIVER FROM THE MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR ALL NIGHTTIME CONSTRUCTION ACTIVITIES.

SEQUENCE OF CONSTRUCTION FOR MAINTENANCE OF TRAFFIC

PHASE 1
1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 1.
2. CONSTRUCT PROPOSED CURB AND SIDEWALK IMPROVEMENTS IN NORTHWEST QUADRANT.

PHASE 2
1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 2.
2. CONSTRUCT PROPOSED CURB AND SIDEWALK IMPROVEMENTS IN NORTHEAST QUADRANT.

PHASE 3
1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 3.
2. CONSTRUCT PROPOSED MEDIAN IMPROVEMENTS ON EAST LEG OF INTERSECTION.

PHASE 4
1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 4.
2. CONSTRUCT PROPOSED CURB AND SIDEWALK IMPROVEMENTS IN SOUTHEAST QUADRANT.

PHASE 5
1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 5.
2. CONSTRUCT PROPOSED CURB AND SIDEWALK IMPROVEMENTS IN SOUTHWEST QUADRANT.

INSPECTOR AUTHORITY

1. THE COUNTY'S DEPARTMENT OF PERMITTING SERVICES (DPS) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE PERMITTEE TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH.

2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

MISCELLANEOUS

1. THE PERMITTEE WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.

2. HAZARDOUS MATERIALS SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF AN OPEN SECTION ROADWAY.

3. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.

4. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

CONTACT INFORMATION

1. THE CONTRACTOR SHALL ARRANGE AND HOST A PRE-PHASE TRAFFIC SWITCH MEETING AT LEAST TWO WEEKS PRIOR TO SWITCHING TRAFFIC. THE FOLLOWING OFFICES SHALL BE NOTIFIED OF THIS MEETING AND OF THE IMPENDING TRAFFIC SWITCH:

- MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
- MONTGOMERY COUNTY TRANSPORTATION SYSTEMS ENGINEEERING TEAM AT 240-777-2100
- MONTGOMERY COUNTY TRANSIT AT 240-777-5800
- MONTGOMERY COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER
- MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
- MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
- MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES, PERMIT INSPECTION SECTION AT 240-777-6300

2. PRIOR TO ROAD CLOSURES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING OFFICES A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE:

- MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
- MONTGOMERY COUNTY EMERGENCY OPERATIONS CENTER AT 240-777-0751
- MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
- MONTGOMERY COUNTY TRANSPORTATION MANAGEMENT CENTER AT 240-777-2100
- MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
- MONTGOMERY COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER

3. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING & OPERATIONS SECTION AT 240-777-6000.

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

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(301) 982-2800
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STATE OF MARYLAND · ROBERT JAMES MILLSTEAD · NO. 17172 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

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

Designed by : Drawn by : Checked by :

MT – 01

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN GENERAL NOTES

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 30 of 69

11/19/2021
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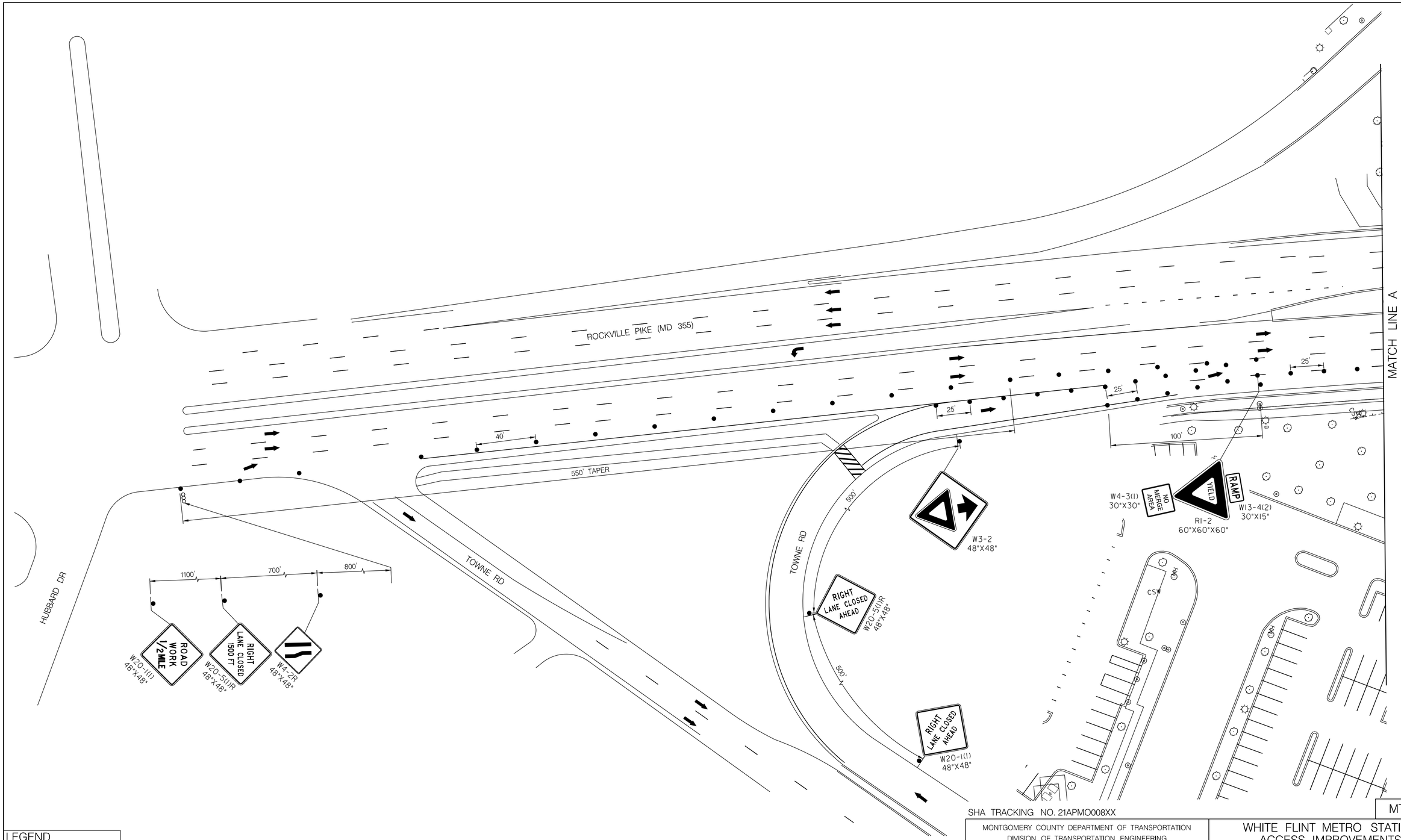

SHA TRACKING NO. 21APMO008XX

MT – 02

LEGEND

- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
- TYPE III BARRICADE

30' 0 30' 60'

SCALE: 1" = 30'

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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 :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 1

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 31 of 69

11/19/2021
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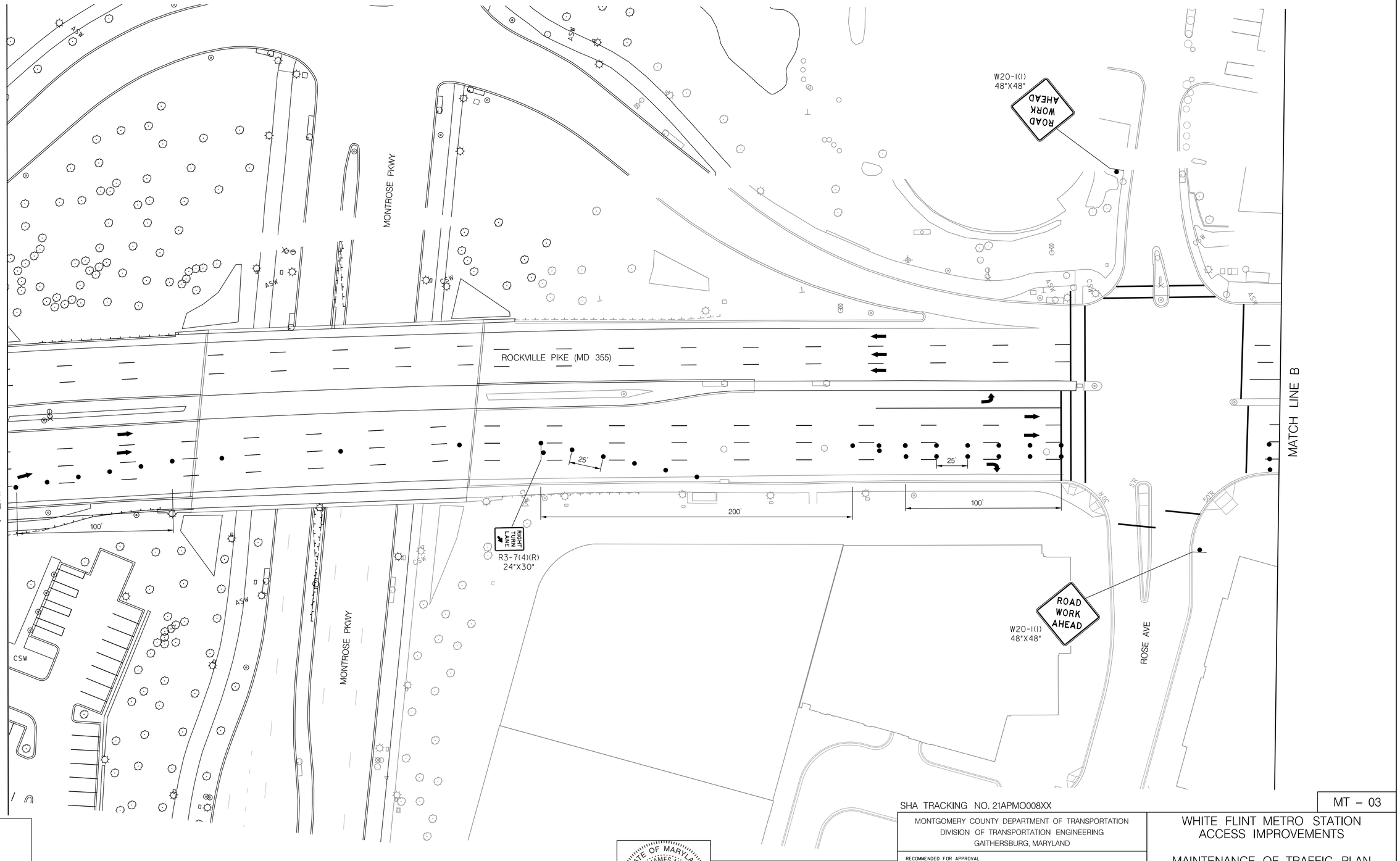

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- WORK SITE
- ARROW PANEL
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MT – 03

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN
PHASE 1

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 32 of 69

11/19/2021
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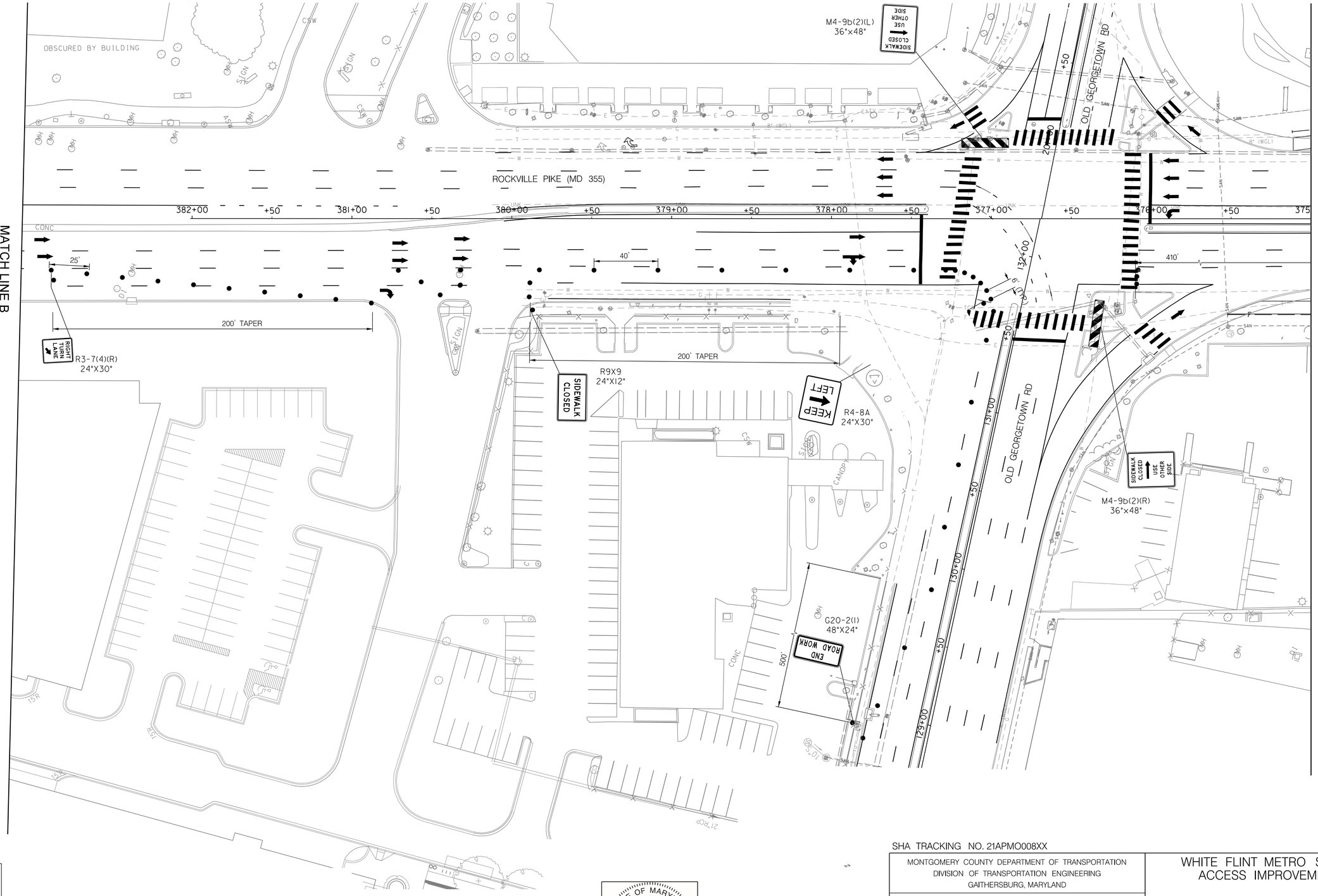

SHA TRACKING NO. 21APMO008XX

MT – 04

LEGEND

- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
- TYPE III BARRICADE

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 1

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 33 of 69

11/19/2021
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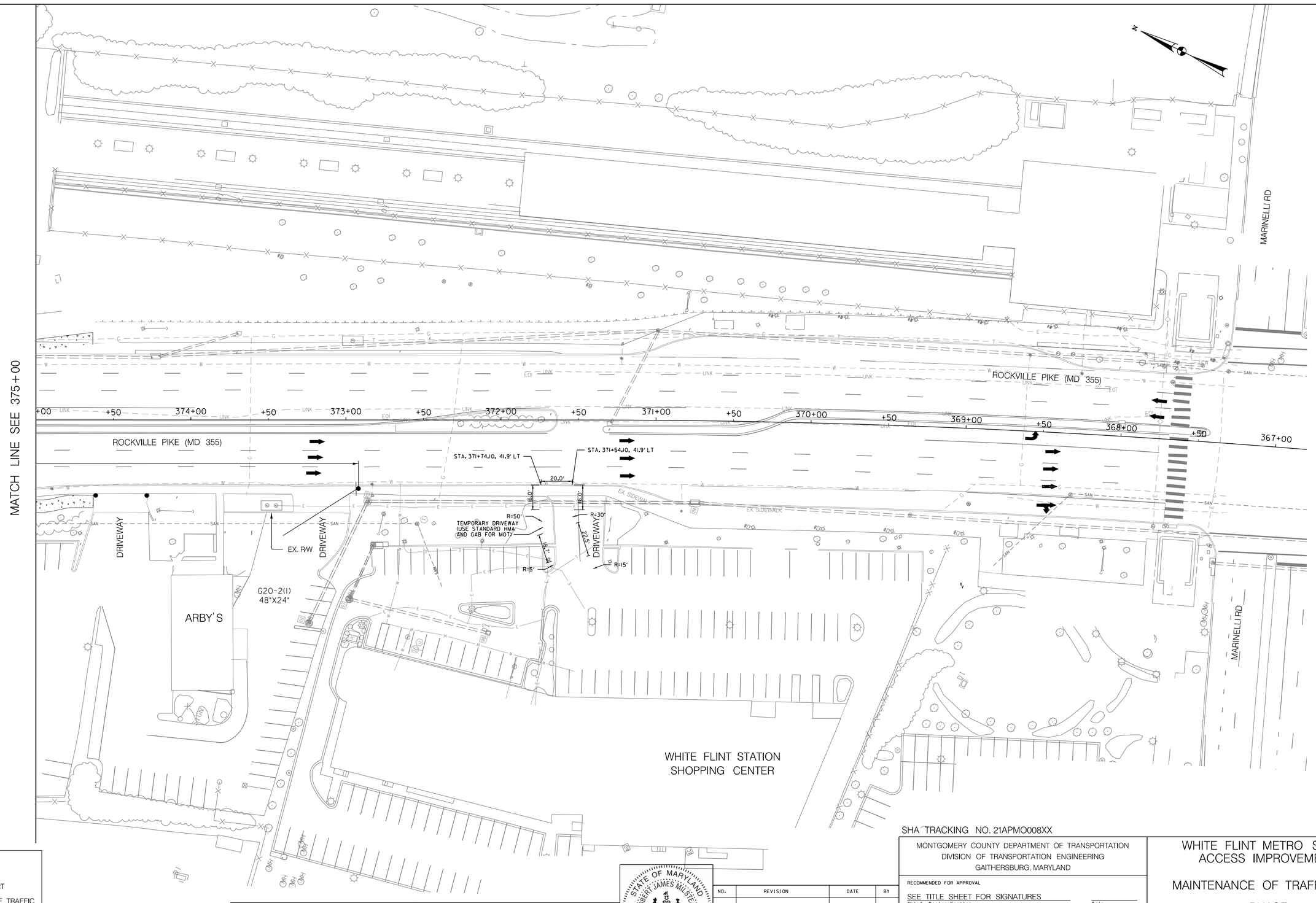

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MT – 05

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Project No. : 502106 SHEET 34 of 69

11/19/2021
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MATCH LINE 367+00

MARINELLI RD

550' TAPER

100'

200'

25'

RIGHT TURN LANE

R3-7(4)(R)
24"X30"

+00 +50 366+00 +50 365+00 +50 364+00 +50 363+00 +50 362+00 +50 361+00 +50 360+00 +50 359+00 +50 358+00

N 19° 34' 53.00" W

PC STA. 364+76.70

ROCKVILLE PIKE (MD 355)

W4-2R
48"X48"

W20-5(I)R
48"X48"
RIGHT LANE CLOSED 1500 FT

W20-1(I)
48"X48"
ROAD WORK 1/2 MILE

800'

700'

1100'

40'

W20-1(I)
48"X48"
ROAD WORK AHEAD

NICHOLSON LN

W20-1(I)
48"X48"
ROAD WORK AHEAD

MARINELLI RD

NICHOLSON LN

LEGEND

- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
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30' 0 30' 60'
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MT – 06

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Chief, Division of Transportation Engineering — Date

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 2

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 35 of 69

11/19/2021
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MATCH LINE SEE 376+00

MATCH LINE 367+00

W20-1(1)
48"X48"
ROAD WORK AHEAD

R3-7(4)(R)
24"X30"
RIGHT TURN LANE

MARINELLI RD

ROCKVILLE PIKE (MD 355)

ROCKVILLE PIKE (MD 355)

DRIVEWAY

DRIVEWAY

DRIVEWAY

EX. R/W

ARBY'S

WHITE FLINT STATION
SHOPPING CENTER

UNABLE TO LOCATE CONNECTORS STRUCTURE

MARINELLI RD

SHA TRACKING NO. 21APMO008XX

MT – 07

LEGEND
- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
- TYPE III BARRICADE

30' 0 30' 60'
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Chief, Division of Transportation Engineering — Date

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 2

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 36 of 69

11/19/2021
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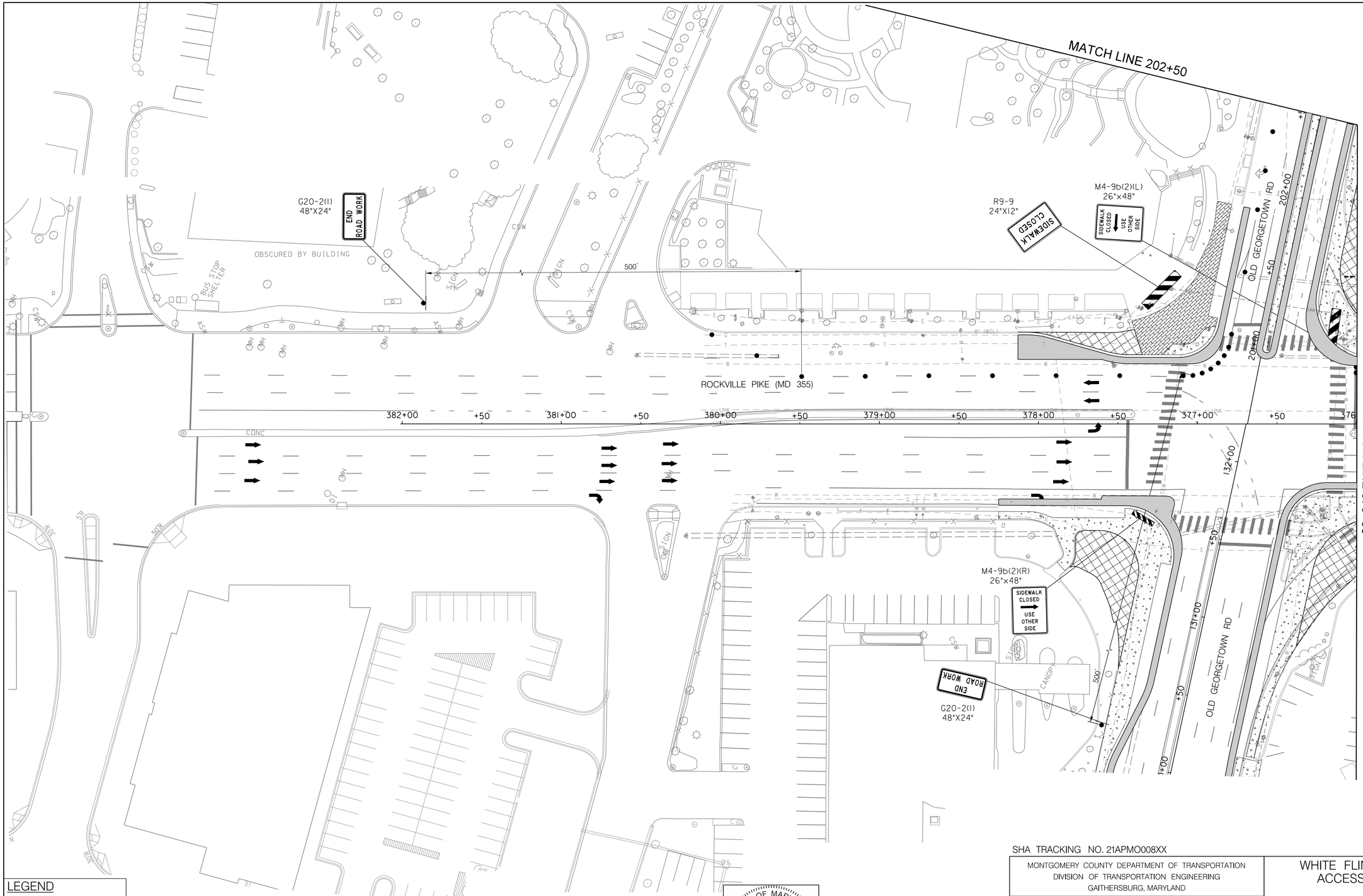

LEGEND

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MT – 08

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DIVISION OF TRANSPORTATION ENGINEERING
GAITHERSBURG, MARYLAND

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

Designed by : Drawn by : Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 2

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 37 of 69

11/19/2021
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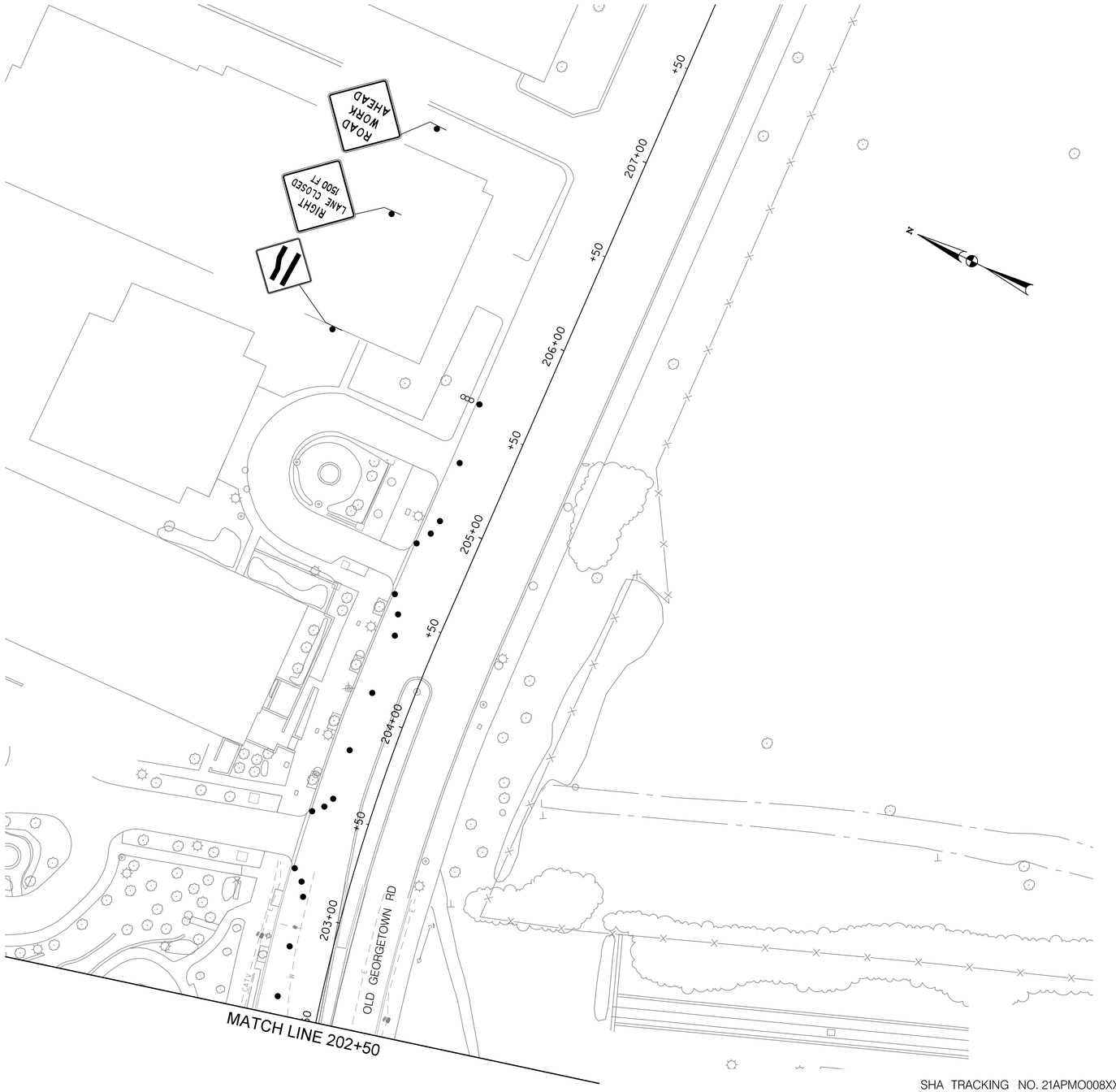

LEGEND

- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
- TYPE III BARRICADE

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

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PROFESSIONAL CERTIFICATION:
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LICENSE NO: 17172 EXPIRATION DATE: 12-12-2022

STATE OF MARYLAND
ROBERT JAMES MILSTEAD
NO. 17172
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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
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Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

MT – 09

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 2

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 38 of 69

11/19/2021
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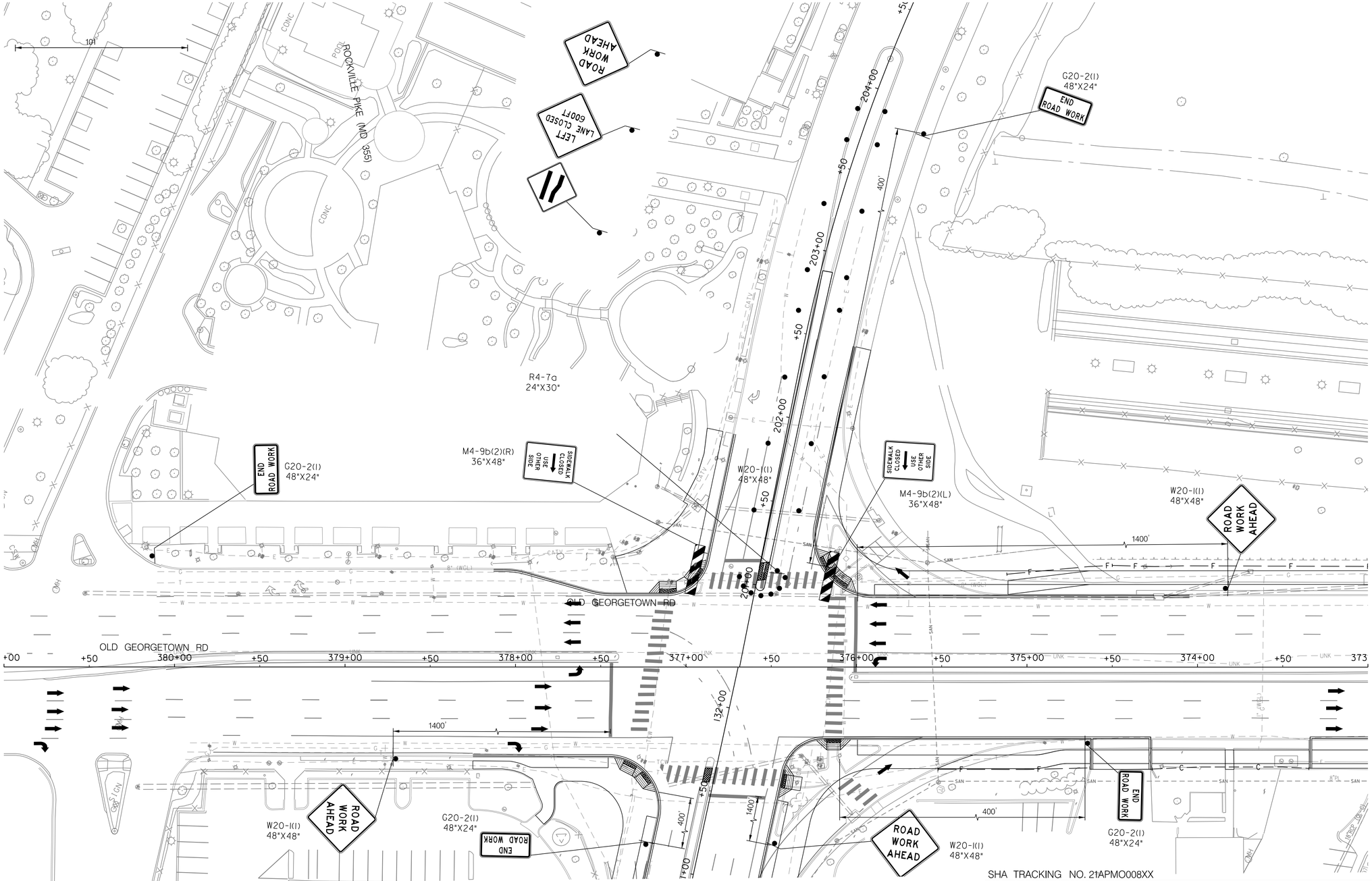

SHA TRACKING NO. 21APMO008XX

MT – 10

LEGEND

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- WORK SITE
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 3

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 39 of 69

11/19/2021
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MATCH LINE 367+00

MARINELLI RD

550' TAPER

100'

200'

25'

25'

RIGHT TURN LANE

R3-7(4)(R)
24"X30"

+00 +50 366+00 +50 365+00 +50 364+00 +50 363+00 +50 362+00 +50 361+00 +50 360+00 +50 359+00 +50 358+00

PC STA. 364+76.70

N 19° 34' 53.00" W

ROCKVILLE PIKE (MD 355)

W4-2R
48"X48"

W20-5(I)R
48"X48"
RIGHT LANE CLOSED 1500 FT

W20-1(I)
48"X48"
ROAD WORK 1/2 MILE

800'

700'

1100'

40'

W20-1(I)
48"X48"
ROAD WORK AHEAD

NICHOLSON LN

W20-1(I)
48"X48"
ROAD WORK AHEAD

MARINELLI RD

NICHOLSON LN

N

LEGEND

- DRUMS
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- DIRECTION OF TRAFFIC
- WORK SITE
- ARROW PANEL
- TYPE III BARRICADE

30' 0 30' 60'

SCALE: 1" = 30'

SHA TRACKING NO. 21APMO008XX

MT – 11

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MARYLAND

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 4

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 40 of 69

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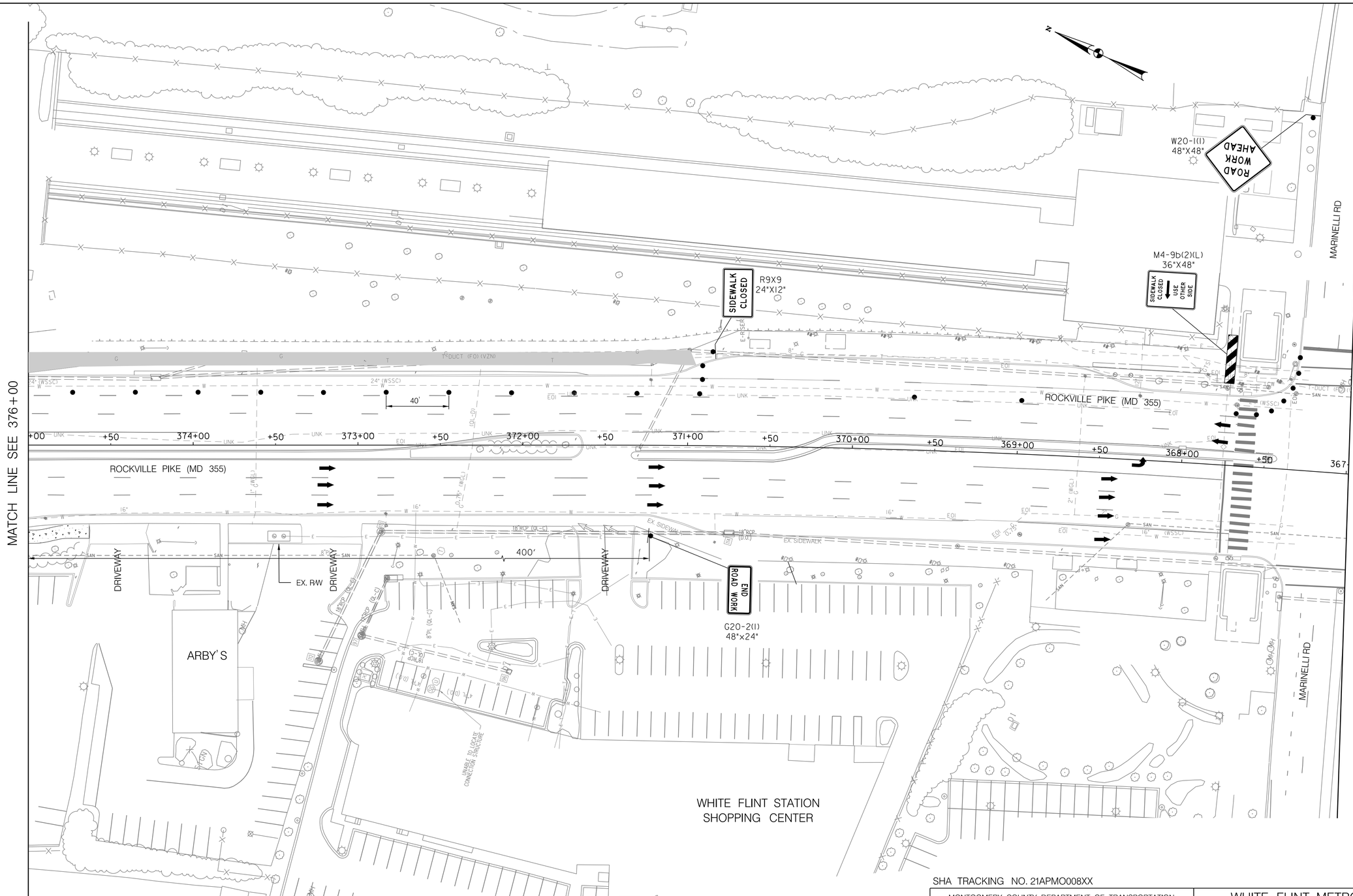

SHA TRACKING NO. 21APMO008XX

MT – 12

LEGEND
- DRUMS
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- DIRECTION OF TRAFFIC
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WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 4

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 41 of 69

11/19/2021
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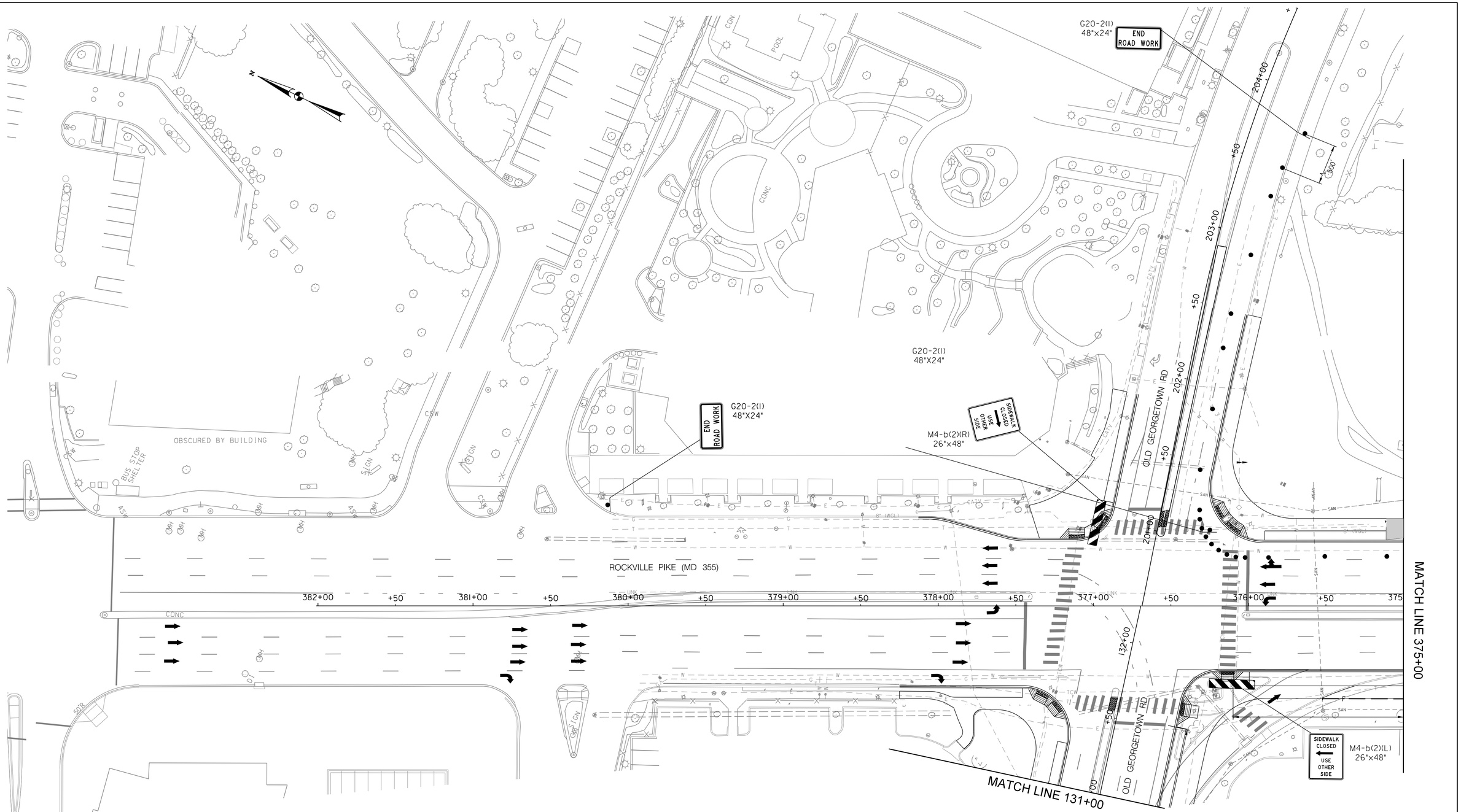

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MT – 13

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 4

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 42 of 69

11/19/2021
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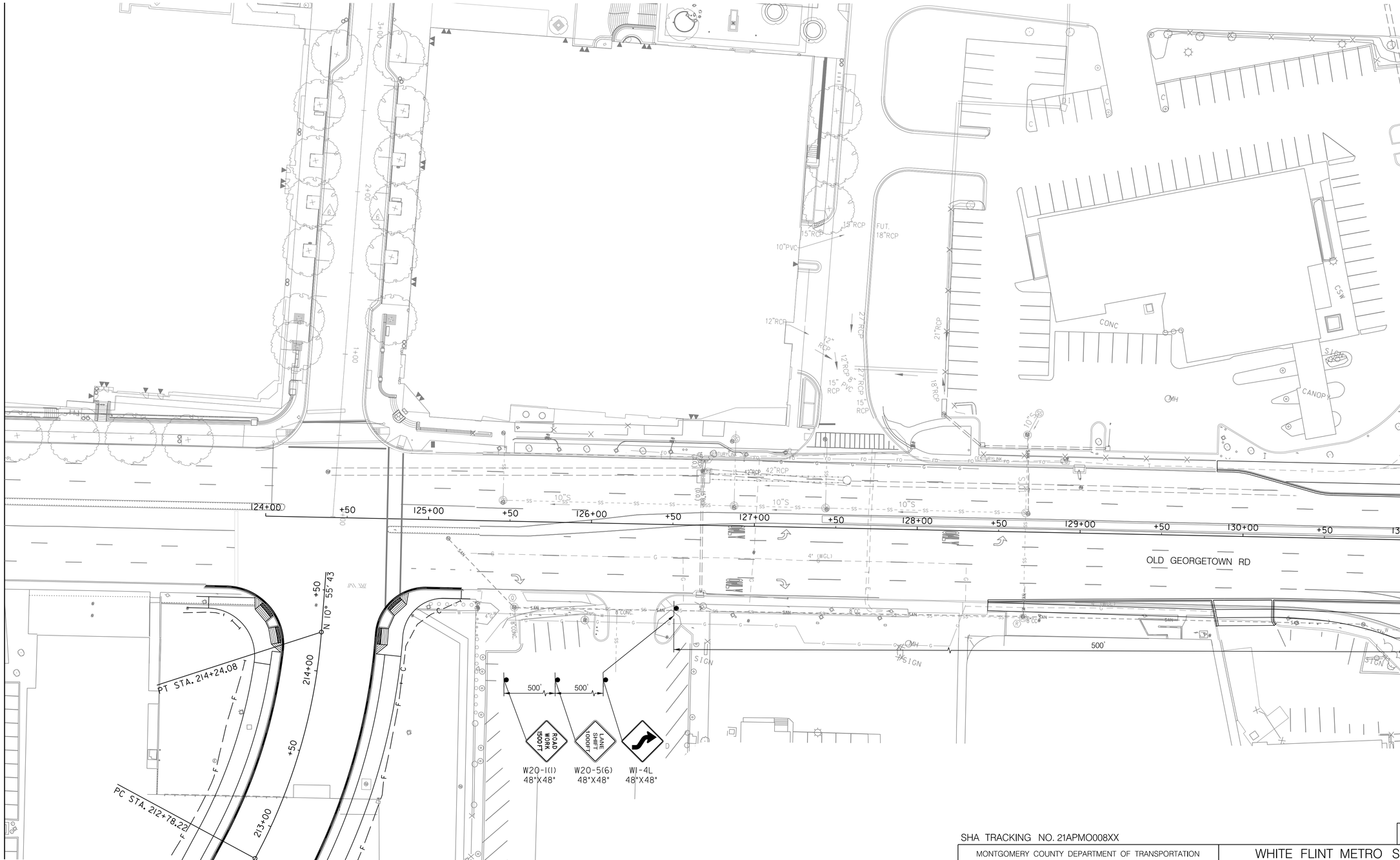

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MT – 14

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 4

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 43 of 69

LEGEND
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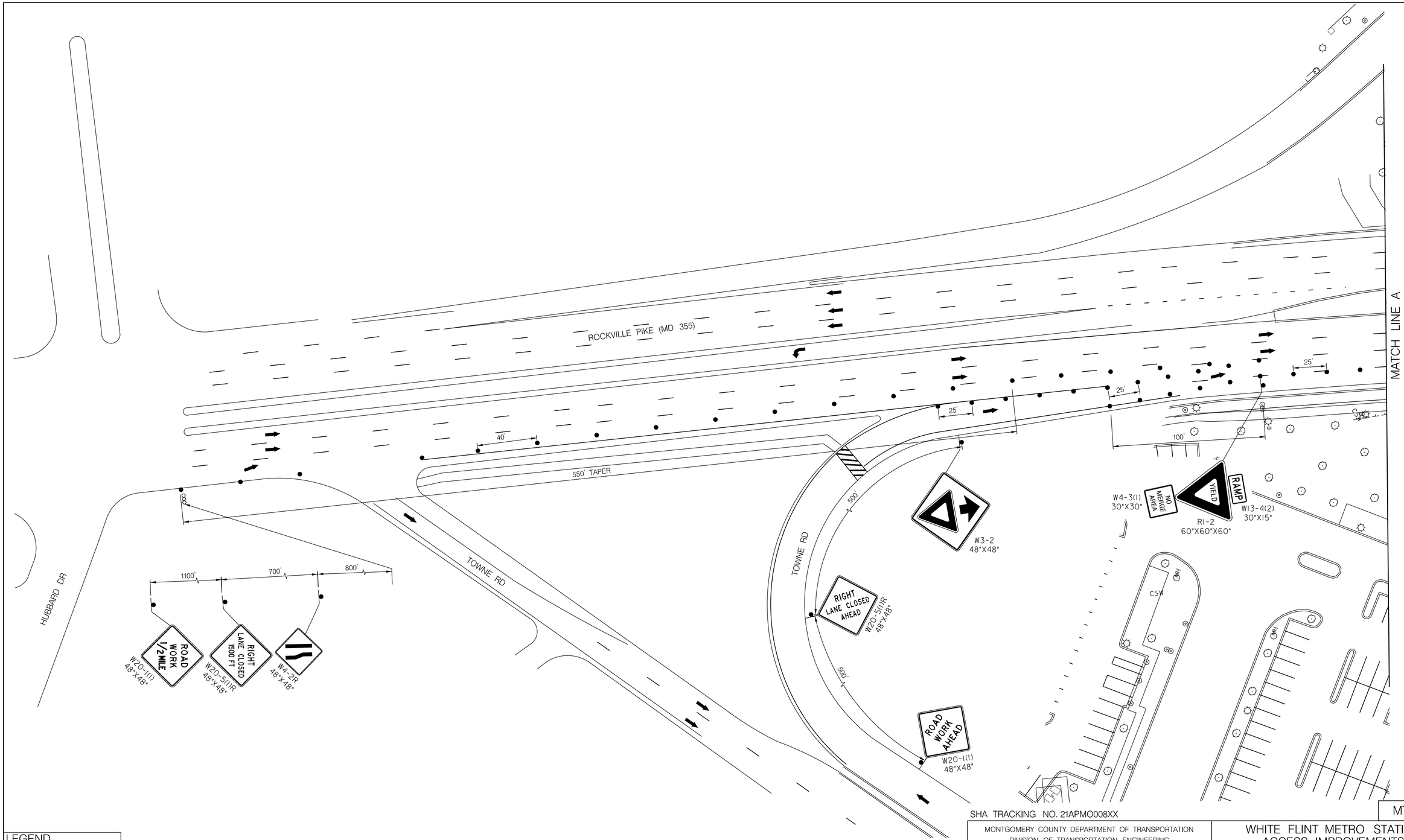

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 44 of 69

11/19/2021
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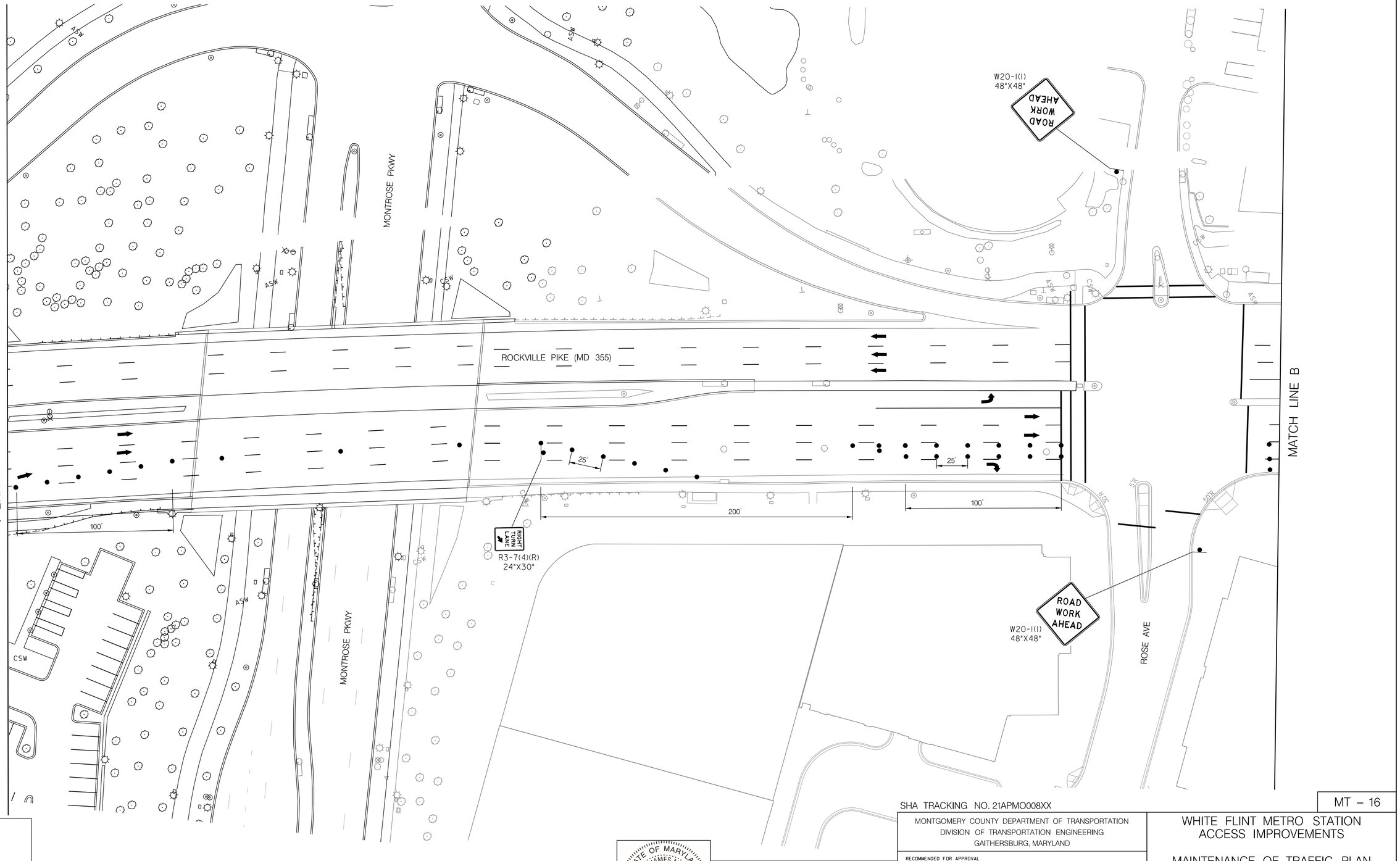

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MT – 16

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN
PHASE 5

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 45 of 69

11/19/2021
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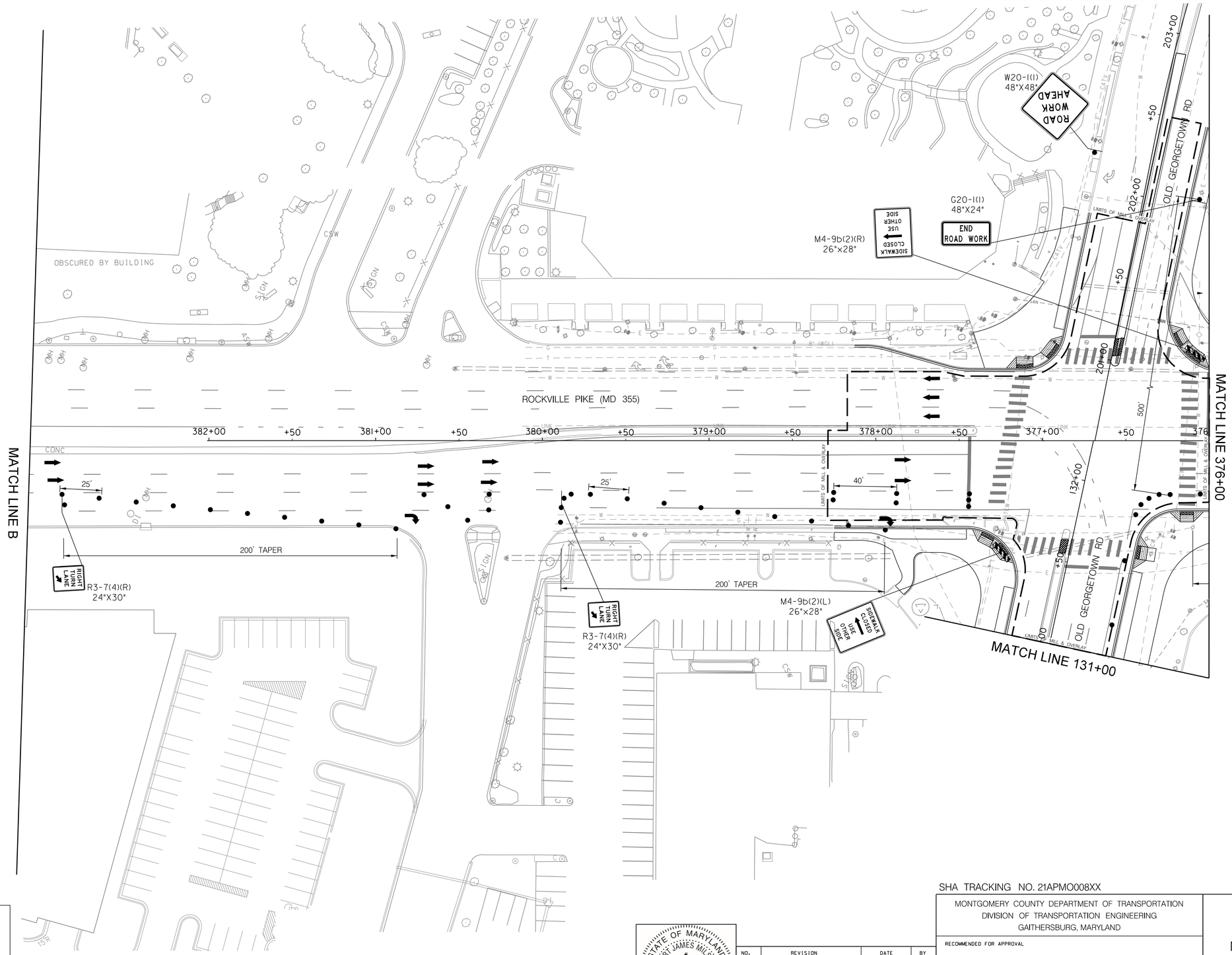

LEGEND

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MT – 17

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 5

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 46 of 69

11/19/2021
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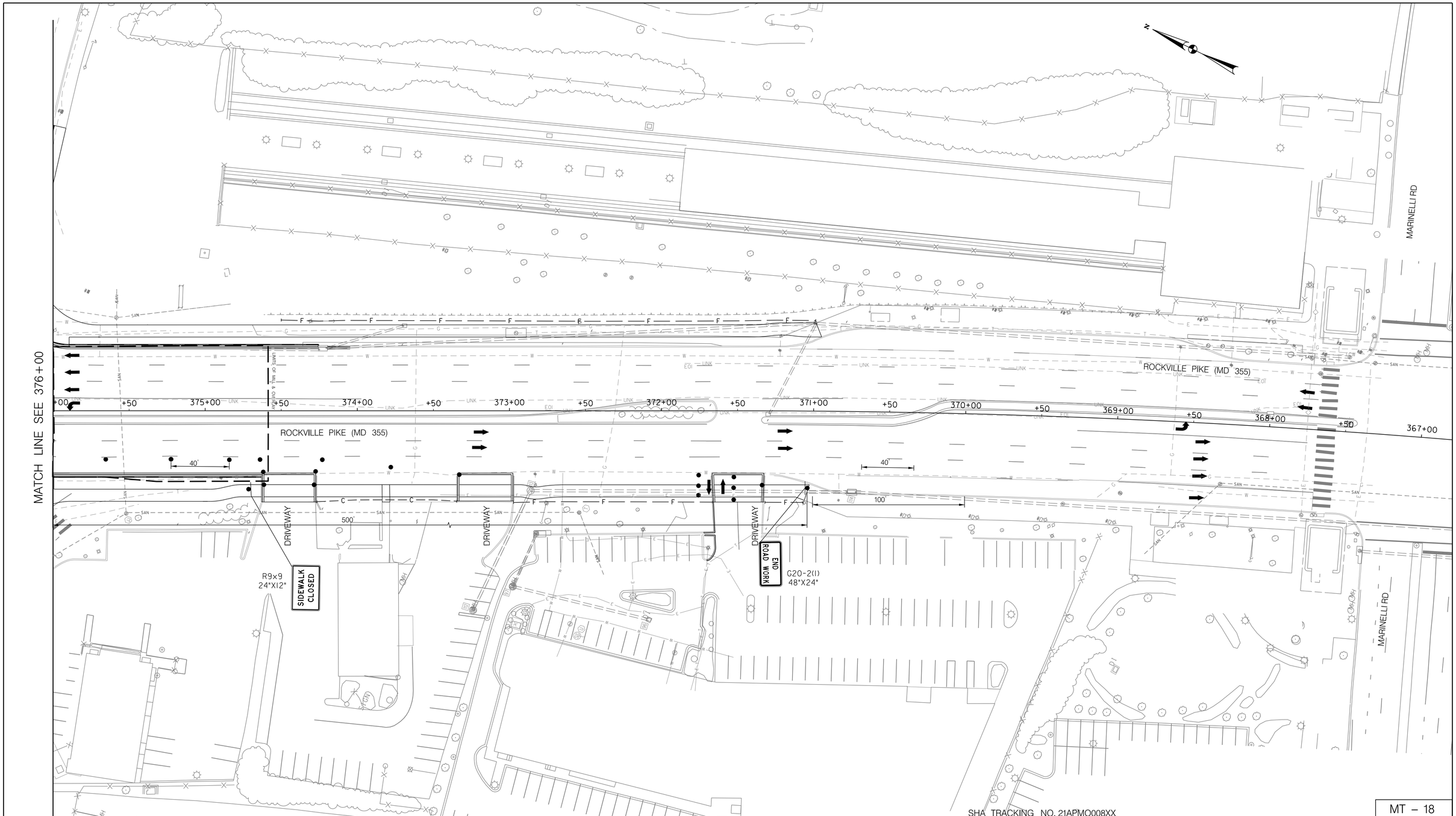

SHA TRACKING NO. 21APMO008XX

MT – 18

LEGEND

- DRUMS
- SIGN SUPPORT
- DIRECTION OF TRAFFIC
- WORK SITE
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MAINTENANCE OF TRAFFIC PLAN

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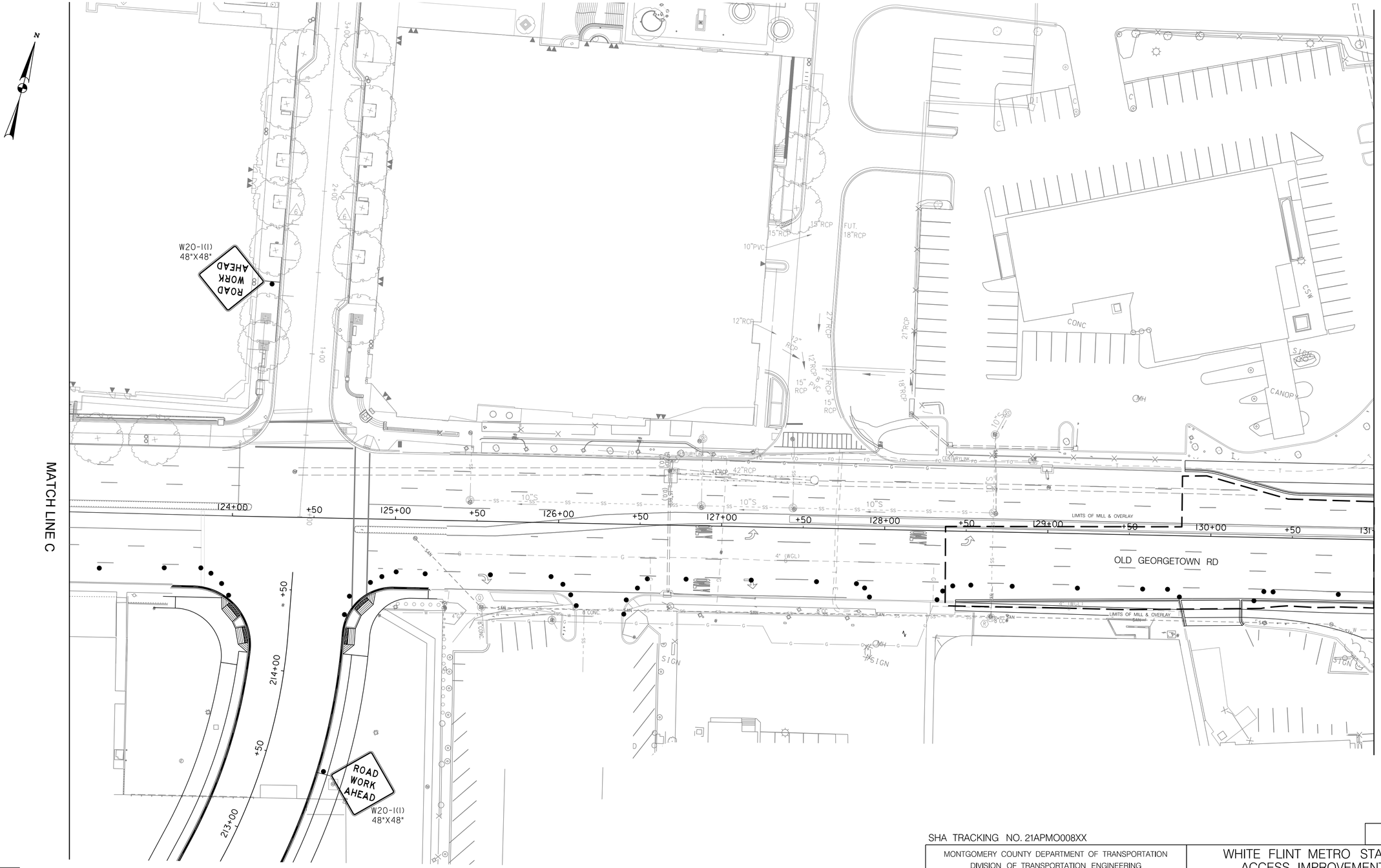

LEGEND
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MT – 19

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WHITE FLINT METRO STATION
ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 5

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Project No. : 502106 SHEET 48 of 69

11/19/2021
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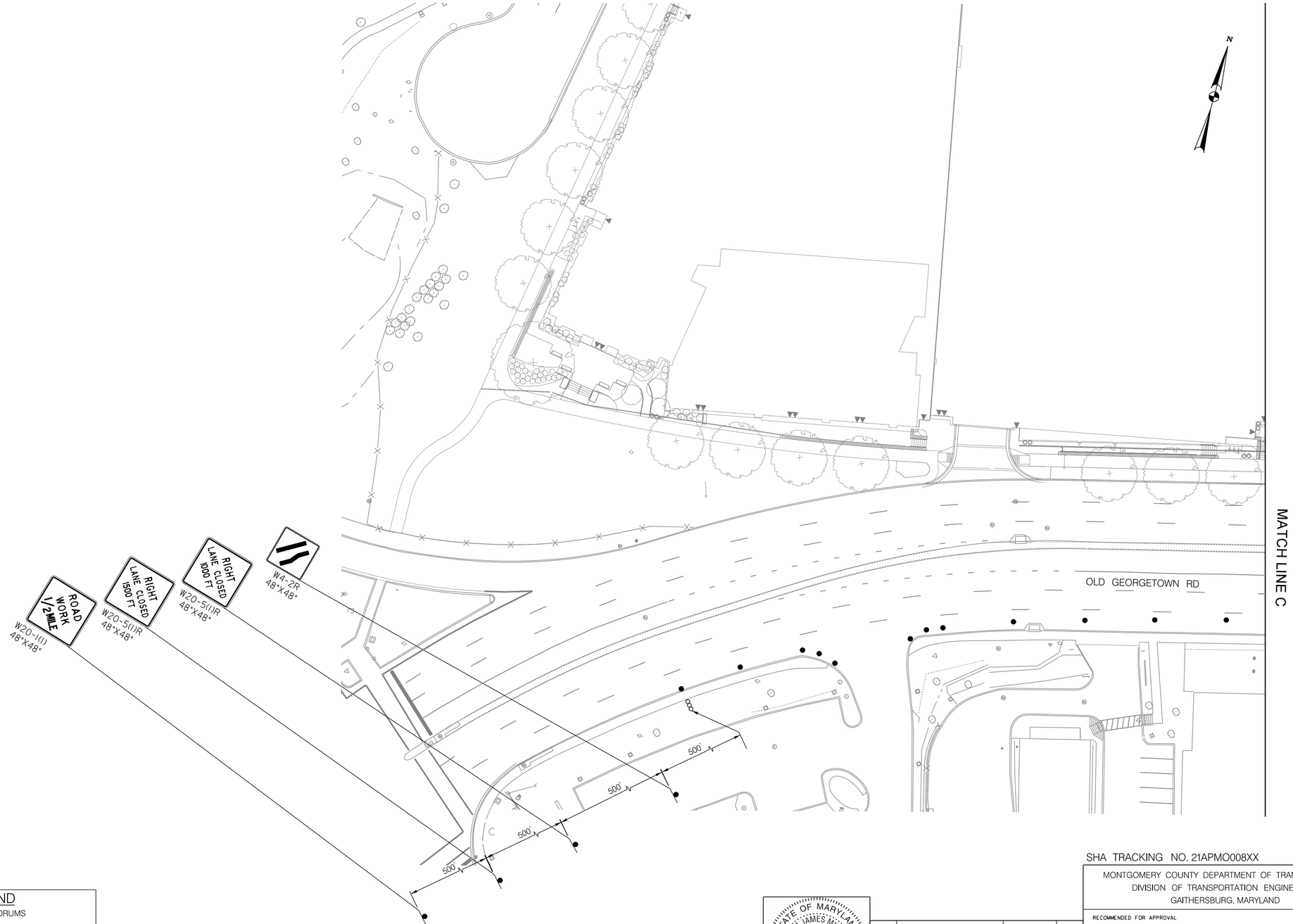

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 5

SCALE : 1" = 30' DATE : NOV 2021

Project No. : 502106 SHEET 49 of 69

11/19/2021
U:\2026\13204\700 CADD\701 Sheet\Phase 2\pMT-P020.dgn

SN-1 REV. DATE: April 02, 2012

CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

DESIGN

MDSHA - "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS. (MdMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDSHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2008 EDITION AND SUBSEQUENT SUPPLEMENTS.

DESIGN WIND

100 MPH - WOOD SUPPORTS
10 YEAR RECURRENCE INTERVAL

100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS
10 YEAR RECURRENCE INTERVAL

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES
50 YEAR RECURRENCE INTERVAL

} ALL DISTRICTS

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED)
SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

1. GUIDE SIGNS
   - A) STRUCTURAL TYPES
     - OH - OVERHEAD
     - C - CANTILEVER
     - GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY
     - BM - BRIDGE MOUNTED
   - B) PANELS
     - MATERIAL - EXTRUDED ALUMINUM
     - COPY - DIRECT APPLIED
       - I) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)
   - A) STRUCTURAL TYPES
     - WOOD SUPPORTS
     - SQUARE TUBE
   - B) PANELS
     - MATERIAL - SHEET ALUMINUM
     - COPY - DIRECT APPLIED

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)
SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS
- R - REGULATORY
- W - WARNING
- M - ROUTE MARKERS AND ACCESSORIES
- D - DESTINATION AND MILEAGE PANELS
- S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN.
FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

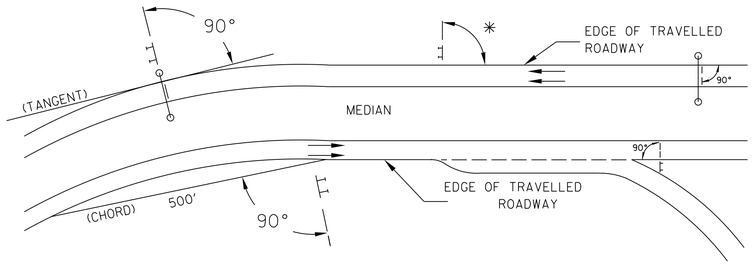
PANEL LAYOUT AND ALPHABETS

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE.
2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MdMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE @ https:/www.marylandroads.com/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/oots/internet_signbook.asp

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

SIGN LOCATIONS

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

1. VERTICAL ALIGNMENT
   POSITION PANEL SO FACE IS PLUMB.
2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
   - A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.
   - B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
   - C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
   - D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

1. VERTICAL ALIGNMENT
   POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS.
3. HORIZONTAL ALIGNMENT
   - A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
   - B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
   - C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
4. VERTICAL CLEARANCE
   - A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
   - B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
   - C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

1. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDSHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JULY 2008) AND SUBSEQUENT REVISIONS
2. LISTED ON MDSHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL)

PROJECT REQUIREMENTS CONT'D

3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS

   A) **GUIDE, EXIT GORE, AND GENERAL INFORMATION SIGNS-** RETROREFLECTIVE SHEETING FOR GUIDE SIGNS, EXIT GORE, AND GENERAL INFORMATION (INCLUDES WHITE ON GREEN, WHITE ON BLUE, WHITE ON BROWN AND THE REVERSE OF THESE COLORS) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX LEGEND ON ASTM TYPE IX BACKGROUND. REGULATORY AND WARNING MESSAGES WITHIN GUIDE SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.

   B) **WARNING SIGNS -** RETROREFLECTIVE SHEETING FOR BLACK ON FLUORESCENT YELLOW WARNING SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE GUIDELINES FOR REGULATORY SIGNS.

   C) **SCHOOL SIGNS -** RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (BLACK ON FLUORESCENT YELLOW AND BLACK ON FLUORESCENT YELLOW GREEN) SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

   D) **REGULATORY SIGNS -** FALL INTO THREE SUBCATEGORIES:

      i. "RED" REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY) RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES WHITE ON RED AND RED ON WHITE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.

      ii. ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY (INCLUDES RED ON WHITE, GREEN ON WHITE, BLUE ON WHITE, BLACK ON WHITE AND THE REVERSE OF THESE COLORS) SHALL BE ASTM TYPE I LEGEND ON ASTM TYPE I BACKGROUND.

      iii. ALL OTHER REGULATORY SIGNS - RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES BLACK ON WHITE) SHALL BE NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND. WHERE RED IS SPECIFIED, OR WHERE THE COLOR OF THE SIGN IS WHITE ON BLACK, THE LEGEND SHALL BE ASTM TYPE IV RETROREFLECTIVE SHEETING ON NON-REFLECTIVE BLACK BACKGROUND. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE GUIDELINES FOR WARNING SIGNS.

   E) **ROUTE MARKERS -** RETROREFLECTIVE SHEETING FOR ROUTE MARKERS (INCLUDES BLACK ON WHITE , GREEN ON WHITE, WHITE ON GREEN, WHITE ON RED/BLUE) SHALL MEET THE REQUIREMENTS OF GUIDE SIGNS ABOVE WHEN SPECIFIED AS THE LEGEND OF A GUIDE SIGN. RETROREFLECTIVE SHEETING FOR ALL INDEPENDENT ROUTE MARKERS AND THEIR AUXILIARY PANELS SHALL BE ASTM TYPE IV AND/OR NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND.

   F) **LOGOS AND/OR GRAPHICS -** WITHIN SIGNS SHALL FOLLOW THE GUIDELINES FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

   G) **CIVIL DEFENSE SIGNS AND OTHER SIGNS -** NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

LONGEST DIMENSION	MINIMUM THICKNESS
UP TO 12"	0.040"
GREATER THAN 12" TO 24"	0.063"
GREATER THAN 24" TO 36"	0.080"
GREATER THAN 36" TO 48"	0.100"
OVER 48"	0.125"

SHA TRACKING NO. 21APMO008XX

SN01

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AND
MD 187 (OLD GEORGETOWN RD)

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

SIGNING AND PAVEMENT MARKING PLAN

SCALE _____ ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY _____ LOGMILE 15035506.356
CHECKED BY _____ TIMS NO. _____
MDE/PRD NA TOD NO. _____

DRAWING NO. SN-1 OF 1 SHEET NO. 50 OF 69

BY: klegesse

PLOTTED: 11/19/2021
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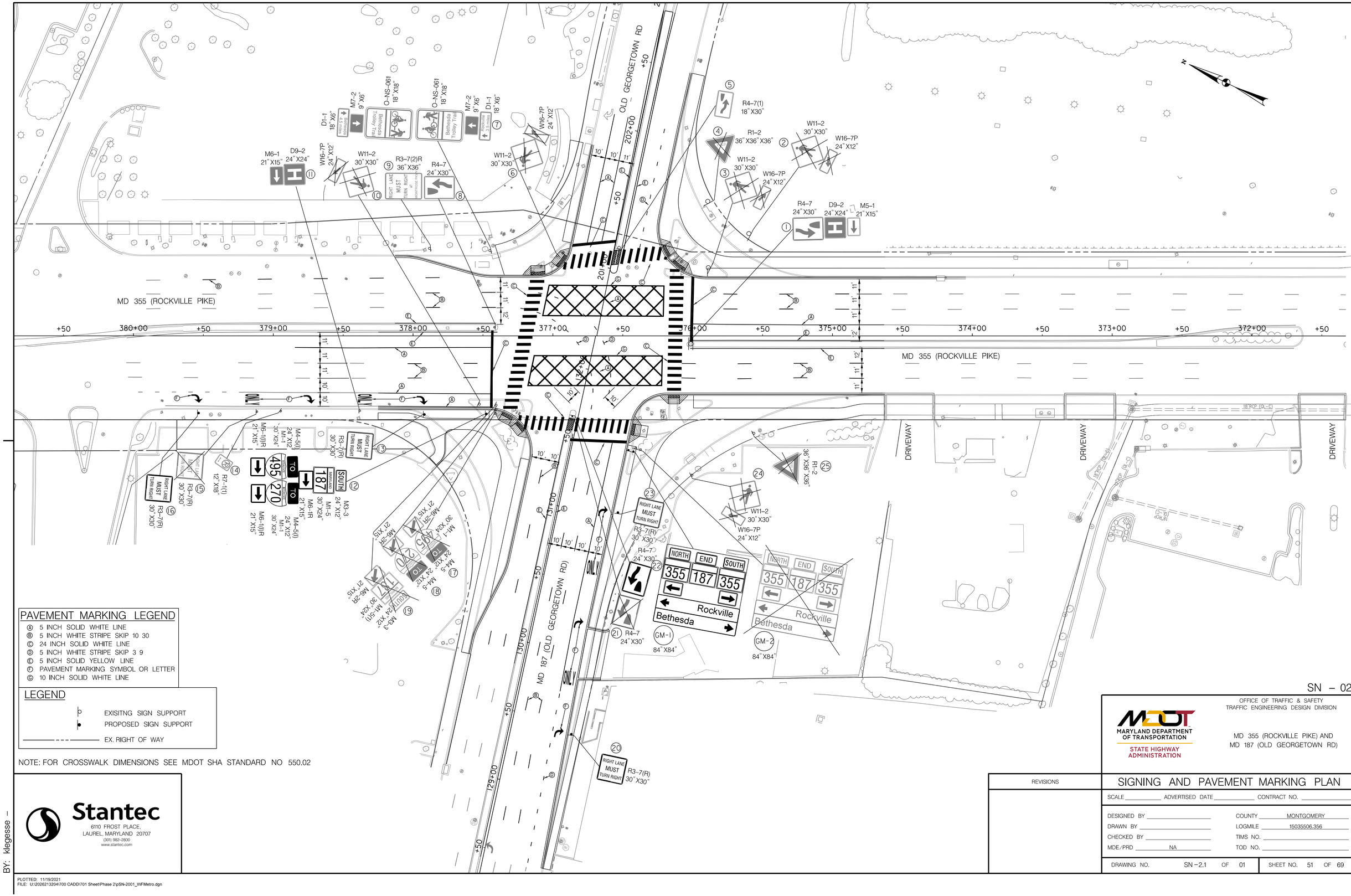

PAVEMENT MARKING LEGEND

- Ⓐ 5 INCH SOLID WHITE LINE
- Ⓑ 5 INCH WHITE STRIPE SKIP 10 30
- Ⓒ 24 INCH SOLID WHITE LINE
- Ⓓ 5 INCH WHITE STRIPE SKIP 3 9
- Ⓔ 5 INCH SOLID YELLOW LINE
- Ⓕ PAVEMENT MARKING SYMBOL OR LETTER
- Ⓖ 10 INCH SOLID WHITE LINE

LEGEND

- EXISITNG SIGN SUPPORT
- PROPOSED SIGN SUPPORT
- EX. RIGHT OF WAY

NOTE: FOR CROSSWALK DIMENSIONS SEE MDOT SHA STANDARD NO 550.02

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SN – 02

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (ROCKVILLE PIKE) AND
MD 187 (OLD GEORGETOWN RD)

REVISIONS

SIGNING AND PAVEMENT MARKING PLAN

SCALE _____ ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY _____ LOGMILE 15035506.356
CHECKED BY _____ TIMS NO. _____
MDE/PRD NA TOD NO. _____

DRAWING NO. SN – 2.1 OF 01 SHEET NO. 51 OF 69

SHEET NO.	REMARKS	CODE NUMBERS •								
		1	2	3	4	5	6	7	8	9
SN-02										
①	R4-7 (24"X30"), D9-2 (24"X24"), M5-1 (21"X15") EXISTING									
②	W11-2 (30"X30"), W16-7P (24"X12") EXISTING TO BE REMOVED		8.3							
③	W11-2 (30"X30"), W16-7P (24"X12") EXISTING TO BE REMOVED		8.3							
④	R1-2 (36"X36"X36") EXISTING TO BE REMOVED		4.5							
⑤	R4-7(1) (18"X30") EXISTING									
⑥	W11-2 (30"X30"), W16-7P (24"X12") EXISTING TO BE REMOVED		8.3							
⑦	Bethesda Trolley Trail (18"X18"), M7-2 (9"X6"), D1-1 (18"X6"), Bethesda Trolley Trail (18"X18"), M7-2 (9"X6"), D1-1 (18"X6") EXISTING									
⑧	R4-7 (24"X30") EXISTING									
⑨	R3-7(2)R (36"X36") EXISTING									
⑩	W11-2 (30"X30"), W16-7P (24"X12") EXISTING TO BE REMOVED		8.3							
⑪	D9-2 (24"X24"), M6-1 (21"X15") EXISTING									
⑫	M3-3 (24"X12"), M1-5 (30"X24"), M6-1R (21"X15"), M4-5(1) (24"X12"), M1-1 (30"X24"), M6-1(1)R (21"X15"), M4-5(1) (24"X12"), M1-1 (30"X24"), M6-1(1)R (21"X15") 1- BREAKAWAY 6" X8" WOOD POST	27.6		22						
⑬	R3-7R (30"X30") 1- PERFORATED TUBULAR STEEL POST	6.3			1	1				
⑭	R7-1(1) (12"X18") EXISTING									
⑮	R3-7(R) (30"X30") EXISTING TO BE REMOVED		6.3							
⑯	R3-7(R) (30"X30") 1- PERFORATED TUBULAR STEEL POST	6.3			1	1				
⑰	M4-5 (24"X12"), M1-1 (30"X24"), M6-2R (21"X15") EXISTING TO BE REMOVED		9.2							
⑱	M4-5 (24"X12"), M1-1 (30"X24"), M6-2R (21"X15") EXISTING TO BE REMOVED		9.2							
⑲	M3-3 (24"X12"), M1-5(1) (30"X24"), M6-2R (21"X15") EXISTING TO BE REMOVED		9.2							
⑳	R3-7(R) (30"X30") 1- PERFORATED TUBULAR STEEL POST	6.3			1	1				
㉑	R4-7 (24"X30") EXISTING TO BE REMOVED		5							
㉒	R4-7 (24"X30") 1- PERFORATED TUBULAR STEEL POST	5			1	1				
㉓	R3-7(R) (30"X30") 1- PERFORATED TUBULAR STEEL POST	6.3			1	1				
㉔	W11-2 (30"X30"), W16-7P (24"X12") EXISTING TO BE REMOVED		8.3							
㉕	R1-2 (36"X36"X36") EXISTING TO BE REMOVED		4.5							
	GM1 (84"X84") EXISTING TO BE REMOVED		49							
	GM2 (84"X84")	49								
	PAVEMENT MARKINGS						1386	1277	830	176.2
	TOTAL	106.8	138.4	22	5	5	1386	1277	830	176.2

SN – 01

SN – 03

• CODE NUMBER DESCRIPTION & UNIT

CODE NUMBERS	DESCRIPTION	UNIT
1	F&I SHEET ALUMINUM SIGNS	S.F.
2	REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS	S.F.
3	BREAKAWAY WOOD SIGN SUPPORTS 6"X8"	L.F.
4	F&I SQUARE PERFORATED TUBULAR STEEL POST	E.A.
5	F&I ANCHOR BASES FOR SQUARE PERFORATED TUBULAR STEEL POST	E.A.
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS	L.F.
8	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	L.F.
9	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	S.F.

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BY: klegesse –

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OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (ROCKVILLE PIKE) AND
MD 187 (OLD GEORGETOWN RD)

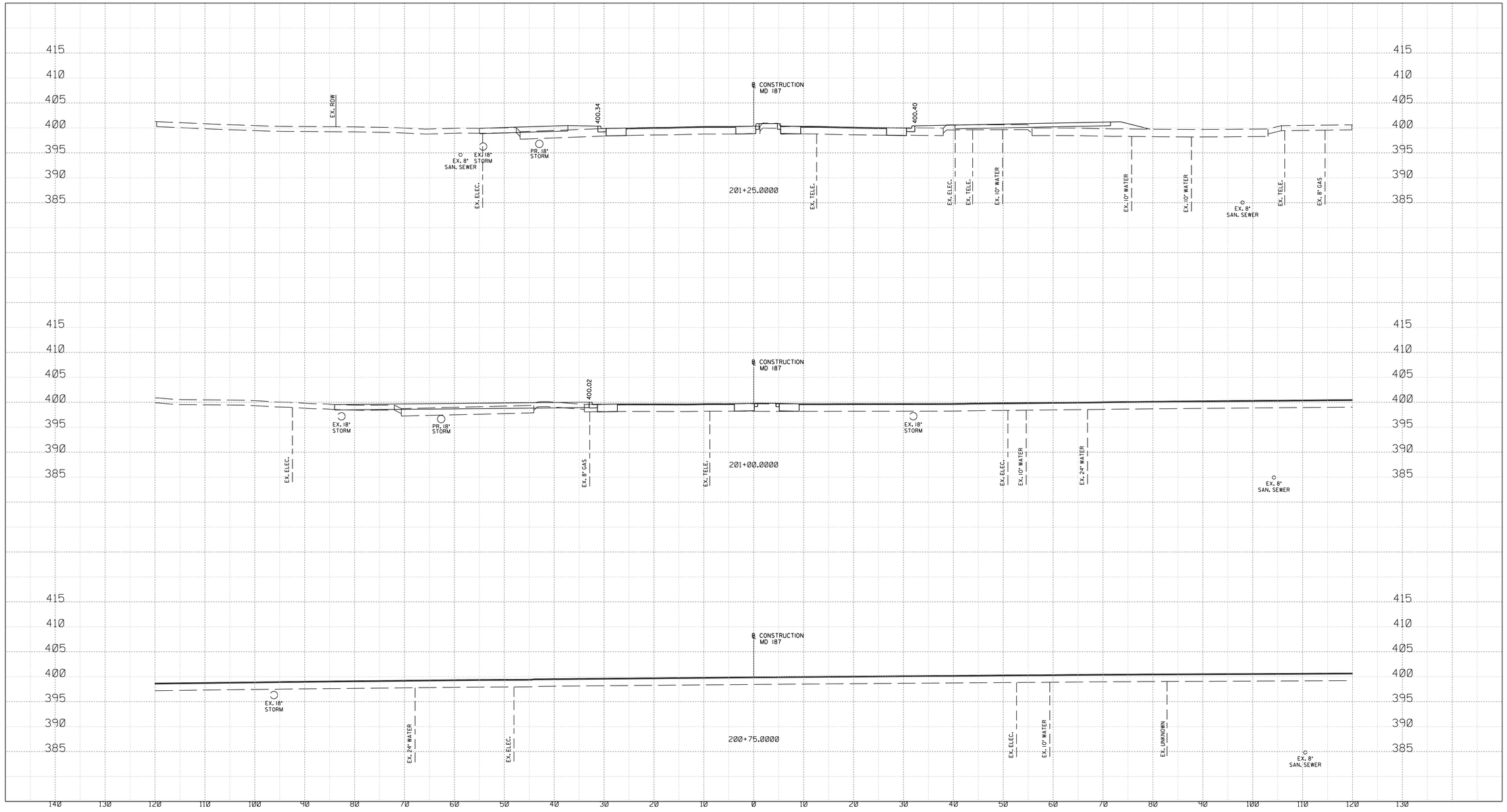
REVISIONS

SIGNING & PAVEMENT MARKING QUANTITIES

SCALE _____ ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY _____ LOGMILE 15035506.356
CHECKED BY _____ TIMS NO. _____
MDE/PRD NA TOD NO. _____

DRAWING NO. SN-11- 01 OF 01 SHEET NO. 52 OF 69



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SCALE: 1" = 10'

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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: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ARGUE
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

XS-01

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 53 of 69

11/19/2021
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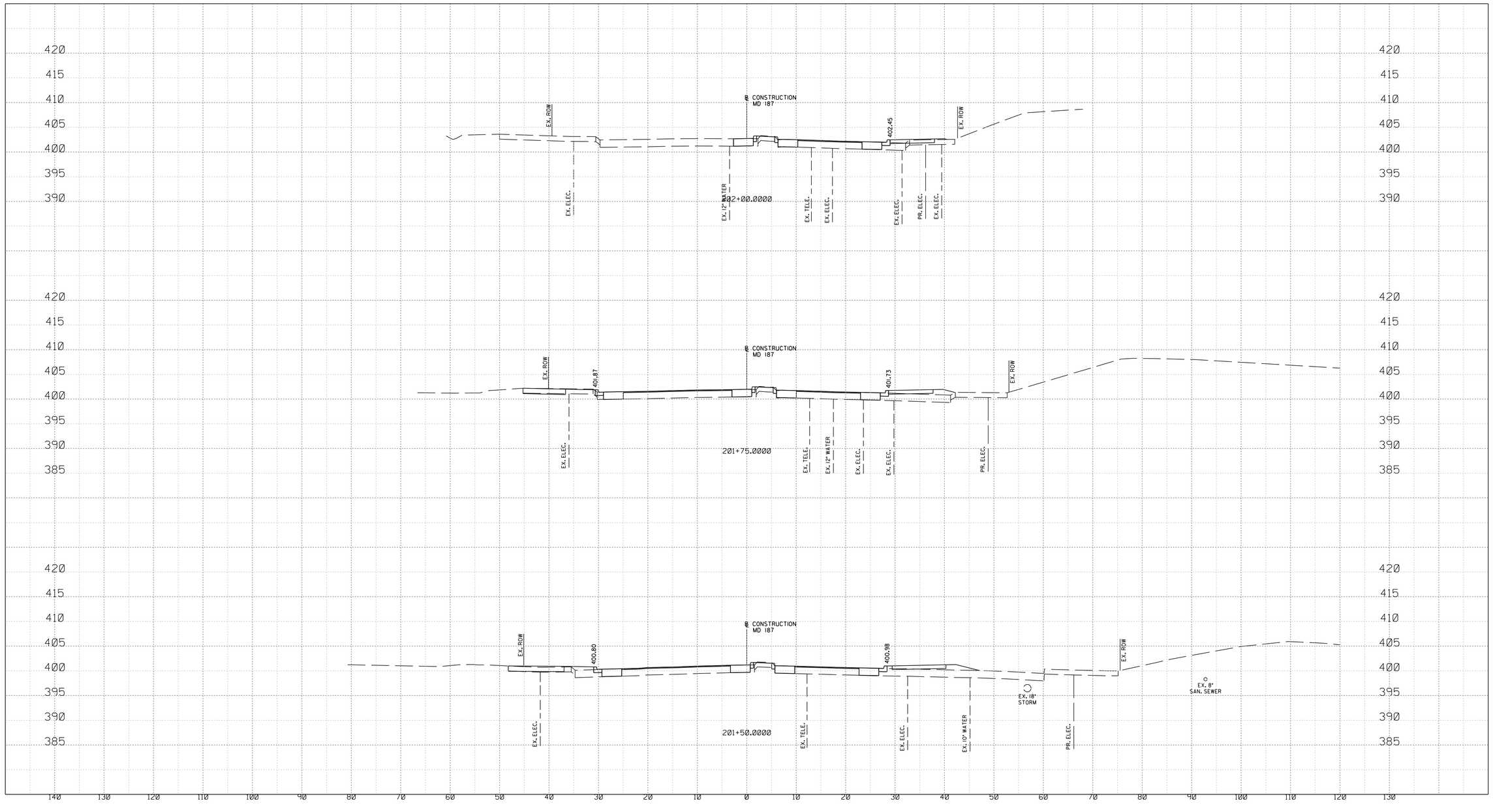

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ARGATE
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

XS-02

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 54 of 69

11/19/2021
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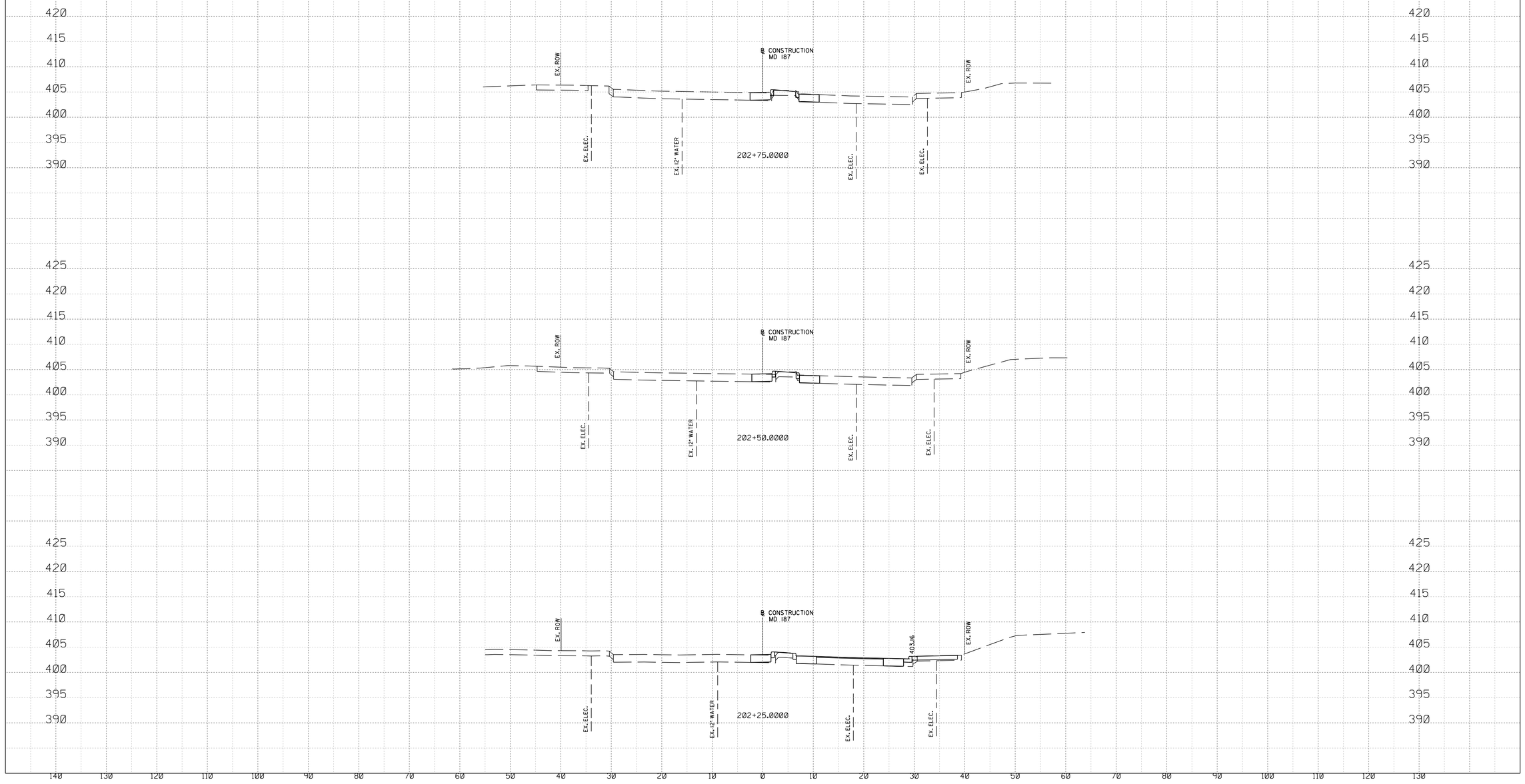

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SCALE: 1" = 10'

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
ERIC R. ARGUE
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

XS-03

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 55 of 69

11/19/2021
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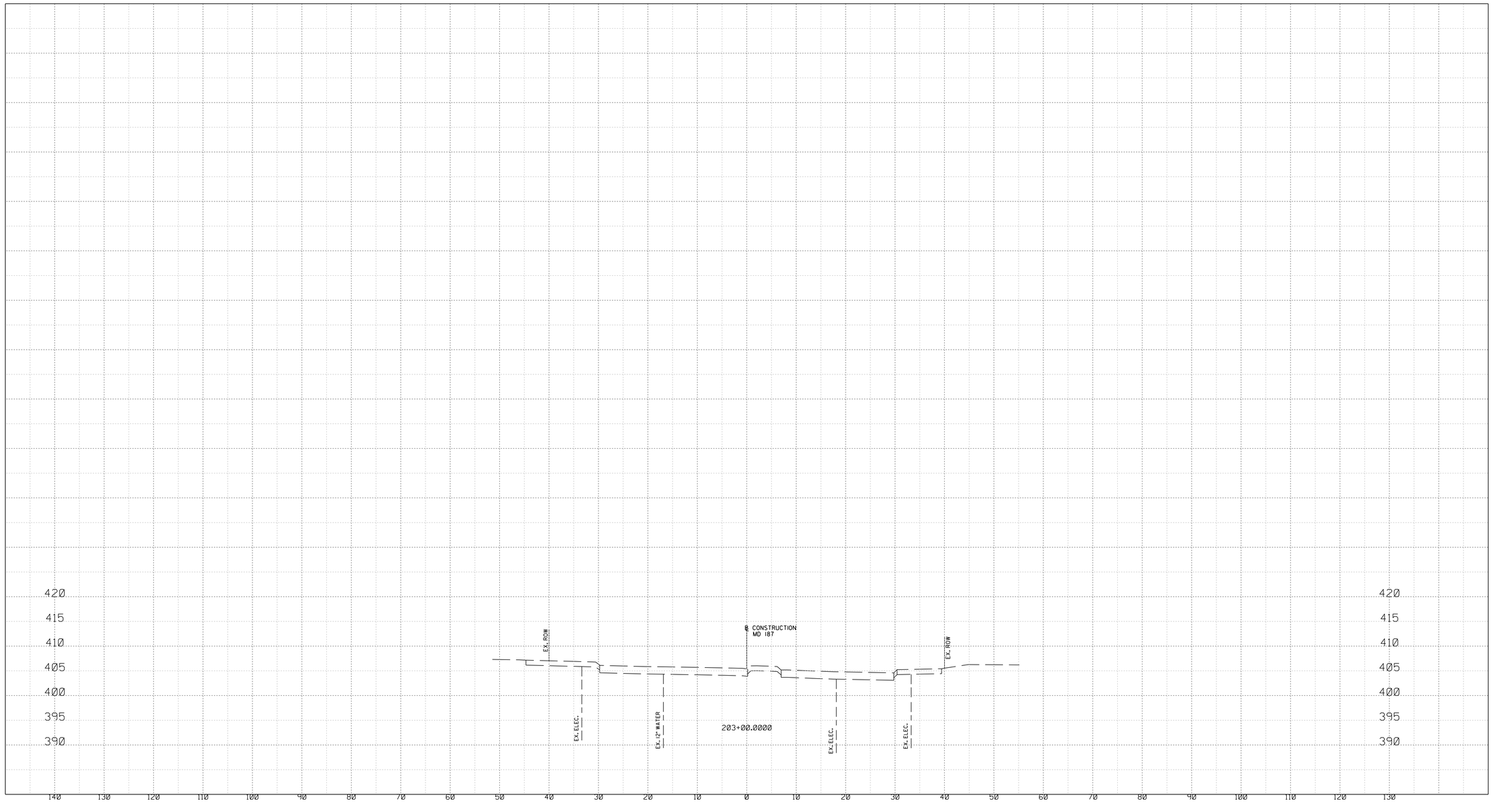

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ARGATE
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

RECOMMENDED FOR APPROVAL

Chief, Design Section Date

APPROVED

Chief, Division of Transportation Engineering Date

Designed by : Drawn by : Checked by :

XS-04

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 56 of 69

11/19/2021
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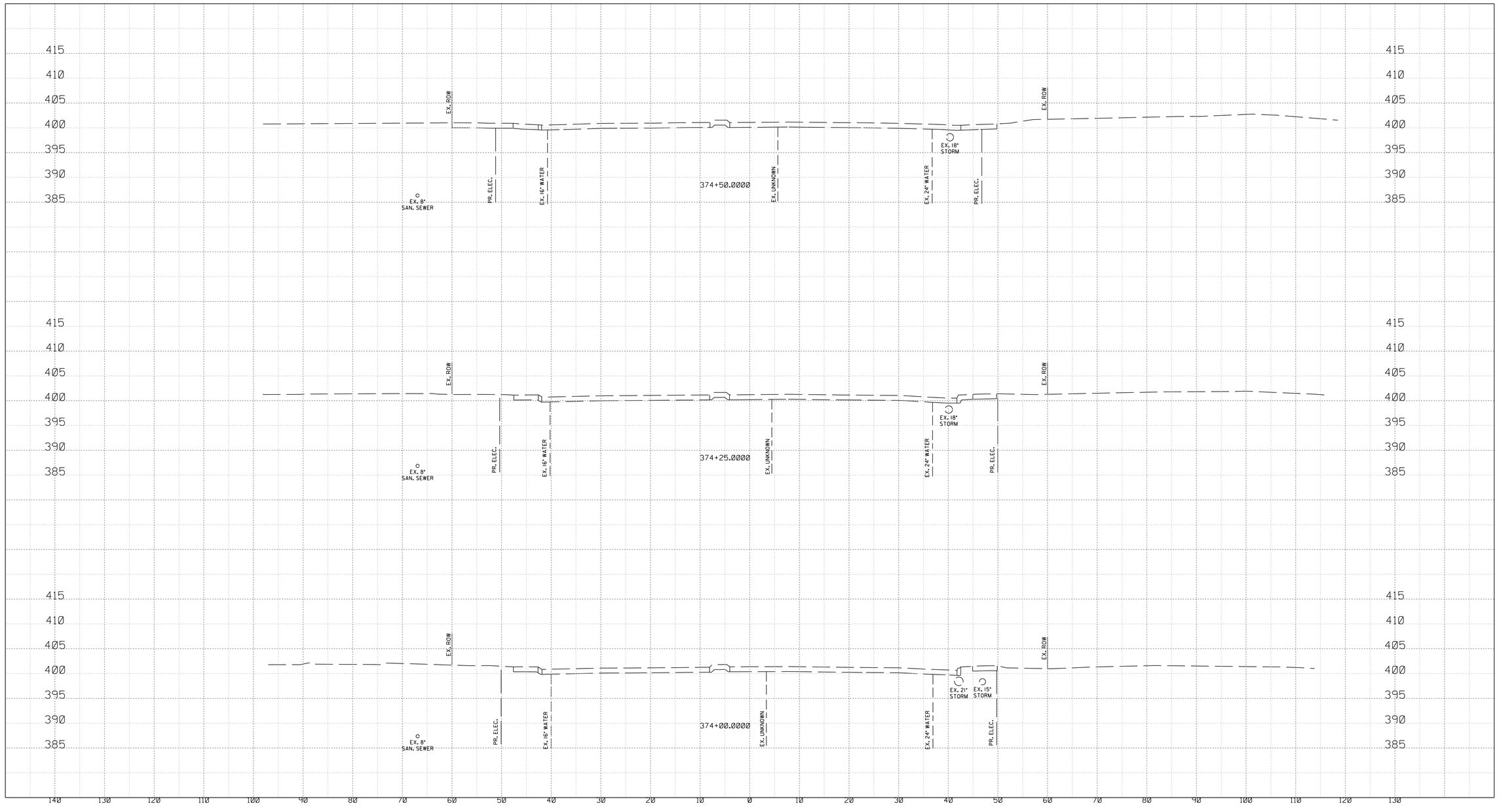

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STATE OF MARYLAND · LORI R. ARGATE · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

XS-05

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 57 of 69

11/19/2021
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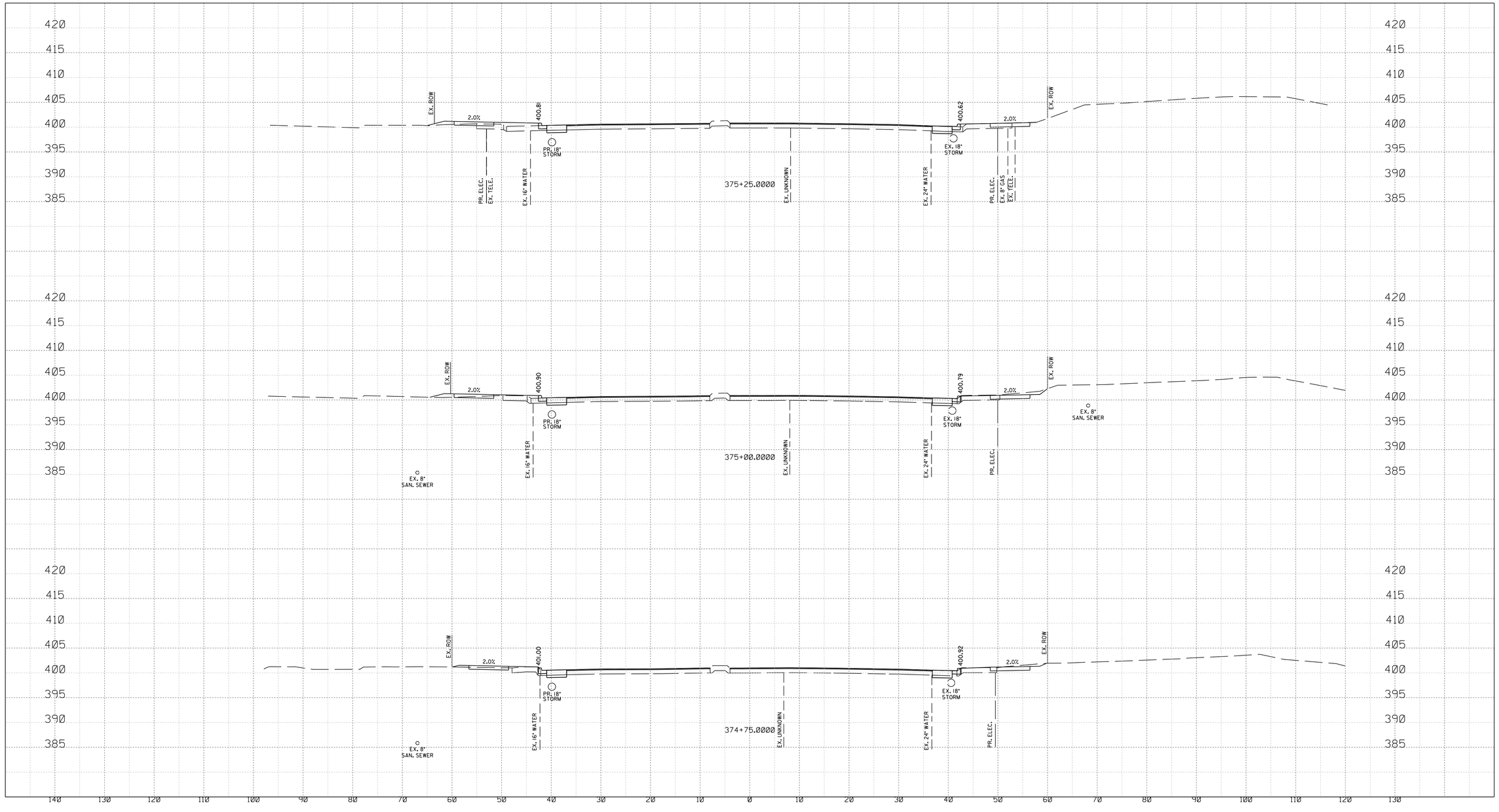

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SCALE: 1" = 10'

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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND · ORI R. ARGAMAN · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

XS-06

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 58 of 69

11/19/2021
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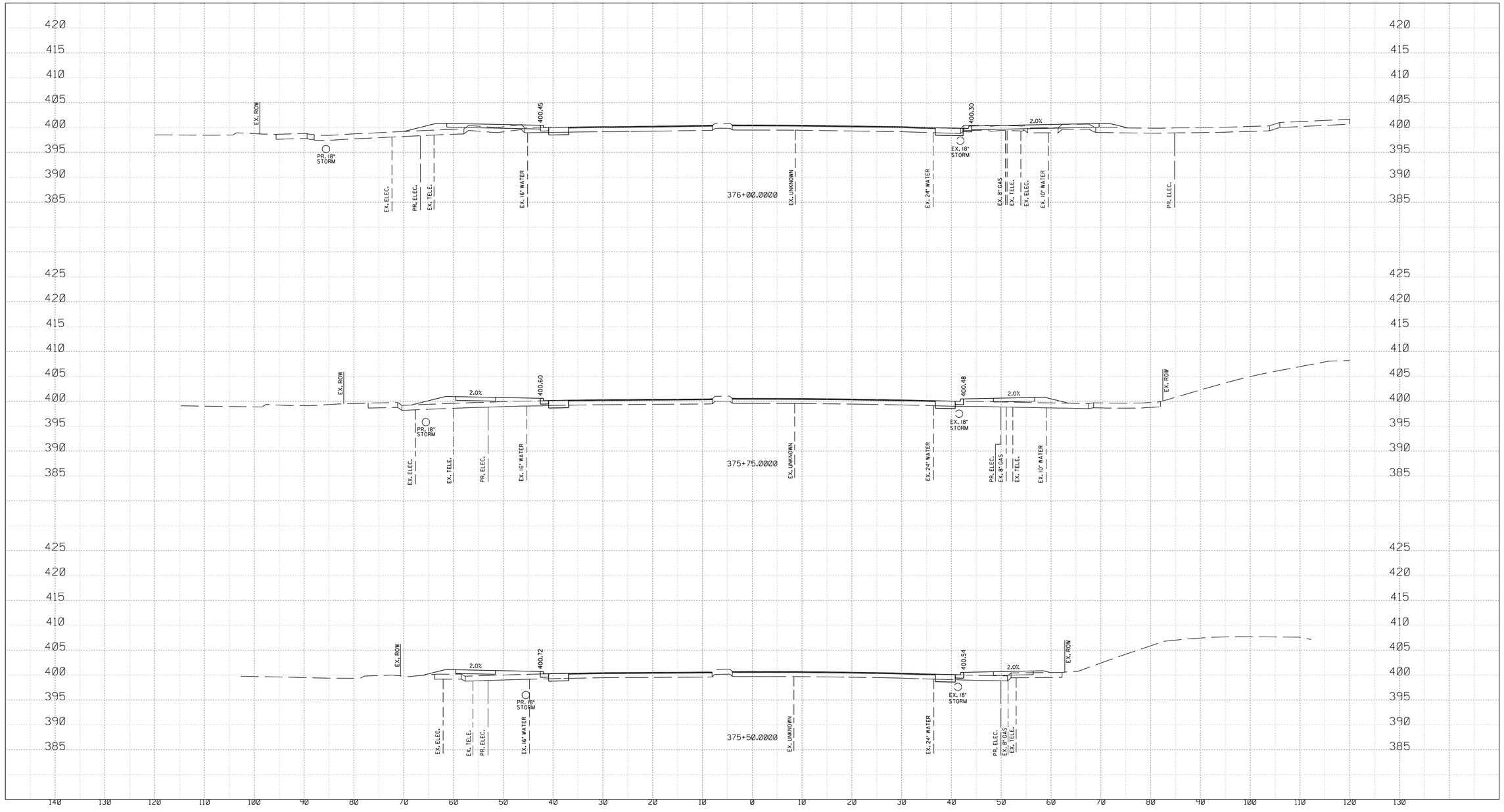

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STATE OF MARYLAND · LORI R. ARGATE · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

XS-07

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 59 of 69

11/19/2021
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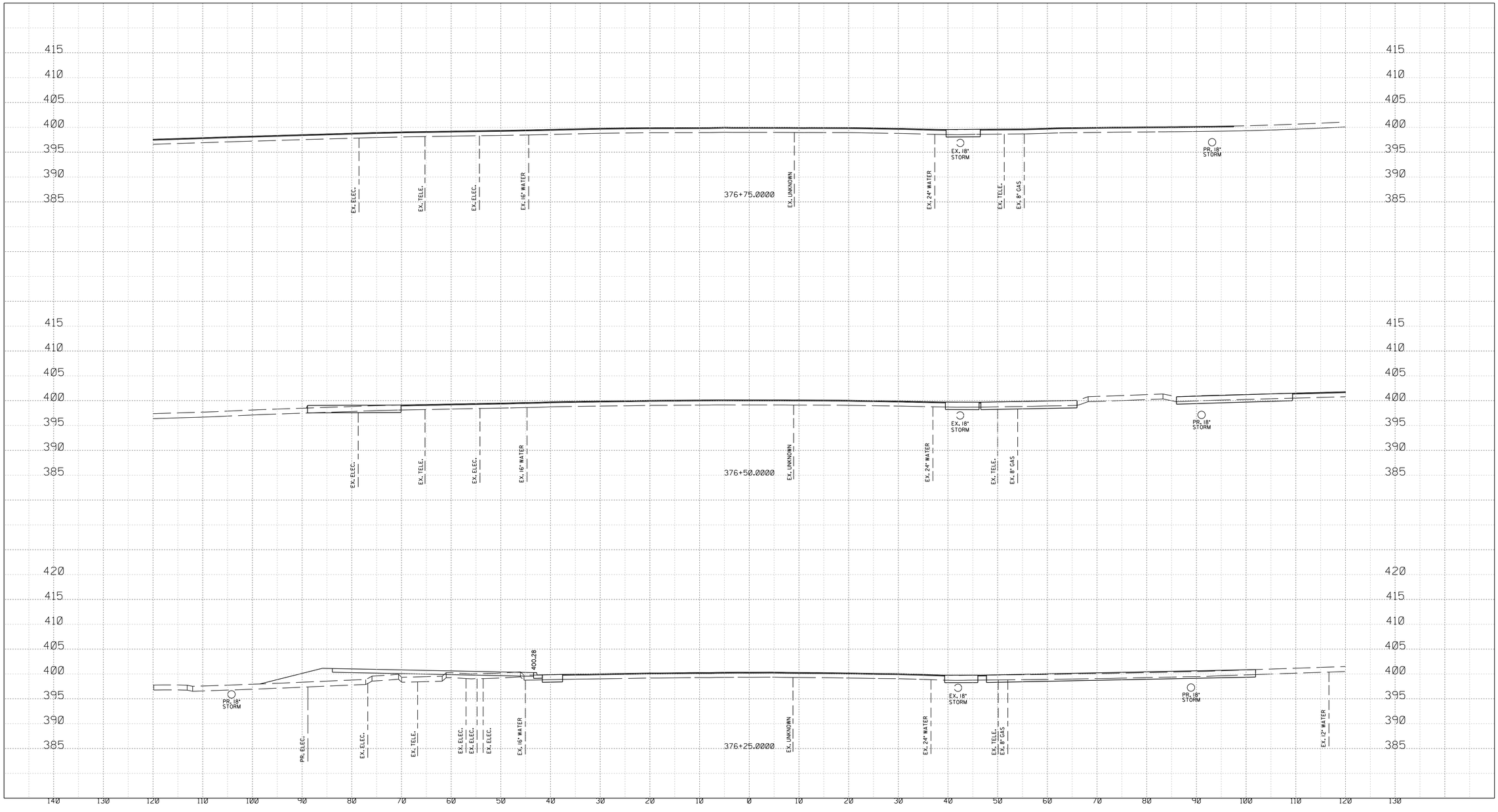

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STATE OF MARYLAND · ORI R. ARGAIZ · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

XS-08

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 60 of 69

11/19/2021
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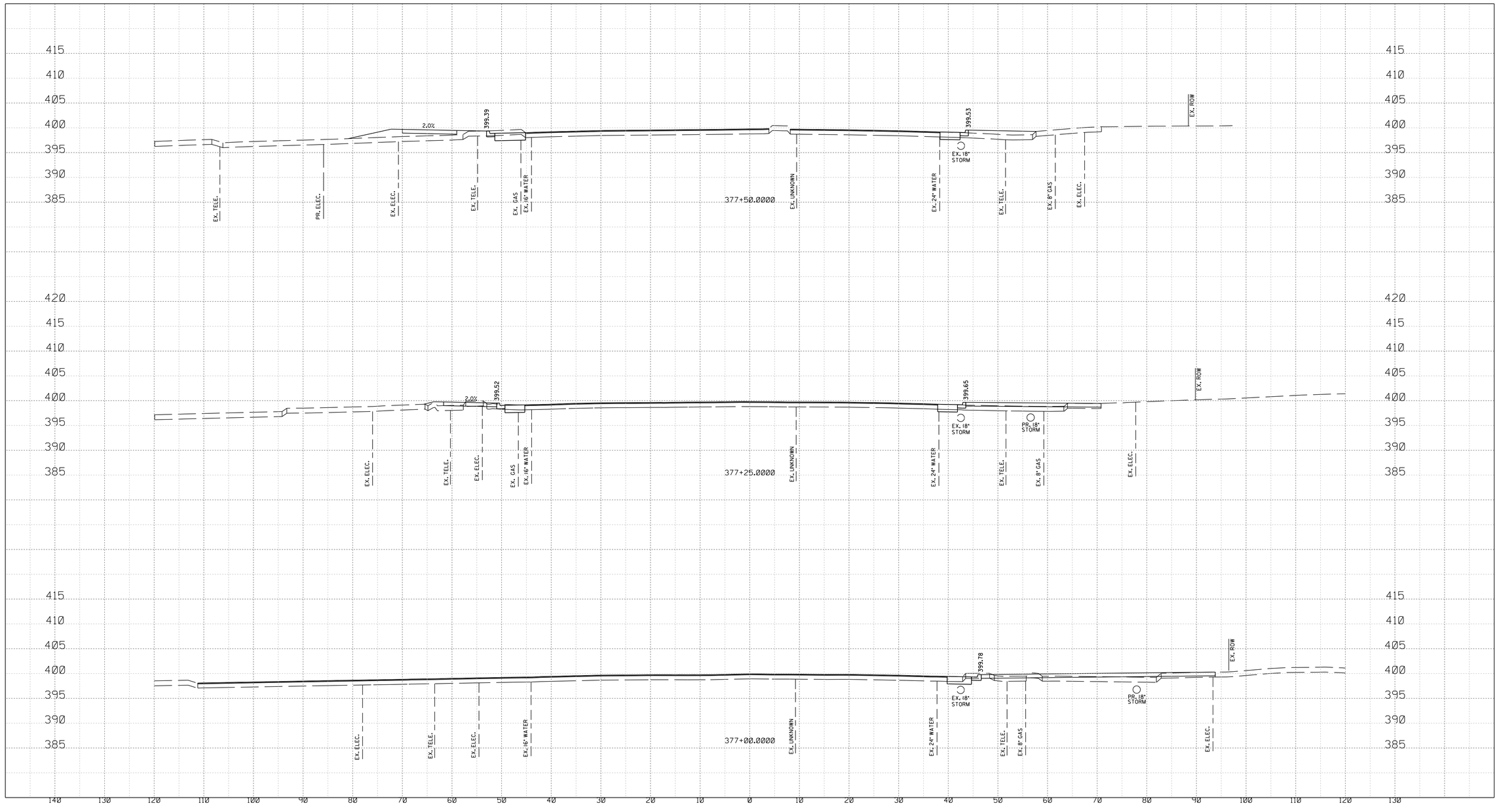

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STATE OF MARYLAND · LORI R. ARGATE · No. 28255 · PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL
Chief, Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

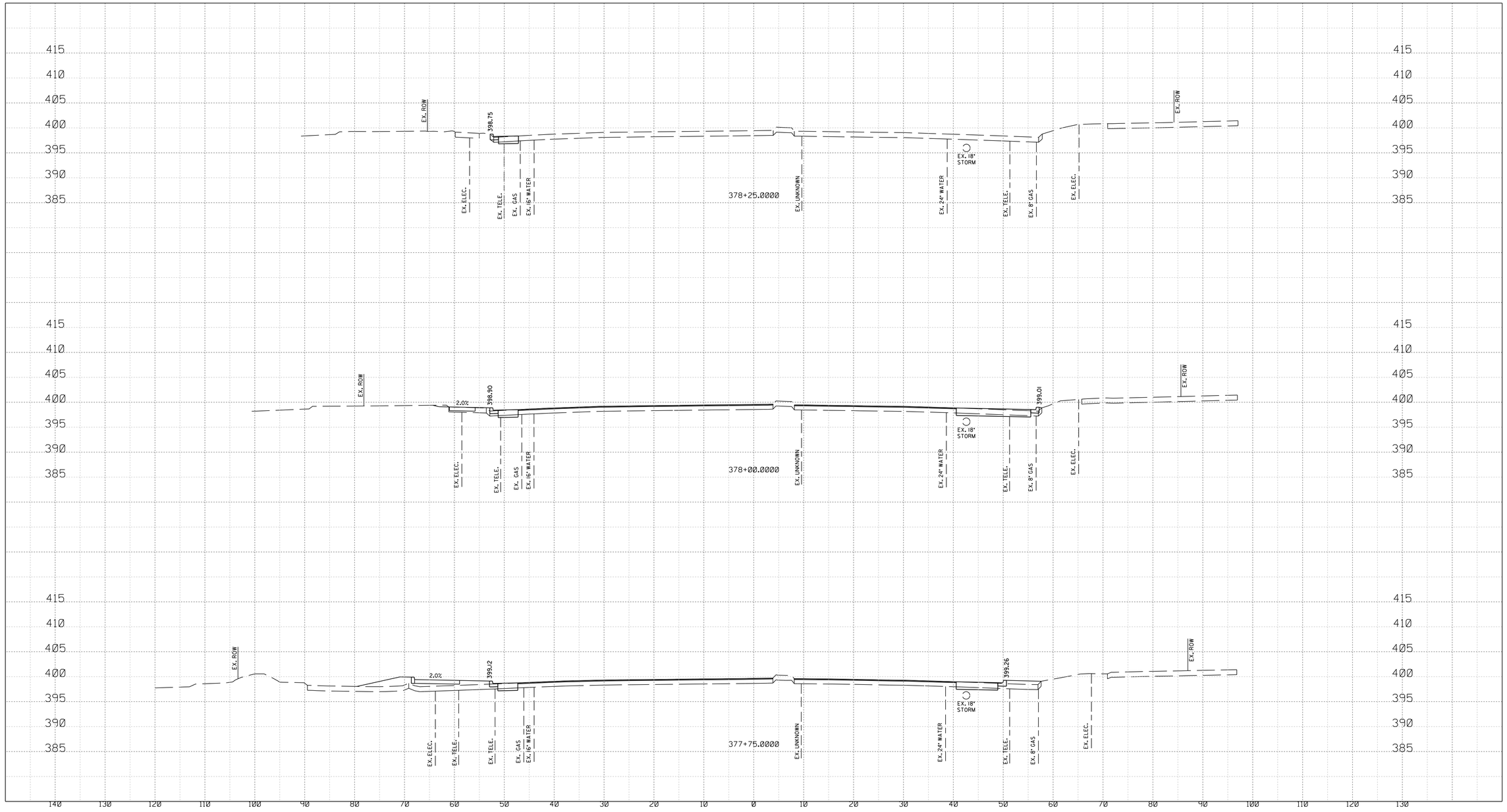
XS-09

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 61 of 69



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STATE OF MARYLAND · DIRI R. ARGUETA · No. 28255 · PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

SHA TRACKING NO. 21APMO008XX

XS–10

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

RECOMMENDED FOR APPROVAL
Chief, Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

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WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 62 of 69

11/19/2021
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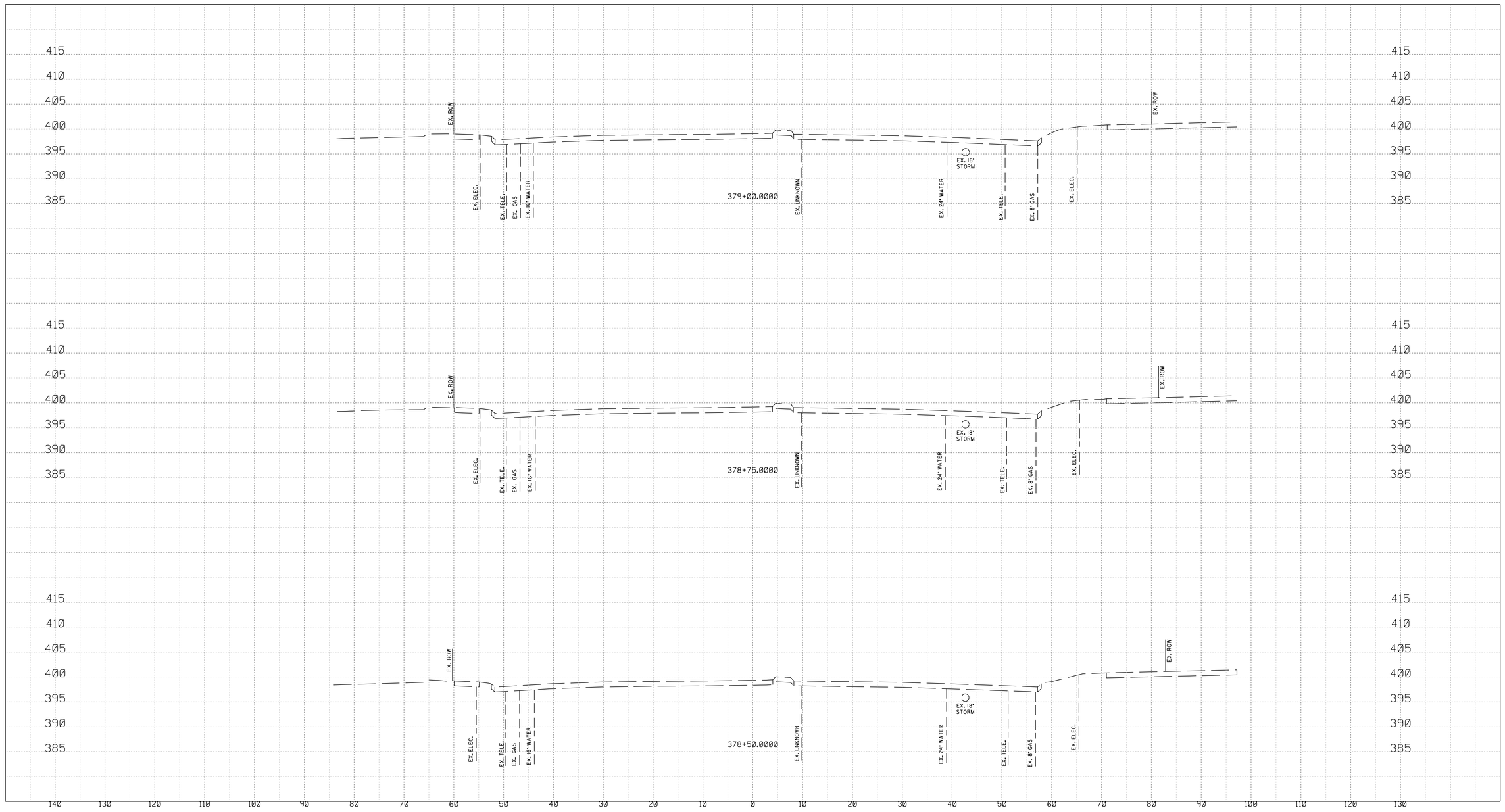

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STATE OF MARYLAND · LORI R. ADGITE · No. 28255 · PROFESSIONAL ENGINEER

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

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XS-11

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

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Project No. : 502106 SHEET 63 of 69

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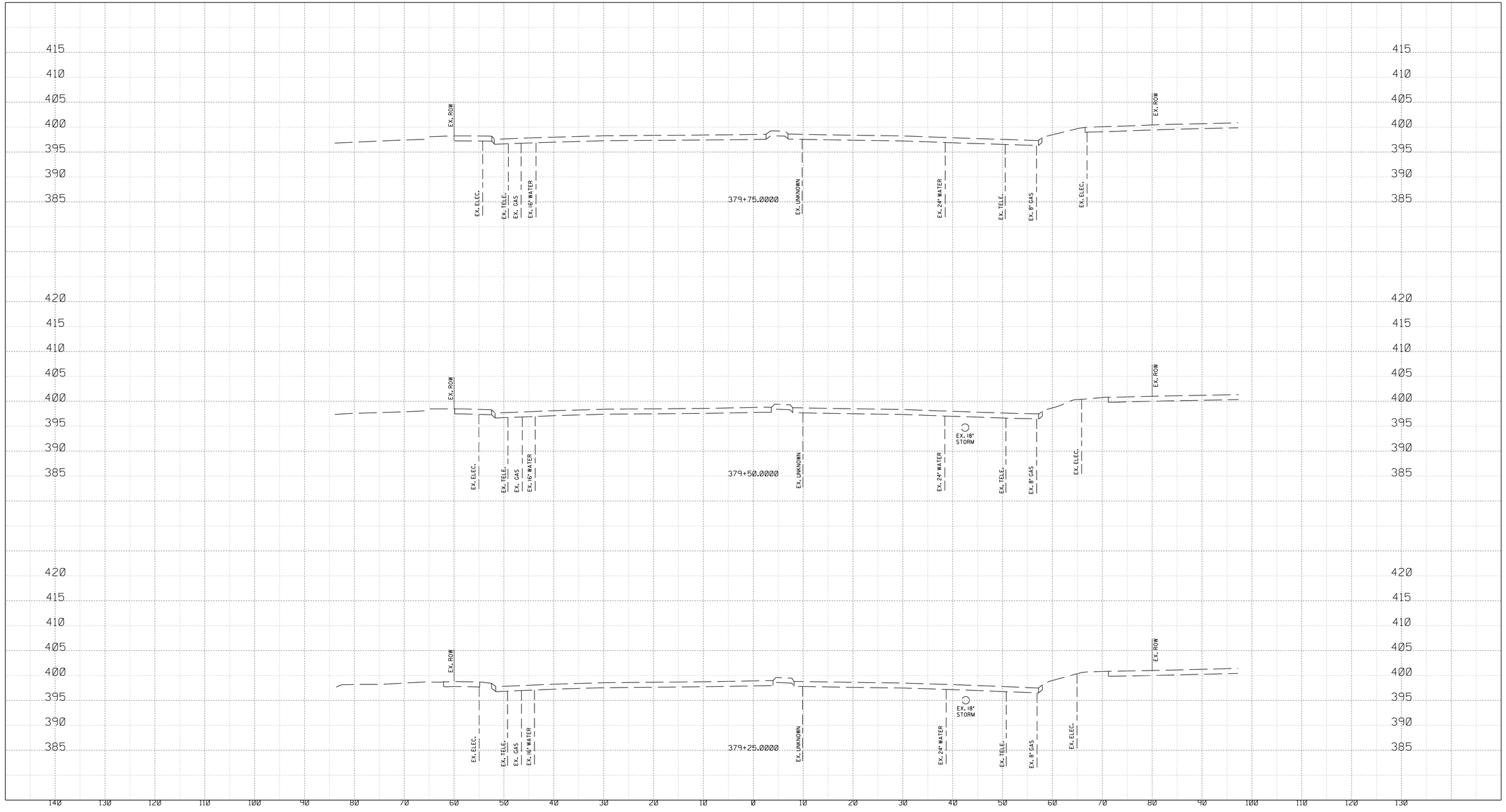

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STATE OF MARYLAND
LORI R. ADGATE
NO. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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XS-12

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

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Chief, Division of Transportation Engineering — Date

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WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

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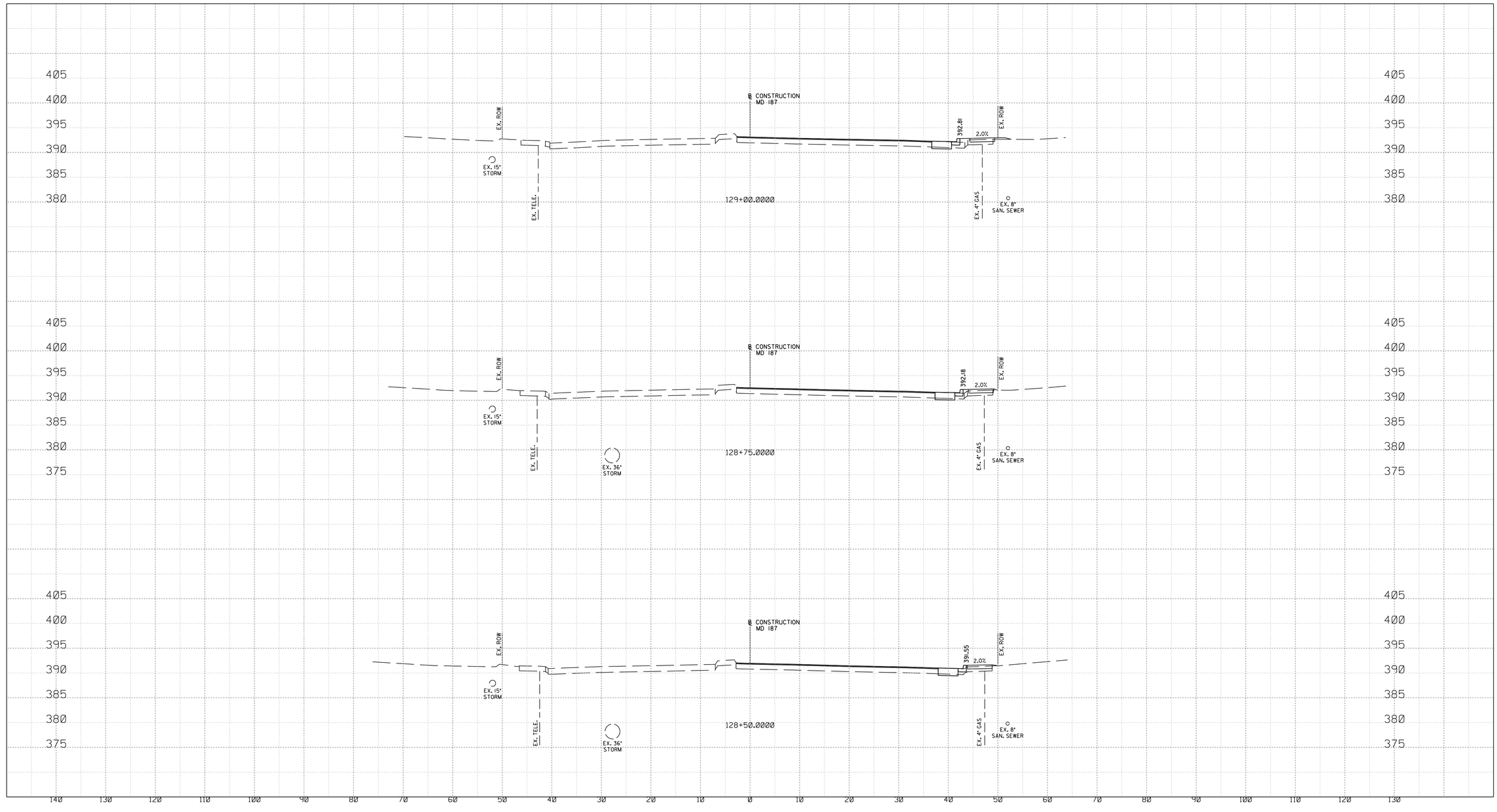
Project No. : 502106 SHEET 64 of 69



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STATE OF MARYLAND · LORI R. ADGATE · No. 28255 · PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

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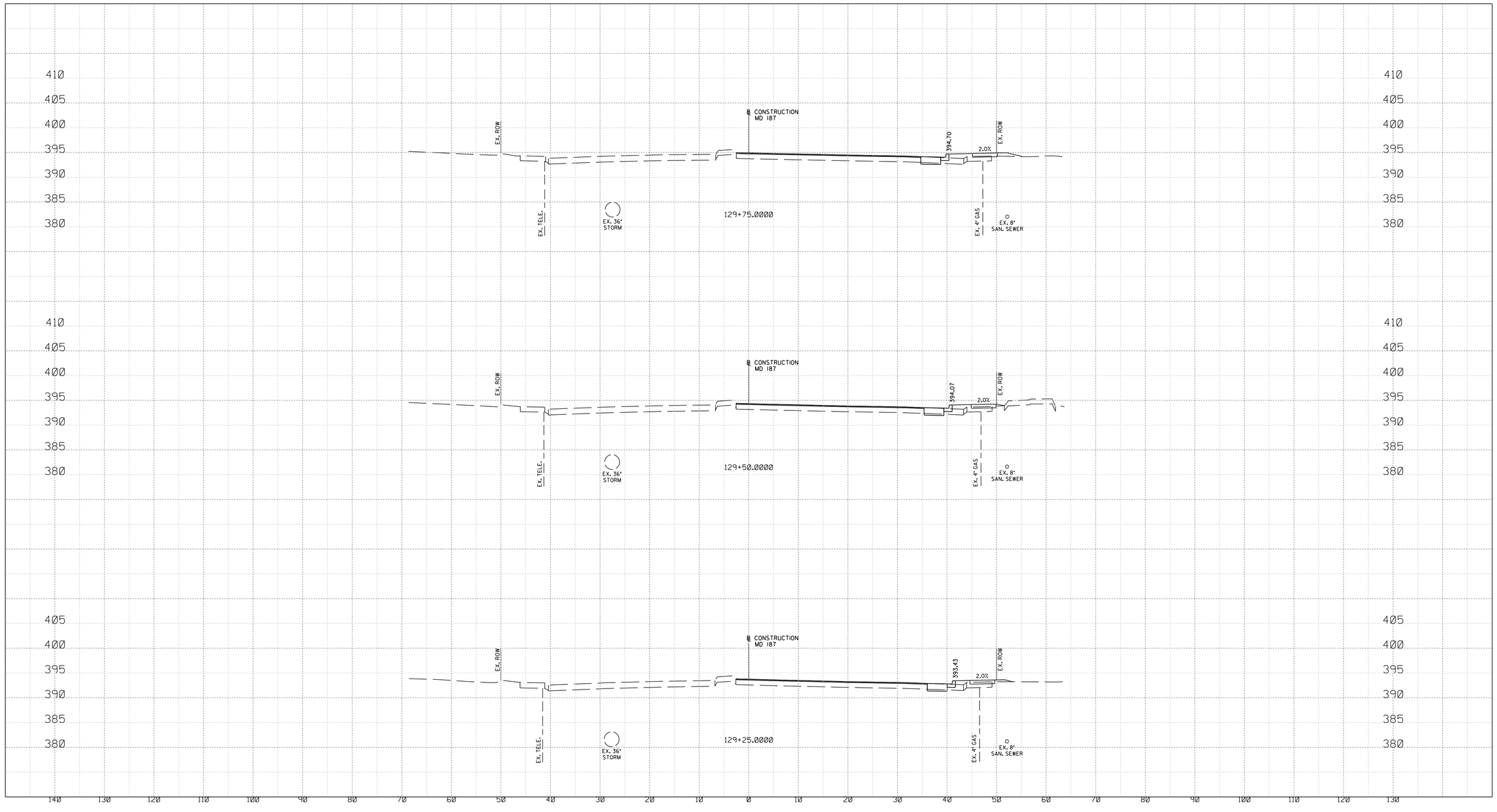
XS-13

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 65 of 69



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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

STATE OF MARYLAND
LORI R. ADGATE
No. 28255
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by : Drawn by : Checked by :

XS-14

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 66 of 69

11/19/2021
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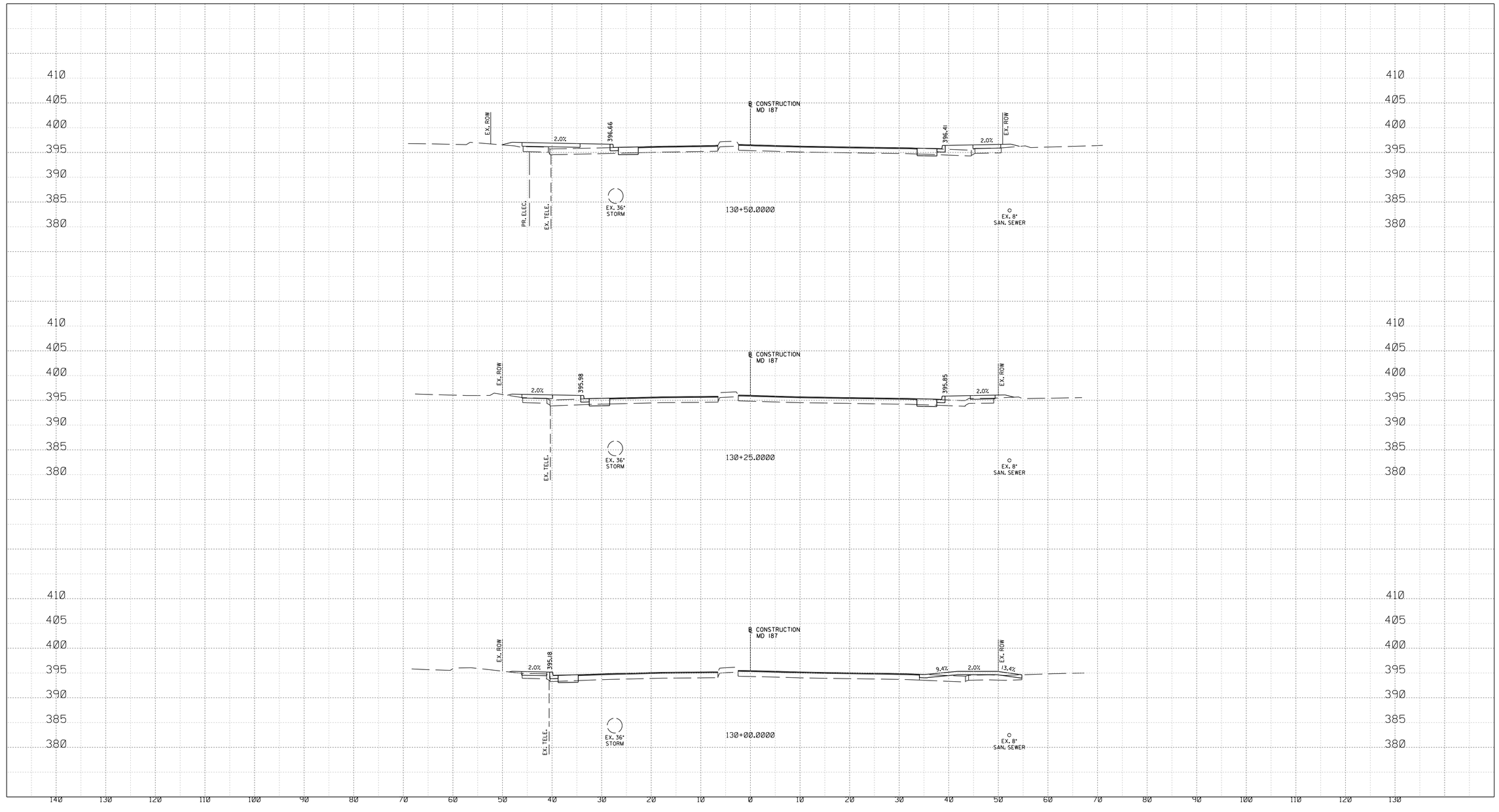

10' 0 10' 20'

SCALE: 1" = 10'

XS–15

SHA TRACKING NO. 21APMO008XX

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

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

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Chief, Design Section — Date

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Chief, Division of Transportation Engineering — Date

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Project No. : 502106 SHEET 67 of 69

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No. 28255
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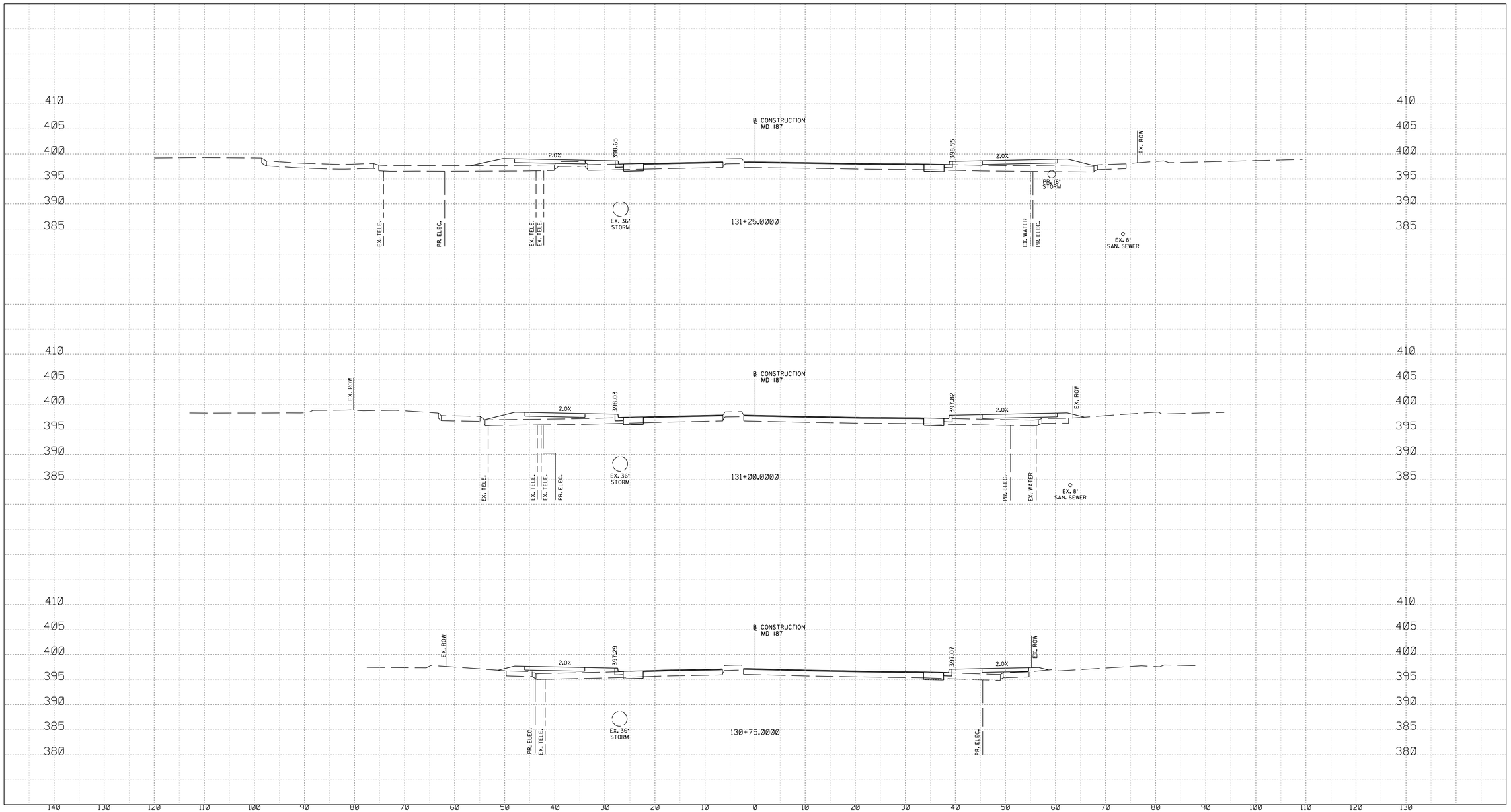

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No. 28255
PROFESSIONAL ENGINEER

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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date
Designed by : Drawn by : Checked by :

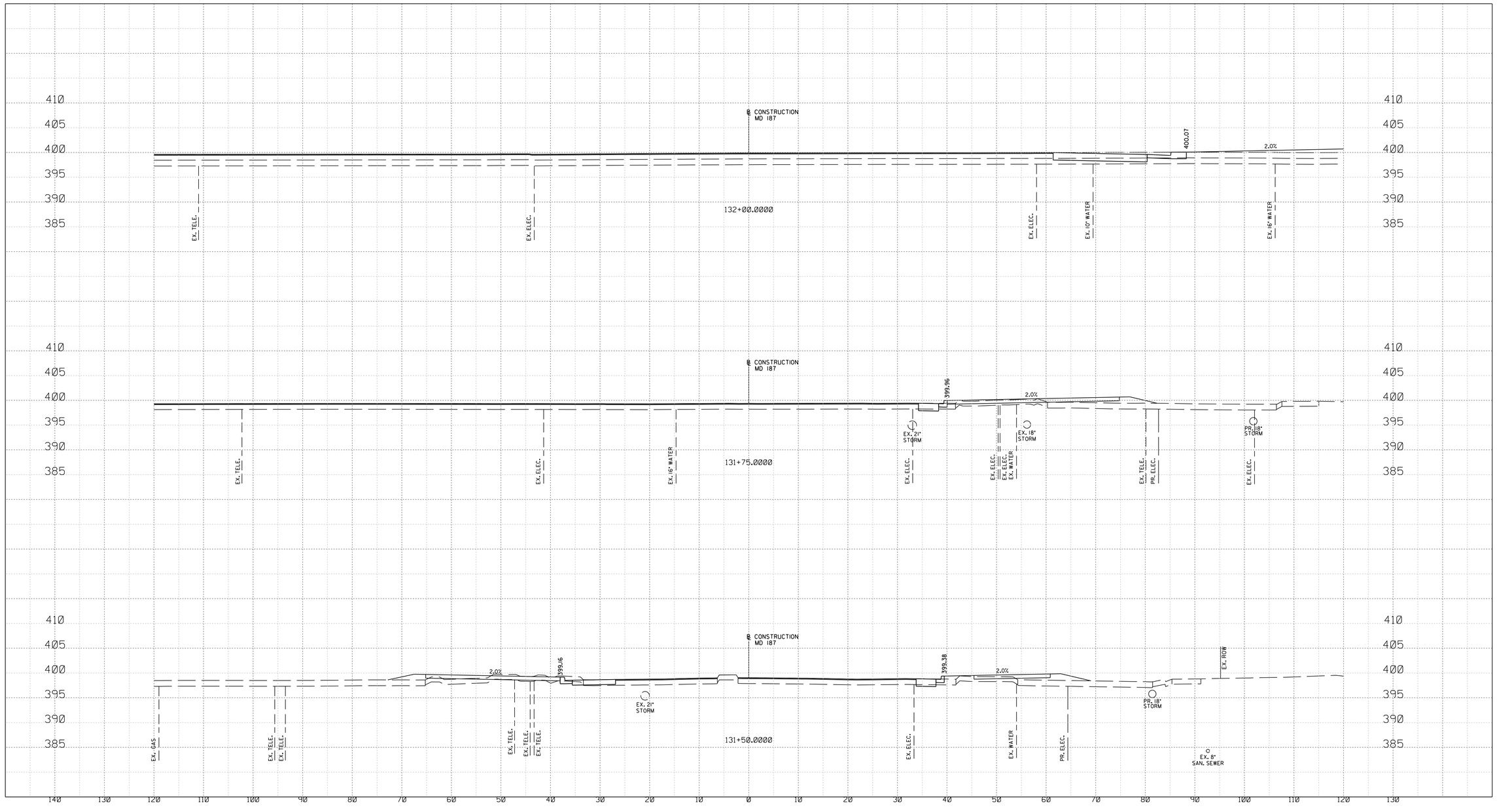
XS-16

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : JUNE 2020

Project No. : 502106 SHEET 68 of 69



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XS-17

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

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WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

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