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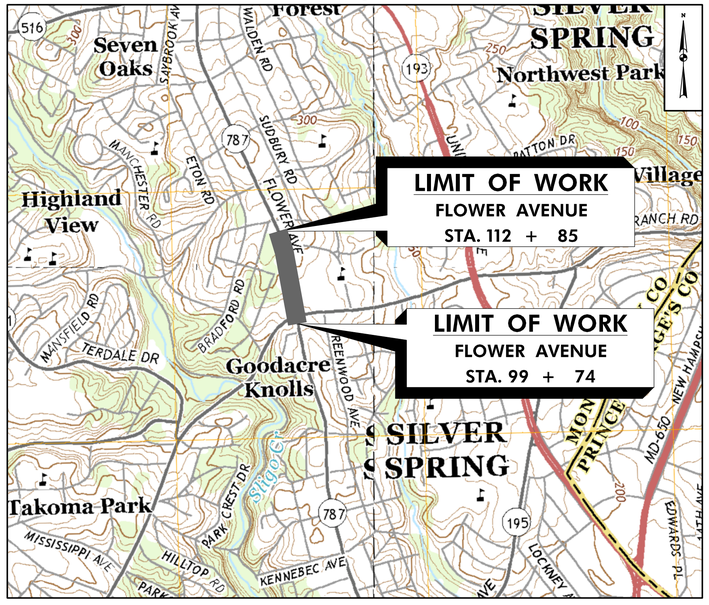
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
FLOWER AVENUE SEPARATED BIKE LANES

FROM PINEY BRANCH ROAD TO ARLISS STREET

CIP PROJECT NO. 502004
65% SUBMITTAL, FEBRUARY 2025



VICINITY MAP
SCALE: 1" = 1000'

LENGTH OF PROJECT:
FLOWER AVENUE = 0.25 miles

RELATED REQUIRED PERMITS

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

TYPE OF PERMIT	REQD	NOT REQD	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		X			
WATERWAY/WETLAND(S)					
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Certification		X			
MDE Dam Safety		X			
DPS Roadside Tree Protection Plan	X			Approval Date	
N.P.D.E.S. NOTICE OF INTENT	X				
FEMA LOMR (Required Post Construction)	X				
SHA Access Permit:	X				
M-NCPPC Parks Permit:		X			
MCDPS SEDIMENT CONTROL	X				

SHA PERMIT NUMBER: 24APM0001XX

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
70,600 square feet	70,600 square feet
Shade Trees Required	**Shade Trees Proposed to be Planted**
26	22
Fee in Lieu (Trees Required − Trees Proposed) × $250	**Total Disturbed Area** $ $1,000

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) × 15

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

OWNER'S CERTIFICATION

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

DATE

JOSEPH MOGES, P.E.
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "1994 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.

DATE

CARRIE CASTO, P.E.
MD. REGISTRATION NO. 28397

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO 724 CUBIC YARDS OF EXCAVATION, 179 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 62,629 SQUARE FEET.

DATE

CARRIE CASTO, P.E.
MD. REGISTRATION NO. 28397

The following standards (construction and temporary traffic control) are required for this project:

A. MD 374.31 - Standard C O G Inlets 5', 10', 15' & 20'
B. MD 374.68 - Precast or Cast-In-Place C O G/C O S Opening for 8" Curb 5' or 10' Only
C. MD 383.01 - Standard Manhole
D. MD 386.11 - Standard Junction Box
E. MD 620.02-01 - Standard Types C And D Concrete Curb and Combination Concrete Curb & Gutter
F. MD 620.03 - Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramps
G. MD 630.01 - Standard Entrance Construction Residential & Commerial Method No.1
H. MD 630.02 - Standard Entrance Construction Residential & Commerial Method No.2
I. MD 655.11 - Sidewalk Ramps Perpendicular
J. MD 655.12 - Sidewalk Ramps Parallel
K. MD 655.13 - Sidewalk Ramps Combination
L. MD 655.40 - Detectable Warning Surfaces
M. MC-100.01 - Combination Concrete Curb and Gutter - Type A
N. MC-102.01 - Depressed Curb Entrance
O. MC-111.01 - Business District Sidewalk

For all standards referred to on the plans the contractor must go to the MDOT SHA Book of Standards or Montgomery County design 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
https://www.montgomerycountymd.gov/dot-dte/common/standards.html

MISS UTILITY

THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN HOA PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. HOA SHALL NOT BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

DESIGN TRAFFIC DATA

ROADWAY	FLOWER AVENUE	
CONTROLS / YEARS	2022	2045
AVERAGE DAILY TRAFFIC (A.D.T.)	11900	13400
DESIGN HOURLY VOLUME (D.H.V.)	1080	1300
DIRECTIONAL DISTRIBUTION	50.7%	50.7%
% TRUCKS - A.D.T.	2.8%	2.8%
% TRUCKS - D.H.V.	1.7%	1.7%
DESIGN SPEED M. P. H.	30 MPH	
FUNCTIONAL CLASSIFICATION	URBAN MAJOR COLLECTOR	
CONTROL OF ACCESS	NONE	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	25 MPH	

OWNER - MONTGOMERY COUNTY DEPT. OF TRANSPORTATION
JOSEPH MOGES
100 Edison Park Drive, 4th Floor
Gaithersburg, MD 20878
227-251-1268
joseph.moges@montgomerycountymd.gov

PROJECT MANAGER
KHURSHEED BILGRAMI, PE
100 Edison Park Drive, 4th Floor
Gaithersburg, MD 20878
240-777-7266
khursheed.bilgramil@montgomerycountymd.gov

NO.	REVISION	BY	APP'D	DATE

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DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

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BiPPA Bicycle and Pedestrian Priority Areas

TI-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
TITLE SHEET

SCALE: N.T.S.

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2/26/2025
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I-01

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BiPPA Bicycle and Pedestrian Priority Areas

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_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
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2/26/2025
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GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2023, ALL ERATA AND ADDENDA THERETO, AND THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES.
2. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/91 DATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.
3. 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.
4. 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 BEFORE PROCEEDING WITH CONSTRUCTION.
5. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
6. CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
7. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
8. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS AND WATER QUALITY SWALES SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
9. 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
10. 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 APPROPRIATE RIGHT-OF-WAY PLATS.
11. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
12. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.
13. ALL PROPOSED BUS STOPS SHALL BE ADA COMPLIANT.
14. FOR NEW CURB AND GUTTER ALONG MD 320 (PINEY BRANCH ROAD) AND MD 594-D (ARLISS STREET) REFER TO MD 580.03 NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT. IN NOTE 1 OF MD 580.03, REPLACE PCC MIX NO. 3 WITH PCC MIX NO. 13.

SURVEY

1. HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91
   VERTICAL DATUM: NAVD 1988
   SURVEY UNIT: SURVEY FEET
2. DATE OF SURVEY: SEPTEMBER, 2022
   SURVEY PERFORMED BY: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
   100 EDISON PARK DRIVE, 4TH FLOOR
   GAITHERSBURG, MD 20878

   AUGUST, 2022
   AMT AND ASSOCIATES, INC. CONSULTING ENGINEERS
   800 KING FARM BOULEVARD, 4TH FLOOR
   ROCKVILLE, MD 20850
   INVERT INFORMATION FOR EX-MH-2 AND EX-MH-3 PROVIDED BY AMT. AMT MAKES NO REPRESENTATION, WARRANTY OR GUARANTEE OF THE INVERT ELEVATIONS FOR THIS PROJECT.
3. ALL DIMENSIONS, STATIONS, AND ELEVATIONS ARE IN SURVEY FEET UNLESS OTHERWISE SHOWN.

   THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC FEATURES AND ELEVATIONS, ABOVE AND BELOW GROUND, PRIOR TO BEGINNING CONSTRUCTION IN THE FIELD.

   THE CONTRACTOR SHALL BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.
4. A BOUNDARY SURVEY WAS PERFORMED. IF ANY DISPUTE ARISES AS TO THE LOCATION OF RIGHT-OF-WAY LINES, PROPERTY LINES, OWNERSHIP, ETC., ADDITIONAL CONSULATATION WITH A MARYLAND-LICENSED SUREVEYOR IS ADVISED.

UTILITES

1. DATE OF INVESTIGATION: OCTOBER, 2022
   UTILITY INVESIGATION PERFORMED BY: AB CONSULTANTS, INC.
   9450 ANNAPOLIS ROAD
   LANHAM, MD 20706
   PHONE: (301) 306-3091 FAX: (301) 306-3092

   ALL UTILITY MAPPING (QUALITY LEVEL D) WAS PREPARED BASED ON RECORDS PROVIDED BY UTILITY OWNERS FOR THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY MISS UTILITY ONE CALL (811 OR 800-257-7777) 48 HOURS BUT NOT MORE THAN 10 DAYS PRIOR TO ANY EXCAVATION WORK.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.
4. THE FOLLOWING UTILITY COMPANIES SHALL ALSO BE SPECIFICALLY NOTIFIED SIX WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION:

   PEPCO, ED KOVAR, 301-548-4340
   AT&T, GARY WIGFIELD, 301-874-1180
   FIBERLIGHT, MIKE JOHNSON, 678-347-9265
   WASHINGTON GAS LIGHT COMPANY, COLIN BURKE, 703-750-5541
   COMCAST, DWAYNE DOUTY, 301-456-8957
   WASHINGTON SUBURBAN SANITARY COMMISSION, KEVIN LETHBRIDGE, 301-206-7339
   VERIZON, JON BOBEL, 301-282-2942
   VERIZON BUSINESS, ADAM RICE, 571-220-8978
5. NO MECHANIZED EQUIPMENT SHALL BE USED FOR EXCAVATION IN CLOSE PROXIMITY TO UTILITIES. CONTRACTOR SHALL HAND DIG ONLY.
6. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATION OCCURS WITHIN 24 INCHES OF A GAS FACILITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING AND PROTECTING EXISTING UTILITIES AS DIRECTED BY THE ENGINEER AND UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES DUE TO NEGLIGENCE.
8. MD 320 (PINEY BRANCH ROAD) HAS AN ESIMTAED PAVEMENT STRUCTURE OF 8.5" ASPHALT OVER 6" STONE. PLEASE REFER TO MD 587.01 REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES AND USE SUPERPAVE ASPHALT MIX 19.0MM FOR FULL DEPTH PATCH, PG 64S-22, LEVEL 2 FOR UTILITY PATCHING.

GN-01

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_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
GENERAL NOTES

SHEET 03 of 87

2/26/2025
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ABBREVIATIONS

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

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 .....
EXISTING STORM DRAIN .....
EXISTING INLET .....
EXISTING UTILITY POLE .....
EXISTING TREE .....
EXISTING TREE LINE .....
EXISTING TREE TO BE REMOVED .....
EXISTING GAS LINE (QUALITY LEVEL D) .....
EXISTING GAS LINE (QUALITY LEVEL B /C) .....
EXISTING ELECTRIC LINE (QUALITY LEVEL D) .....
EXISTING ELECTRIC LINE (QUALITY LEVEL B /C) .....
EXISTING TELEPHONE LINE (QUALITY LEVEL D) .....
EXISTING TELEPHONE LINE (QUALITY LEVEL B /C) .....
EXISTING SANITARY SEWER LINE (QUALITY LEVEL D) .....
EXISTING SANITARY SEWER LINE (QUALITY LEVEL B /C) .....
EXISTING WATER LINE (QUALITY LEVEL D) .....
EXISTING WATER LINE (QUALITY LEVEL B /C) .....

CUT SLOPE C
FILL SLOPE ..... F
LIMIT OF DISTURBANCE ..... LOD
SILT FENCE .....
SUPER SILT FENCE ..... SSF
DIVERSION FENCE ..... SSF
STONE CHECK DAM ..... CD
TEMPORARY STONE OUTLET STRUCTURE ..... TSOS
TEMPORARY GABION OUTLET STRUCTURE ..... TGOS
AT–GRADE INLET PROTECTION ..... AGIP
CURB INLET PROTECTION ..... CIP
COMBINATION INLET PROTECTION ..... COIP
MEDIAN INLET PROTECTION ..... MIP
STANDARD INLET PROTECTION ..... SIP
TEST HOLE LOCATION .....
STABILIZED CONSTRUCTION ENTRANCE ..... SCE
TEMPORARY ORANGE CONSTRUCTION FENCE ..... TPF
PROPOSED TREE .....
CRITICAL ROOT ZONE .....
TREE REMOVAL .....

AB-01

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

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RECOMMENDED FOR APPROVAL
_____ _____
Chief, Design Section Date

APPROVED
_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ABBREVIATIONS & SYMBOLS

SCALE: NONE SHEET 04 of 87

2/26/2025
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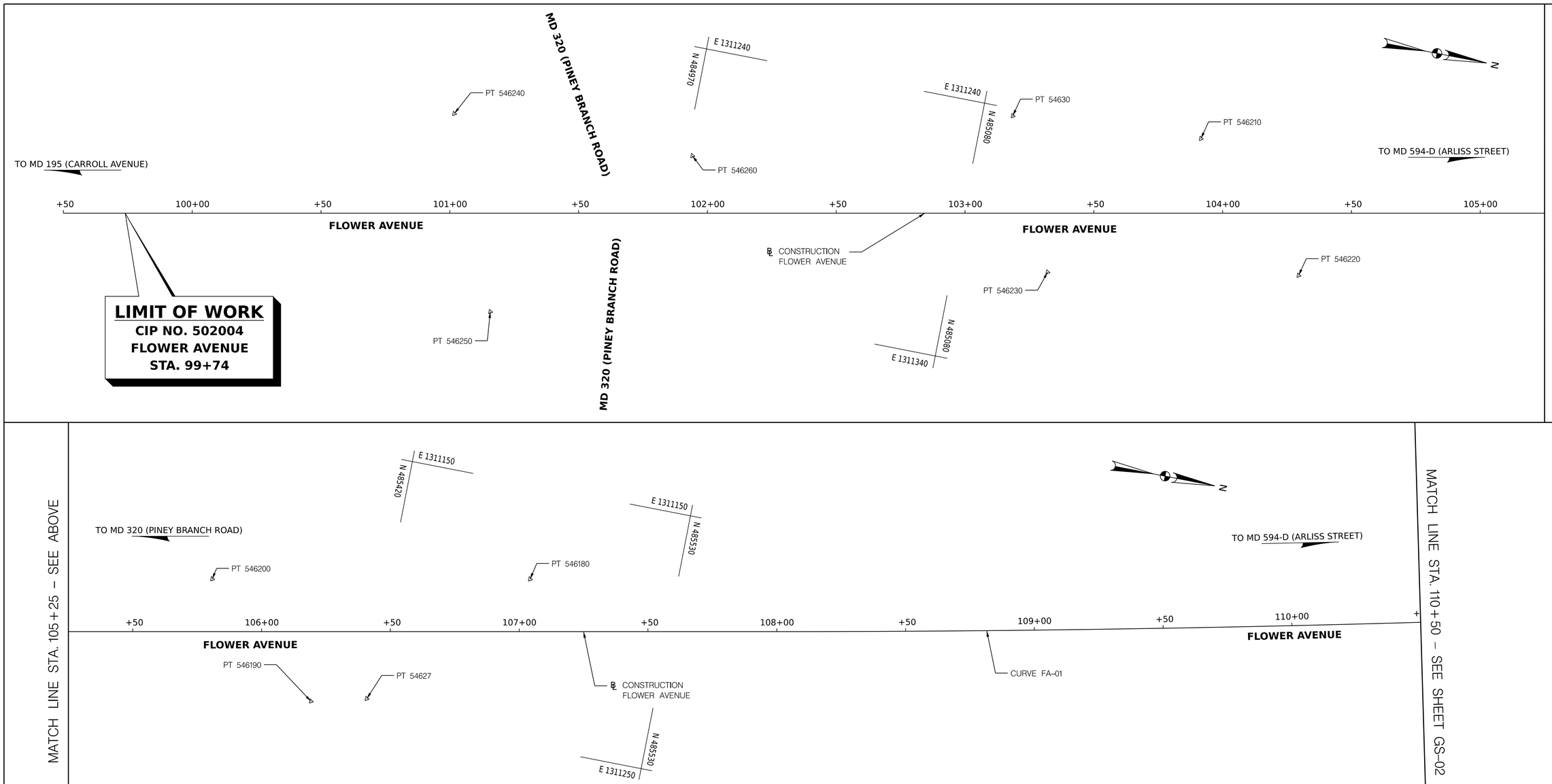

SEE SHEET GS-02
FOR BASELINE AND
TRAVERSE DATA

GS-01

20' 0 20' 40'
SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
GEOMETRY SHEET

SCALE: 1"=20'

SHEET 05 of 87

PROFESSIONAL CERTIFICATION:
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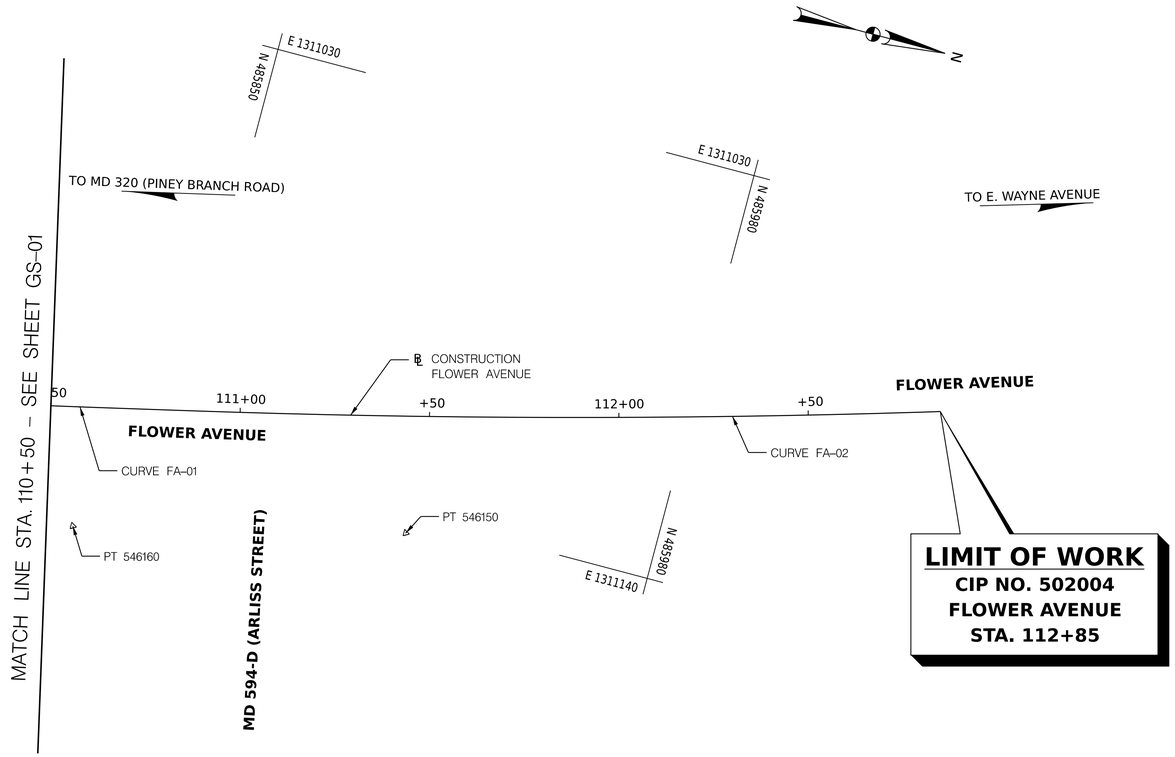

BASELINE DATA					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	PT	100+00.00	484786.2772	1311340.8211	N 11° 02' 02.6383" W
FA-01	PC	108+01.90	485573.3552	1311187.3429	N 11° 02' 02.6383" W
	PI	109+47.57	485716.3285	1311159.4635	
	CC		483937.4200	1302797.8201	
	PCC	110+93.21	485858.2689	1311126.7286	N 12° 59' 12.2413" W
FA-02	PCC	110+93.21	485858.2689	1311126.7286	N 12° 59' 12.2413" W
	PI	111+89.09	485951.6955	1311105.1822	
	CC		485198.2945	1308265.0430	
	PT	112+84.90	486043.5178	1311077.5878	N 16° 43' 35.4820" W

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
FA-01	1° 57' 09.6030" LT	0° 40' 13.1492"	8547.5363	145.6662	291.3041	1.2411
FA-02	3° 44' 23.2407" LT	1° 57' 03.4475"	2936.8028	95.8790	191.6899	1.5647

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
546240	484878.7417	1311283.4065	272.31
546250	484907.1757	1311356.2199	274.49
546260	484972.5848	1311281.7822	274.85
54630	485091.7017	1311242.7621	277.65
546230	485116.5786	1311299.7306	278.75
546210	485165.0790	1311237.4348	280.13
546220	485212.4705	1311282.3385	282.93
546200	485352.4756	1311209.6440	282.77
546190	485399.1821	1311248.8661	290.39
54627	485420.2558	1311243.7496	291.49
546180	485473.5875	1311186.0421	293.94
546160	485829.8925	1311165.5251	307.00
546150	485915.3238	1311144.7781	309.50

GS-02

20' 0 20' 40'
SCALE: 1" = 20'

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Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES GEOMETRY SHEET

SCALE: 1"=20'

SHEET 06 of 87

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2/26/2025
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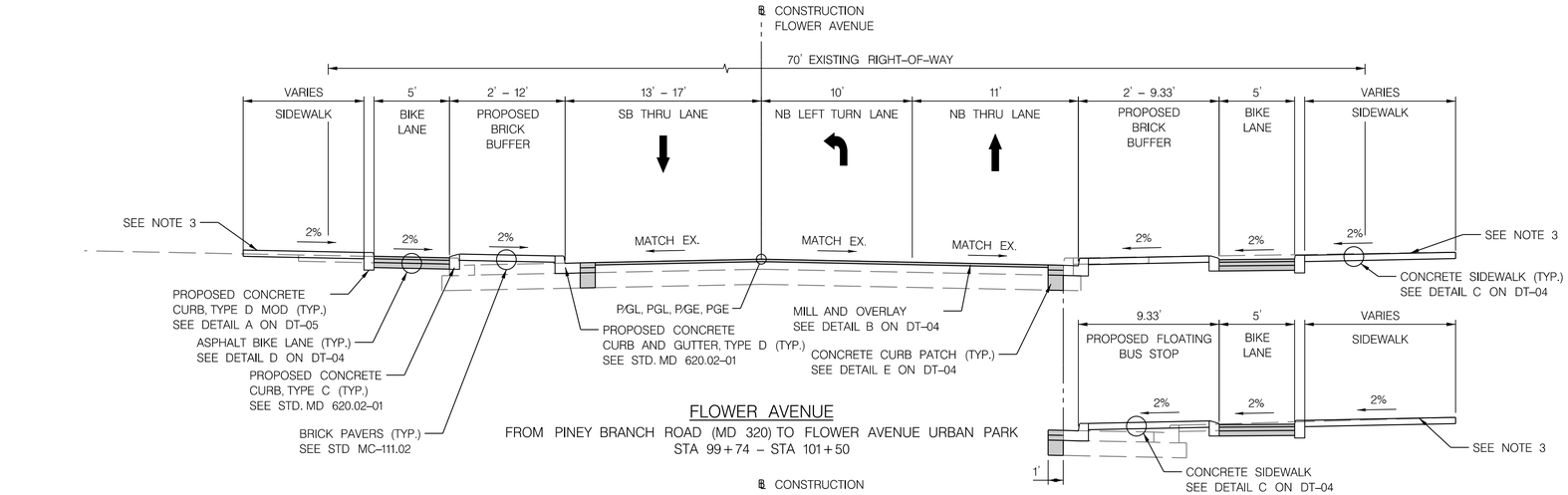
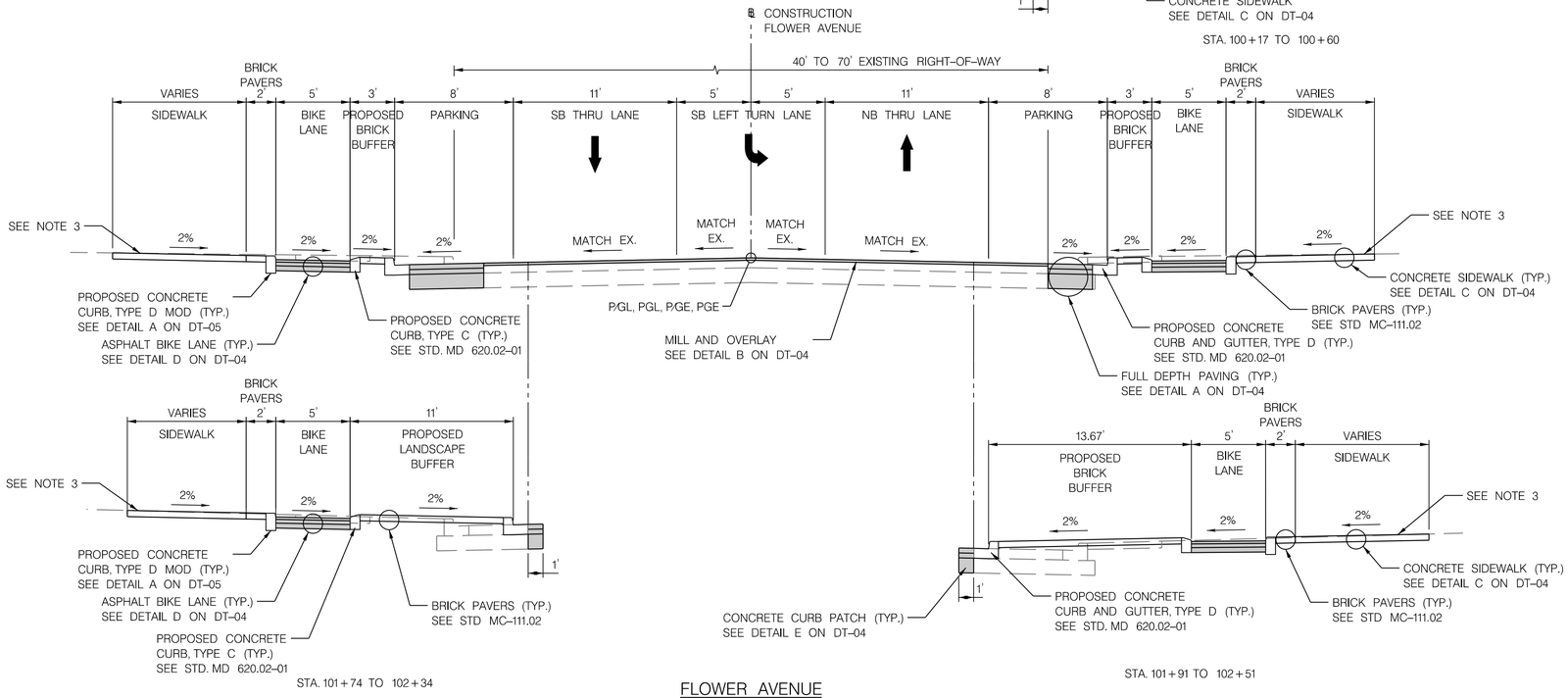


FLOWER AVENUE

FROM PINEY BRANCH ROAD (MD 320) TO FLOWER AVENUE URBAN PARK
STA 99+74 – STA 101+50



FLOWER AVENUE

FROM PINEY BRANCH ROAD (MD 320) TO FLOWER AVENUE URBAN PARK
STA 101+50 – STA 104+43

NOTES:

1. SEE PLAN SHEETS FOR LIMITS AND PAVEMENT TYPE.
2. SEE DT-01 FOR PAVEMENT DETAILS.
3. SEE PLAN SHEETS FOR LIMITS AND TYPE OF PROPOSED SIDEWALK.

5' 0 10' 20'
SCALE: 1" = 5'

TS-01

PROFESSIONAL CERTIFICATION:
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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES TYPICAL SECTIONS

SCALE: 1"=5'

SHEET 07 of 87

2/26/2025
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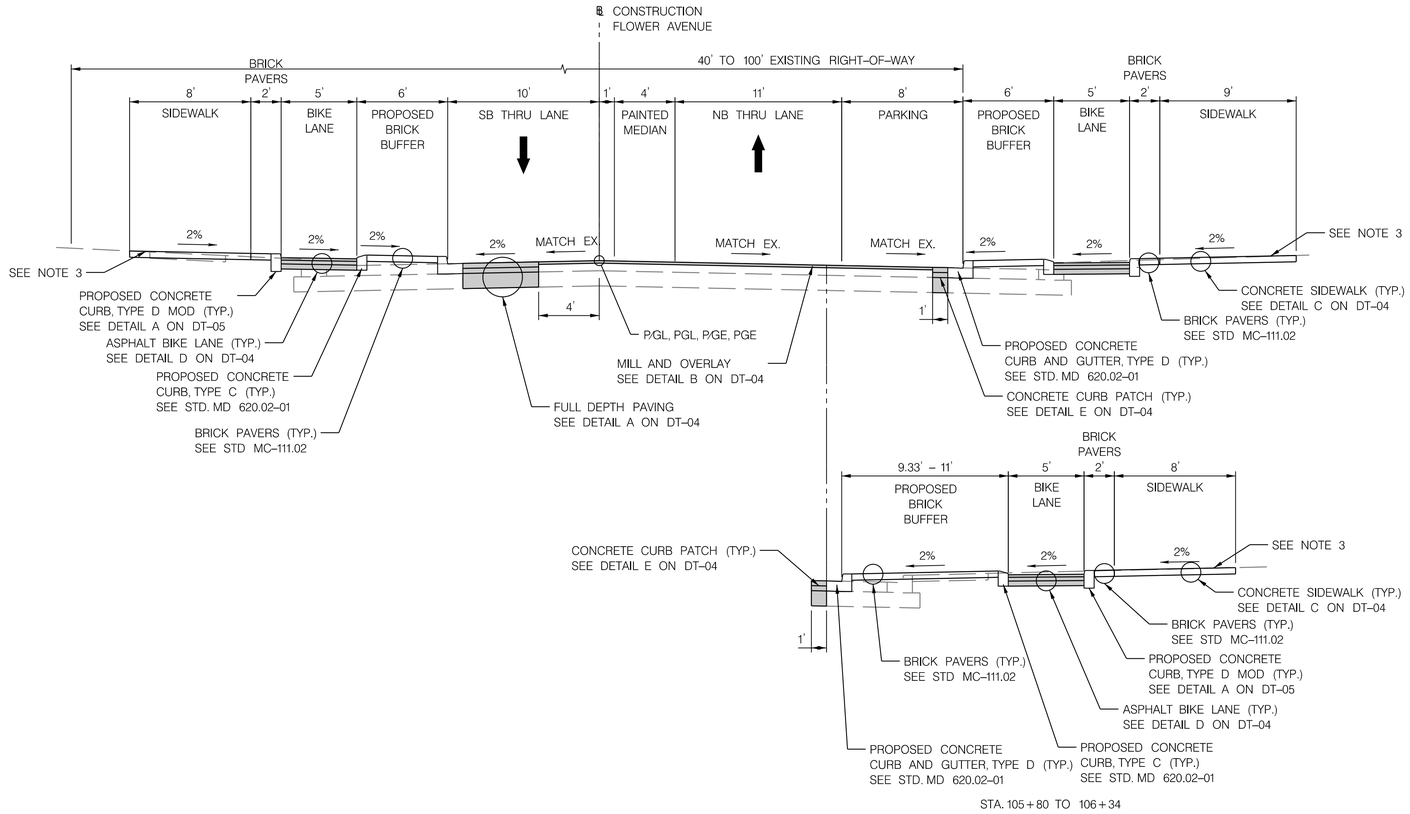

STA. 105+80 TO 106+34

FLOWER AVENUE

FROM PINEY BRANCH ROAD (MD 320) TO FLOWER AVENUE URBAN PARK
STA 104+43 – STA 106+34

NOTES:
1. SEE PLAN SHEETS FOR LIMITS AND PAVEMENT TYPE.
2. SEE DT-01 FOR PAVEMENT DETAILS.
3. SEE PLAN SHEETS FOR LIMITS AND TYPE OF PROPOSED SIDEWALK.

5' 0 10' 20'
SCALE: 1" = 5'

TS-02

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.
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DRAWING NO.:	DATE:

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_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES TYPICAL SECTIONS

SCALE: 1"=5'

SHEET 08 of 87

2/26/2025
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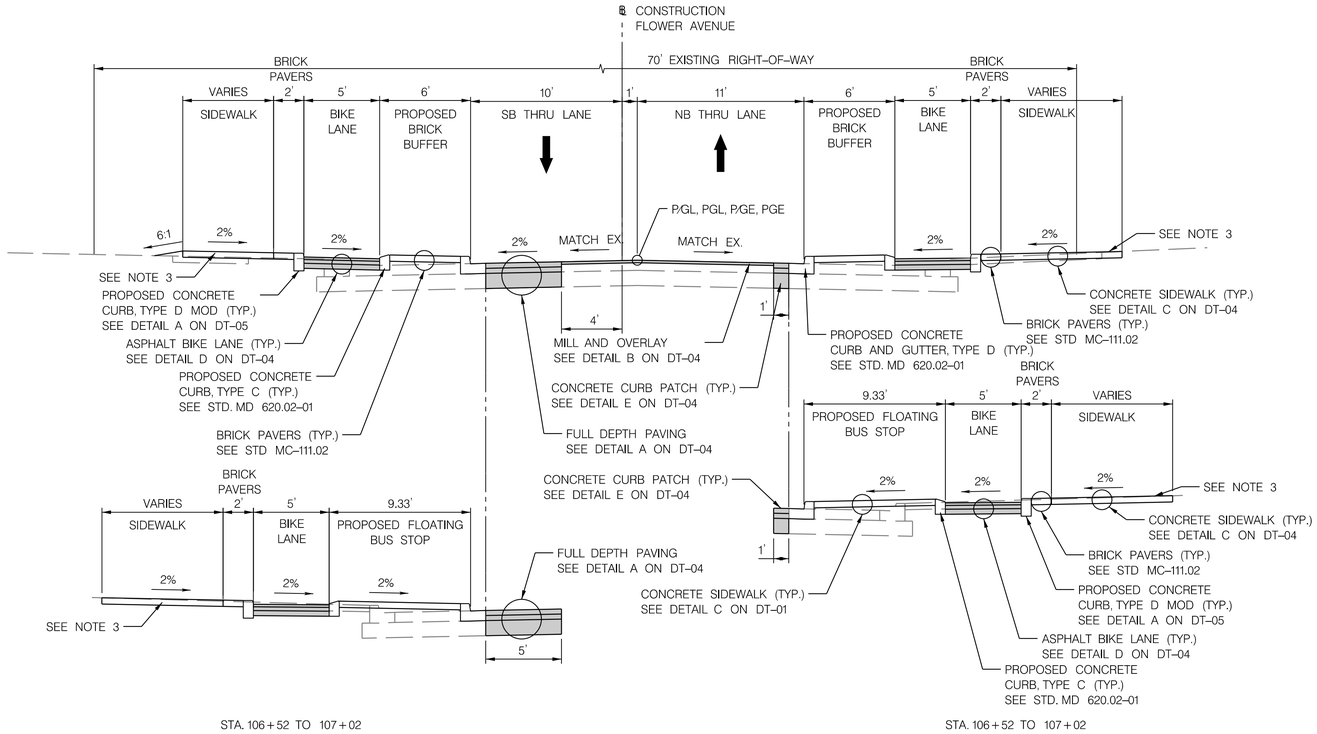
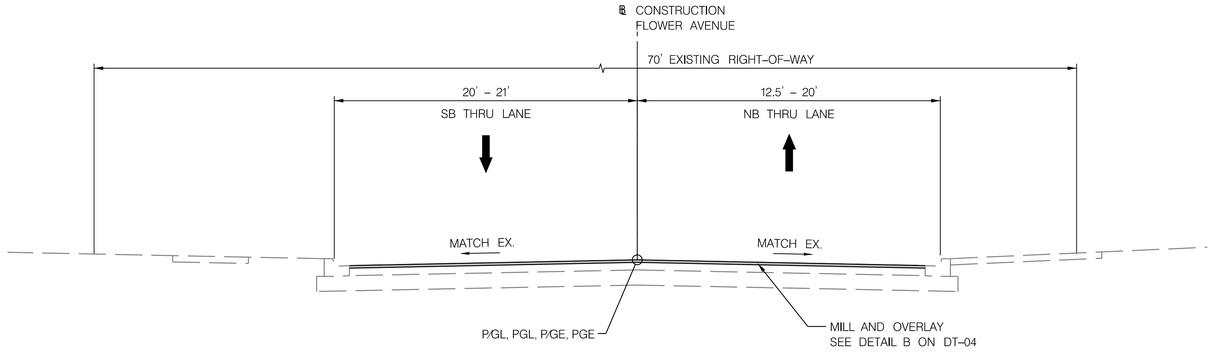


FLOWER AVENUE

FROM PINEY BRANCH ROAD (MD 320) TO FLOWER AVENUE URBAN PARK
STA 106+34 – STA 111+56



FLOWER AVENUE

FROM PINEY BRANCH ROAD (MD 320) TO FLOWER AVENUE URBAN PARK
STA 111+56 – STA 112+85

NOTES:
1. SEE PLAN SHEETS FOR LIMITS AND PAVEMENT TYPE.
2. SEE DT-04 FOR PAVEMENT DETAILS.
3. SEE PLAN SHEETS FOR LIMITS AND TYPE OF PROPOSED SIDEWALK.

5' 0 10' 20'
SCALE: 1" = 5'

TS-03

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
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CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES TYPICAL SECTIONS

SCALE: 1"=5'

SHEET 09 of 87

PROFESSIONAL CERTIFICATION:
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2/26/2025
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MODIFIED TYPE D CURB (ITEM NO. 600000–A)

QTY (LF)	STATION / OFFSET	REMARKS
80	STA. 99+94.39 /27.44' RT TO STA. 100+70.64 /38.33' RT	SEE DETAIL A ON DT–05
117	STA. 100+29.03 /11.47' LT TO STA. 101+03.73 /72.77' LT	SEE DETAIL A ON DT–05
53	STA. 100+83.65 /38.33' RT TO STA. 101+26.49 /52.19' RT	SEE DETAIL A ON DT–05
117	STA. 101+75.86 /56.91' LT TO STA. 102+78.92 /35' LT	SEE DETAIL A ON DT–05
72	STA. 101+91.08 /50' RT TO STA. 102+54.94 /37.67' RT	SEE DETAIL A ON DT–05
106	STA. 102+72.56 /37.67' RT TO STA. 103+70.34 /37.67' RT	SEE DETAIL A ON DT–05
96	STA. 103+08.92 /35' LT TO STA. 103+98.39 /35' LT	SEE DETAIL A ON DT–05
199	STA. 103+90.97 /37.67' RT TO STA. 105+86.59 /35.04' RT	SEE DETAIL A ON DT–05
44	STA. 104+13.39 /35' LT TO STA. 104+49.15 /36.73' LT	SEE DETAIL A ON DT–05
24	STA. 104+62.24 /33.04' LT TO STA. 104+79.09 /28.39' LT	SEE DETAIL A ON DT–05

STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)

QTY (LF)	STATION / OFFSET	REMARKS
73	STA. 99+96.50 /22.91' RT TO STA. 100+67.10 /30.33' RT	SEE STD MD 620.02–01
33	STA. 100+83.31 /30.33' RT TO STA. 101+12.63 /25.97' RT	SEE STD MD 620.02–01
15	STA. 101+17.56 /25.14' RT TO STA. 101+29.20 /30.33' RT	SEE STD MD 620.02–01
70	STA. 100+42.09 /17.57' LT TO STA. 101+04.41 /22.94' LT	SEE STD MD 620.02–01
13	STA. 101+09.34 /23.77' LT TO STA. 101+15.60 /30.26' LT	SEE STD MD 620.02–01
45	STA. 101+08.73 /72.73' LT TO STA. 101+15.60 /35.26' LT	SEE STD MD 620.02–01
25	STA. 101+29.20 /35.33' RT TO STA. 101+31.02 /50.07' RT	SEE STD MD 620.02–01
38	STA. 101+70.94 /55.94' LT TO STA. 101+83.40 /32' LT	SEE STD MD 620.02–01
17	STA. 101+83.40 /27' LT TO STA. 101+95.17 /20.15' LT	SEE STD MD 620.02–01
8	STA. 101+87.99 /34.67' RT TO STA. 101+90.75 /38.14' RT	SEE STD MD 620.02–01
13	STA. 101+87.99 /29.67' RT TO STA. 101+95.17 /21.93' RT	SEE STD MD 620.02–01
44	STA. 102+00.17 /21.93' RT TO STA. 102+44.93 /29.67' RT	SEE STD MD 620.02–01
71	STA. 102+00.17 /20.15' LT TO STA. 102+78.92 /27' LT	SEE STD MD 620.02–01
102	STA. 102+70.59 /29.67' RT TO STA. 103+72.32 /29.67' RT	SEE STD MD 620.02–01
90	STA. 103+08.92 /27' LT TO STA. 103+98.39 /27' LT	SEE STD MD 620.02–01
194	STA. 103+92.97 /29.67' RT TO STA. 105+86.59 /27' RT	SEE STD MD 620.02–01
36	STA. 104+13.39 /27' LT TO STA. 104+49.15 /26.81' LT	SEE STD MD 620.02–01
16	STA. 104+62.24 /23.96' LT TO STA. 104+77.51 /20.55' LT	SEE STD MD 620.02–01

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)

QTY (SF)	STATION / OFFSET	REMARKS
10	STA. 100+22.03 /33.20' LT	SEE STD MD 655.40
10	STA. 100+53.36 /29.67' RT	SEE STD MD 655.40
10	STA. 100+53.36 /36' RT	SEE STD MD 655.40
16	STA. 100+91.82 /36' LT	SEE STD MD 655.40
16	STA. 101+91.82 /30.26' LT	SEE STD MD 655.40
16	STA. 100+93.66 /18.21' LT	SEE STD MD 655.40
16	STA. 101+00.44 /21.67' RT	SEE STD MD 655.40
16	STA. 101+01.86 /30.33' RT	SEE STD MD 655.40
16	STA. 101+02.80 /43.21' LT	SEE STD MD 655.40
16	STA. 101+02.97 /36' RT	SEE STD MD 655.40
16	STA. 101+08.46 /43' LT	SEE STD MD 655.40
16	STA. 101+20.72 /43' LT	SEE STD MD 655.40
16	STA. 101+23.30 /48' RT	SEE STD MD 655.40
16	STA. 101+28.52 /45.63' RT	SEE STD MD 655.40
16	STA. 101+36.59 /42' RT	SEE STD MD 655.40
16	STA. 101+74.46 /40.82' LT	SEE STD MD 655.40
16	STA. 101+80.45 /42.98' LT	SEE STD MD 655.40
16	STA. 101+82.97 /41.18' RT	SEE STD MD 655.40
16	STA. 101+88.25 /41.96' RT	SEE STD MD 655.40
16	STA. 101+84.71 /46.74' LT	SEE STD MD 655.40
10	STA. 101+93.30 /44.59' RT	SEE STD MD 655.40
16	STA. 102+11.67 /32.67' LT	SEE STD MD 655.40
16	STA. 102+11.67 /27' LT	SEE STD MD 655.40
16	STA. 102+11.67 /16.67' LT	SEE STD MD 655.40
16	STA. 102+11.67 /16.67' RT	SEE STD MD 655.40
16	STA. 102+11.67 /29.67' RT	SEE STD MD 655.40
16	STA. 102+11.67 /35.33' RT	SEE STD MD 655.40

DETECTABLE DIRECTIONAL STRIP (ITEM NO. 600000–B)

QTY (LF)	STATION / OFFSET	REMARKS
9	STA. 100+91.99 /28.26' LT TO STA. 100+93.35 /20.19' LT	SEE DETAIL A ON DT–06
5	STA. 101+00.72 /23.67' RT TO STA. 101+01.48 /28.33' RT	SEE DETAIL A ON DT–06
9	STA. 101+10.46 /42.93' LT TO STA. 101+18.67 /42.94' LT	SEE DETAIL A ON DT–06
6	STA. 101+29.90 /44.10' RT TO STA. 101+34.58 /41.82' RT	SEE DETAIL A ON DT–06
7	STA. 102+11.67 /18.67' LT TO STA. 102+16.67 /25' LT	SEE DETAIL A ON DT–06
9	STA. 102+11.67 /19.33' RT TO STA. 102+11.67 /27.67' RT	SEE DETAIL A ON DT–06

METAL HANDRAIL (ITEM NO. 600000–C)

QTY (LF)	STATION / OFFSET	REMARKS
33	STA. 100+17.90 /21.67' RT TO STA. 100+58.86 /21.67' RT	SEE DETAIL B ON DT–06

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)

QTY (SF)	STATION / OFFSET	REMARKS
900	STA. 99+73.85 /21.11' RT	SEE DETAIL C ON DT–04
300	STA. 100+16.90 /21.67' RT	SEE DETAIL C ON DT–04
97	STA. 100+20.12 /24.85' LT	SEE STD MD 655.11
800	STA. 100+26.60 /38.20' LT	SEE DETAIL C ON DT–04
49	STA. 100+53.36 /29.67' RT	SEE STD MD 655.11
49	STA. 100+53.36 /36' RT	SEE STD MD 655.11
360	STA. 100+86.55 /36' RT	SEE DETAIL C ON DT–04
100	STA. 100+93.66 /18.21' LT	SEE DETAIL C ON DT–04
71	STA. 101+00.44 /21.67' RT	SEE DETAIL C ON DT–04
150	STA. 100+91.82 /35.93' LT	SEE STD MD 655.11
81	STA. 101+02.97 /36' RT	SEE STD MD 655.11
77	STA. 101+23.65 /48.54' RT	SEE STD MD 655.11
98	STA. 101+08.43 /40' LT	SEE DETAIL C ON DT–04
75	STA. 101+27.91 /45' RT	SEE DETAIL C ON DT–04
54	STA. 101+74.46 /41' LT	SEE DETAIL C ON DT–04
40	STA. 101+82.97 /41' RT	SEE DETAIL C ON DT–04
968	STA. 101+75.46 /61.71' LT	SEE DETAIL C ON DT–04
74	STA. 101+84.88 /46.58' LT	SEE STD MD 655.11
51	STA. 101+93.30 /44.59' RT	SEE STD MD 655.11
481	STA. 101+96.27 /40.06' RT	SEE DETAIL C ON DT–04
73	STA. 102+11.67 /32.67' LT	SEE STD MD 655.11
84	STA. 102+11.67 /16.67' LT	SEE DETAIL C ON DT–04
105	STA. 102+11.67 /16.67' RT	SEE DETAIL C ON DT–04
73	STA. 102+11.67 /35.33' RT	SEE STD MD 655.11
770	STA. 102+73.00 /37.67' RT	SEE DETAIL C ON DT–04
1140	STA. 103+08.92 /35' LT	SEE DETAIL C ON DT–04
2752	STA. 103+90.97 /37.67' RT	SEE DETAIL C ON DT–04
291	STA. 104+13.39 /35' LT	SEE DETAIL C ON DT–04

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (ITEM NO. 561118)

QTY (SY)	STATION / OFFSET	REMARKS
38.5	STA. 100+73.29 /21.67' RT	SEE DETAIL C ON DT–05
42.5	STA. 102+59.93 /24.67' RT	SEE DETAIL C ON DT–05
48.5	STA. 102+93.92 /24.67' LT	SEE DETAIL C ON DT–05
43.5	STA. 103+82.83 /24.67' RT	SEE DETAIL C ON DT–05
24	STA. 104+05.89 /24.67' LT	SEE DETAIL C ON DT–05

10 INCH REINFORCED CONCRETE SIDEWALK (ITEM NO. 600000–D)

QTY (SF)	STATION / OFFSET	REMARKS
84	STA. 100+32.87 /27.67' RT	SEE DETAIL G ON DT–04

BRICK SIDEWALK (ITEM NO. 655383)

QTY (SF)	STATION / OFFSET	REMARKS
460	STA. 99+96.92 /21' RT TO STA. 101+37.35 /66.47' RT	SEE STD MC–111.02
387	STA. 100+29.03 /11.46' LT TO STA. 100+85.21 /35.93' LT	SEE STD MC–111.02
690	STA. 100+39.67 /12.44' LT TO STA. 101+10.69 /74.53' LT	SEE STD MC–111.02
361	STA. 101+67.80 /58.12' LT TO STA. 102+78.92 /27' LT	SEE STD MC–111.02
522	STA. 101+81.31 /67.53' RT TO STA. 102+51.19 /34.67' RT	SEE STD MC–111.02
207	STA. 102+15.67 /37' LT TO STA. 102+78.92 /42' LT	SEE STD MC–111.02
485	STA. 102+70.59 /29.67' RT TO STA. 103+72.32 /29.67' RT	SEE STD MC–111.02
244	STA. 103+09.58 /34' LT TO STA. 103+97.72 /34' LT	SEE STD MC–111.02
883	STA. 103+91.90 /36.67' RT TO STA. 105+85.93 /32.77' RT	SEE STD MC–111.02
163	STA. 104+14.05 /32.67' LT TO STA. 104+48.50 /36.91' LT	SEE STD MC–111.02
140	STA. 104+62.91 /32.86' LT TO STA. 104+78.44 /28.48' LT	SEE STD MC–111.02
405	STA. 104+98.57 /23' LT TO STA. 105+92.54 /23' LT	SEE STD MC–111.02

CONCRETE STEPS (ITEM NO. 697009)

QTY (CY)	STATION / OFFSET	REMARKS
5	STA. 103+72.72 /42' LT	SEE STD MD 657.00

BUS SHELTER (ITEM NO. 700000–A)

QTY (EA)	STATION / OFFSET	REMARKS
1	STA. 100+39.86 26.39' RT	SEE DETAIL C ON DT–06

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)

QTY (LF)	STATION / OFFSET	REMARKS
18	STA. 99+78.78 20.62' RT TO STA. 99+97.39 27.44' RT	SEE STD MD 620.02–01
3	STA. 99+96.50 22.91' RT TO STA. 99+96.92 21' RT	SEE STD MD 620.02–01
37	STA. 100+23.35 41.99' LT TO STA. 100+29.03 11.45' LT	SEE STD MD 620.02–01
8	STA. 100+39.67 12.44' LT TO STA. 100+42.09 17.57' LT	SEE STD MD 620.02–01
13	STA. 100+59.71 21' RT TO STA. 100+67.10 30.33' RT	SEE STD MD 620.02–01
13	STA. 100+83.31 30.33' RT TO STA. 100+86.86 21' RT	SEE STD MD 620.02–01
15	STA. 100+86.73 30.26' LT TO STA. 100+88.73 17.07' LT	SEE STD MD 620.02–01
11	STA. 100+95.37 21' RT TO STA. 101+06.74 30.33' RT	SEE STD MD 620.02–01
14	STA. 100+96.89 30.26' LT TO STA. 100+98.71 18.02' LT	SEE STD MD 620.02–01
11	STA. 101+05.51 21' RT TO STA. 101+06.74 30.33' RT	SEE STD MD 620.02–01
5	STA. 101+03.86 18.50' LT TO STA. 101+04.41 22.94' LT	SEE STD MD 620.02–01
15	STA. 101+08.42 37.94' LT TO STA. 101+21.95 37.9' LT	SEE STD MD 620.02–01
13	STA. 101+08.51 47.94' LT TO STA. 101+19.72 48.25' LT	SEE STD MD 620.02–01
5	STA. 101+09.34 23.77' LT TO STA. 101+11.19 20.67' LT	SEE STD MD 620.02–01
6	STA. 101+10.95 21' RT TO STA. 101+12.63 25.97' RT	SEE STD MD 620.02–01
6	STA. 101+15.60 30.26' LT TO STA. 101+19.48 28.78' LT	SEE STD MD 620.02–01
7	STA. 101+15.60 35.26' LT TO STA. 101+21.83 36.15' LT	SEE STD MD 620.02–01
5	STA. 101+17.56 25.14' RT TO STA. 101+18.09 21' RT	SEE STD MD 620.02–01
7	STA. 101+26.49 52.19' RT TO STA. 101+28.65 58.78' RT	SEE STD MD 620.02–01
14	STA. 101+25.37 41.19' RT TO STA. 101+36.80 36.99' RT	SEE STD MD 620.02–01
6	STA. 101+29.20 35.33' RT TO STA. 101+36.59 36.09' RT	SEE STD MD 620.02–01
8	STA. 101+29.20 35.33' RT TO STA. 101+36.59 36.09' RT	SEE STD MD 620.02–01
9	STA. 101+30.73 49.45' RT TO STA. 101+37.41 47.17' RT	SEE STD MD 620.02–01
21	STA. 101+31.02 50.07' RT TO STA. 101+37.35 66.47' RT	SEE STD MD 620.02–01
7	STA. 101+67.80 /58.12' LT TO STA. 101+70.94 /55.90' LT	SEE STD MD 620.02–01
7	STA. 101+72.07 /45.71' LT TO STA. 101+76.72 /46.67' LT	SEE STD MD 620.02–01
11	STA. 101+75.56 /35.55' LT TO STA. 101+84.15 /39.33' LT	SEE STD MD 620.02–01
5	STA. 101+74.81 /61.57' LT TO STA. 101+75.86 /56.91' LT	SEE STD MD 620.02–01
8	STA. 101+76.55 /32.67' LT TO STA. 101+83.40 /32' LT	SEE STD MD 620.02–01
6	STA. 101+79.55 /25.47' LT TO STA. 101+83.40 /27' LT	SEE STD MD 620.02–01
20	STA. 101+84.04 /63.45' LT TO STA. 101+97.29 /52' LT	SEE STD MD 620.02–01
5	STA. 101+94.04 /16.16' LT TO STA. 101+95.17 /20.15' LT	SEE STD MD 620.02–01
5	STA. 102+00.17 /20.15' LT TO STA. 102+01.17 /16' LT	SEE STD MD 620.02–01
95	STA. 102+03.72 /52.42' LT TO STA. 102+78.92 /42' LT	SEE STD MD 620.02–01
13	STA. 102+06.67 /16' LT TO STA. 102+06.67 /27' LT	SEE STD MD 620.02–01
13	STA. 102+16.67 /16' LT TO STA. 102+16.67 /27' LT	SEE STD MD 620.02–01
30	STA. 101+81.31 /67.53' RT TO STA. 101+82.12 /46.15' RT	SEE STD MD 620.02–01
9	STA. 101+82.50 /36.15' RT TO STA. 101+90.75 /38.14' RT	SEE STD MD 620.02–01
6	STA. 101+82.52 /35.63' RT TO STA. 101+87.99 /34.67' RT	SEE STD MD 620.02–01
5	STA. 101+84.07 /28.28' RT TO STA. 101+87.99 /29.67' RT	SEE STD MD 620.02–01
5	STA. 101+93.73 /18.03' RT TO STA. 101+95.17 /21.93' RT	SEE STD MD 620.02–01
7	STA. 102+00.17 /21.93' RT TO STA. 102+01.10 /16.05' RT	SEE STD MD 620.02–01
15	STA. 102+06.67 /16' RT TO STA. 102+06.67 /29.67' RT	SEE STD MD 620.02–01
15	STA. 102+16.67 /16' RT TO STA. 102+16.67 /29.67' RT	SEE STD MD 620.02–01
6	STA. 102+48.28 /24' RT TO STA. 102+49.93 /29.67' RT	SEE STD MD 620.02–01
2	STA. 102+53.70 /44.67' RT TO STA. 102+54.08 /46.67' RT	SEE STD MD 620.02–01
9	STA. 102+70.59 /29.67' RT TO STA. 102+75.54 /24' RT	SEE STD MD 620.02–01
19	STA. 102+74.32 /45.33' RT TO STA. 102+79.45 /45.33' RT	SEE STD MD 620.02–01
95	STA. 102+74.33 /44.67' RT TO STA. 103+68.58 /44.67' RT	SEE STD MD 620.02–01
19	STA. 103+63.45 /45.33' RT TO STA. 103+68.58 /45.33' RT	SEE STD MD 620.02–01
40	STA. 103+63.57 /69.14' RT TO STA. 103+89.21 /44.67' RT	SEE STD MD 620.02–01
9	STA. 103+67.37 /24' RT TO STA. 103+72.32 /29.67' RT	SEE STD MD 620.02–01
9	STA. 103+93.98 /29.67' RT TO STA. 103+98.30 /24' RT	SEE STD MD 620.02–01
5	STA. 102+75.92 /24' LT TO STA. 102+78.92 /27' LT	SEE STD MD 620.02–01
5	STA. 103+08.92 /27' LT TO STA. 103+11.92 /24' LT	SEE STD MD 620.02–01
19	STA. 103+08.92 /42' LT TO STA. 103+25.67 /44.74' LT	SEE STD MD 620.02–01
5	STA. 103+95.39 /24' LT TO STA. 103+98.39 /27' LT	SEE STD MD 620.02–01
5	STA. 104+13.39 /27' LT TO STA. 104+16.39 /24' LT	SEE STD MD 620.02–01
8	STA. 103+98.39 /42' LT TO STA. 103+98.39 /49.49' LT	SEE STD MD 620.02–01
2	STA. 104+12.06 /44' LT TO STA. 104+12.41 42' LT	SEE STD MD 620.02–01
14	STA. 104+44.34 /15.97' LT TO STA. 104+49.15 /26.81' LT	SEE STD MD 620.02–01
2	STA. 104+49.15 /45' LT TO STA. 104+49.15 /47' LT	SEE STD MD 620.02–01
13	STA. 104+62.24 /23.96' LT TO STA. 104+66.67 /13.34' LT	SEE STD MD 620.02–01
2	STA. 104+62.24 /41.25' LT TO STA. 104+62.24 /43.25' LT	SEE STD MD 620.02–01
12	STA. 104+71.28 /12.81' LT TO STA. 104+77.51 /20.55' LT	SEE STD MD 620.02–01

STANDARD TYPE D COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH MINIMUM (ITEM NO. 634344)

QTY (LF)	STATION / OFFSET	REMARKS
5	STA. 99+73.85 /20.45' RT TO STA. 99+78.78 /20.62' RT	SEE STD MD 620.02–01
178	STA. 99+96.92 /21' RT TO STA. 101+37.35 /66.47' RT	SEE STD MD 620.02–01
132	STA. 100+39.67 /12.45' LT TO STA. 101+10.69 /74.53' LT	SEE STD MD 620.02–01
41	STA. 100+90.83 /47.33' RT TO STA. 101+18.87 /66.20' RT	SEE STD MD 620.02–01
12	STA. 100+99.75 /83.89' LT TO STA. 101+03.73 /72.77' LT	SEE STD MD 620.02–01
344	STA. 101+67.80 /58.12' LT TO STA. 104+75.00 /12.38' LT	SEE STD MD 620.02–01
339	STA. 101+81.31 /67.53' RT TO STA. 104+75.00 /24' RT	SEE STD MD 620.02–01

DT-01

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY SCHEDULES

SHEET 10 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\20262131116\700 CADD\700 Sheet\PHD-D001_FlowerAve.dgn

MODIFIED TYPE D CURB (ITEM NO. 600000–A)

QTY (LF)	STATION / OFFSET	REMARKS
102	STA. 104+97.90 /24.20' LT TO STA. 107+54.00 /24' LT	SEE DETAIL A ON DT–05
153	STA. 106+88.21 /24' LT TO STA. 107+54.00 /24' LT	SEE DETAIL A ON DT–05
116	STA. 106+11.36 /32.47' RT TO STA. 107+20.09 /26' RT	SEE DETAIL A ON DT–05
22	STA. 107+40.09 /26' RT TO STA. 107+55.09 /26' RT	SEE DETAIL A ON DT–05
44	STA. 107+65.57 /24' LT TO STA. 108+03.02 /24' LT	SEE DETAIL A ON DT–05
25	STA. 107+80.23 /26' RT TO STA. 107+98.43 /26' RT	SEE DETAIL A ON DT–05
50	STA. 108+08.43 /26' RT TO STA. 108+51.88 /26' RT	SEE DETAIL A ON DT–05
64	STA. 108+11.68 /24' LT TO STA. 108+69.19 /24' LT	SEE DETAIL A ON DT–05
162	STA. 108+76.84 /26' RT TO STA. 110+34.51 /25' RT	SEE DETAIL A ON DT–05
41	STA. 108+81.54 /24' LT TO STA. 109+16.02 /24' LT	SEE DETAIL A ON DT–05
44	STA. 109+32.77 /24' LT TO STA. 109+70.73 /24' LT	SEE DETAIL A ON DT–05

STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)

QTY (LF)	STATION / OFFSET	REMARKS
96	STA. 104+97.90 /16.15' LT TO STA. 106+93.21 /16' LT	SEE STD MD 620.02–01
33	STA. 106+08.21 /16' LT TO STA. 106+41.04 /19.15' LT	SEE STD MD 620.02–01
30	STA. 106+11.36 /24.43' RT TO STA. 106+41.30 /21.32' RT	SEE STD MD 620.02–01
101	STA. 107+53.19 /19.33' LT TO STA. 107+54.00 /16' LT	SEE STD MD 620.02–01
68	STA. 107+53.19 /21.33' RT TO STA. 107+20.11 /18' RT	SEE STD MD 620.02–01
16	STA. 107+40.09 /18' RT TO STA. 107+55.52 /18' RT	SEE STD MD 620.02–01
38	STA. 107+65.57 /16' LT TO STA. 108+03.02 /16' LT	SEE STD MD 620.02–01
18	STA. 107+80.23 /18' RT TO STA. 107+98.32 /18' RT	SEE STD MD 620.02–01
44	STA. 108+08.44 /18' RT TO STA. 108+51.89 /18' RT	SEE STD MD 620.02–01
58	STA. 108+11.68 /16' LT TO STA. 108+63.19 /16' LT	SEE STD MD 620.02–01
159	STA. 108+76.85 /18' RT TO STA. 110+34.74 /20' RT	SEE STD MD 620.02–01
35	STA. 108+81.54 /16' LT TO STA. 109+16.02 /16' LT	SEE STD MD 620.02–01
38	STA. 109+32.77 /16' LT TO STA. 109+70.73 /16' LT	SEE STD MD 620.02–01

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)

QTY (SF)	STATION / OFFSET	REMARKS
16	STA. 106+47.19 /25' LT	SEE STD MD 655.40
16	STA. 106+47.19 /19.33' LT	SEE STD MD 655.40
16	STA. 106+47.19 /10.67' LT	SEE STD MD 655.40
16	STA. 106+47.19 /12.67' RT	SEE STD MD 655.40
16	STA. 106+47.19 /21.33' RT	SEE STD MD 655.40
16	STA. 106+47.19 /27' RT	SEE STD MD 655.40
10	STA. 106+96.69 /25' LT	SEE STD MD 655.40
10	STA. 106+96.69 /18.67' LT	SEE STD MD 655.40
10	STA. 106+96.69 /20.67' RT	SEE STD MD 655.40
10	STA. 106+96.69 /27' RT	SEE STD MD 655.40

DETECTABLE DIRECTIONAL STRIP (ITEM NO. 600000–B)

QTY (LF)	STATION / OFFSET	REMARKS
5	STA. 106+47.19 /12.67' LT TO STA. 106+47.19 /17.33' LT	SEE DETAIL A ON DT–06
5	STA. 106+47.19 /14.67' RT TO STA. 106+47.19 /19.33' RT	SEE DETAIL A ON DT–06
5	STA. 106+53.19 /10.67' LT TO STA. 106+58.19 /10.67' LT	SEE DETAIL A ON DT–06
5	STA. 106+94.19 /12.67' RT TO STA. 106+99.19 /12.67' RT	SEE DETAIL A ON DT–06

METAL HANDRAIL (ITEM NO. 600000–C)

QTY (LF)	STATION / OFFSET	REMARKS
41	STA. 106+55.86 /17.67' LT TO STA. 107+02.19 /10.67' LT	SEE DETAIL B ON DT–06
41	STA. 106+55.86 /19.67' RT TO STA. 107+02.19 /12.67' RT	SEE DETAIL B ON DT–06

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (ITEM NO. 561118)

QTY (SY)	STATION / OFFSET	REMARKS
37.5	STA. 104+55.20 /15.33' LT	SEE DETAIL C ON DT–05
42	STA. 104+88.22 /11.53' LT	SEE DETAIL C ON DT–05
63	STA. 105+98.66 /15.29' RT	SEE DETAIL C ON DT–05
30	STA. 106+00.71 /10.67' LT	SEE DETAIL C ON DT–05
39.5	STA. 107+30.10 /12.67' RT	SEE DETAIL C ON DT–05
48.5	STA. 107+67.88 /12.67' RT	SEE DETAIL C ON DT–05
18	STA. 108+03.56 /12.67' RT	SEE DETAIL C ON DT–05
49	STA. 108+67.37 /16.67' RT	SEE DETAIL C ON DT–05

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)

QTY (SF)	STATION / OFFSET	REMARKS
145	STA. 104+62.24 /33' LT	SEE DETAIL C ON DT–04
762	STA. 104+97.90 /24.20' LT	SEE DETAIL C ON DT–04
1315	STA. 106+08.21 /24' LT	SEE DETAIL C ON DT–04
1025	STA. 106+11.36 /34.47' RT	SEE DETAIL C ON DT–04
88	STA. 106+47.24 /10.67' LT	SEE DETAIL C ON DT–04
88	STA. 106+47.24 /12.67' RT	SEE DETAIL C ON DT–04
378	STA. 106+53.19 /10.67' LT	SEE DETAIL C ON DT–04
352	STA. 106+53.19 /12.67' RT	SEE DETAIL C ON DT–04
123	STA. 107+40.09 /26' RT	SEE DETAIL C ON DT–04
224	STA. 107+65.57 /24' LT	SEE DETAIL C ON DT–04
145	STA. 107+80.23 /26' RT	SEE DETAIL C ON DT–04
350	STA. 108+08.43 /26' RT	SEE DETAIL C ON DT–04
345	STA. 108+11.68 /24' LT	SEE DETAIL C ON DT–04
1770	STA. 108+76.84 ?/26' RT	SEE DETAIL C ON DT–04
205	STA. 108+81.54 /24' LT	SEE DETAIL C ON DT–04
226	STA. 109+32.77 /24' LT	SEE DETAIL C ON DT–04

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (ITEM NO. 561119)

QTY (SY)	STATION / OFFSET	REMARKS
18	STA. 107+59.79 /10.67' LT	SEE STD MD 630.02
14	STA. 108+07.35 /10.67' LT	SEE STD MD 630.02
19	STA. 108+75.36 /10.67' LT	SEE STD MD 630.02
26	STA. 109+24.39 /10.67' LT	SEE STD MD 630.02

10 INCH REINFORCED CONCRETE SIDEWALK (ITEM NO. 600000–D)

QTY (SF)	STATION / OFFSET	REMARKS
84	STA. 106+68.68 /16.67' LT	SEE DETAIL G ON DT–04
84	STA. 106+68.68 /18.67' RT	SEE DETAIL G ON DT–04

BRICK SIDEWALK (ITEM NO. 655383)

QTY (SF)	STATION / OFFSET	REMARKS
477	STA. 106+08.87 /23' LT TO STA. 107+53.34 /23' LT	SEE STD MC–111.02
384	STA. 106+12.03 /31.40' RT TO STA. 107+19.42 /25.16' RT	SEE STD MC–111.02
77	STA. 107+40.75 /25' RT TO STA. 107+54.85 /25' RT	SEE STD MC–111.02
163	STA. 107+66.23 /23' LT TO STA. 108+02.36 /23' LT	SEE STD MC–111.02
93	STA. 107+80.90 /25' RT TO STA. 107+97.75 /25' RT	SEE STD MC–111.02
173	STA. 108+09.11 /25' RT TO STA. 108+51.22 /25' RT	SEE STD MC–111.02
264	STA. 108+12.35 /23' LT TO STA. 108+68.52 /23' LT	SEE STD MC–111.02
750	STA. 108+77.51 /25' RT TO STA. 110+34.07 /27' RT	SEE STD MC–111.02
145	STA. 108+82.20 /23' LT TO STA. 109+15.35 /23' LT	SEE STD MC–111.02
147	STA. 109+33.44 /23' LT TO STA. 109+70.06 /23' LT	SEE STD MC–111.02

CONCRETE STEPS (ITEM NO. 697009)

QTY (CY)	STATION / OFFSET	REMARKS
1	STA. 107+70.92 /29' LT	SEE STD MD 657.00
1	STA. 108+34.65 /29' LT	SEE STD MD 657.00
1	STA. 108+93.49 /29' LT	SEE STD MD 657.00

STANDARD TYPE D COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH MINIMUM (ITEM NO. 634344)

QTY (LF)	STATION / OFFSET	REMARKS
475	STA. 104+75.00 /12.38' LT TO STA. 109+50.00 /10' LT	SEE STD MD 620.02–01
472	STA. 104+75.00 /24' RT TO STA. 109+50.00 /12' RT	SEE STD MD 620.02–01

BUS SHELTER (ITEM NO. 700000–A)

QTY (EA)	STATION / OFFSET	REMARKS
1	STA. 106+74.66 17.39' RT	SEE DETAIL C ON DT–06
1	STA. 106+75.70 15.39' LT	SEE DETAIL C ON DT–06

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)

QTY (LF)	STATION / OFFSET	REMARKS
9	STA. 104+97.90 /16.15' LT TO STA. 105+02.90 /10' LT	SEE STD MD 620.02–01
15	STA. 105+81.39 /15.87' RT TO STA. 105+86.59 /27' RT	SEE STD MD 620.02–01
14	STA. 106+11.36 /24.43' RT TO STA. 106+16.00 /13.36' RT	SEE STD MD 620.02–01
9	STA. 105+88.21/10' LT TO STA. 105+93.21 /16' LT	SEE STD MD 620.02–01
9	STA. 106+08.21 /16' LT TO STA. 106+13.21 /10' LT	SEE STD MD 620.02–01
14	STA. 106+08.21 /31' LT TO STA. 106+08.21 /41.33' LT	SEE STD MD 620.02–01
146	STA. 106+12.03 /40.11' RT TO STA. 107+20.09 /33' RT	SEE STD MD 620.02–01
11	STA. 106+41.19 /10' LT TO STA. 106+41.19 /19.33' LT	SEE STD MD 620.02–01
11	STA. 106+51.19 /10' LT TO STA. 106+51.19 /19.33' LT	SEE STD MD 620.02–01
11	STA. 106+41.19 /12' RT TO STA. 106+41.19 /21.33' RT	SEE STD MD 620.02–01
11	STA. 106+51.19 /12' RT TO STA. 106+51.19 /21.33' RT	SEE STD MD 620.02–01
9	STA. 107+15.11 /12' RT TO STA. 107+20.11 /18.04' RT	SEE STD MD 620.02–01
9	STA. 107+40.09 /18' RT TO STA. 107+45.09 /12' RT	SEE STD MD 620.02–01
9	STA. 107+49.00 /10' LT TO STA. 107+54.00 /16' LT	SEE STD MD 620.02–01
9	STA. 107+65.57 /16' LT TO STA. 107+70.57 /10' LT	SEE STD MD 620.02–01
9	STA. 107+50.52 /12' RT TO STA. 107+55.52 /18' RT	SEE STD MD 620.02–01
9	STA. 107+80.23 /18' RT TO STA. 107+85.23 /12' RT	SEE STD MD 620.02–01
9	STA. 107+93.30 /12' RT TO STA. 107+98.30 /18' RT	SEE STD MD 620.02–01
9	STA. 108+08.44 /18' RT TO STA. 108+13.44 /12' RT	SEE STD MD 620.02–01
9	STA. 107+98.02 /10' LT TO STA. 108+03.02 /16' LT	SEE STD MD 620.02–01
9	STA. 108+11.68 /16' LT TO STA. 108+16.68 /10' LT	SEE STD MD 620.02–01
36	STA. 108+08.43 /33' RT TO STA. 108+44.36 /33' RT	SEE STD MD 620.02–01
9	STA. 108+46.90 /12' RT TO STA. 108+51.90 /18' RT	SEE STD MD 620.02–01
9	STA. 108+76.85 /18' RT TO STA. 108+81.85 /12' RT	SEE STD MD 620.02–01
9	STA. 108+64.18 /10' LT TO STA. 108+69.18 /16' LT	SEE STD MD 620.02–01
9	STA. 108+81.54 /16' LT TO STA. 108+86.54 /10' LT	SEE STD MD 620.02–01
21	STA. 108+76.83 /33' RT TO STA. 108+76.83 /53.28' RT	SEE STD MD 620.02–01
9	STA. 109+11.01 /10' LT TO STA. 109+16.01 /16' LT	SEE STD MD 620.02–01
9	STA. 109+32.77 /16' LT TO STA. 109+37.77 /10' LT	SEE STD MD 620.02–01

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DT-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY SCHEDULES

SHEET 11 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pHD-D002_FlowerAve.dgn

MODIFIED TYPE D CURB (ITEM NO. 600000–A)

QTY (LF)	STATION / OFFSET	REMARKS
30	STA. 109+93.24 /24' LT TO STA. 110+17.24 /24' LT	SEE DETAIL A ON DT–05
35	STA. 110+34.55 /24' LT TO STA. 110+73.06 /21' LT	SEE DETAIL A ON DT–05
39	STA. 110+54.71 /28' RT TO STA. 110+90.05 /25' RT	SEE DETAIL A ON DT–05
30	STA. 111+23.86 /25.11' RT TO STA. 111+52.46 /20.30' RT	SEE DETAIL A ON DT–05

STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)

QTY (LF)	STATION / OFFSET	REMARKS
24	STA. 109+93.24 /16' LT TO STA. 110+17.24 /16' LT	SEE STD MD 620.02–01
32	STA. 110+34.55 /16' LT TO STA. 110+73.06 /16' LT	SEE STD MD 620.02–01
26	STA. 110+54.71 /20' RT TO STA. 110+87.59 /20' RT	SEE STD MD 620.02–01
30	STA. 111+26.21 /20.12' RT TO STA. 111+54.93 /13.93' RT	SEE STD MD 620.02–01

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)

QTY (SF)	STATION / OFFSET	REMARKS
10	STA. 110+63.53 /21' LT	SEE STD MD 655.40
10	STA. 110+63.53 /16' LT	SEE STD MD 655.40
10	STA. 110+63.53 /10' LT	SEE STD MD 655.40
10	STA. 110+63.53 /12' RT	SEE STD MD 655.40
10	STA. 110+63.53 /20' RT	SEE STD MD 655.40
10	STA. 110+63.53 /25.67' RT	SEE STD MD 655.40
10	STA. 110+90.26 /34.64' RT	SEE STD MD 655.40
10	STA. 111+23.22 /34.49' RT	SEE STD MD 655.40

DETECTABLE DIRECTIONAL STRIP (ITEM NO. 600000–B)

QTY (LF)	STATION / OFFSET	REMARKS
4	STA. 110+63.53 /14' RT TO STA. 110+63.53 /18' RT	SEE DETAIL A ON DT–06
2	STA. 110+63.53 /12' LT TO STA. 110+63.53 /14' LT	SEE DETAIL A ON DT–06

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)

QTY (SF)	STATION / OFFSET	REMARKS
145	STA. 109+93.24 /24' LT	SEE DETAIL C ON DT–04
140	STA. 110+34.55 /24' LT	SEE DETAIL C ON DT–04
330	STA. 110+54.71 /26' RT	SEE DETAIL C ON DT–04
77	STA. 110+63.53 /21' LT	SEE STD MD 655.11
31	STA. 110+63.53 /10' LT	SEE DETAIL C ON DT–04
41	STA. 110+63.53 /12' RT	SEE DETAIL C ON DT–04
49	STA. 110+63.53 /25.67' RT	SEE STD MD 655.11
120	STA. 110+69.05 /23' LT	SEE DETAIL C ON DT–04
93	STA. 110+90.22 /35' RT	SEE STD MD 655.11
93	STA. 111+23.23 /34' RT	SEE STD MD 655.11
370	STA. 111+23.52 /26.09' RT	

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (ITEM NO. 561118)

QTY (SY)	STATION / OFFSET	REMARKS
44.5	STA. 110+44.72 /12.67' RT	SEE DETAIL C ON DT–05

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX 9 (ITEM NO. 561119)

QTY (SY)	STATION / OFFSET	REMARKS
34	STA. 109+81.98 /10.67' LT	SEE STD MD 630.02
26.5	STA. 110+25.90 /10.67' LT	SEE STD MD 630.02

BRICK SIDEWALK (ITEM NO. 655383)

QTY (SF)	STATION / OFFSET	REMARKS
129	STA. 109+93.90 /23' LT TO STA. 110+16.58 /23' LT	SEE STD MC–111.02
196	STA. 110+35.22 /23' LT TO STA. 110+87.84 /20.88' LT	SEE STD MC–111.02
150	STA. 110+55.37 /19.33' RT TO STA. 110+87.59 /19.33' RT	SEE STD MC–111.02
127	STA. 111+26.21 /19.46' RT TO STA. 111+54.56 /12.67' RT	SEE STD MC–111.02

CONCRETE STEPS (ITEM NO. 697009)

QTY (CY)	STATION / OFFSET	REMARKS
1	STA. 109+19.68 /29' LT	SEE STD MD 657.00
1	STA. 110+48.64 /29' LT	SEE STD MD 657.00

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)

QTY (LF)	STATION / OFFSET	REMARKS
9	STA. 109+65.72 /10' LT TO STA. 109+70.72 /16' LT	SEE STD MD 620.02–01
9	STA. 109+93.24 /16' LT TO STA. 109+98.24 /10' LT	SEE STD MD 620.02–01
9	STA. 110+12.24 /10' LT TO STA. 110+17.24 /16' LT	SEE STD MD 620.02–01
9	STA. 110+35.55 /16' LT TO STA. 110+39.55 /10' LT	SEE STD MD 620.02–01
11	STA. 110+29.75 /12' RT TO STA. 110+34.75 /20' RT	SEE STD MD 620.02–01
11	STA. 110+54.71 /20' RT TO STA. 110+59.71 /12' RT	SEE STD MD 620.02–01
10	STA. 110+60.04 /12' RT TO STA. 110+60.04 /20' RT	SEE STD MD 620.02–01
8	STA. 110+60.04 /10' LT TO STA. 110+60.04 /16' LT	SEE STD MD 620.02–01
10	STA. 110+67.03 /12' RT TO STA. 110+67.03 /20' RT	SEE STD MD 620.02–01
8	STA. 110+67.03 /10' LT TO STA. 110+67.03 /16' LT	SEE STD MD 620.02–01
8	STA. 110+73.06 /10' ; LT TO STA. 110+73.06 /16' LT	SEE STD MD 620.02–01
8	STA. 111+52.46 /20.30' RT TO STA. 111+59.98 /19.78' RT	SEE STD MD 620.02–01

STANDARD TYPE D COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH MINIMUM (ITEM NO. 634344)

QTY (LF)	STATION / OFFSET	REMARKS
120	STA. 109+50.00 /10' LT TO STA. 110+73.06 /10' LT	SEE STD MD 620.02–01
169	STA. 109+50.00 /12' RT TO STA. 110+90.66 /45.42' RT	SEE STD MD 620.02–01
20	STA. 110+73.06 /21' LT TO STA. 110+92.43 /20.21' LT	SEE STD MD 620.02–01
60	STA. 111+22.21 /44.96' RT TO STA. 111+54.56 /12' RT	SEE STD MD 620.02–01

DT-03

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY SCHEDULES

SHEET 12 of 87

PROFESSIONAL CERTIFICATION:
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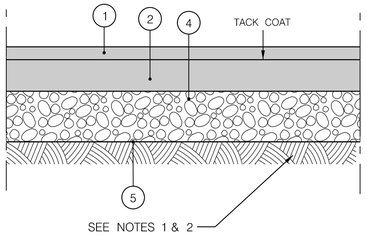
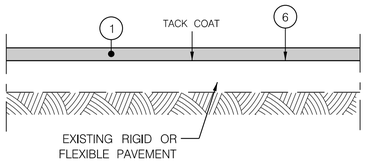
BiPPA Bicycle and Pedestrian Priority Areas



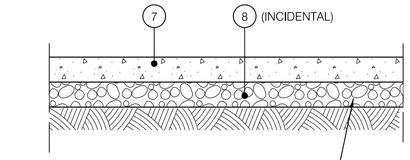
NOTES

1. SUBGRADE PREPARATION SHALL BE AS PER SECTION 204 OF MDOT SHA SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS; PRIOR TO PLACEMENT OF PROPOSED BASE COURSE, SUBGRADE SHALL BE PROOF-ROLLED.
2. UNDERCUT FOR REMOVAL OF SOFT AND/OR UNSUITABLE MATERIALS AND BACKFILLED WITH GRADED AGGREGATE BASE SHALL BE AS DIRECTED BY THE ENGINEER.

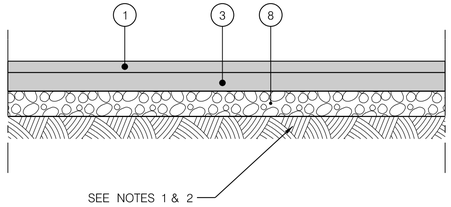
DETAIL A
FULL DEPTH ASPHALT PAVEMENT



DETAIL B
MILLING AND OVERLAY



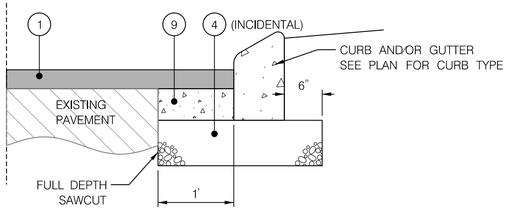
DETAIL C
PORTLAND CEMENT
CONCRETE SIDEWALK



NOTES

1. SUBGRADE PREPARATION SHALL BE AS PER SECTION 204 OF MDOT SHA SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS; PRIOR TO PLACEMENT OF PROPOSED BASE COURSE, SUBGRADE SHALL BE PROOF-ROLLED.
2. UNDERCUT FOR REMOVAL OF SOFT AND/OR UNSUITABLE MATERIALS AND BACKFILLED WITH GRADED AGGREGATE BASE SHALL BE AS DIRECTED BY THE ENGINEER.

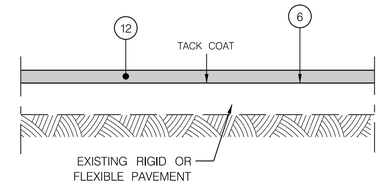
DETAIL D
ASPHALT BIKE LANE PAVEMENT SECTION



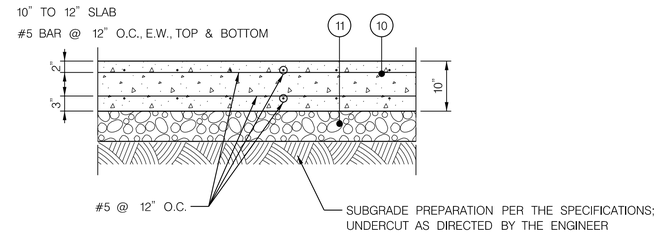
DETAIL E
CONCRETE CURB PATCH

LEGEND

1. 2" HOT MIX ASPHALT SUPERPAVE, 9.5MM SURFACE COURSE, P.G. 64S-22, LEVEL 2
2. 5" HOT MIX ASPHALT SUPERPAVE, 19.0MM BASE COURSE, P.G. 64S-22, LEVEL 2
3. 2.5" HOT MIX ASPHALT SUPERPAVE, 19.0MM BASE COURSE, P.G. 64S-22, LEVEL 2
4. 8 INCH GRADED AGGREGATE BASE, TWO EQUAL LAYERS
5. LIMIT OF CLASS I EXCAVATION
6. MILL EXISTING PAVEMENT TO 2 INCH DEPTH OR SURFACE OF EXISTING RIGID BASE
7. 5 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7
8. 4 INCH AGGREGATE BASE COURSE
9. 8 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 (INCIDENTAL)
10. 10 INCH REINFORCED CONCRETE
11. 6 INCH GRADED AGGREGATE BASE (INCIDENTAL)
12. 8" HOT MIX ASPHALT SUPERPAVE, 9.5MM SURFACE COURSE, HDFC P.G. 64S-22, LEVEL 2 (2" LIFTS FOR RAISED CYCLE TRACK)



DETAIL F
PAVEMENT OVERLAY



DETAIL G
PCC BUS SHELTER PAD

DT-04

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES PAVEMENT DETAILS

SHEET 13 of 87

PROFESSIONAL CERTIFICATION:
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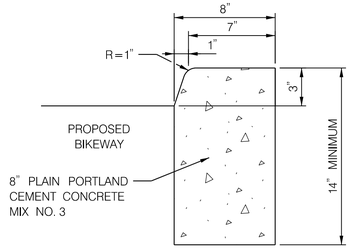
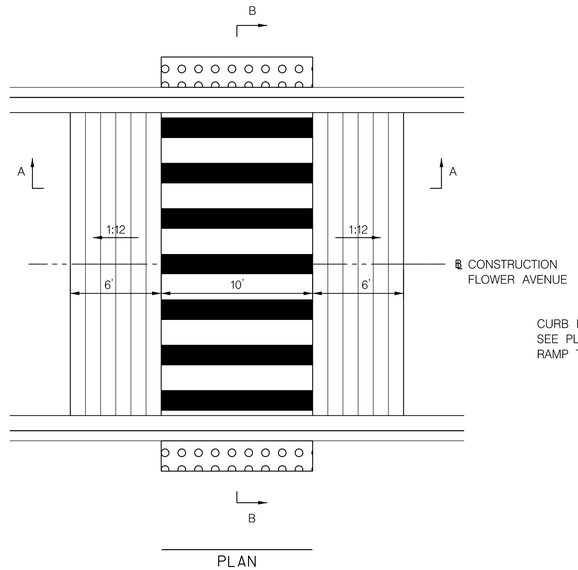
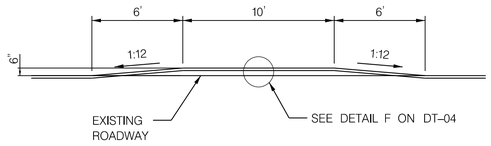
BiPPA Bicycle and Pedestrian Priority Areas



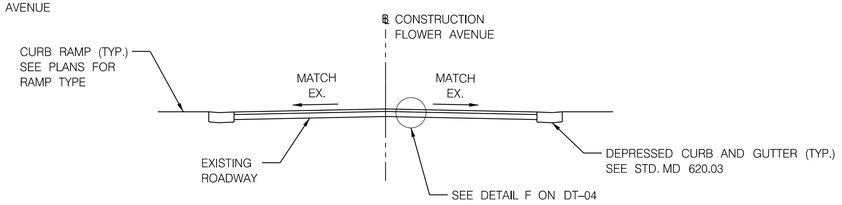
DETAIL A
MODIFIED TYPE D CURB



PLAN

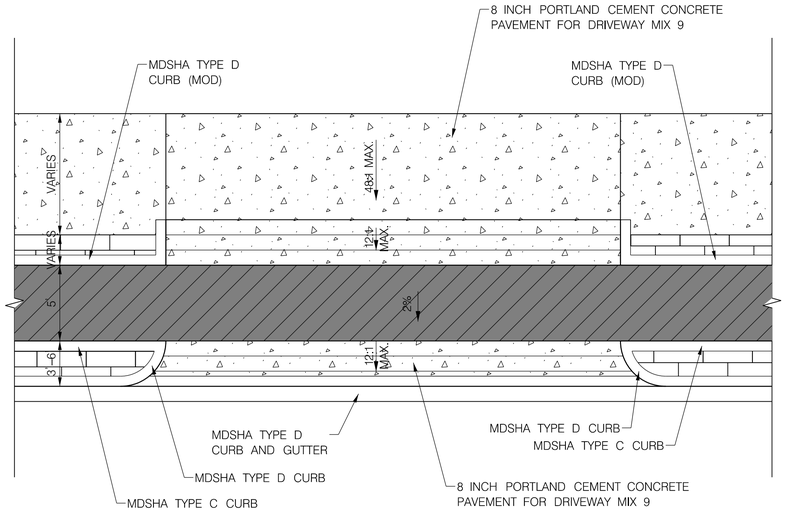


SECTION A-A



SECTION B-B

DETAIL B
RAISED CROSSWALK



DETAIL C
COMMERCIAL DRIVEWAY

DT-05

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY DETAILS

SHEET 14 of 87

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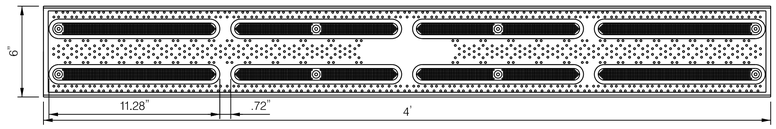
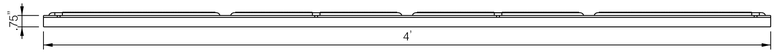
BiPPA Bicycle and Pedestrian Priority Areas

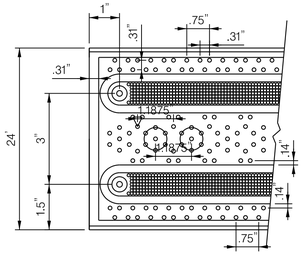
2/26/2025
\\US0527-PPFSSOI\shared_projects\202621316\700 CADD\700 Sheet\pHD-D005_FlowerAve.dgn



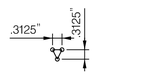
PLAN



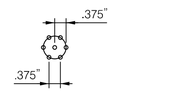
ELEVATION - SIDE



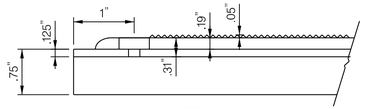
DETAIL I



PATTERN DETAIL A

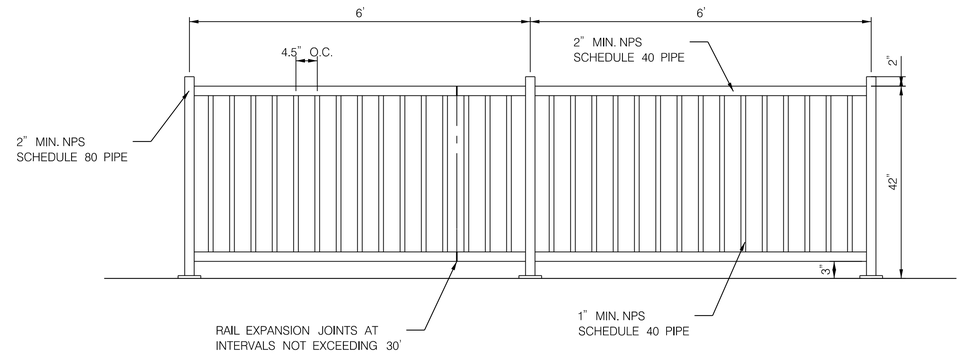


PATTERN DETAIL B

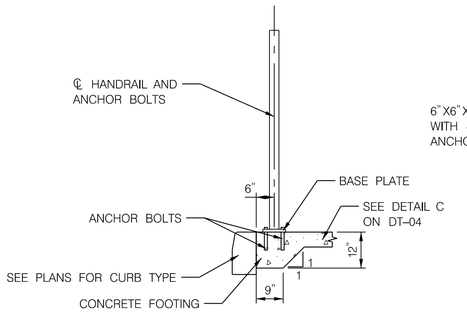


DETAIL 2

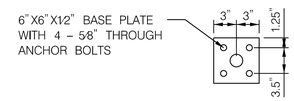
DETAIL A
DETECTABLE DIRECTIONAL STRIP



ELEVATION



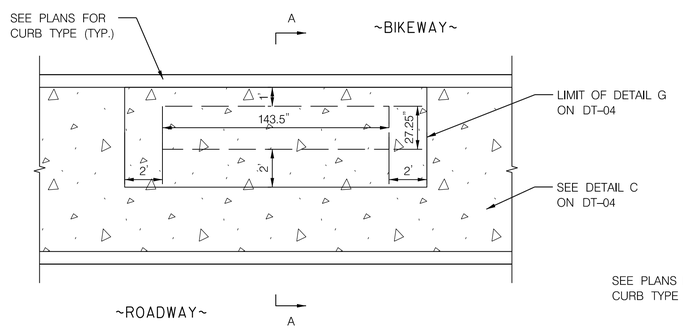
SECTION



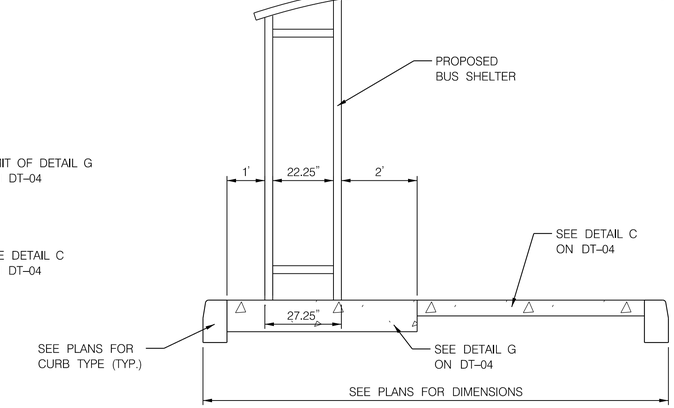
BASE PLATE

NOTES
1. ALL WELDS GROUND SMOOTH.
2. POWDER BLACK COAT.
3. WHITE REFLECTIVE TAPE TO BE APPLIED TO THE END POSTS.

DETAIL B
METAIL HANDRAIL



PLAN



SECTION A-A

DETAIL C
BUS SHELTER

DT-06

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY DETAILS

SHEET 15 of 87

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
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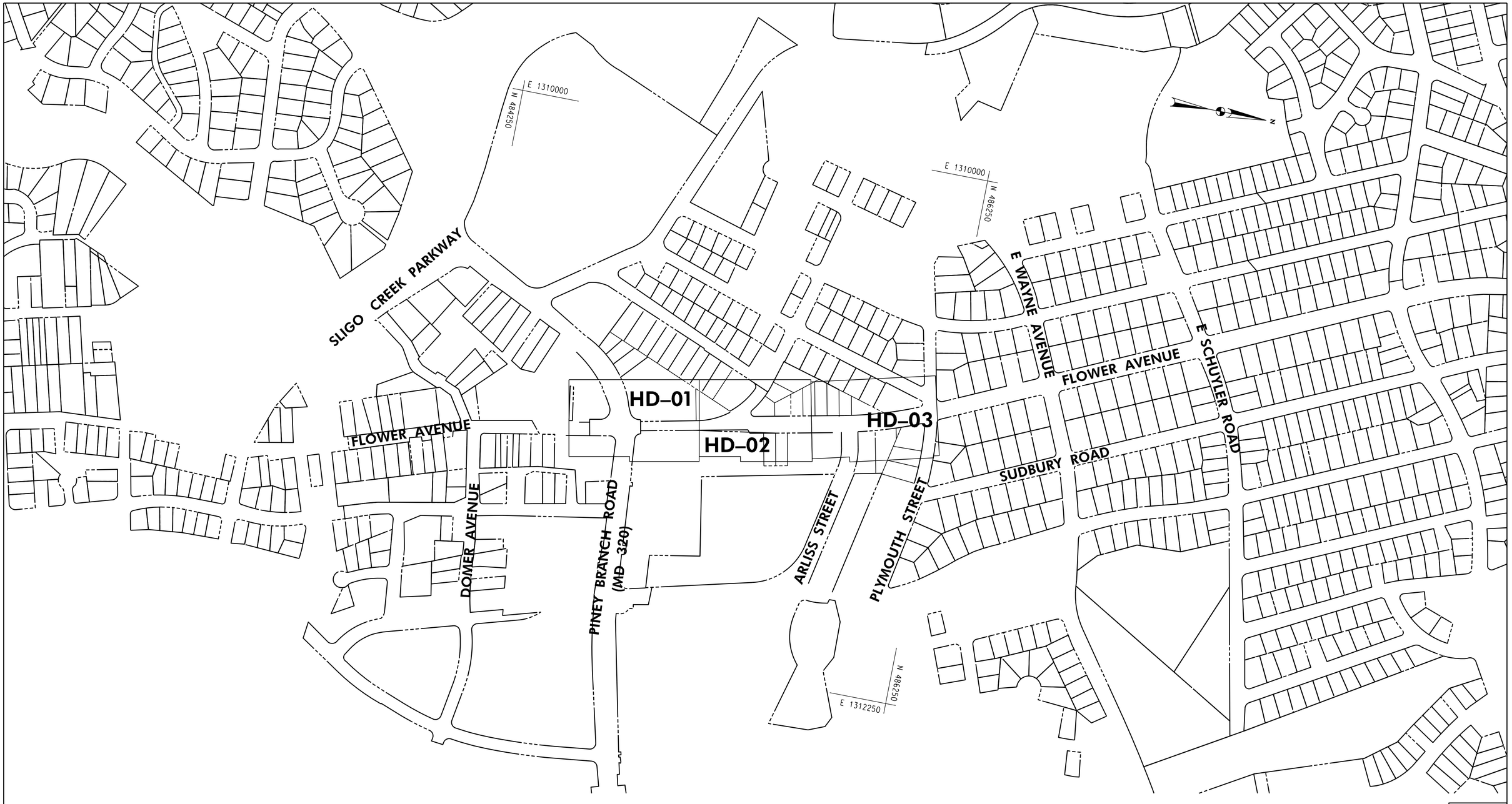

HD-KY

200' 0 200' 400'
SCALE: 1" = 200'

NO.	REVISION	BY	APP'D	DATE

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Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY KEY PLAN

SCALE: 1"=200'

SHEET 16 of 87

PROFESSIONAL CERTIFICATION:
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BEJING DELIGHT RESTAURANT
8435 PINEY BRANCH ROAD
GATEWAY PROPERTY LLC
L. F.
TAX ID 03682242
PLAT 24191

THE FLOWER CENTER
8472 PINEY BRANCH ROAD
FLOWER ASSOCIATES
L.03723 F.0026
TAX ID 01397363
PLAT 209

LIMIT OF WORK
CIP NO. 502004
FLOWER AVENUE
STA. 99+74

MD 320 (PINEY BRANCH ROAD)

TO CARROLL AVE (MD 195)

TO ARLISS ST (MD 594D)

FLOWER AVENUE

PROPOSED RIGHT-OF-WAY

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PROPOSED PERPETUAL EASEMENT

PROPOSED CONCRETE STEPS SEE STD. MD 657.00

METAL HANDRAIL SEE DETAIL B ON DT-06

PROPOSED BUS SHELTER SEE DETAIL C ON DT-06

PERPENDICULAR CURB RAMP MD 655.11

PROPOSED RIGHT-OF-WAY

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PROPOSED PERPETUAL EASEMENT

PROPOSED RIGHT-OF-WAY

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PERPENDICULAR CURB RAMP MD 655.11

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PINEY BRANCH CENTER
8501 PINEY BRANCH ROAD
JBG/PINEY BRANCH RETAIL LLC
L.51454 F.0371
TAX ID 00978064
PLAT XXXX

SHOPPING CENTER
FLOWER AVENUE
FLOWER AVE SHOPG CNTR LTD
L.06551 F.0261
TAX ID 01397603
PLAT 209

MATCH LINE STA. 104+75 – SEE SHEET PS-02

LEGEND
- PROP. DETECTABLE WARNING SURFACE
- PROP. CONCRETE
- PROP. BRICK
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. FULL DEPTH CYCLE TRACK
- PROP. CURB PATCH
- PROP. PAVEMENT OVERLAY

20' 0 20' 40'
SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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_____ _____
Chief, Design Section Date

APPROVED
_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY PLAN

SCALE: 1"=20'

SHEET 17 of 87

PS-01

2/26/2025
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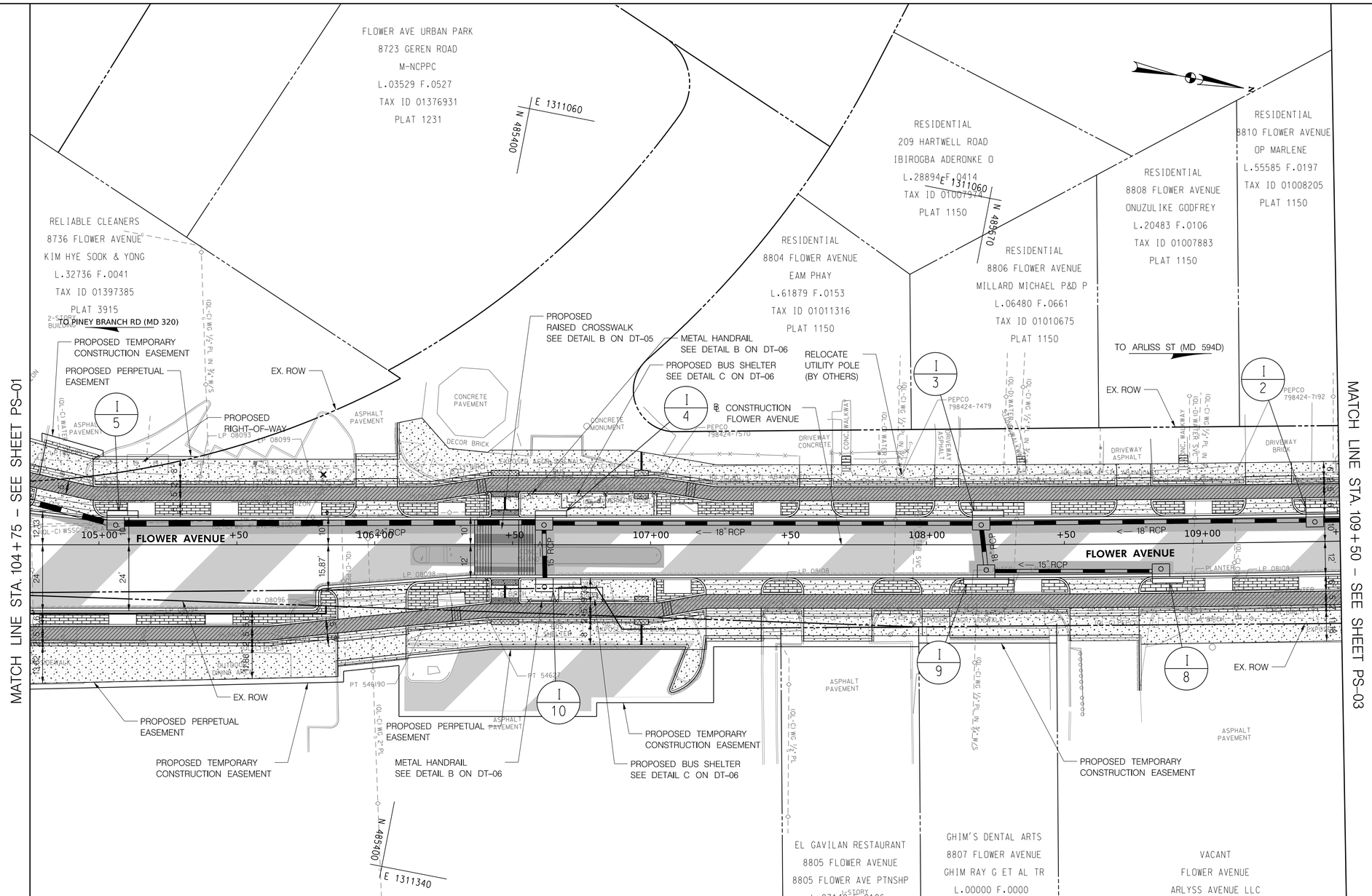

LEGEND

- PROP. DETECTABLE WARNING SURFACE
- PROP. CONCRETE
- PROP. BRICK
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. FULL DEPTH CYCLE TRACK
- PROP. CURB PATCH
- PROP. PAVEMENT OVERLAY

20' 0 20' 40'
SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY PLAN

SCALE: 1"=20'

SHEET 18 of 87

PS-02

2/26/2025
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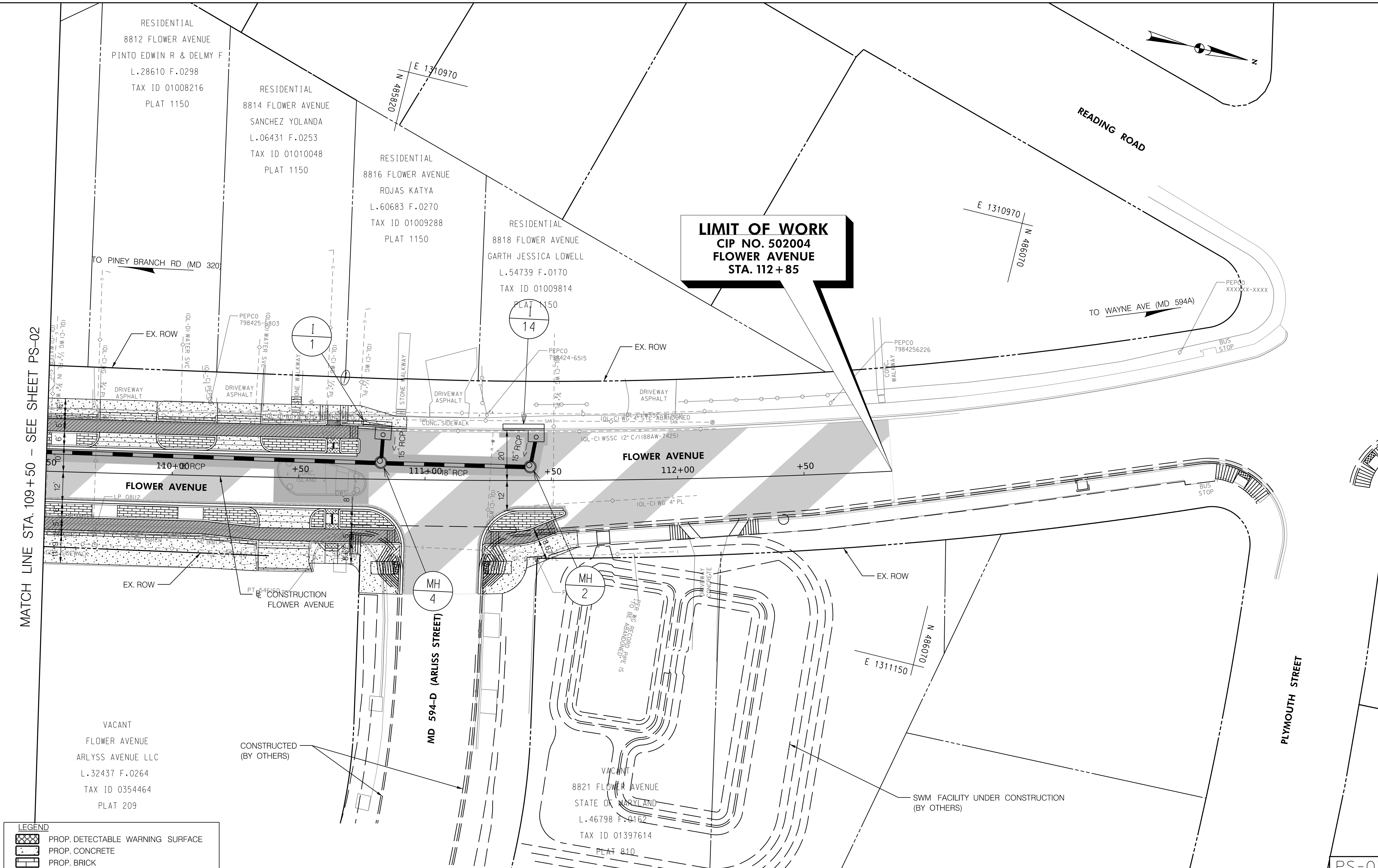

PS-03

LEGEND

- PROP. DETECTABLE WARNING SURFACE
- PROP. CONCRETE
- PROP. BRICK
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. FULL DEPTH CYCLE TRACK
- PROP. CURB PATCH
- PROP. PAVEMENT OVERLAY

20' 0 20' 40'
SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY PLAN

SCALE: 1"=20'
SHEET 19 of 87

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BiPPA
Bicycle and Pedestrian Priority Areas

PROFESSIONAL CERTIFICATION:
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2/26/2025
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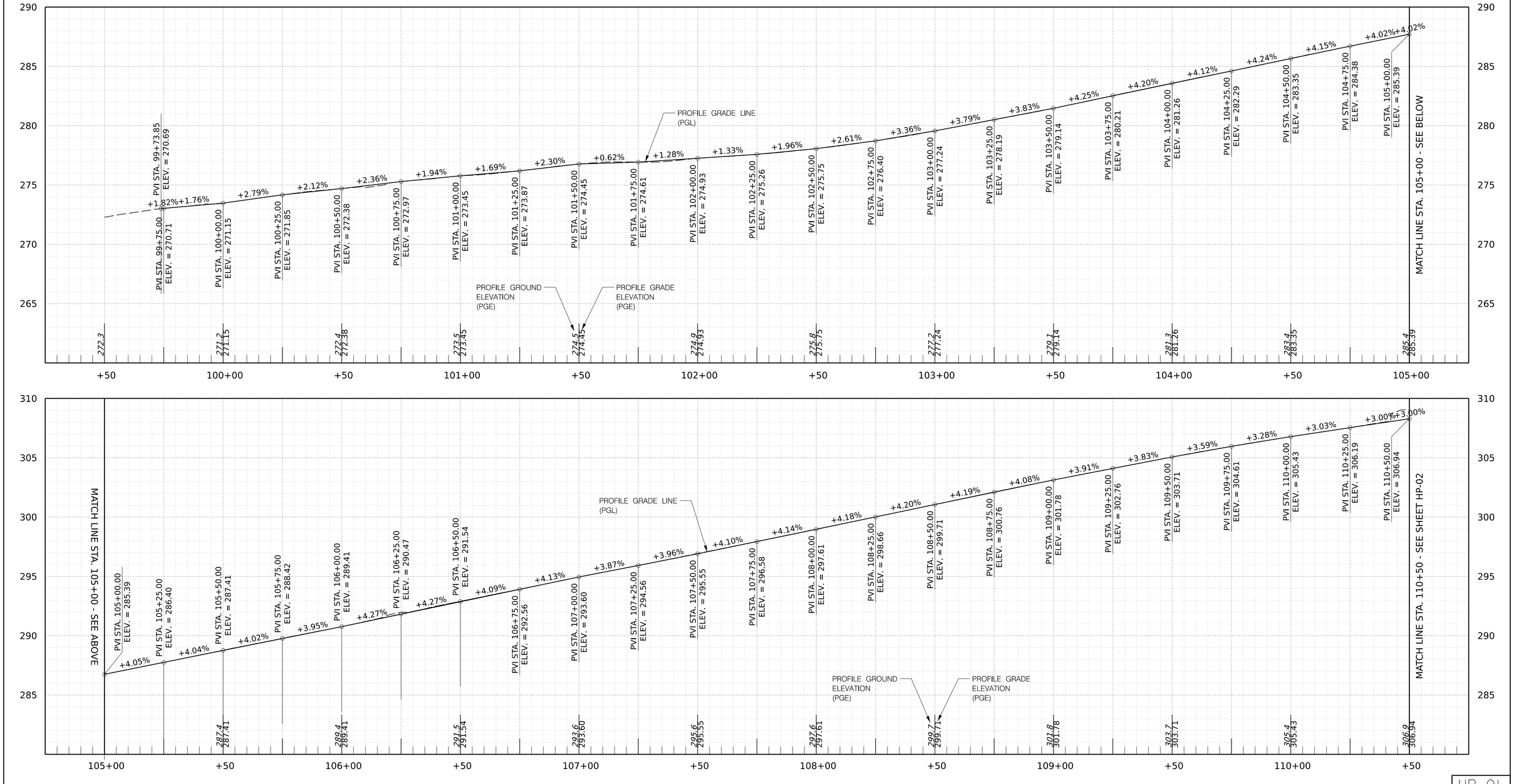

HP-01

4' 0 4' 5'
VERTICAL SCALE: 1" = 4'

20' 0 20' 40'
HORIZONTAL SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

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Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY PROFILE

SCALE: H: 1"=20' V: 1"=4'

SHEET 20 of 87

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: _____

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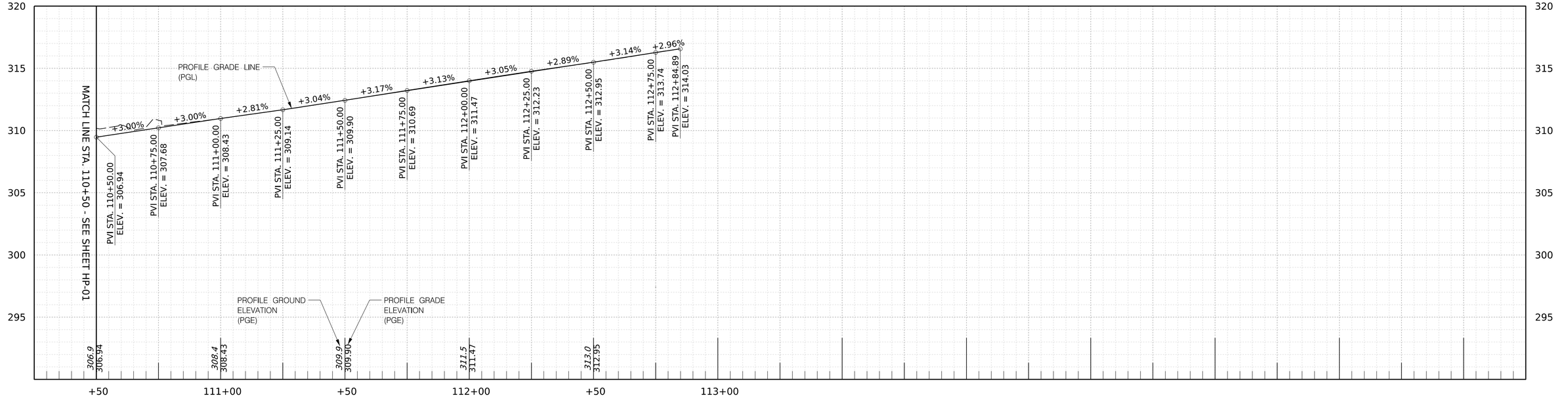

HP-02

4' 0 4' 5'
VERTICAL SCALE: 1" = 4'

20' 0 20' 40'
HORIZONTAL SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

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Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY PROFILE

SCALE: H: 1"=20' V: 1"=4'

SHEET 21 of 87

PROFESSIONAL CERTIFICATION:
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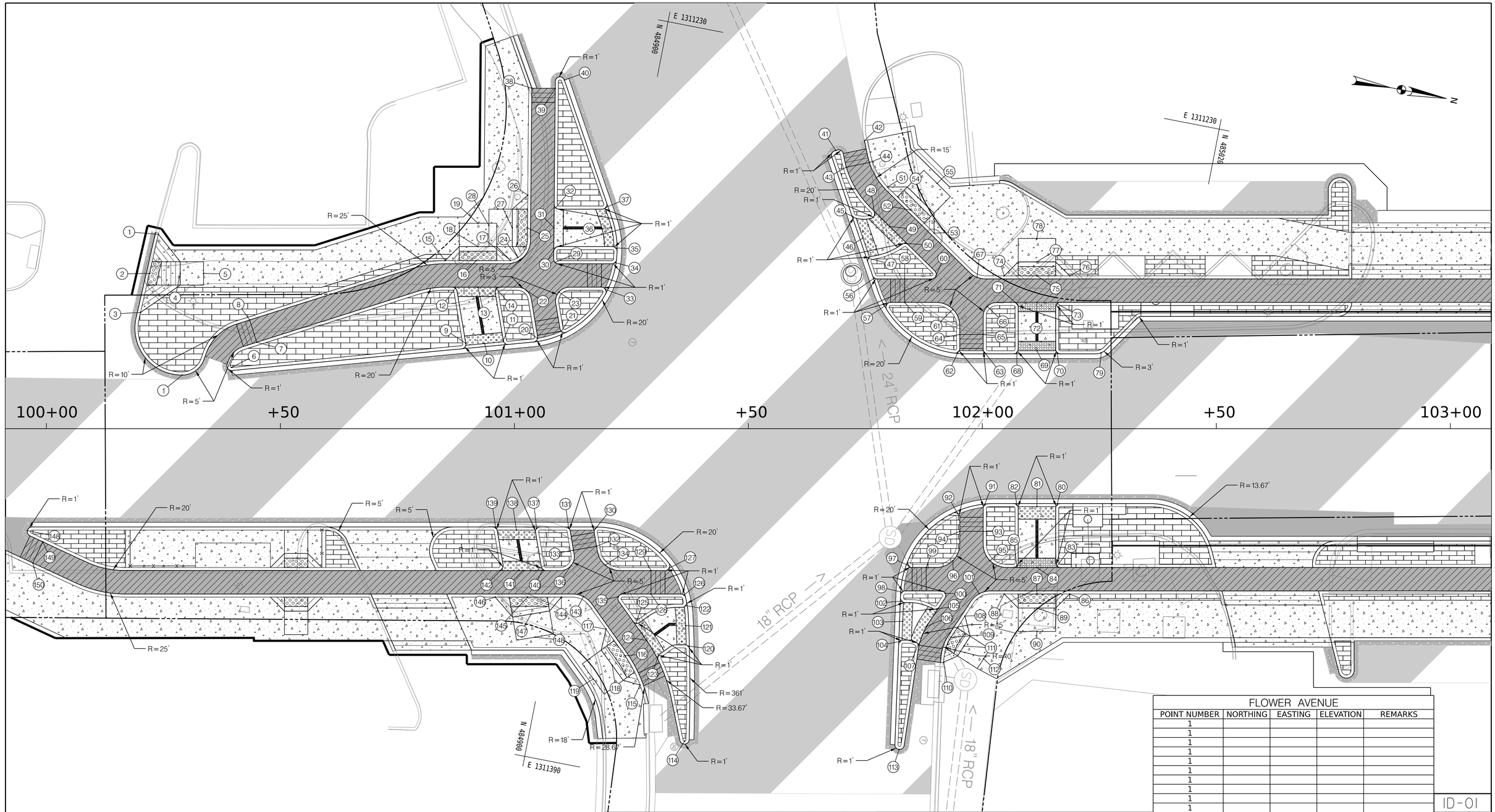

FLOWER AVENUE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	REMARKS
1				
1				
1				
1				
1				
1				
1				
1				
1				

ID-01

10' 0 10' 20'
SCALE: 1" =10'

NO.	REVISION	BY	APP'D	DATE

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

FLOWER AVENUE
SEPARATED BIKE LANES
INTERSECTION DETAIL

SCALE: 1"=10'

SHEET 22 of 87

2/26/2025
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PLAT 3915

TAX ID 01011316

PLAT 1150

N

E 1311150
N 485350

E 1311150
N 485440

R=5'
(TYP.)

105+00 +50 106+00 +50 107+00 +50 108+00

R=1'

R=1'

R=5'
(TYP.)

R=1'

R=15'

R=1'

BUS SHELTER

N 485350
E 1311300

FLOWER AVENUE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	REMARKS
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				

ID-02

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

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BiPPA Bicycle and Pedestrian Priority Areas

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES INTERSECTION DETAIL

SCALE: 1"=10'

SHEET 23 of 87

2/26/2025
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FLOWER AVENUE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	REMARKS
1				
1				
1				
1				
1				
1				
1				
1				
1				
1				

GARTH JESSICA LOWELL
L.54739 F.0170
TAX ID 01009814
PLAT 1150

N

110+00 +50 111+00 +50 112+00 +50

R=5' (TYP.)
R=1'
R=1'
R=1'
R=1'
R=15'
R=1'
R=5'
R=1'
R=15'
R=20'
R=1'
R=1'
R=25'

DRIVEWAY CONCRETE

ID-03

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

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APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES INTERSECTION DETAIL

SCALE: 1"=10'

SHEET 24 of 87

PROFESSIONAL CERTIFICATION:
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STRUCTURE SCHEDULE							
STRUCTURE	STATION	OFFSET	TYPE	TOP ELEV.	INVERT OUT	STANDARD	REMARKS
I-1	110+83	20.61' LT	REVERSE "B" INLET (B-10)	307.92	302.40	MC-502.02	10' THROAT OPENING
I-2	109+41	10.00' LT	REVERSE "B" INLET (B-10)	304.10	295.20	MC-502.02	10' THROAT OPENING
I-3	108+20	10.00' LT	REVERSE "B" INLET (B-10)	299.21	289.50	MC-502.02	10' THROAT OPENING
I-4	106+61	10.00' LT	REVERSE "B" INLET (B-10)	292.68	285.00	MC-502.02	10' THROAT OPENING
I-5	105+06	10.00' LT	REVERSE "B" INLET (B-10)	286.40	280.00	MC-502.02	10' THROAT OPENING
I-6	103+18	24.00' LT	REVERSE "B" INLET (B-10)	278.00	271.88	MC-502.02	10' THROAT OPENING
I-7	102+37	24.00' LT	"B" INLET (B-10)	276.33	271.03	MC-502.01	10' THROAT OPENING
I-8	108+85	12.00' RT	REVERSE "B" INLET (B-10)	301.23	294.23	MC-502.02	10' THROAT OPENING
I-9	108+22	12.00' RT	REVERSE "B" INLET (B-15)	298.73	292.70	MC-502.02	15' THROAT OPENING
I-10	106+62	12.00' RT	"B" INLET (B-15)	292.39	286.09	MC-502.01	15' THROAT OPENING
I-11	102+83	24.00' RT	REVERSE "B" INLET (B-15)	277.38	272.02	MC-502.02	15' THROAT OPENING
I-12	102+23	16.00' RT	"B" INLET (B-10)	275.76	271.38	MC-502.01	10' THROAT OPENING
I-13	102+23	29.67' RT	COG INLET (COG-5)	276.15	271.51	MD-374.51	5' THROAT OPENING
I-14	111+44	20.04' LT	REVERSE "B" INLET (B-15)	309.34	303.14	MC-502.02	15' THROAT OPENING
MH-1	101+72	32.96' LT	60" DIAMETER PRECAST MANHOLE	273.63	270.33	MD-384.03	
MH-2	111+42	5.43' LT	MCDOT TYPE "A" MANHOLE	309.38	302.81	MC-510.01	
MH-3	104+46	23.71' LT	MCDOT TYPE "A" MANHOLE	282.76	274.44	MC-510.01	
MH-4	110+82	6.67' LT	MCDOT TYPE "A" MANHOLE	307.68	299.50	MC-510.01	

PIPE SCHEDULE							
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	TYPE	LENGTH (FT)	UPSTREAM INVERT	DOWNSTREAM INVERT	COMMENTS
I-14	MH-2	15"	RCP CLASS IV	8	303.14	303.06	
MH-2	MH-4	18"	RCP CLASS IV	55	302.81	302.26	
I-1	MH-4	15"	RCP CLASS IV	7	302.40	302.26	
MH-4	I-2	18"	RCP CLASS IV	136	299.50	297.68	
I-2	I-3	18"	RCP CLASS IV	115	295.50	292.50	
I-8	I-9	15"	RCP CLASS IV	57	294.23	293.09	
I-9	I-3	18"	RCP CLASS IV	13	292.70	292.58	
I-3	I-4	24"	RCP CLASS IV	152	289.50	286.66	
I-10	I-4	15"	RCP CLASS IV	17	286.09	285.75	
I-4	I-5	24"	RCP CLASS IV	149	285.00	280.10	
I-5	MH-3	24"	RCP CLASS IV	57	280.00	277.75	
MH-3	I-6	24"	RCP CLASS IV	123	274.44	271.98	
I-6	I-7	24"	RCP CLASS IV	75	271.88	271.13	
I-7	MH-1	24"	RCP CLASS V	60	271.03	270.43	
I-11	I-12	15"	RCP CLASS IV	54	272.02	271.48	
I-13	I-12	15"	RCP CLASS IV	4	271.51	271.48	
I-12	EX-MH-3	18"	RCP CLASS IV	37	271.38	271.01	
EX-MH-4	EX-MH-3	21"	RCP CLASS IV	30	271.51	271.10	

GENERAL NOTES

1. STATION AND OFFSETS FOR MANHOLES IS GIVEN TO THE GEOMETRIC CENTER OF THE MANHOLE AND THE TOP ELEVATION IS GIVEN TO THE TOP OF MANHOLE COVER.
2. STATIONS FOR COG INLETS IS GIVEN TO THE GEOMETRIC CENTER OF THE BASE UNIT STRUCTURE, THE OFFSET IS GIVEN TO THE FACE OF CURB AT CENTER OF TROUGH AND THE TOP ELEVATION IS GIVEN TO THE TOP OF CURB.
3. CONTRACTOR TO VERIFY ALL EX. STORM DRAIN INVERTS PRIOR TO ORDERING AND FABRICATION ALL PROPOSED INLETS AND MANHOLES.

20' 0 20' 40'
SCALE: 1" = 20'

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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
DRAWN BY: SMH	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DD-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES DRAINAGE SCHEDULES

SCALE: N.T.S.

SHEET 25 of 87

2/26/2025
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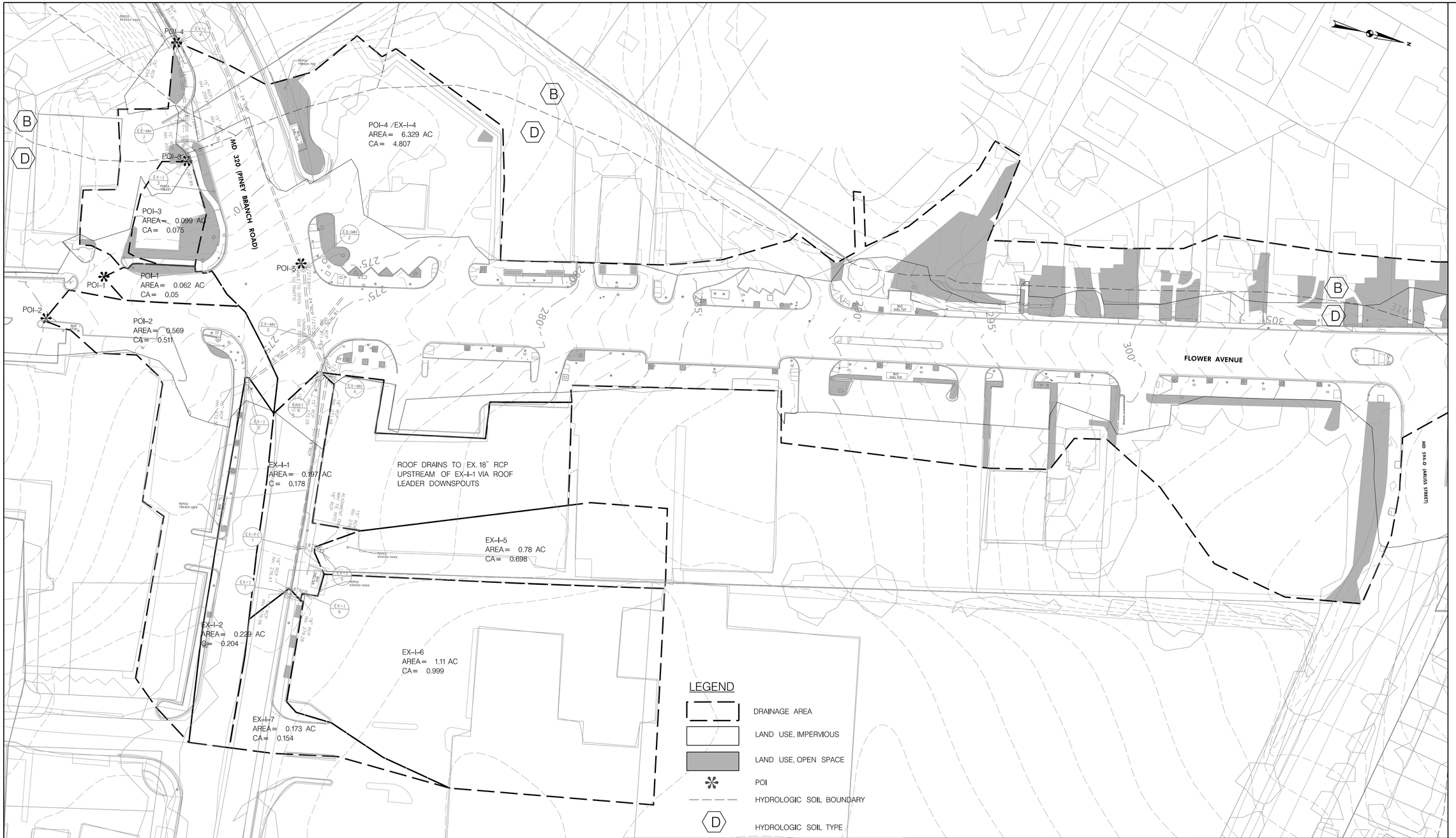

MATCH LINE – SEE SHEET DA-02

DA-01

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES EXISTING CONDITIONS DRAINAGE AREA MAP

1"=40' SHEET 26 of 87

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2/26/2025
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MATCH LINE – SEE SHEET DA-01

LEGEND

- DRAINAGE AREA
- LAND USE, IMPERVIOUS
- LAND USE, OPEN SPACE
- HYDROLOGIC SOIL BOUNDARY
- D — HYDROLOGIC SOIL TYPE
- ✻ — POI

DA-02

40' 0 40' 80'
SCALE: 1" = 40'

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

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Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES EXISTING CONDITIONS DRAINAGE AREA MAP

1"=40'

SHEET 27 of 87

2/26/2025
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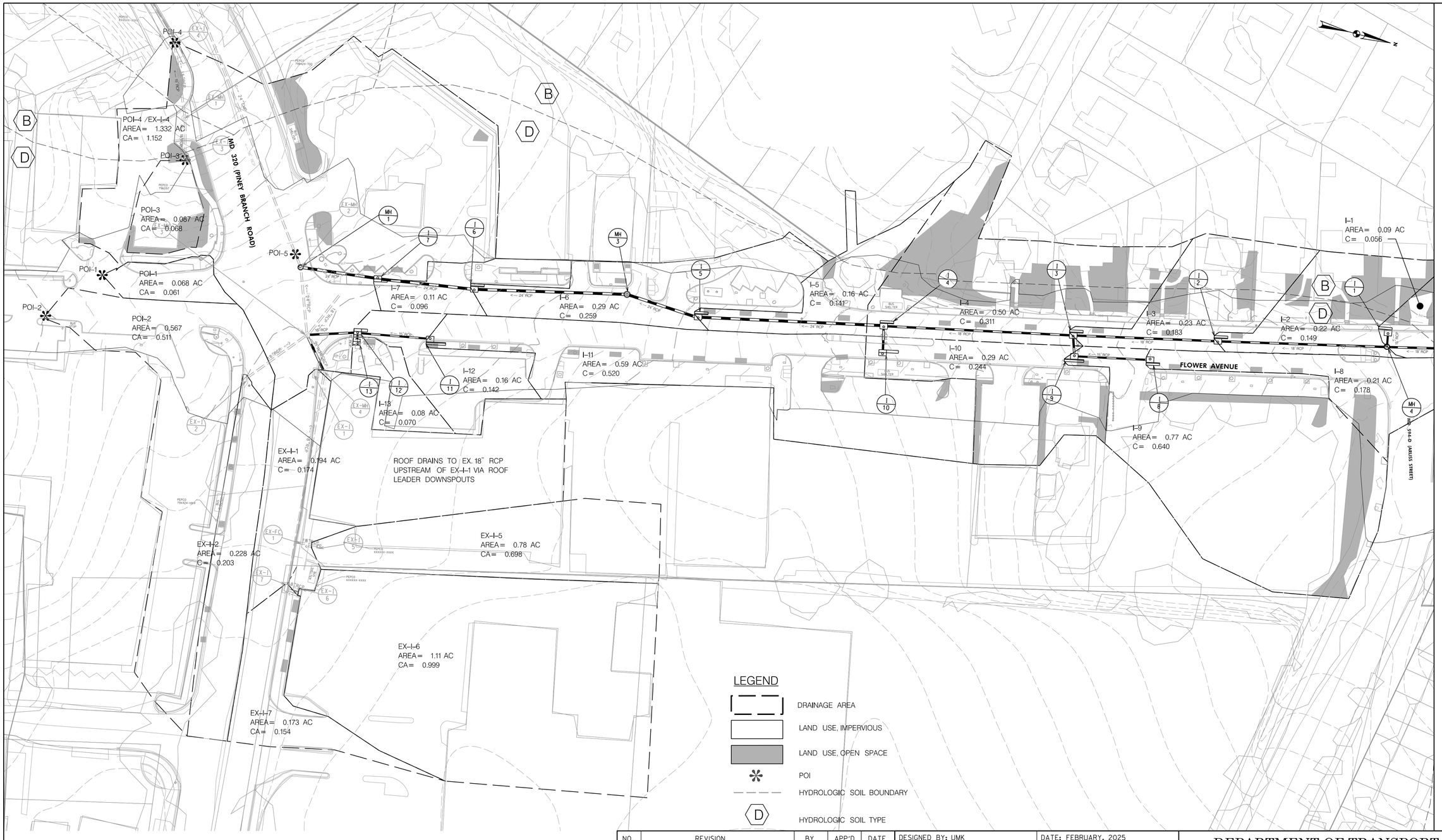

MATCH LINE – SEE SHEET DA-04

DA-03

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES PROPOSED CONDITIONS DRAINAGE AREA MAP

1"=40'

SHEET 28 of 87

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2/26/2025
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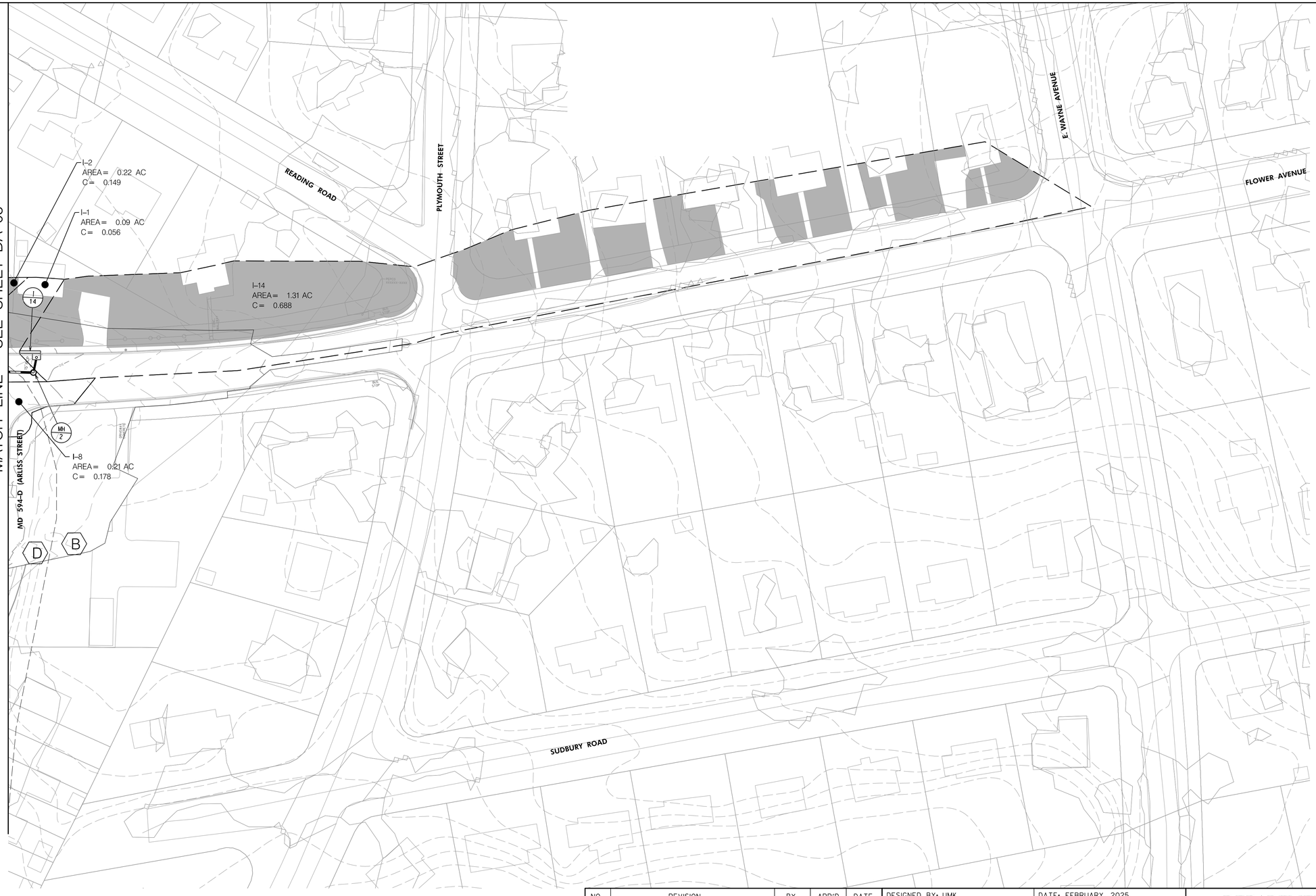
MATCH LINE – SEE SHEET DA–03



LEGEND

- DRAINAGE AREA
- LAND USE, IMPERVIOUS
- LAND USE, OPEN SPACE
- HYDROLOGIC SOIL BOUNDARY
- D — HYDROLOGIC SOIL TYPE
- ✻ — POI

DA-04

40' 0 40' 80'
SCALE: 1" = 40'

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APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES PROPOSED CONDITIONS DRAINAGE AREA MAP

1"=40'

SHEET 29 of 87

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2/26/2025
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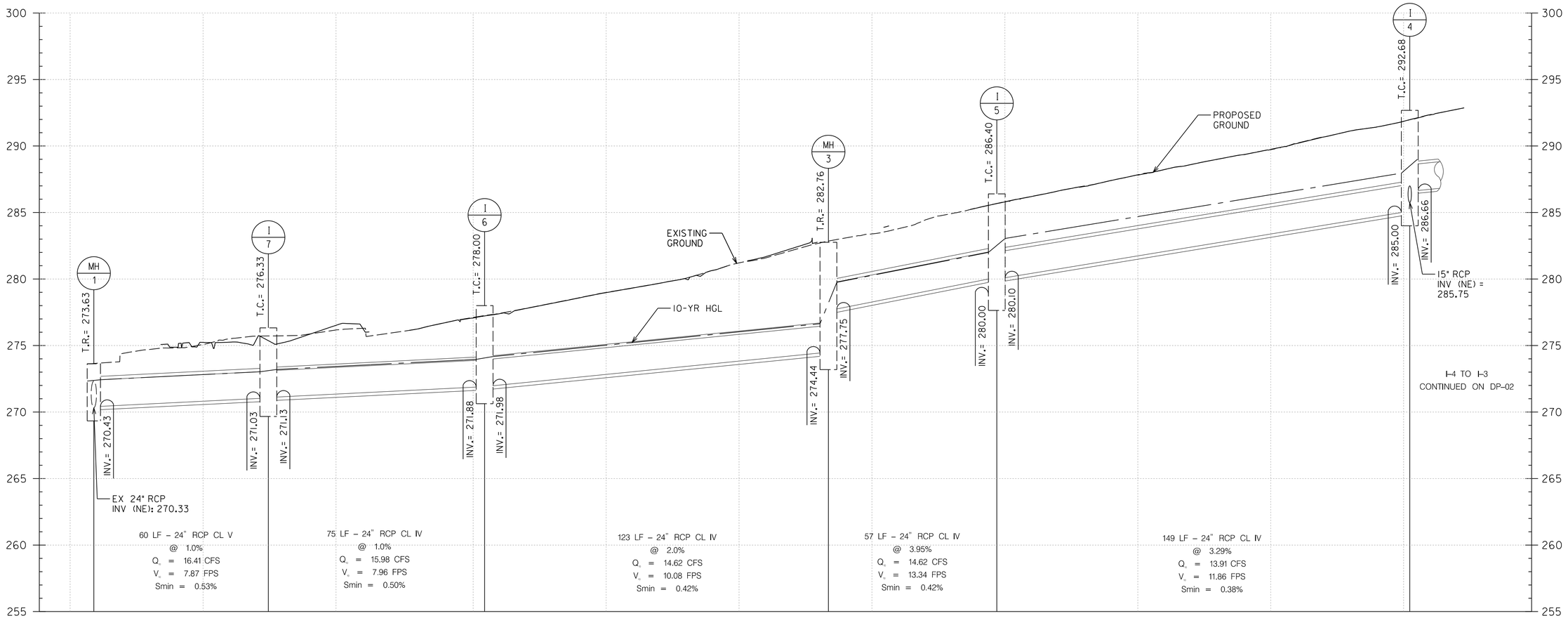

MH-1 TO I-4
SEE PLAN SHEET PS-01-PS-02

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

20' 0 20' 40'
HORIZONTAL SCALE: 1" = 20'

20' 0 20' 40'
SCALE: 1" = 20'

DP-01

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
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RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
STORM DRAIN PROFILES

SCALE: N.T.S.

SHEET 30 of 87

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
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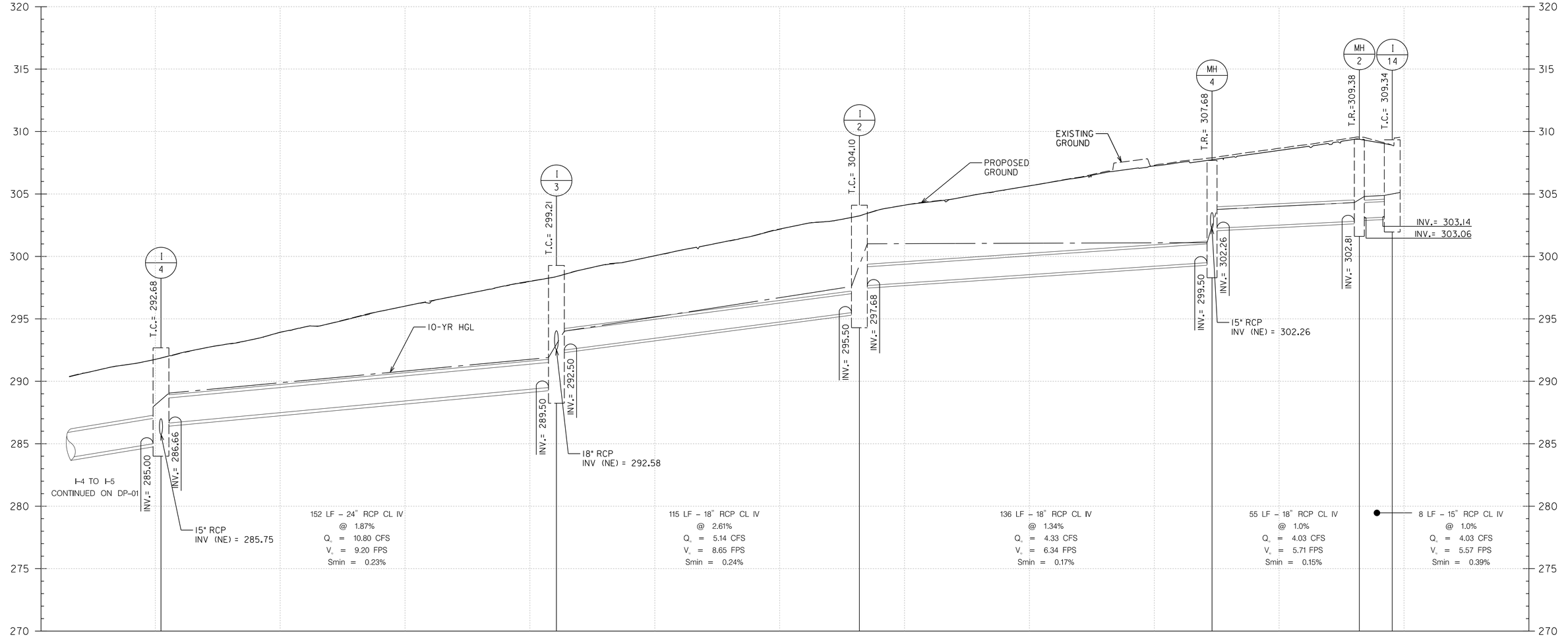

I–4 TO I–14

SEE PLAN SHEET PS–02–PS–03

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

20' 0 20' 40'
HORIZONTAL SCALE: 1" = 20'

DP-02

20' 0 20' 40'
SCALE: 1" = 20'

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Chief, Design Section Date

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_____ _____
Chief,
Division of Transportation Engineering Date

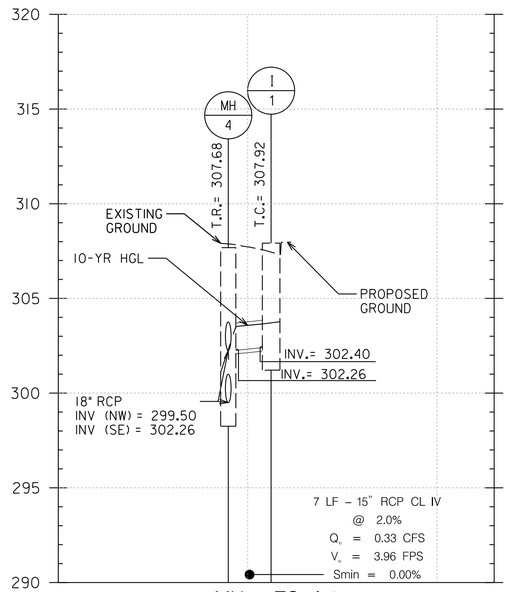
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
STORM DRAIN PROFILES

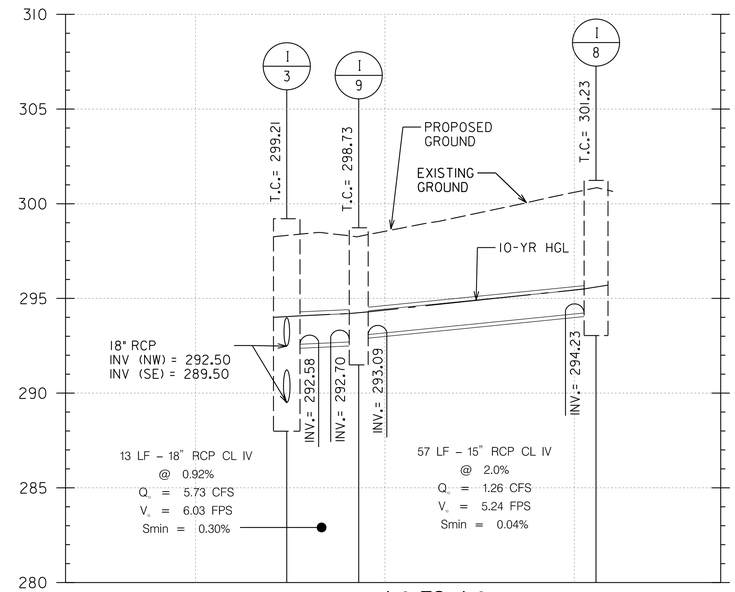
SCALE: N.T.S.

SHEET 31 of 87

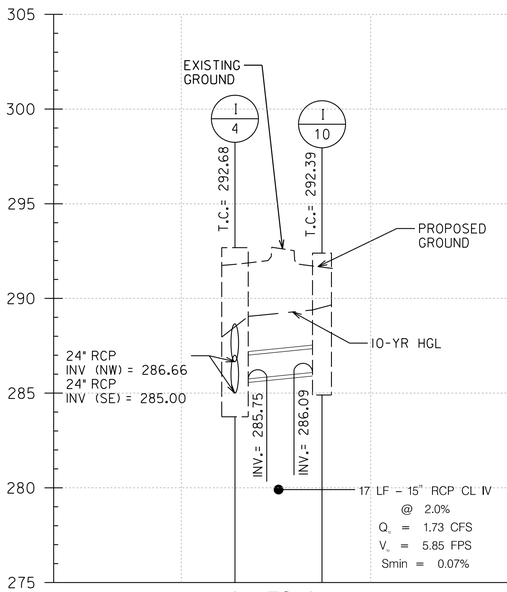
2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pDP-V002_FlowerAve.dgn



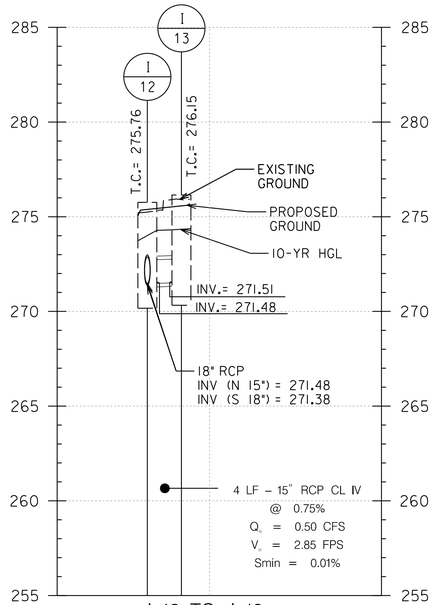
MH–4 TO I–1
SEE PLAN SHEET PS–03



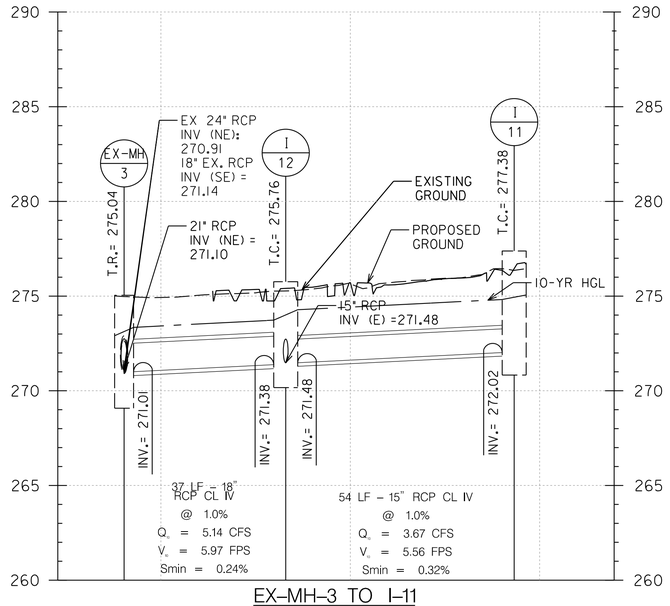
I–3 TO I–8
SEE PLAN SHEET PS–02



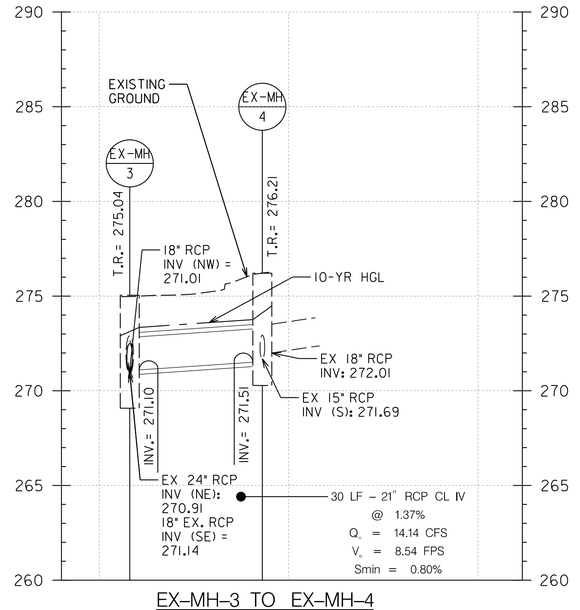
I–4 TO I–10
SEE PLAN SHEET PS–02



I–12 TO I–13
SEE PLAN SHEET PS–01



EX–MH–3 TO I–11
SEE PLAN SHEET PS–01



EX–MH–3 TO EX–MH–4
SEE PLAN SHEET PS–01

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

20' 0 20' 40'
HORIZONTAL SCALE: 1" = 20'

20' 0 20' 40'
SCALE: 1" = 20'

DP-03

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Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
STORM DRAIN PROFILES

SCALE: N.T.S.

SHEET 32 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pDP-V003_FlowerAve.dgn

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."

29. The contractor shall utilize a concrete washout structure for all concrete work, if the contractor wishes to use an off site concrete washout structure they shall notify the engineer of said location in writing.

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-I PLACE DESIGNATION (A-I, 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-I	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-I PLACE DESIGNATION (A-I, 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	
LIMIT OF CUT SLOPE	C	WETLAND BUFFER	B
LIMIT OF FILL SLOPE	F	100-YEAR FLOODPLAIN	

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

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.
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Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

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DRAWN BY: SMH	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
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RECOMMENDED FOR APPROVAL
_____ _____
Chief, Design Section Date

APPROVED
_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
EROSION AND SEDIMENT CONTROL NOTES

SCALE: NONE

ESN-01

SHEET 33 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pES-N001_FlowerAve.dgn

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 to commencing any work.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measure, construction or other land disturbing activities.
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 working day.
4. Place Tree Protection Fence. Tree Protection Fencing is shown offset from the Limit of Disturbance (LOD) line for graphic reasons only. Tree protection fence placement is to be executed at the LOD line.
5. Construction can occur coincidentally or any order the contractor chooses as long as approvals are in place.

SITE SPECIFIC SEQUENCE OF CONSTRUCTION

1. Clear and Grade for Installation of sediment control devices, only disturbing the area needed for installation of the sediment control devices.
2. Install Inlet Protection and Tree Protection Fence.
3. Once installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing, or grading.
4. Construct roadway, storm drain improvements, curb, sidewalk, grading, and SWM facilities.
5. Permanently stabilize disturbed roadside area with topsoil, seed and mulch as indicated on the Typical Sections and Landscape plans.
6. Upon final stabilization and written approval from MCDPS inspector, the permittee shall remove the sediment control devices.

M-NCPPC CONSTRUCTION NOTES

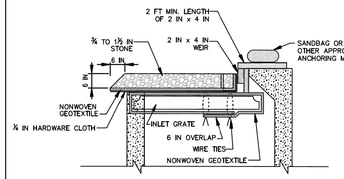
Removal of Existing Pavement within a Tree's Critical Root Zone:

1. The contractor shall meet with the M-NCPPC Urban Forester and Construction Inspector prior to removal of the pavement to discuss methods to be used to remove pavement. Removal of pavement may be required to be done by hand depending on site conditions.
2. The existing top layer of pavement shall be peeled away without disturbing the ground or material beneath. If a base course of rock is beneath the pavement the rock shall be left in place.
3. During the removal of the pavement layer great care shall be taken to not disturb existing tree roots along or under existing pavement. Existing tree roots greater than 1.5" in diameter encountered during the removal process shall not be cut unless approved by the M-NCPPC Urban Forester.
4. Equipment should remain on existing pavement during the removal process. Equipment shall not traverse over areas where pavement was removed in order to protect exposed tree roots.
5. Ground protection such as a 12" mulch layer will be required if equipment is needed to be operated within the critical root zone.
6. Removal of the existing pavement shall be done under supervision of the M-NCPPC Urban Forester and the Construction Inspector.
7. Stabilize area per approved plan or as directed by Construction Inspector.

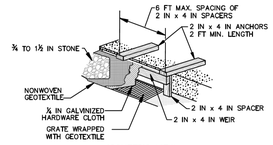
DETAIL E-9-6 COMBINATION INLET PROTECTION

STANDARD SYMBOL: CIOP

MAXIMUM DRAINAGE AREA = ¾ ACRE



SECTION



ISOMETRIC VIEW

1 OF 2

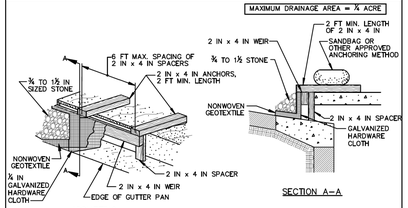
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL: CIP

MAXIMUM DRAINAGE AREA = ¾ ACRE



ISOMETRIC

SECTION A–A

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

DETAIL E-9-6 COMBINATION INLET PROTECTION

STANDARD SYMBOL: CIOP

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH x 4 INCH LUMBER.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
3. LIFT GRATE, AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE.
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 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH IT TO THE WEIR.
6. NAIL THE 2X4 WEIR TO THE TOP OF A 9 INCH LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
7. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2X4 ANCHORS (MINIMUM 2 FOOT LENGTHS OF 2x4 INCH TO THE TOP OF THE WEIR AT SPACER LOCATIONS). EXTEND 2X4 ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
8. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND BOTH ENDS OF THE THROAT OPENING.
9. FORM THE ¼ INCH HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE OVER THE HARDWARE CLOTH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
10. AT NON-SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
11. 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.

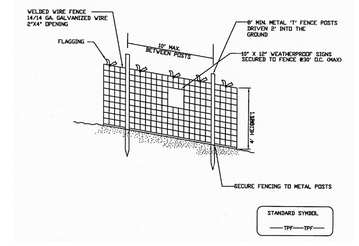
2 OF 2

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

Tree Protection Fence Detail

Not to scale



NOTES

1. Practice may be combined with sediment control fencing.
2. Location and limits of fencing should be coordinated in field with arborist.
3. Boundaries of protection area should be staked prior to installing protective device.
4. Root damage should be avoided.
5. Protection signage is required.
6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

ESN-02

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
DRAWN BY: SMH	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES EROSION AND SEDIMENT CONTROL NOTES

SCALE: NONE

SHEET 34 of 87

2/26/2025
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BEJING DELIGHT RESTAURANT
8435 PINEY BRANCH ROAD
GATEWAY PROPERTY LLC
L. F.
TAX ID 03682242
PLAT 24191

THE FLOWER CENTER
8472 PINEY BRANCH ROAD
FLOWER ASSOCIATES
L.03723 F.0026
TAX ID 01397363
PLAT 209

PINEY BRANCH CENTER
8501 PINEY BRANCH ROAD
JBG/PINEY BRANCH RETAIL LLC
L.51454 F.0371
TAX ID 00978064
PLAT XXXX

SHOPPING CENTER
FLOWER AVENUE
FLOWER AVE SHOPG CNTR LTD
L.06551 F.0261
TAX ID 01397603
PLAT 209

MD 320 (PINEY BRANCH ROAD)

FLOWER AVENUE

CONSTRUCTION FLOWER AVENUE

PROPOSED RIGHT-OF-WAY

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

EX. ROW

MATCH LINE STA. 104 + 75 – SEE SHEET ES-02

LEGEND

CIP CURB INLET PROTECTION

COIP COMBINATION INLET PROTECTION

LOD LIMIT OF DISTURBANCE

ES-01

SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____

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Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
DRAWN BY: SMH	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=20'

SHEET 35 of 87

2/26/2025
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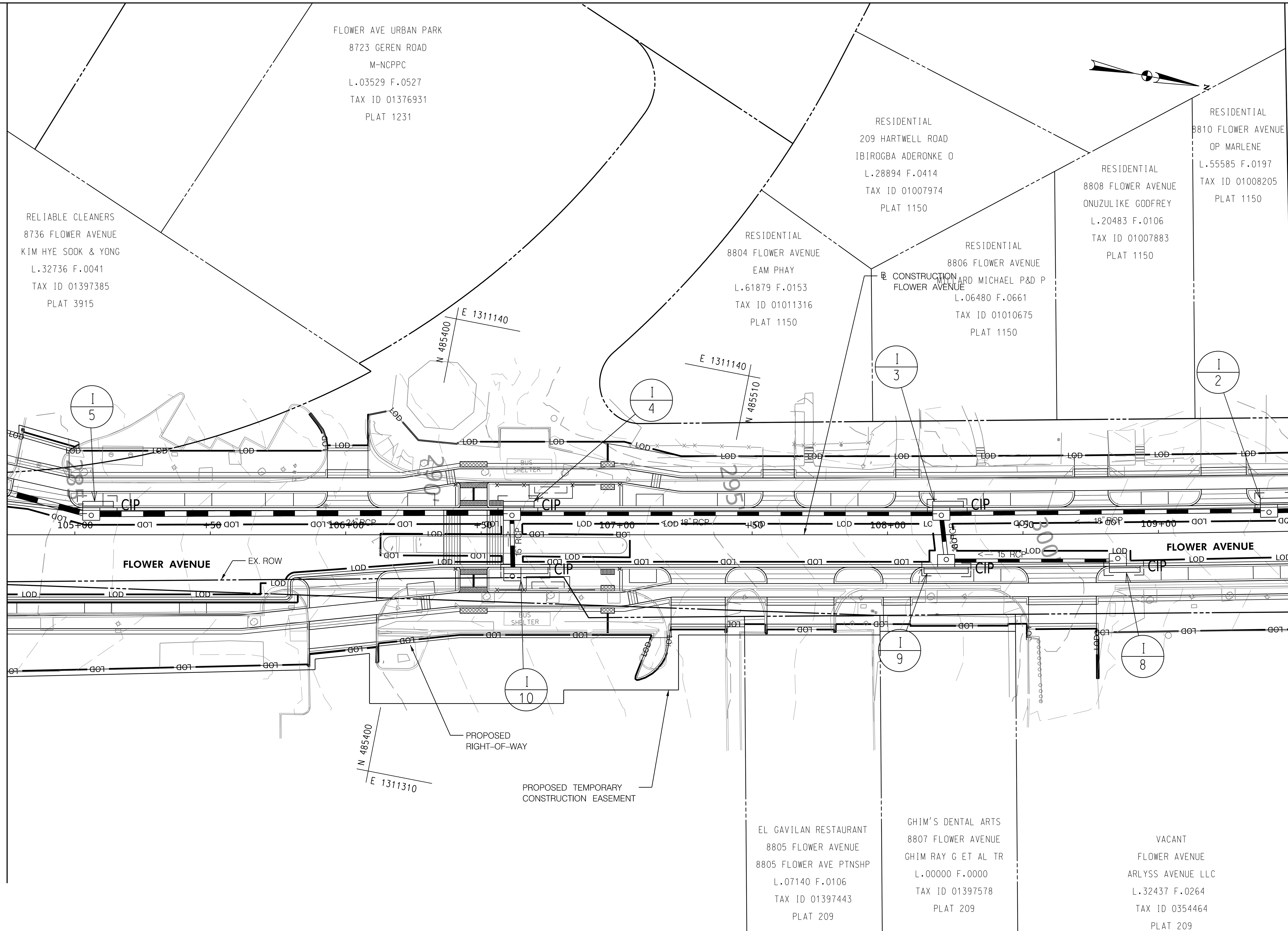
LEGEND

CIP CURB INLET PROTECTION

LOD LIMIT OF DISTURBANCE



ES-02

20' 0 20' 40'

SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH — DATE: FEBRUARY, 2025

DRAWN BY: SMH — DATE: FEBRUARY, 2025

CHECKED BY: CC — DATE: FEBRUARY, 2025

DRAWING NO.: — DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
EROSION AND SEDIMENT
CONTROL PLAN

SCALE: 1"=20'

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
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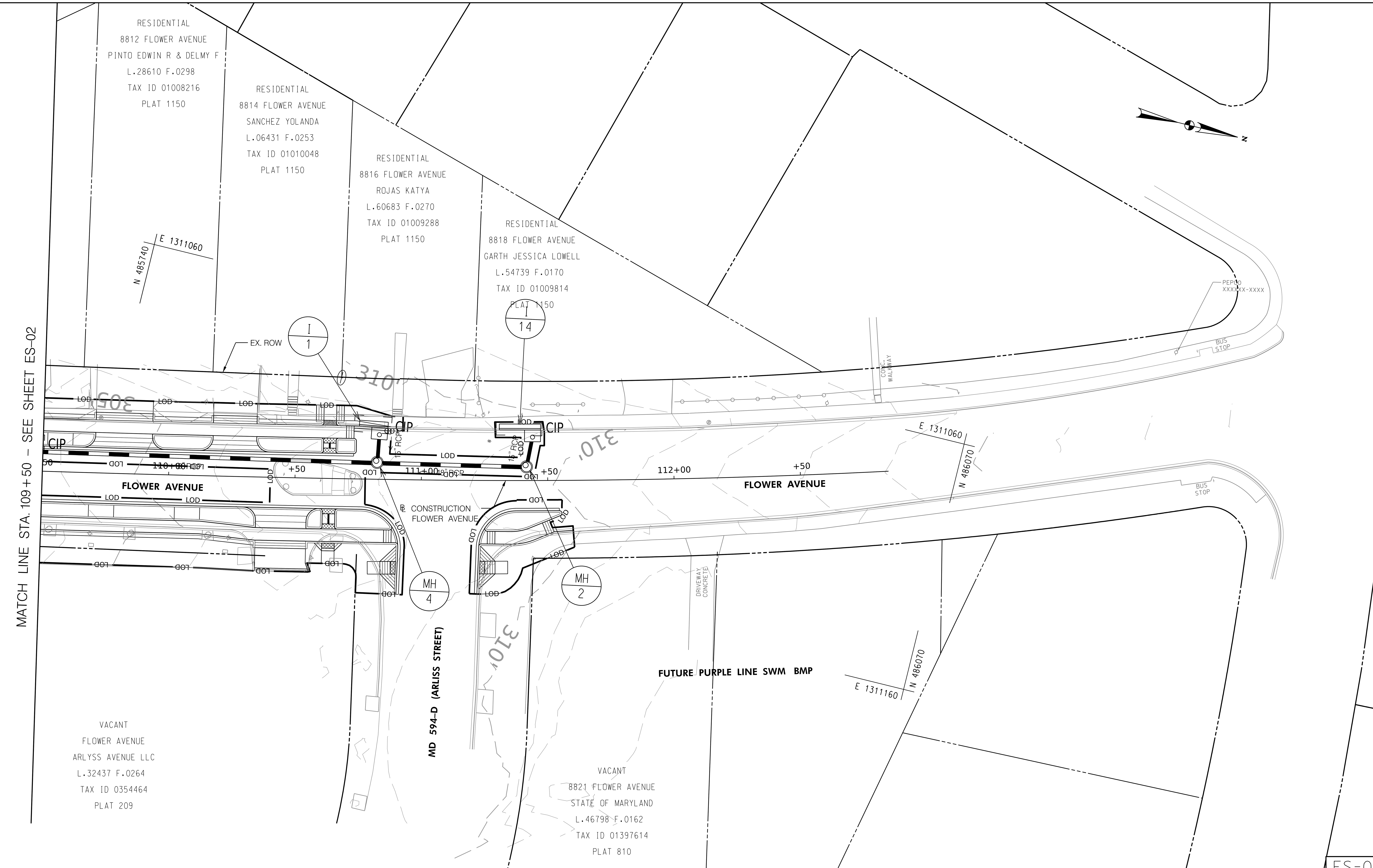
LEGEND

CIP CURB INLET PROTECTION

LIMIT OF DISTURBANCE



ES-03

20' 0 20' 40'

SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: SMH	DATE: FEBRUARY, 2025
DRAWN BY: SMH	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION

DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
EROSION AND SEDIMENT
CONTROL PLAN

SCALE: 1"=20'

SHEET 37 of 87

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BiPPA Bicycle and Pedestrian Priority Areas

PROFESSIONAL CERTIFICATION:
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LICENSE NO: ____________ EXPIRATION DATE: ____________

2/26/2025
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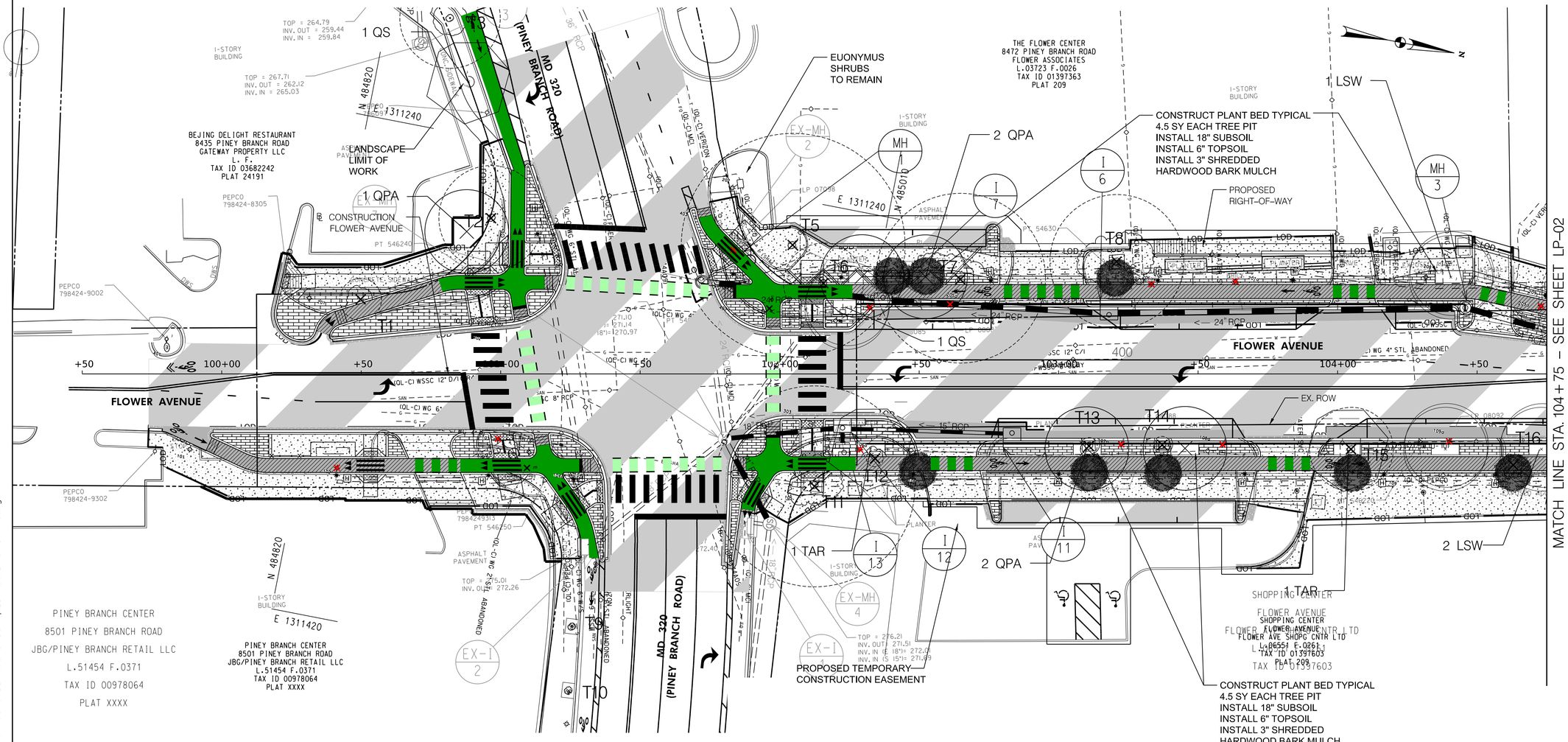
PLANT LIST LP-01						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
LSW	3	*Liquidambar styraciflua 'Ward'*	Ward Sweetgum	2.5 IN. CAL.	B&B	CENTRAL LEADER
QPA	5	*Quercus phellos 'Abundance'*	Abundance Willow Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
QS	2	*Quercus shumardii*	Shumard Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
TAR	2	*Tilia americana 'Redmond'*	Redmond Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER

MATERIAL LIST - LP-01				
CATEGORY CO	UNIT	DESCRIPTION	LOCATION	QUANTITY
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT (4'X10')	45
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT (4'X10')	45
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT (4'X10')	45
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT (4'X10')	45
700000	LF	TEMPORARY CHAIN LINK FENCE (TREE PROTECTION)	AS SHOWN	42
NOTE: SHREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO CONSTRUCT PLANTING BEDS				

REFER TO APPROVED SNRI 42023179E
FOR TREE PROTECTION AND REMOVALS



PROP. TREE

20' 0 20' 40'
SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KRD	DATE: FEBRUARY, 2025
DRAWN BY: MK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LANDSCAPE PLAN

SCALE: 1"=20'

SHEET 38 of 87

LP-01

LANDSCAPE ARCHITECT 3190 KATHLEEN RENDEL DAHILL STATE OF MARYLAND

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
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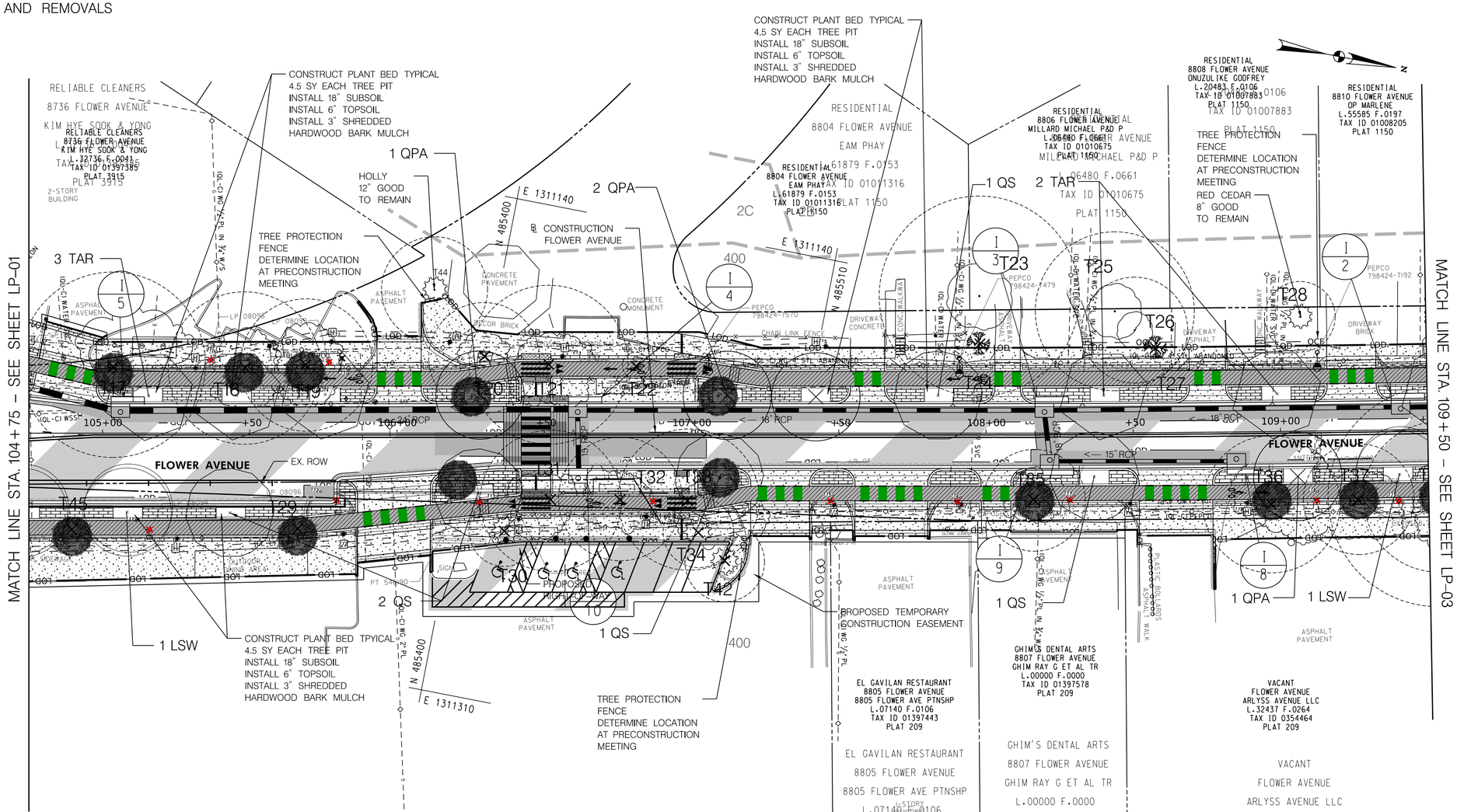
PLANT LIST LP-02						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
LSW	2	*Liquidambar styraciflua 'Ward'*	Ward Sweetgum	2.5 IN. CAL.	B&B	CENTRAL LEADER
QPA	4	*Quercus phellos 'Abundance'*	Abundance Willow Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
QS	5	*Quercus shumardii*	Shumard Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
TAR	5	*Tilia americana 'Redmond'*	Redmond Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER

REFER TO APPROVED SNRI 42023179E
FOR TREE PROTECTION AND REMOVALS

MATERIAL LIST - LP-02				
CATEGORY COI	UNIT	DESCRIPTION	LOCATION	QUANTITY
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT (4'X10')	72
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT (4'X10')	72
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT (4'X10')	72
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT (4'X10')	72
700000	LF	TEMPORARY CHAIN LINK FENCE (TREE PROTECTION)	AS SHOWN	90
NOTE: SHREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO CONSTRUCT PLANTING BEDS				



LANDSCAPE ARCHITECT 3190
KATHLEEN RENDEL DAHILL
STATE OF MARYLAND

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KRD	DATE: FEBRUARY, 2025
DRAWN BY: MK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LANDSCAPE PLAN

SCALE: 1"=20'

SHEET 39 of 87

LP-02

2/26/2025
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SHA LANDSCAPE NOTES

7.1 LANDSCAPE NOTES. LANDSCAPE CONSTRUCTION WITHIN SHA PROPERTY, INCLUDING RIGHT OF WAYS, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA 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. CURRENT SPECIFICATIONS ARE AT 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.

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.

7.6 PAVEMENT REMOVAL AND RESTORATION. AREAS OF PAVEMENT REMOVAL SHALL BE EXCAVATED TO REMOVED PAVEMENTS, AGGREGATE BASE, AND COMPACTED SOIL AND OTHER UNUITALBE MATERIALS BEFORE PLACING SOILS IN CONFORMANCE WITH SECTION 701 OF THE SHA STANDARD SPECIFICATIONS.

1. ROADWAYS SHALL BE EXCAVATED TO A DEPTH OF 16 INCHES BELOW FINAL GRADE BEFORE PLACING FURNISHED SUBSOIL 12 IN. DEPTH AND PLACING FURNISHED TOPSOIL 4 IN. DEPTH IN CONFORMANCE IWTH NOTE 7.8
2. TEMPORARY STAW 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 WITHIN CHANNELS.

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.

7.13 TREE PRESERVATION AREAS. TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) SHALL BE INSTALLED IN LOCATIONS DELINEATED ON THE PLANS IN CONFORMANCE WITH SECTION 120 OF THE SHA STANDARD SPECIFICATION TO PROTECT EXISTING TREES AND OTHER VEGETATION DURING CONSTRUCTION. AREAS WITHIN TOCF SHALL BE PROTECTED FROM ALL PROHIBITED AND RESTRICTED ACTIVITIES, AS SPECIFIED IN SECTION 120.

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 INDIVIDUAL PERMIT (RTIP) OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION PLAN OF THE LOCAL AUTHORITY.

1. A COPY OF THE RTIP OR FCP SHALL BE SUBMITTED TO THE SHA LANDCAPE PROGRAMS DIVISION BEFORE WORK IS PERFORMED, AND A COPY OF THE RTIP 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.

7.20 STUMP REMOVAL. STUMP REMOVAL IN TURFGRASS OR MEADOW AREAS SHALL BE PERMFORMED IN CONFORMANCE WITH OPERATION 5 - STUMP REMOVAL OF SECTION 714.

7.21 TREE BRANCH PRUNING SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A MARYLAND LICENSED TREE EXPERT IN CONFORMANCE WITH ANSI A300 STANDARDS PER SECTION 712 AS NECESSARY FOR ANY OF THE FOLLOWING: TO INSTALL TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) ALONG DELINEATIONS OF PLANS; TO PERFORM TREE ROOT PRUNING ALONG DELINEATIONS ON PLANS; TO PROVIDE 8 FOOT CLEARANCE ABOVE SIDEWALK PAVEMENTS AND 16 FOOT CLEARANCE ABOVE ROADWAY PAVEMENTS: TO REPAIR TREE WOUNDS; AND TO PERFORM OTHER RECOMMENDED CLEANING, THINNING, REDUCING, AND PRUNING NECESSARY TO ACCOMMODATE UTILITIES. ALL DEBRIS SHALL BE REMOVED FROM SHA PROPERTY.

7.22 TREE ROOT PRUNING SHALL BE PERFORMED ALONG THE LINE SHOWN ON THE PLANS IN CONFORMANCE WITH SECTION 715. TREE ROOT PRUNING SHALL BE COMPLETED BEFORE BEGINNING EXCAVATION OR OTHER CONSTRUCTION ADJACENT TO TREES TO BE PRESERVED.

7.25 FUTURE MAINTENANCE. ADDITIONAL MAINTENANCE THAT MAY BE REQUIRED AFTER HARDSCAPE, STREET FUNITURE OR PLANT MATERIALS ARE INSTALLED AND ACCEPTED BY SHA SUCH AS REPLACEMENT, WATERIN, WEEDING, MULCHING OR PEST CONTROL MA BE PROVIDED BY THE APPLICANT WHEN A PERMIT FOR THE PROPOSED WORK IS ISSUED BY THE SHA DISTRICT OFFICE.

PLANT LIST LP-03

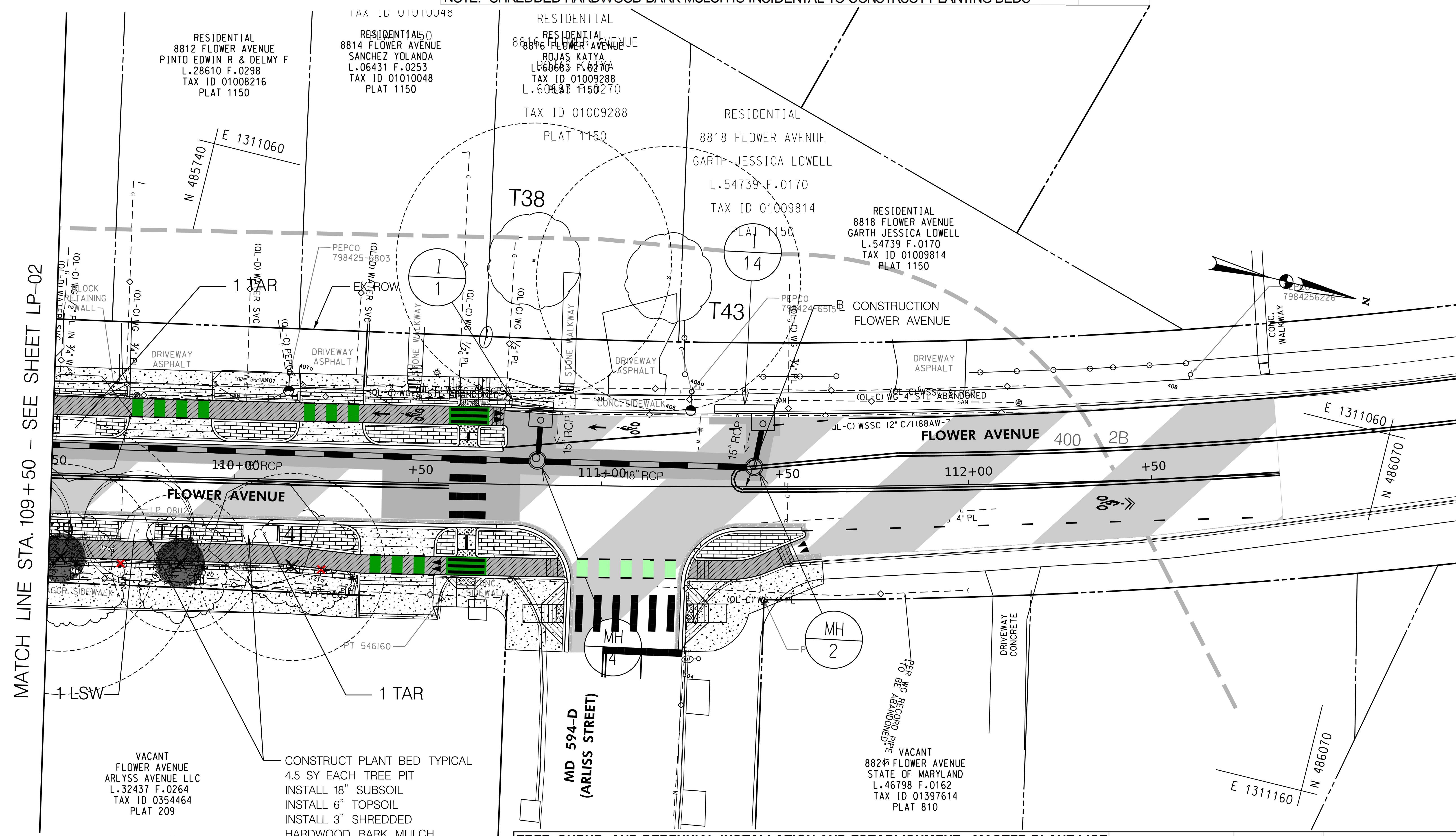
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
LSW	1	*Liquidambar styraciflua 'Ward'*	Ward Sweetgum	2.5 IN. CAL.	B&B	CENTRAL LEADER
TAR	2	*Tilia americana 'Redmond'*	Redmond Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER

REFER TO APPROVED SNRI 42023179E FOR TREE PROTECTION AND REMOVALS

MATERIAL LIST - LP-03

CATEGORY CO[DE]	UNIT	DESCRIPTION	LOCATION	QUANTITY
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT (4'X10')	13.5
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT (4'X10')	13.5
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT (4'X10')	13.5
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT (4'X10')	13.5

NOTE: SHREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO CONSTRUCT PLANTING BEDS

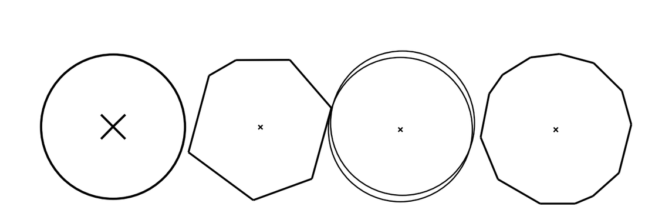


TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - MASTER PLANT LIST

SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
LSW	6	*Liquidambar styraciflua 'Ward'*	Ward Sweetgum	3.0 IN. CAL.	B&B	CENTRAL LEADER
QPA	9	*Quercus phellos 'Abundance'*	Abundance Willow Oak	3.0 IN. CAL.	B&B	CENTRAL LEADER
QS	7	*Quercus shumardii*	Shumard Oak	3.0 IN. CAL.	B&B	CENTRAL LEADER
TAR	9	*Tilia americana 'Redmond'*	Redmond Linden	3.0 IN. CAL.	B&B	CENTRAL LEADER

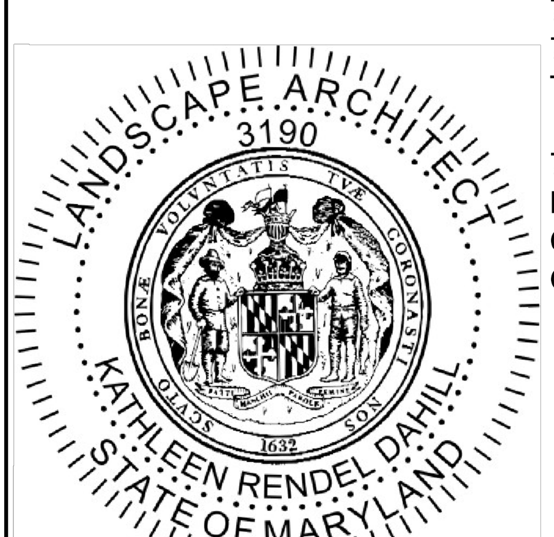
Category Code	Unit	Description/Location	LOCATION	QUANTITY
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT	131
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT	131
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT	131
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT	131
700000	LF	TEMPORARY CHAIN LINK FENCE (TREE PROTECTION)	AS SHOWN	132

NOTE: SHREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO CONSTRUCT PLANTING BEDS



PROP. TREE

20' 0 20' 40'
SCALE: 1" = 20'



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KRD	DATE: FEBRUARY, 2025
DRAWN BY: MK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

LP-03

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
LANDSCAPE PLAN

SCALE: 1"=20'

2/26/2025
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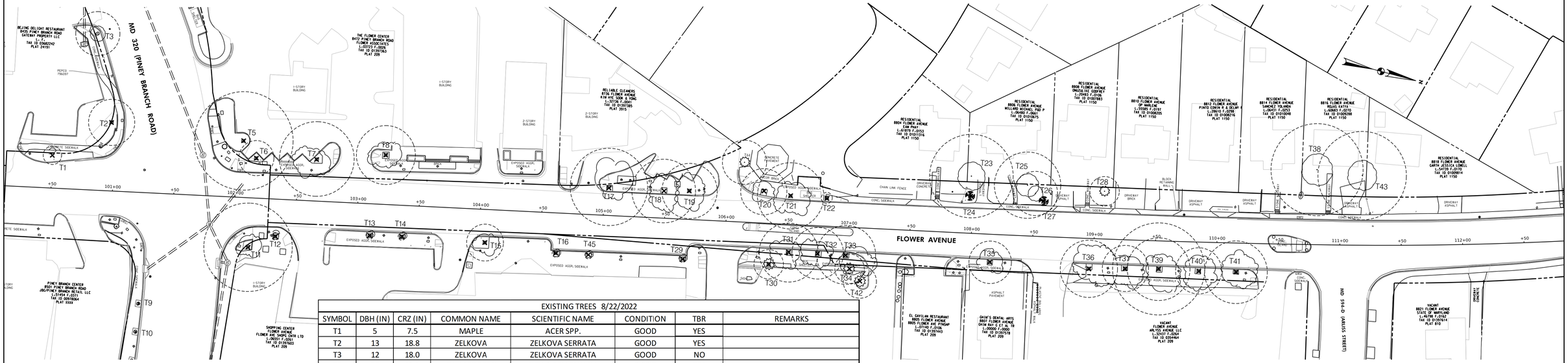

EXISTING TREES 8/22/2022							
SYMBOL	DBH (IN)	CRZ (IN)	COMMON NAME	SCIENTIFIC NAME	CONDITION	TBR	REMARKS
T1	5	7.5	MAPLE	ACER SPP.	GOOD	YES	
T2	13	18.8	ZELKOVA	ZELKOVA SERRATA	GOOD	YES	
T3	12	18.0	ZELKOVA	ZELKOVA SERRATA	GOOD	NO	
T5	27	40.1	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T6	10	14.3	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T7	20	30.4	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	GENERAL DIE-BACK / DRY
T8	16	24.0	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T9	1	1.5	OAK	QUERCUS SPP.	GOOD	NO	
T10	1	1.5	OAK	QUERCUS SPP.	GOOD	NO	
T11	24	36.0	CALLERY PEAR	PYRUS CALLERYANA	GOOD/FAIR	YES	MISSING 2 LG LIMBS
T12	2	3.0	ZELKOVA	ZELKOVA SERRATA	GOOD	YES	
T13	2	3.0	LILAC TREE	SYRINGA VULGARIS	GOOD/FAIR	YES	DROUGHT STRESS
T14	2	3.0	LILAC TREE	SYRINGA VULGARIS	GOOD/FAIR	YES	DROUGHT STRESS
T15	10	15.0	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T16	2	3.0	ZELKOVA	ZELKOVA SERRATA	GOOD	YES	
T17	21	31.5	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T18	17	25.9	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	BRANCH DIE-BACK
T19	15	22.5	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	BRANCH DIE-BACK
T20	13	18.8	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T21	18	27.0	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	BROKEN BRANCH / HOLES IN TRUNK
T22	3	4.5	CALLERY PEAR	PYRUS CALLERYANA	POOR	YES	BROKEN TRUNK
T23	30+	45+	WHITE OAK	QUERCUS ALBA	GOOD	NO	NOT WITHIN ROW
T24	20	30.0	STANDING DEAD	OAK	DEAD	YES	TO BE REMOVED
T25	18	27.0	RED OAK	QUERCUS RUBRA	FAIR	NO	BRANCH DIE-BACK/ DAMAGE AT BASE
T26	12	18.0	WHITE OAK	QUERCUS ALBA	GOOD/FAIR	NO	TOPPED - UTILITY TRIM
T27	20	30.0	STANDING DEAD	OAK	DEAD	YES	TO BE REMOVED
T28	8	12.0	RED CEDAR	JUNIPERUS VIRGINIANA	GOOD	NO	
T29	2	3.0	ZELKOVA	ZELKOVA SERRATA	GOOD	YES	
T30	8	12.0	RED CEDAR	JUNIPERUS VIRGINIANA	GOOD	YES	
T31	16	24.0	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	GENERAL DIE-BACK / DRY
T32	14	21.0	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	GENERAL DIE-BACK / DRY
T33	16	24.0	CALLERY PEAR	PYRUS CALLERYANA	FAIR	YES	GENERAL DIE-BACK / DRY
T34	8	12.0	RED CEDAR	JUNIPERUS VIRGINIANA	GOOD	YES	
T35	12	17.3	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	GENERAL DIE-BACK / DRY
T36	16	23.3	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	GENERAL DIE-BACK / DRY
T37	13	18.8	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	GENERAL DIE-BACK / DRY
T38	25	37.5	TULIP POPLAR	LIRIODENDRON TULIPIFERA	GOOD	NO	
T39	17	25.5	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T40	13	18.8	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T41	17	25.5	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T42	9	13.5	VIRGINIA PINE	PINUS VIRGINIANA	FAIR/POOR	YES	DROUGHT STRESS / THIN CROWN
T43	24	36.0	QUERCUS ALBA	WHITE OAK	GOOD	NO	
T44	12	18.0	ILEX SP.	HOLLY TREE	GOOD / FAIR	NO	DAMAGE AT BASE
T45	2	3.0	ZELKOVA	ZELKOVA SERRATA	GOOD	YES	

SPECIMEN / SIGNIFICANT TREE LIST							
SYMBOL	DBH (IN)	CRZ (IN)	COMMON NAME	SCIENTIFIC NAME	CONDITION	TBR	REMARKS
T5	27	40.1	CALLERY PEAR	PYRUS CALLERYANA	GOOD	YES	
T11	24	36.0	CALLERY PEAR	PYRUS CALLERYANA	GOOD/FAIR	YES	MISSING 2 LG LIMBS
T23	30+	45+	WHITE OAK	QUERCUS ALBA	GOOD	NO	NOT WITHIN ROW
T38	25	37.5	TULIP POPLAR	LIRIODENDRON TULIPIFERA	GOOD	NO	
T43	24	36.0	QUERCUS ALBA	WHITE OAK	GOOD	NO	

TREE MITIGATION TABLE				
NUMBER OF SIGNIFICATION / SPECIMEN TREES REMOVED: 2				
T5	27 DBH		CALLERY PEAR	
T11	24 DBH		CALLERY PEAR	
MITIGATION REQUIREMENTS:	(1) INCH CALIPER TREE PER (4) INCH DBH REMOVED.			
TOTAL REQUIREMENT:	(51) INCHES / 4 = 13 INCHES			
TREE MITIGATION PROPOSED:	(31) 3" CALIPER TREES = 93 INCHES			

NOTES:
REMOVAL OF THESE TREES IS UNAVOIDABLE DUE TO EXPECTED IMPACT FROM PROJECT CONSTRUCTION.
PROPOSED TREES ARE NATIVE AND PER MC DSP RECOMMENDED TREE LIST.
MC DPS APPROVAL OF CHAPTER 55 TREE CANOPY REQUIREMENTS ARE NECESSARY FOR SEDIMENT AND EROSION CONTROL APPROVAL.
REFER TO APPROVED SNRI 42023179E NATURAL RESOURCE INVENTORY AND TREE SAVE PLAN

40' 0 40' 80'
SCALE: 1" = 40'

LANDSCAPE ARCHITECT 3190 KATHLEEN RENDEL DAHILL STATE OF MARYLAND

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KRD	DATE: FEBRUARY, 2025
DRAWN BY: KRD	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL
Chief, Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date
1"=40'

LD-04

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LANDSCAPE PLAN TREE REMOVALS

SCALE: 1" = 40'
SHEET LD-04 of 87

2/26/2025
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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

MDOT SHA - "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

MDOT SHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

MDOT SHA - "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND 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 LETTER. (OH-1A, OH-1B, OH-1C OR OH-1a, OH-1b, OH-1c)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

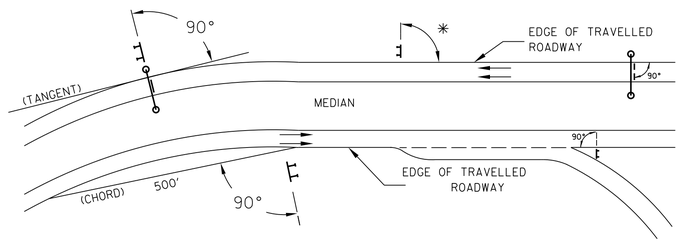
- R - REGULATORY
- W - WARNING
- M - ROUTE MARKERS AND ACCESSORIES
- D - DESTINATION AND MILEAGE PANELS
- S - SCHOOL

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 AT http://apps.roads.maryland.gov/businesswithsha/bizstdsspecs/desmanualstdpub/publicationsonline/oots/internet_signbook.asp

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°

REFLECTORIZATION

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

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 TOP OF ROADWAY TO TO THE BOTTOM OF SIGN LUMINAIRE. ALL SIGN LUMINAIRES ARE TO BE AT THE SAME ELEVATION.
   - B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, THEY SHALL 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 DESIGN 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 MDOT SHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.
2. LISTED ON MDOT SHA 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:

GENERAL NOTE: ALL COLORS SHALL BE RETROREFLECTIVE EXCEPT BLACK. BLACK TEXT, BORDERS, SYMBOLS OR ANY BLACK ELEMENTS OF ANY SIGN SHALL BE NON-REFLECTIVE. THIS APPLIES TO ALL MDOT SHA SIGNS AS SHOWN BELOW.

A) GUIDE, EXIT GORE, GENERAL INFORMATION, AND SERVICE SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (III).

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (III). REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (FLUORESCENT YELLOW AND FLUORESCENT YELLOW-GREEN) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (III). REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

(I). "RED" REGULATORY SIGNS; (SPECIFICALLY - STOP, YIELD, DO NOT ENTER AND WRONG WAY). ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (III).

(II). ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE REQUIREMENTS FOR ASTM TYPE IV (4).

(III). ALL OTHER REGULATORY SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET ASTM TYPE IV (4) INCLUDING RED ELEMENTS. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE REQUIREMENTS FOR WARNING SIGNS.

E) ROUTE MARKERS (INDEPENDENT USE AND GUIDE SIGN USE)

INDEPENDENT USE: ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET BUT NOT TO EXCEED THE REQUIREMENTS FOR ASTM TYPE IV (4).

GUIDE SIGN USE: WHEN INCORPORATED IN THE BODY OF A GUIDE SIGN, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE SHEETING REQUIREMENTS OF THE GUIDE SIGNS FOR WHICH THEY ARE TO BE APPLIED; ASTM TYPE XI (III).

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

G) SPECIFIC SERVICE (LOGO) SIGNING - ALL COPY, DIVIDER BORDERS, LOGOS AND ARROWS SHALL BE DEMOUNTABLE ALUMINUM OVERLAYS, .032 MINIMUM TO .063 MAXIMUM. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (III). DISTANCES ON DIRECTIONAL ARROWS WHEN SPECIFIED SHALL BE BLACK. THE OVERLAYS ARE TO BE APPLIED WITH .125 ALUMINUM POP RIVETS TO THE BODY OF THE MAIN SIGN.

H) 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"

DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD	
APPROVED	
For	
BY	
DATE:	

SN-1 REV. DATE: NOVEMBER, 2023

2/26/2025
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

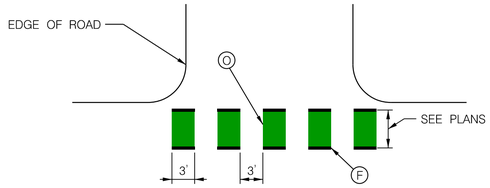
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING DETAILS

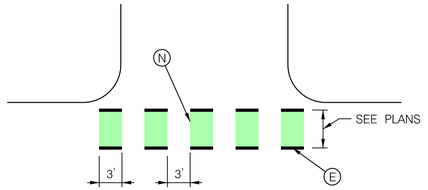
SCALE: NONE

SHEET 42 of 87

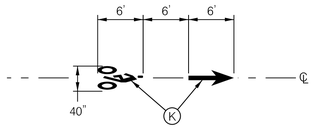
SND-01



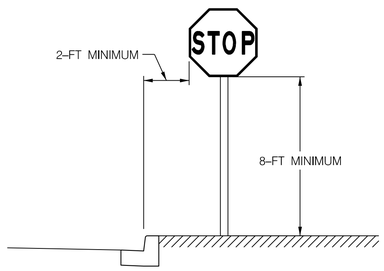
TYPICAL CONFLICT ZONE DETAIL
AT DRIVEWAYS ALONG MCDOT ROADWAYS



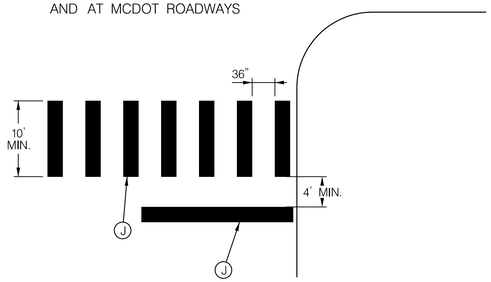
TYPICAL CONFLICT ZONE DETAIL
AT MDSHA ROADWAYS AND DRIVEWAYS
AND AT MCDOT ROADWAYS



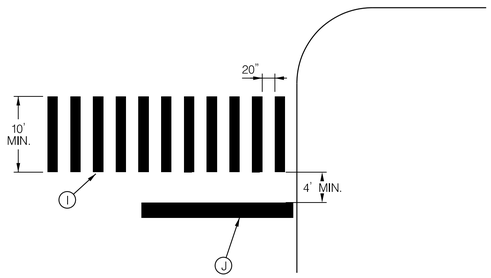
BIKE LANE SYMBOL DETAIL



POST MOUNTED SIGN DETAIL

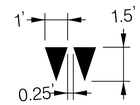


TYPICAL CROSSWALK DETAIL SHA



TYPICAL SIGNALIZED CROSSWALK DETAIL MCDOT

NOTE: STOP BARS AT UNSIGNALIZED CROSSWALK
SHALL BE 16" FOR MCDOT



YIELD MARKING DETAIL

DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD	
APPROVED	
For	
BY	
DATE:	

SND-02

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BiPPA Bicycle and Pedestrian Priority Areas

PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
SIGNING AND MARKING DETAILS

SCALE: NONE

SHEET 43 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pSN-0002_FlowerAve.dgn

PAVEMENT MARKING LEGEND

- (A) INSTALL 5 INCH YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
- (B) INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (C) INSTALL 5 INCH YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (D) INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (3–9–3 DOTTED)
- (E) INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (3–3–3 DOTTED)
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- (G) INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (10–30–10 BROKEN)
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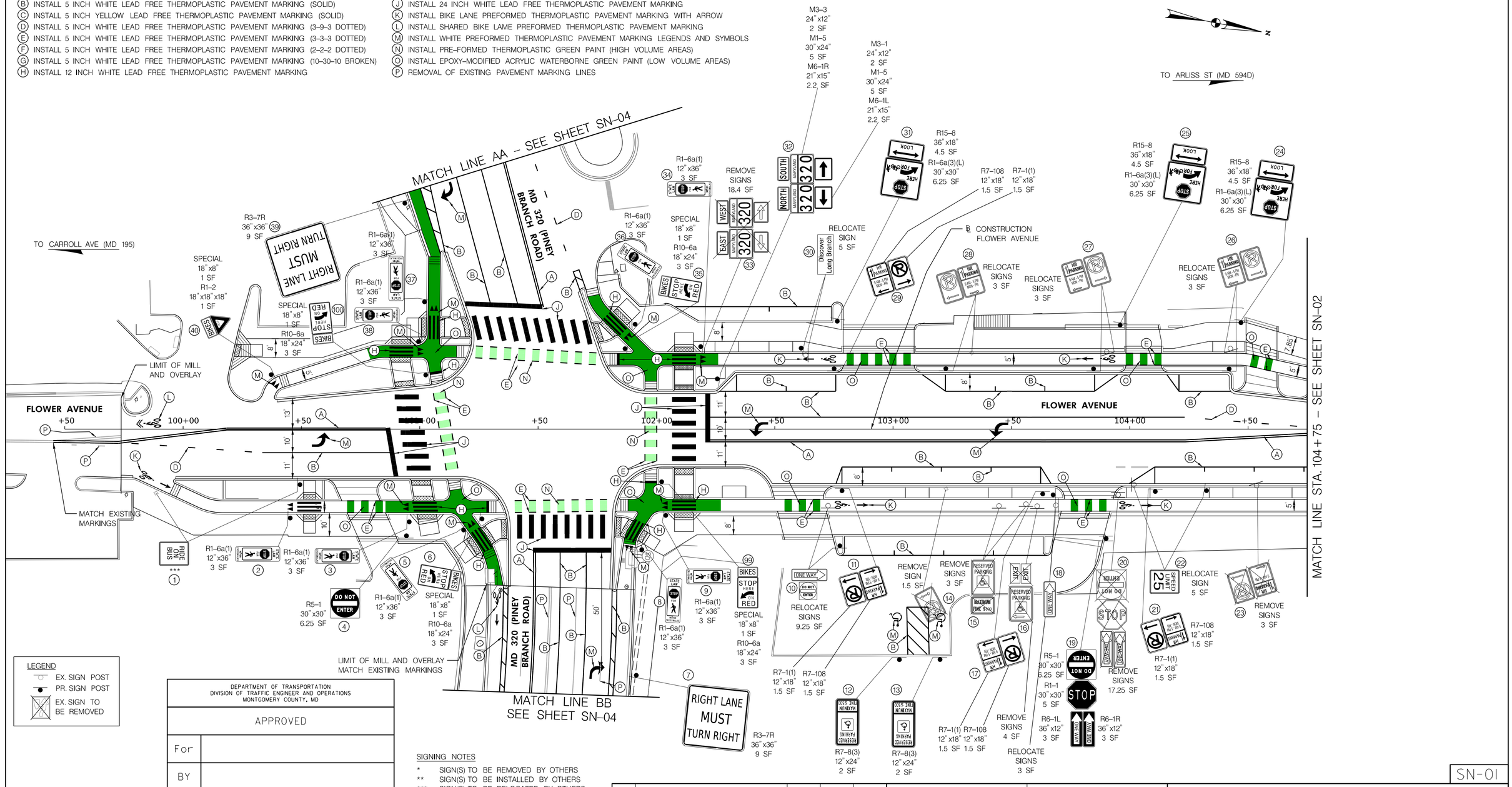
- (K) INSTALL BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW
- (L) INSTALL SHARED BIKE LAME PREFORMED THERMOPLASTIC PAVEMENT MARKING
- (M) INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- (N) INSTALL PRE–FORMED THERMOPLASTIC GREEN PAINT (HIGH VOLUME AREAS)
- (O) INSTALL EPOXY–MODIFIED ACRYLIC WATERBORNE GREEN PAINT (LOW VOLUME AREAS)
- (P) REMOVAL OF EXISTING PAVEMENT MARKING LINES



LEGEND

- EX. SIGN POST
- PR. SIGN POST
- EX. SIGN TO BE REMOVED

SIGNING NOTES

- * SIGN(S) TO BE REMOVED BY OTHERS
- ** SIGN(S) TO BE INSTALLED BY OTHERS
- *** SIGN(S) TO BE RELOCATED BY OTHERS

20' 0 20' 40'

SCALE: 1" = 20'

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEER AND OPERATIONS
MONTGOMERY COUNTY, MD

APPROVED

For

BY

DATE:

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING PLAN

SCALE: 1"=20'

SHEET 44 of 87

SN–01

PROFESSIONAL CERTIFICATION:
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PAVEMENT MARKING LEGEND

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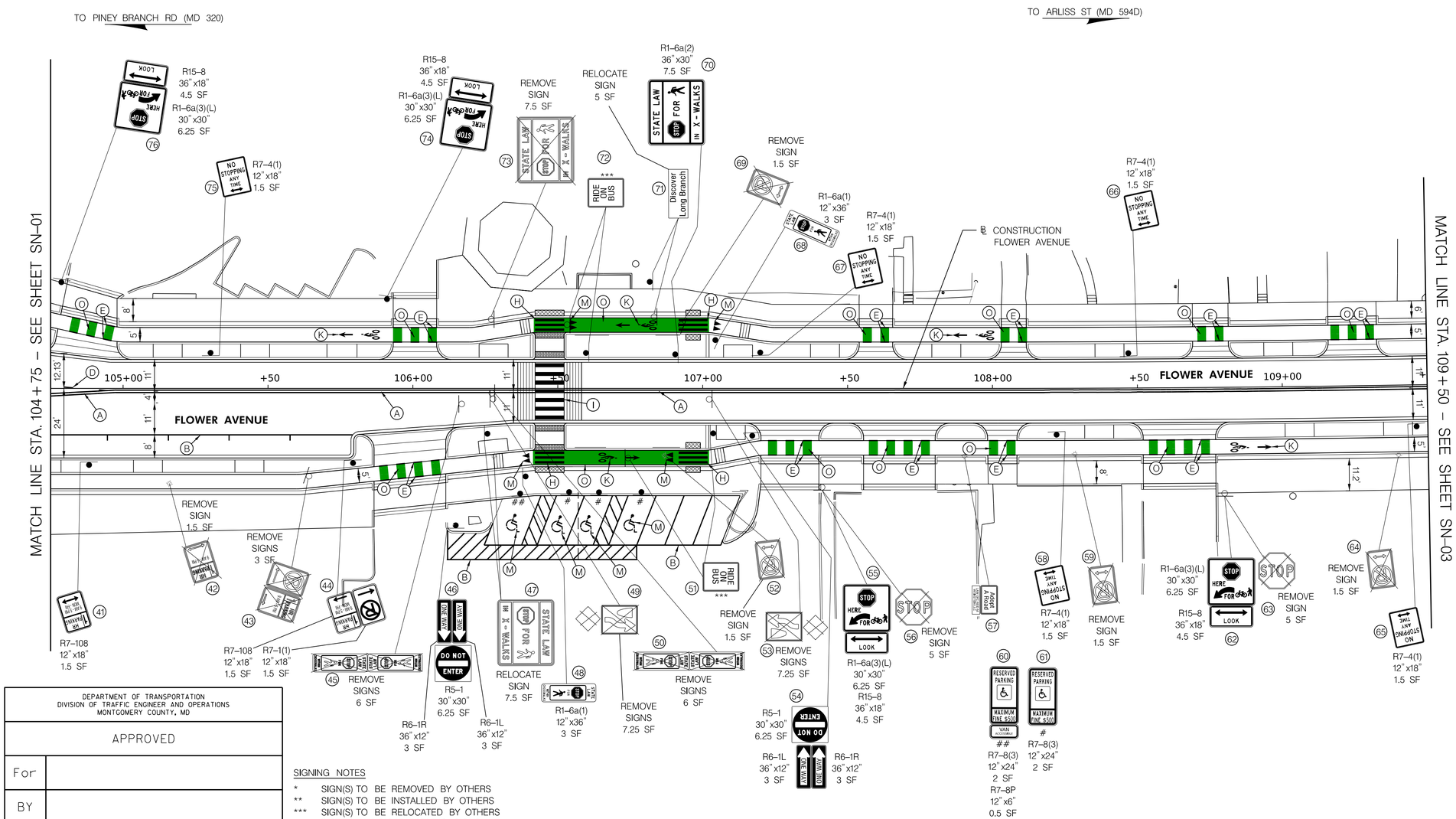

LEGEND

- EX. SIGN POST
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SIGNING NOTES

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- ** SIGN(S) TO BE INSTALLED BY OTHERS
- *** SIGN(S) TO BE RELOCATED BY OTHERS
- # INSTALL HANDICAP PARKING SIGNS
- ## INSTALL VAN ACCESSIBLE HANDICAP PARKING

SCALE: 1" = 20'

DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD	
APPROVED	
For	
BY	
DATE:	

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
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CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

SN-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING PLAN

SCALE: 1"=20'

SHEET 45 of 87

PROFESSIONAL CERTIFICATION:
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PAVEMENT MARKING LEGEND

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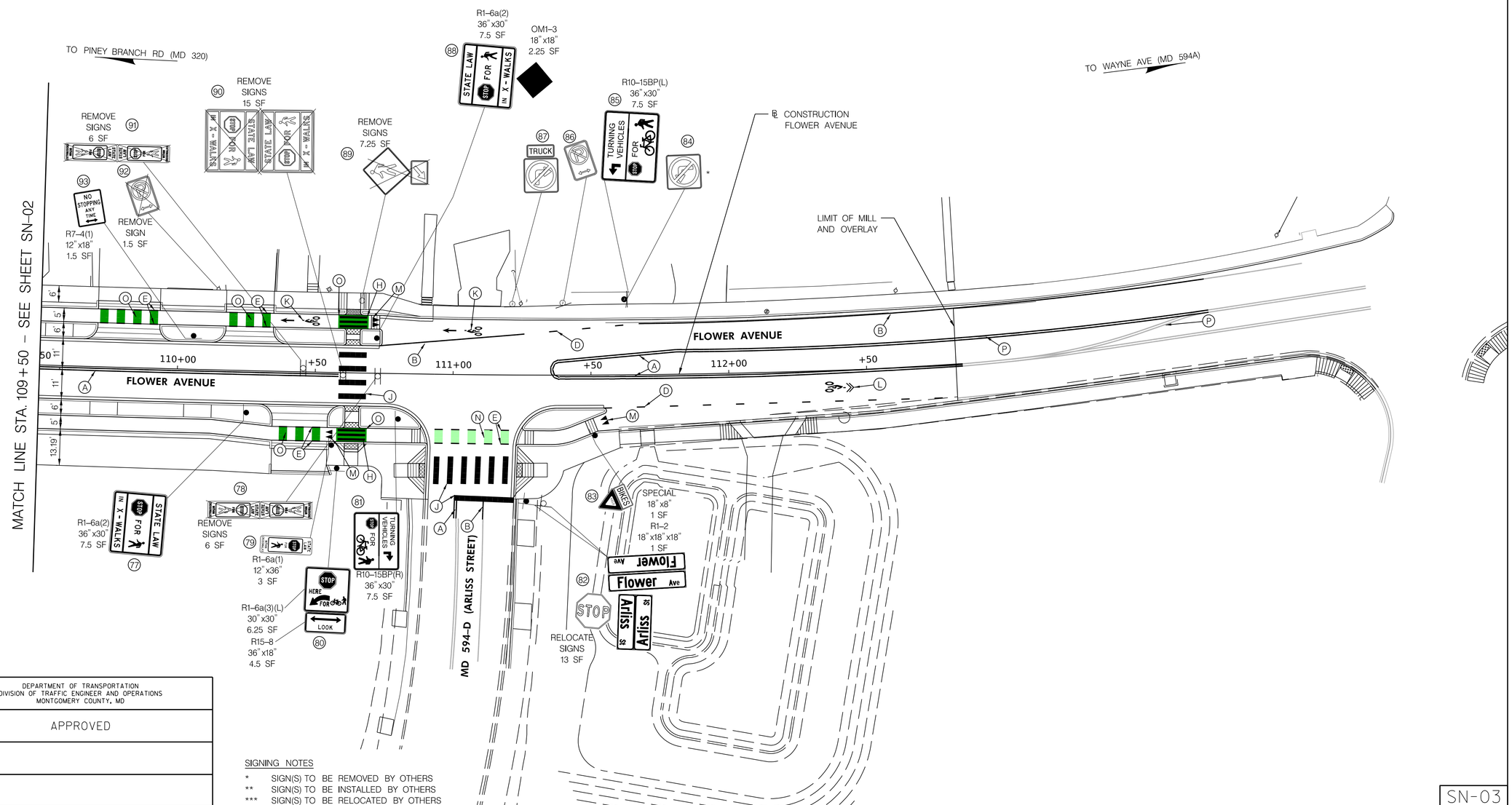

LEGEND

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- PR. SIGN POST
- EX. SIGN TO BE REMOVED

SIGNING NOTES

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SCALE: 1" = 20'

DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD	
APPROVED	
For	
BY	
DATE:	

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
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CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

SN-03

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING PLAN

SCALE: 1"=20'

SHEET 46 of 87

PROFESSIONAL CERTIFICATION:
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PAVEMENT MARKING LEGEND

- (A) INSTALL 5 INCH YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
- (B) INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (SOLID)
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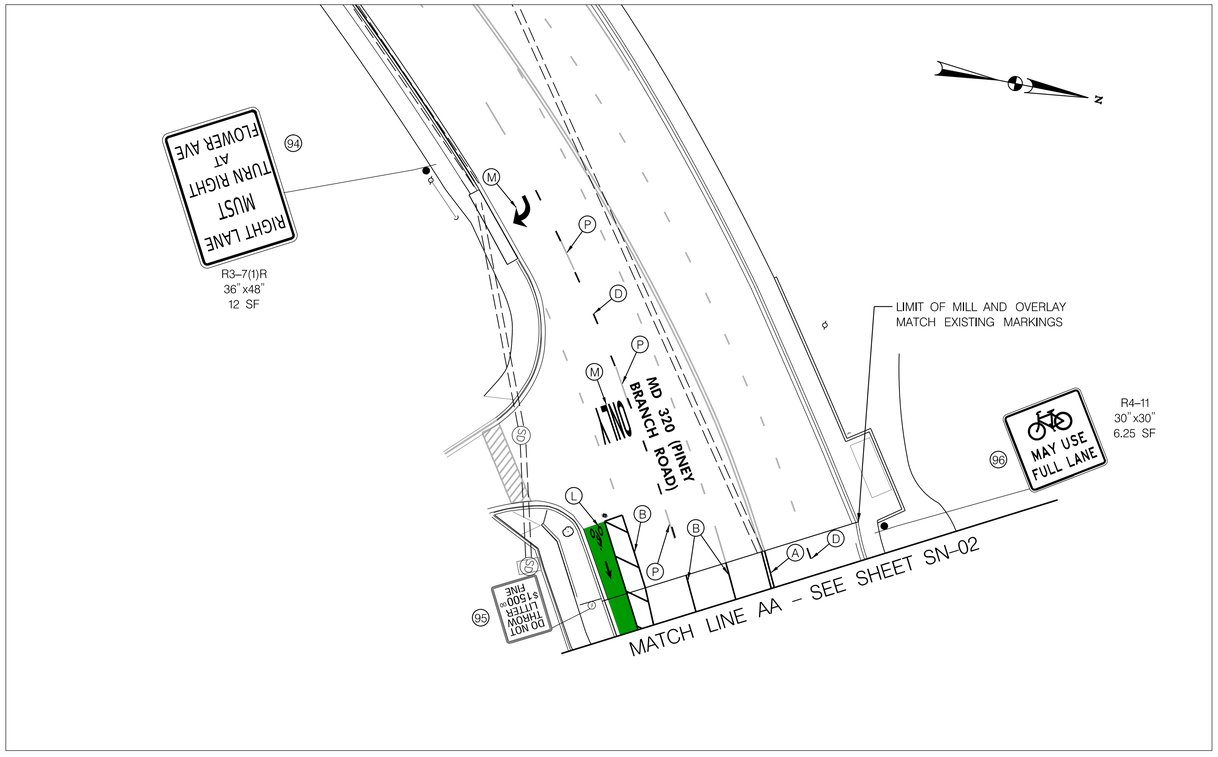

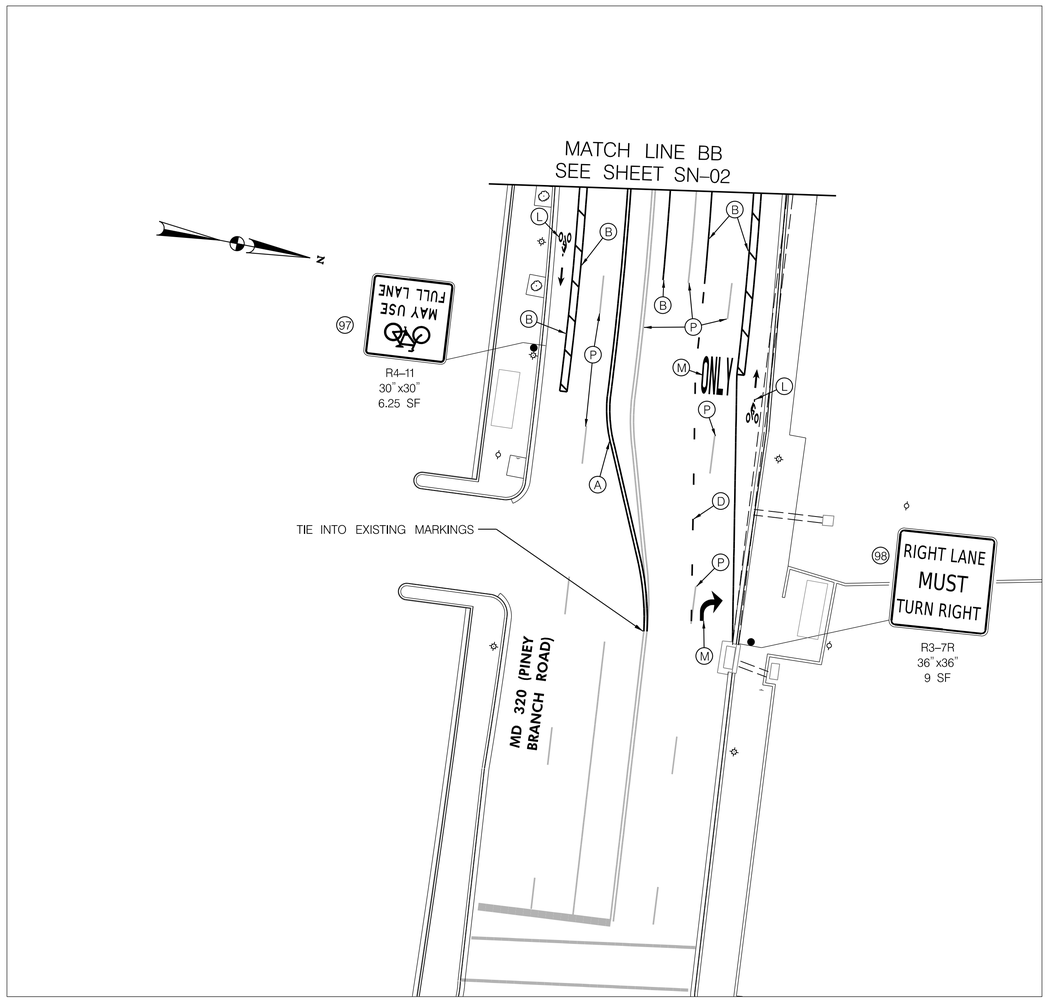

LEGEND

- EX. SIGN POST
- PR. SIGN POST
- EX. SIGN TO BE REMOVED

DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD	
APPROVED	
For	
BY	
DATE:	

SIGNING NOTES

- * SIGN(S) TO BE REMOVED BY OTHERS
- ** SIGN(S) TO BE INSTALLED BY OTHERS
- *** SIGN(S) TO BE RELOCATED BY OTHERS

20' 0 20' 40'
SCALE: 1" = 20'

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BiPPA Bicycle and Pedestrian Priority Areas

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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

SN-04

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING PLAN

SCALE: 1"=20'

SHEET 47 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pSN-P004_FlowerAve.dgn

SIGN NO.	REMARKS	CODE NUMBERS •																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SN-01																				
(1)	RIDE ON BUS RELOCATE BY OTHERS																			
(2)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(3)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(4)	R5-1 1 - PERFORATED TUBULAR STEEL POST	6.25	1	1																
(5)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(6)	SPECIAL, R10-6a 1 - PERFORATED TUBULAR STEEL POST	4	1	1																
(7)	R3-7R 1 - PERFORATED TUBULAR STEEL POST	9	1	1																
(8)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(9)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(10)	R5-1, R6-1R RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		9.25														
(11)	R7-1(1), R7-108 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(12)	R7-8(3) 1 - PERFORATED TUBULAR STEEL POST	2	1	1																
(13)	R7-8(3) 1 - PERFORATED TUBULAR STEEL POST	2	1	1																
(14)	R7-1 REMOVE				1.5															
(15)	R7-8(3), FINE REMOVE				3															
(16)	R7-8(3), EXIT, EXIT REMOVE				3															
(17)	R7-1(1), R7-108 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(18)	R6-1R REMOVE				3															
(19)	R5-1, R1-1, R6-1R, R6-1L 1 - PERFORATED TUBULAR STEEL POST	17.25	1	1																
(20)	R5-1, R1-1, R6-1R, R6-1L REMOVE				17.25															
(21)	R7-1(1), R7-108 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(22)	25MPH SPEED LIMIT RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		5														
(23)	R7-1(1), R7-108 REMOVE				3															
(24)	R1-6a(3)L, R15-8 1 - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(25)	R1-6a(3)L, R15-8 1 - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(26)	R7-1(1), R7-108 RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		3														
(27)	R7-1(1), R7-108 RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		3														
(28)	R7-1(1), R7-108 RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		3														
(29)	R7-1(1), R7-108 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(30)	DISCOVER LONG BRANCH RELOCATE, 1 - PERFORATED TUBULAR STEEL POST		1	1		3														
(31)	R1-6a(3)L, R15-8 1 - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(32)	M3-1, M1-5, M6-1L, M3-3, M1-5, M6-1R 1 - PERFORATED TUBULAR STEEL POST	18.4	1	1																
(33)	M3-2, M1-5, M6-1L, M3-4, M1-5, M6-1R REMOVE				3															
(34)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(35)	SPECIAL, R10-6a 1 - PERFORATED TUBULAR STEEL POST	4	1	1																
(36)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(37)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(38)	R1-6a(1) 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(39)	R3-7R 1 - PERFORATED TUBULAR STEEL POST	9	1	1																
(40)	SPECIAL, R1-2 1 - PERFORATED TUBULAR STEEL POST	2	1	1																
(99)	SPECIAL, R10-6a 1 - PERFORATED TUBULAR STEEL POST	4	1	1																
(100)	SPECIAL, R10-6a 1 - PERFORATED TUBULAR STEEL POST	4	1	1																

• CODE NUMBER DESCRIPTION & UNIT			• CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT	CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	S.F.	9	16" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
2	FURNISH AND INSTALL PERFORATED TUBULAR STEEL SIGN SUPPORTS	EACH	10	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
3	FURNISH AND INSTALL ANCHOR BASES FOR SQUARE TUBULAR STEEL POST	EACH	11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	S.F.
4	REMOVE EXISTING SIGNS	S.F.	12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	S.F.
5	RELOCATE EXISTING SIGNS	S.F.	13	SHARROW PAVEMENT MARKING	S.F.
6	5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	14	REMOVAL OF EXISTING PAVEMENT MARKING LINE, ANY WIDTH	L.F.
7	5" YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	15	GREEN PAVEMENT MARKING; PREFORMED THERMOPLASTIC	S.F.
8	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	16	GREEN PAVEMENT MARKING; EPOXY	S.F.

SN-05

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING SCHEDULE

SCALE: NONE

SHEET 48 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\2026213\16\700 CADD\700 Sheet\pSN-P005_FlowerAve.dgn

SIGN NO.	REMARKS	CODE NUMBERS •																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SN-02																				
(41)	R7-108 I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(42)	R7-108 REMOVE				1.5															
(43)	R7-1(1), R7-108 REMOVE				3															
(44)	R7-1(1), R7-108 I - PERFORATED TUBULAR STEEL POST	3	1	1																
(45)	R1-6a(1), R1-6a(1) REMOVE				6															
(46)	R5-1, R6-1R, R6-1L I - PERFORATED TUBULAR STEEL POST	12.25	1	1																
(47)	R1-6a(2) RELOCATE					7.5														
(48)	R1-6a(1) I - PERFORATED TUBULAR STEEL POST	3	1	1																
(49)	R4-7R, OM1-1 REMOVE				7.25															
(50)	R1-6a(1), R1-6a(1) REMOVE				6															
(51)	RIDE ON BUS RELOCATED BY OTHERS																			
(52)	R7-1(1) REMOVE				1.5															
(53)	R4-7R, OM1-1 REMOVE				1.5															
(54)	R5-1, R6-1R, R6-1L I - PERFORATED TUBULAR STEEL POST	12.25	1	1																
(55)	R1-6a(3)L, R15-8 MOUNT ON EXISTING POST	10.75																		
(56)	R1-1 REMOVE																			
(57)	ADOPT A ROAD, LAW OFC REID M WEINSTEIN LLC EXISTING																			
(58)	R7-4(1) I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(59)	R7-1(1) REMOVE				1.5															
(60)	R7-8(3), R7-8P I - PERFORATED TUBULAR STEEL POST	2.5	1	1																
(61)	R7-8(3) I - PERFORATED TUBULAR STEEL POST	2	1	1																
(62)	R1-6a(3)L, R15-8 I - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(63)	R1-1 REMOVE				5															
(64)	R7-1(1) REMOVE				1.5															
(65)	R7-4(1) I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(66)	R7-4(1) I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(67)	R7-4(1) I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(68)	R1-6a(1) I - PERFORATED TUBULAR STEEL POST	3	1	1																
(69)	R7-1(1), R7-108 REMOVE				1.5															
(70)	R1-6a(2) I - PERFORATED TUBULAR STEEL POST	7.5	1	1																
(71)	Discover Long Branch RELOCATE, I - PERFORATED TUBULAR STEEL POST		1	1		5														
(72)	RIDE ON BUS RELOCATED BY OTHERS																			
(73)	R1-6a(2) REMOVE				7.5															
(74)	R1-6a(3)L, R15-8 I - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(75)	R7-4(1) I - PERFORATED TUBULAR STEEL POST	1.5	1	1																
(76)	R1-6a(3)L, R15-8 I - PERFORATED TUBULAR STEEL POST	10.75	1	1																
SN-03																				
(77)	R1-6a(2) I - PERFORATED TUBULAR STEEL POST	7.5	1	1																
(78)	R1-6a(1), R1-6a(1) REMOVE				6															
(79)	R1-6a(1) I - PERFORATED TUBULAR STEEL POST	3	1	1																
(80)	R1-6a(3)L, R15-8 I - PERFORATED TUBULAR STEEL POST	10.75	1	1																
(81)	R10-15BP(R) I - PERFORATED TUBULAR STEEL POST	7.5	1	1																
(82)	R1-1, FLOWER AVE, FLOWER AVE, ARLISS ST, ARLISS ST RELOCATE		1	1		13														

• CODE NUMBER DESCRIPTION & UNIT			• CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT	CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	S.F.	9	16" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
2	FURNISH AND INSTALL PERFORATED TUBULAR STEEL SIGN SUPPORTS	EACH	10	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
3	FURNISH AND INSTALL ANCHOR BASES FOR SQUARE TUBULAR STEEL POST	EACH	11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	S.F.
4	REMOVE EXISTING SIGNS	S.F.	12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	S.F.
5	RELOCATE EXISTING SIGNS	S.F.	13	SHARROW PAVEMENT MARKING	S.F.
6	5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	14	REMOVAL OF EXISTING PAVEMENT MARKING LINE, ANY WIDTH	L.F.
7	5" YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	15	GREEN PAVEMENT MARKING; PREFORMED THERMOPLASTIC	S.F.
8	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	16	GREEN PAVEMENT MARKING; EPOXY	S.F.

SN-06

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING SCHEDULE

SCALE: NONE

SHEET 49 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pSN-P006_FlowerAve.dgn

SIGN NO.	REMARKS	CODE NUMBERS • 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SN-03																				
(83)	R1-2, SPECIAL 1 - PERFORATED TUBULAR STEEL POST	3	1	1																
(84)	CONSTRUCTION SIGN REMOVE BY OTHERS																			
(85)	R10-15BP(1) 1 - PERFORATED TUBULAR STEEL POST	7.5	1	1																
(86)	R7-1(1) EXISTING																			
(87)	NO RIGHT TURNS, TRUCK EXISTING																			
(88)	R1-6a(2), OM1-3 1 - PERFORATED TUBULAR STEEL POST	9.75	1	1																
(89)	W11-2, W16-7L REMOVE				7.25															
(90)	R1-6a(2), R1-6a(2) REMOVE				15															
(91)	R1-6a(1), R1-6a(1) REMOVE				6															
(92)	R7-1(1) REMOVE				1.5															
(93)	R7-4(1) 1 - PERFORATED TUBULAR STEEL POST	1.5	1	1																
SN-04																				
(94)	R3-7(1)R 1 - PERFORATED TUBULAR STEEL POST	12	1	1																
(95)	DO NOT THROW LITTER $1500 FINE EXISTING																			
(96)	R4-11 1 - PERFORATED TUBULAR STEEL POST	6.25	1	1																
(97)	R4-11 1 - PERFORATED TUBULAR STEEL POST	6.25	1	1																
(98)	R3-7R 1 - PERFORATED TUBULAR STEEL POST	9	1	1																
	TOTAL	338.2	69	69	141	52	3550	3369	484	77	598	271	144	20	765	480	3461			

• CODE NUMBER DESCRIPTION & UNIT			• CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT	CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	S.F.	9	16" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
2	FURNISH AND INSTALL PERFORATED TUBULAR STEEL SIGN SUPPORTS	EACH	10	24" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
3	FURNISH AND INSTALL ANCHOR BASES FOR SQUARE TUBULAR STEEL POST	EACH	11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	S.F.
4	REMOVE EXISTING SIGNS	S.F.	12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	S.F.
5	RELOCATE EXISTING SIGNS	S.F.	13	SHARROW PAVEMENT MARKING	S.F.
6	5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	14	REMOVAL OF EXISTING PAVEMENT MARKING LINE, ANY WIDTH	L.F.
7	5" YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	15	GREEN PAVEMENT MARKING; PREFORMED THERMOPLASTIC	S.F.
8	12" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	L.F.	16	GREEN PAVEMENT MARKING; EPOXY	S.F.

SN-07

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB	DATE: FEBRUARY, 2025
DRAWN BY: JRGB	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING SCHEDULE

SCALE: NONE

SHEET 50 of 87

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

DRILL HOLES

BORDER REV. DATE: NOVEMBER 3, 2017

NOTE: MD 320 IS CONSIDERED TO RUN IN AN NORTH/SOUTH DIRECTION

EXISTING LED SIGNALS TO BE REMOVED

3a,6a-9a, 12a — 1a,2a,4a, 5a,10a,11a — 13a-20a

12" — 12" — 16" COUNTDOWN

EXISTING ACCESSIBLE PUSHBUTTON AND SIGN TO BE REMOVED

21a,23a — 22a,24a — 25a,27a — 26a,28a

EXISTING VIDEO DETECTION ZONES

a1,b1,c1,d1

EXISTING SIGNS TO BE REMOVED

30a,39a Piney Branch RD (8500) — D-3(1) (VAR.x16")

29a,40a Piney Branch RD (8500) — D-3(1) (VAR.x16")

33a,43a Flower AVE (8700) — D-3(1) (VAR.x16")

34a,42a Flower AVE (8700) — D-3(1) (VAR.x16")

35a ONLY — R3-5(L) (30"x36")

32,38,41 NO TURN ON RED — R10-11b (30"x30")

36a TURNING TRAFFIC YIELD TO PEDS — R10-15 (30"x36")

EXISTING DETECTION CAMERAS TO BE REMOVED

a1,b1,c1,d1

EXISTING CCTV CAMERA TO BE RELOCATED

44

RELOCATED CCTV CAMERA

45

PROPOSED LED SIGNALS

3,6,9,12 — 12"

1,2,4,5,7,8,10,11 — 12"

13-20 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

PROPOSED DETECTION CAMERAS

a,b,c,d

PROPOSED VIDEO DETECTION ZONES

a,b,c,d

PROPOSED SIGNS

46 NORTH MARYLAND 320 ← — M1-5(6) (48"x72")

47 NORTH MARYLAND 320 → — M1-5(6) (30"x48")

48 SOUTH MARYLAND 320 ← — M1-5(6) (48"x72")

49 SOUTH MARYLAND 320 → — M1-5(6) (30"x48")

31,37 ONLY — R3-5(L) (30"x36")

50,51,52,53 NO TURN ON RED — R10-11b (30"x30")

30,39 Piney Branch RD (8500) — D-3(1) (120"x16")

29,40 Piney Branch RD (8500) — D-3(1) (120"x16")

33,43 Flower AVE (8700) — D-3(1) (90"x16")

34,42 Flower AVE (8700) — D-3(1) (VAR.x16")

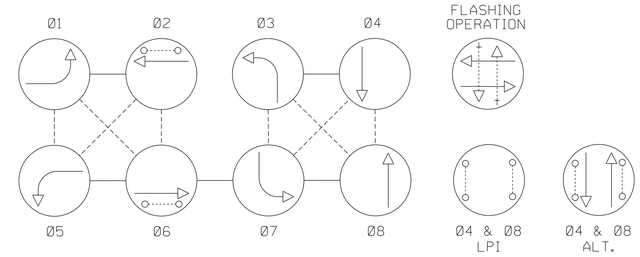
PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

21,23 — 22,24 — 25,27 — 26,28

PUSH BUTTON TO CROSS PINEY BRANCH RD. / FLOWER AVE.
START CROSSING Watch For Turning Vehicles
DON'T START Finish Crossing If Started
TIME REMAINING To Finish Crossing
PEDESTRIANS SHOULD NOT BE IN CROSSWALK
PINEY BRANCH RD. IN BRAILLE TYPE 2 / FLOWER AVE. IN BRAILLE TYPE 2

R10-3(1) 9" x 15"

NEMA PHASING



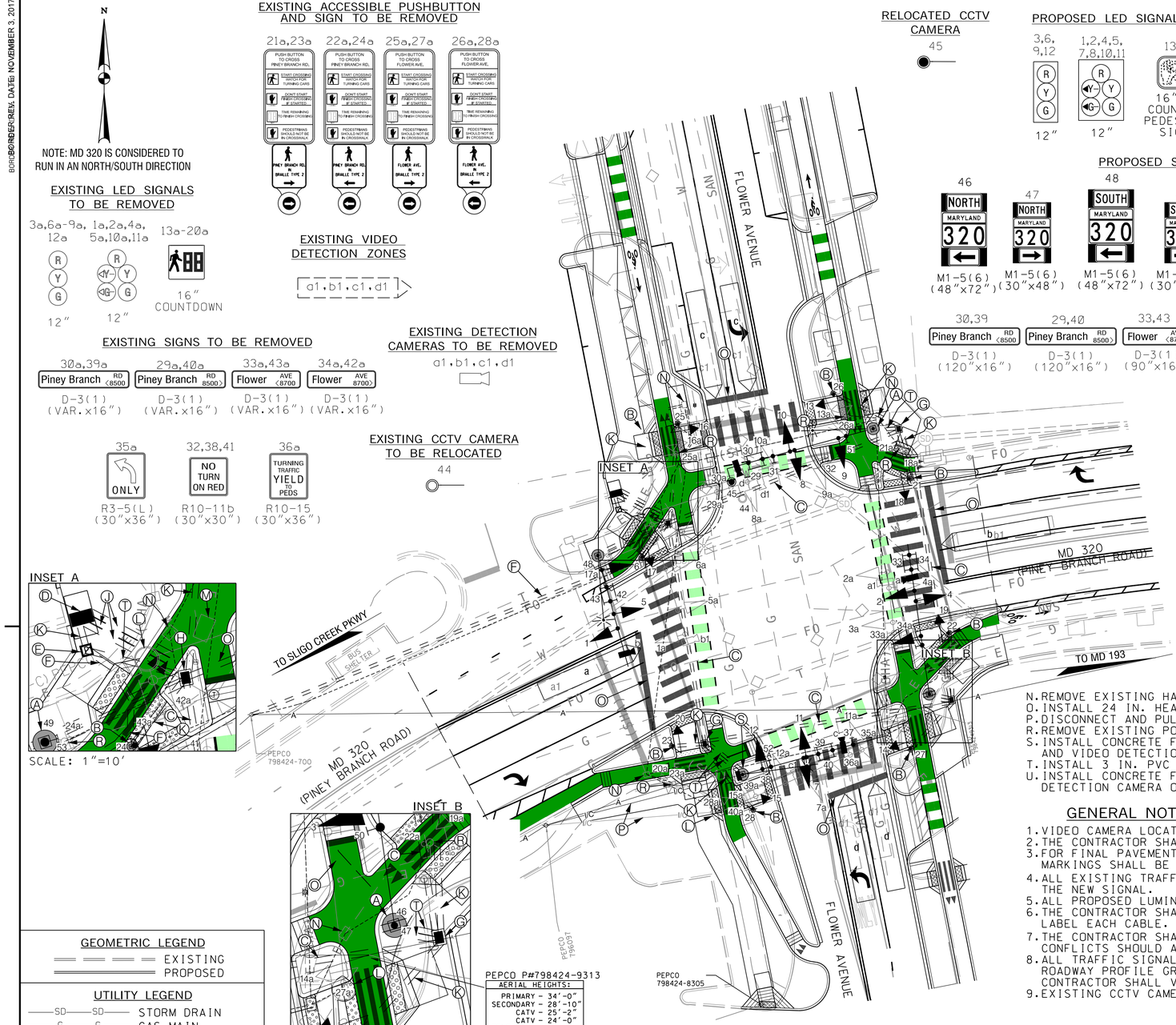
NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA ON A 5FT. EXTENSION RISER. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS.)
B. INSTALL 10' PEDESTAL POLE (MD 818.16-01), WITH BREAKAWAY COUPLINGS MODIFIED BASE (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON AND SIGN.(NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
C. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
D. INSTALL A NEMA SIZE "S" BASE MOUNTED CONTROLLER, CABINET, UPS, AND WITH ALL NECESSARY EQUIPMENT. (NOTE: THREE-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
E. INSTALL EMBEDDED METERED SERVICE PEDESTAL (100 AMPS). (NOTE: INSTALL 3-2 IN. AND 1-4 IN. 90° CONDUIT BENDS).
F. INSTALL 4 IN. PVC SCHEDULE 40 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - BORED. STUB OUT COUNDUIT BEND AT BASE OF UTILITY POLE.
G. INSTALL HANDHOLE.
H. INSTALL OVERSIZED HANDHOLE.
J. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
K. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
L. REMOVE EXISTING POLE, MAST ARM, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
M. REMOVE EXISTING BASE MOUNTED CONTROLLER, CABINET AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
N. REMOVE EXISTING HANDHOLE AND CAP AND ABANDON CONDUIT.
O. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
P. DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE TO UTILITY POLE AND AND REROUTE TO NEW SIGNAL POLE.
R. REMOVE EXISTING POLE, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
S. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, SPLICE CABINET, AND VIDEO DETECTION CAMERA ON A 5FT. EXTENSION RISER. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS.)
T. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
U. INSTALL CONCRETE FOUNDATION WITH A 21 FT. STEEL POLE WITH A 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA ON A 5FT. EXTENSION RISER. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS.)

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPORIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. 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 MD 816.03, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. EXISTING CCTV CAMERA TO BE RELOCATED BY MONTGOMERY COUNTY.



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
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

BY: ukota

PLOTTED: 2/26/2025
FILE: \\US0527-PPFSS01\shared_projects\202621311\6\700 CADD\700 Sheet\pSG-P001_FlowerAve.dgn

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 320 (PINEY BRANCH RD.) AND FLOWER AVE.

TACOMA PARK, MARYLAND

APPROVALS	REVISIONS
TEAM LEADER	B 1/24/2025 RECONSTRUCT TRAFFIC SIGNAL DUE TO NEW BIKE LANES — SHA NO. XXXXXXXXX — TIMS NO: XXXX
ASST. DIV. CHIEF	A 1/4/2010 RECONSTRUCT TRAFFIC SIGNAL WITH APS AND CPS — SHA NO. XX4455185 — TIMS NO: J436 — JWA
DIVISION CHIEF (ORIGINAL ON FILE)	
OFFICE DIRECTOR	

TRAFFIC SIGNAL PLAN

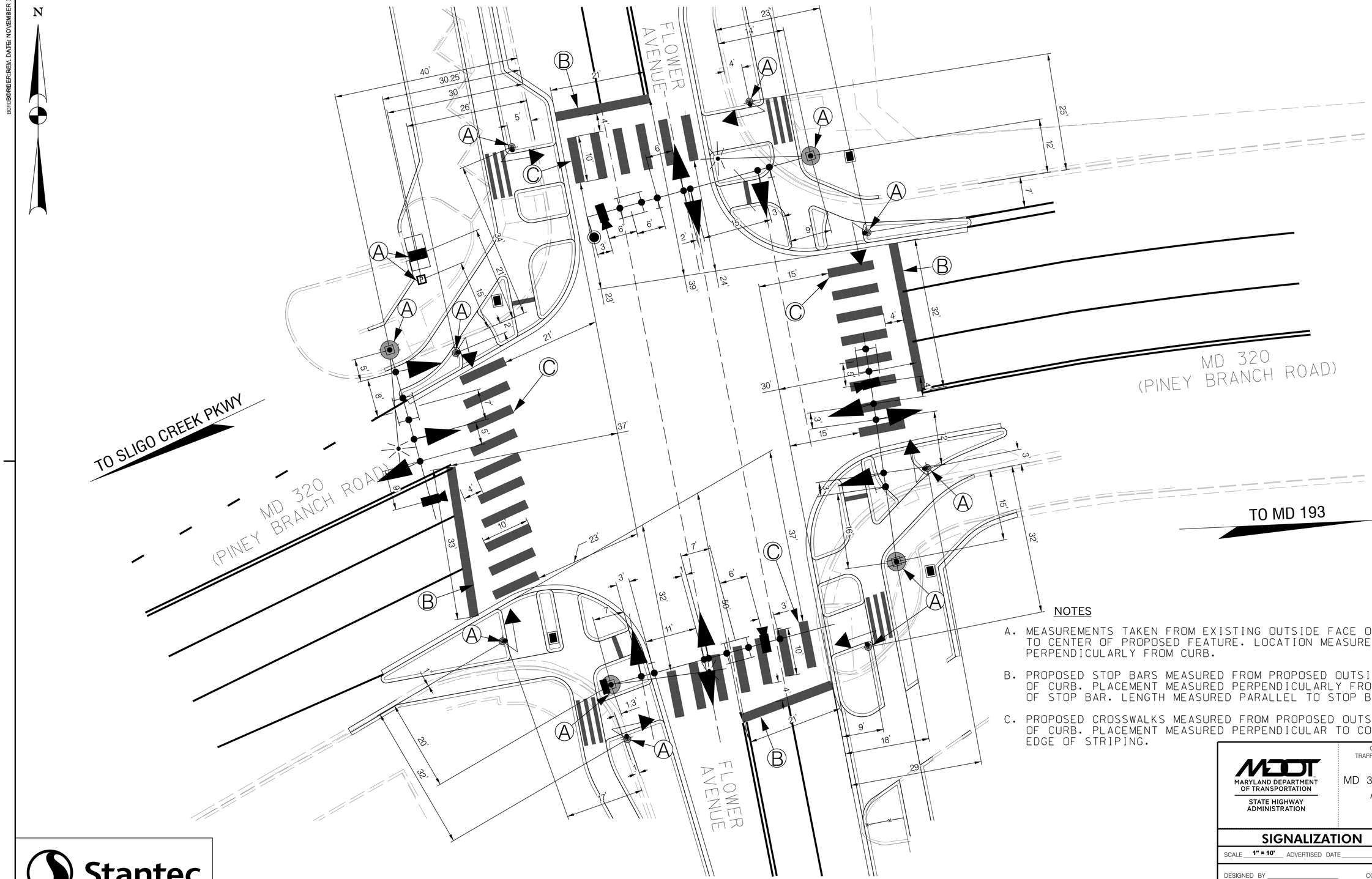
SCALE 1"=20' ADVERTISED DATE 7.99 CONTRACT NO.

DESIGNED BY
DRAWN BY REDRAWN BY JAH
CHECKED BY
MDE/PRD

COUNTY MONTGOMERY
LOGMILE 15032001.63
TIMS NO.
TOD NO.

TS NO. 2684B | DRAWING SG - 01 OF 03 | SHEET NO. 51 OF 87

BORDER REV. DATE: NOVEMBER 3, 2017



NOTES

A. MEASUREMENTS TAKEN FROM EXISTING OUTSIDE FACE OF CURB TO CENTER OF PROPOSED FEATURE. LOCATION MEASURED PERPENDICULARLY FROM CURB.

B. PROPOSED STOP BARS MEASURED FROM PROPOSED OUTSIDE FACE OF CURB. PLACEMENT MEASURED PERPENDICULARLY FROM CENTER OF STOP BAR. LENGTH MEASURED PARALLEL TO STOP BAR.

C. PROPOSED CROSSWALKS MEASURED FROM PROPOSED OUTSIDE FACE OF CURB. PLACEMENT MEASURED PERPENDICULAR TO CORRESPONDING EDGE OF STRIPING.

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BY: ukota –

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 320 (PINEY BRANCH RD.) AND FLOWER AVE.

TACOMA PARK, MARYLAND

SIGNALIZATION DETAIL SHEET

SCALE 1" = 10' ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY JM LOGMILE 15032001.63
CHECKED BY RJM TIMS NO. _____
MDE/PRD _____ TOD NO. _____

TS NO. 2684B	DRAWING SG – 02 OF 03	SHEET NO. 52 OF 87

PLOTTED: 2/26/2025
FILE: \\US0527-PPFSS01\shared_projects\202621311 6\700 CADD\700 Sheet\pSG-D001_FlowerAve.dgn

BORDER/REV. DATE: NOVEMBER 3, 2017

DRILL HOLES

DRILL HOLES

DRILL HOLES

BY: ukota –

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL WITH INTERCONNECT, STREET LIGHTING AND A TRAFFIC SURVEILLANCE CAMERA AT THE INTERSECTION OF MD 320 (PINEY BRANCH RD) AND FLOWER AVE IN MONTGOMERY COUNTY. A NEW MAST ARM TRAFFIC SIGNAL WITH INTERCONNECT, STREET LIGHTING, TRAFFIC SURVEILLANCE CAMERA AND COUNTDOWN PEDESTRIAN SIGNALS WITH AUDIBLE PUSHBUTTONS SHALL BE INSTALLED AT THIS LOCATION. MD 320 (PINEY BRANCH RD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION SHALL OPERATE IN A NEMA EIGHT-PHASE, SEMI-ACTUATED MODE, WITH THE MD 320 (PINEY BRANCH RD) APPROACHES RUNNING CONCURRENTLY. THE EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR BOTH APPROACHES OF MD 320 (PINEY BRANCH RD) SHALL REMAIN IN OPERATION. ALTERNATE LEADING PEDESTRIAN INTERVAL PHASING IS PROVIDED ACROSS THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE PEDESTRIAN PHASES ACROSS FLOWER AVE SHALL BE ON RECALL. THE FLOWER AVE APPROACHES SHALL HAVE EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR BOTH APPROACHES.

2. A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE AND ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "S" BASE-MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION.

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

III. SPECIAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.

2. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAI HAMUD AT (240) 777-8761 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.

3. 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.

4. CONTACT MR. MIKE KINNEY AT (240) 777-8760 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK FOR WIRING RELOCATING OF TRAFFIC SURVEILLANCE CAMERA EQUIPMENT INCLUDING POLE MOUNT CAMERA CABINET.

5. APS WILL FUNCTION AS FOLLOWS:

TO CROSS PINEY BRANCH ROAD

A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS PINEY BRANCH AT FLOWER, CROSSWALK ANGLES LEFT."
B. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

TO CROSS FLOWER AVENUE

A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS FLOWER AT PINEY BRANCH."
B. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT 3

MS. QIANYU HU
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7317

MR. MARK LOEFFLER
DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. JOHN GOVER
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. GREGORY EDWARDS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MONTGOMERY COUNTY

MR. KAMAL HAMUD
MONTGOMERY COUNTY-TRAFFIC ENGINEERING
PHONE NUMBER 240-777-8761

OOTS CONTACTS:

MS. REBECCA LICHTENSTEIN, P.E.
CHIEF TRAFFIC OPERATION DIVISION
PHONE: (410)-787-7630

MR. ANTOINE YATES
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410)-787-7625

MR. MIKE BASSO
CHIEF, SIGNAL OPERATIONS
PHONE: (410)-787-7652

MR. MICHAEL BOYLE
CHIEF, WAREHOUSE SECTION
PHONE: (410)-787-7668

MR. DAVID "TODD" JONES
SIGN SHOP MANAGER
410-787-7676

PEPCO

[CONTACT NAME]
PHONE 202-833-7500

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			

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

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
549419	117	LF	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING STOP LINE
801004	22.1	CY	CONCRETE FOR SIGNAL FOUNDATION
801605	209	SF	SHEET ALUMINUM SIGNS
802501	1066	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802575	205	LF	1 CONDUCTOR #3/0 AWG CABLE
805050	1	EA	WEATHER HEAD, 3 INCH
805121	486	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED OR SLOTTED
805125	200	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	67	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	54	LF	4 INCH SCHEDULE 80 RIGID PVC CONTUIT-TRENCHED
807206	1	EA	UP 200 AMP EMB MT SER PED CON COL/GR ROD
811001	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816003	4	EA	HD IP-BASED VIDEO DETECTION CAMERA AND ANY LENGTH LEAD-IN CABLE
816125	1	EA	POLE MOUNTED SPLICE CABINET
818004	8	EA	10 FOOT BREAKAWAY PEDESTAL POLE
818030	1	EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
818036	3	EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
822002	141	LF	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
822510	120	LF	DISCONNECT, PULL BACK AND REROUTE EXISTING CABLE OR DUCT CABLE
837001	4	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	52	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	8	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
860289	12	EA	SIGNAL HEAD BACK PLATE, ANY SIZE
861105	1175	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1306	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1504	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861117	10	LF	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
865210	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
865300	1	EA	2-WIRE APS CENTRAL CONTROL UNIT, APS PANEL AND HARNESS
866110	3	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED ROADWAY LUMINAIRE
871210	1	EA	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE) WITH FURNISH AND INSTALL FOUNDATION AND GROUND ROD
873002	1	LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPEMENT
971043	1	EA	CABINET EXTENSION BASE, SIZE "S"
971044	1	EA	UPS EQUIPMENT FOR "S" CABINET
971047	1	EA	CONTROLLER CABINET, SIZE "S" WITH CONTROLLER AND HD IP-BASED VIDEO DETECTION COMMUNICATION MANAGER INTERFACE PANEL

MAINTENANCE OF TRAFFIC NOTE

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

STANDARD NO. 104.02-14 (INTERSECTION FLAGGING OPERATION 2-LANE, 2-WAY EQUAL/LESS THAN 40 MPH)

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

STANDARD NO. 104.03-10 (INTER. FAR-LEFT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH)

STANDARD NO. 104.03-12 (INTER. FAR-RIGHT LANE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH)

STANDARD NO. 104.03-14 (INTER. FAR-SIDE CLOSURE/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH)

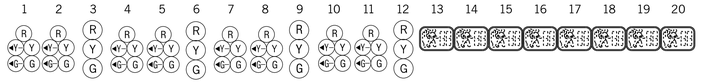
STANDARD NO. 104.04-01 (MULTI-LANE DIVIDED SHOULDER WORK)

STANDARD NO. 104.04-14 (LEFT-TURN BAY CLOSURE/DIVIDED UNCON. GREATER THAN 40 MPH)

STANDARD NO. 104.04-16 (INTER. (LEFT LANE, TURN BAY) CLOSURE/DIVIDED UNCON. GREATER THAN 40 MPH)

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

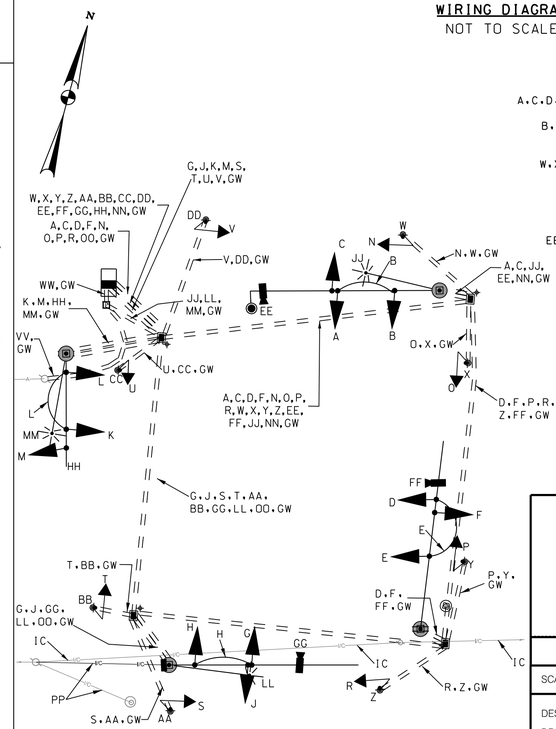
PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	✦G/R	✦G/R	R	✦G/R	✦G/R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
CHANGE TO PHASES 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	✦G/G	✦G/G	G	R	R	R	R	R	R	R	R	R	DW	W/K	W/K	DW	DW	DW	DW	DW
1 AND 6 CHANGE	✦Y/G	✦Y/G	G	R	R	R	R	R	R	R	R	R	DW	W/K	W/K	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	✦G/G	✦G/G	G	R	R	R	R	R	R	W/K	DW	DW	W/K	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	✦Y/G	✦Y/G	G	R	R	R	R	R	R	W/K	DW	DW	W/K	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	W/K	W/K	W/K	W/K	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	R	R	R	R	R	✦G-	✦G-	R	✦G-	✦G-	R	DW	DW	DW	DW	DW	DW	DW	DW	DW
CHANGE TO PHASES 3 AND 8, 4 AND 7, OR 4 AND 8																				
PHASE 3 AND 8	R	R	R	R	R	✦G/G	✦G/G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	✦Y/G	✦Y/G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	R	R	✦G/G	✦G/G	G	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 7 CHANGE	R	R	R	R	R	R	R	R	✦Y/G	✦Y/G	G	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 LPI	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	W/K	W/K	W/K	W/K
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W/K	W/K	W/K	W/K
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	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



WIRING KEY

A,C,D,F,G,J,K,M – ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

B,E,H,L,N,O,P, R,S,T,U,V – ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

W,X,Y,Z,AA, BB,CC,DD – ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

JJ,LL,MM – 3 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE

EE,FF,GG,HH – VIDEO DETECTION CONTROL CABLE

GW – NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

VV – 1 CONDUCTOR #3/0 AWG CABLE

WW – 3 WIRE #4 AWG

OO – 12-PAIR VOICE GRADE INTERCONNECT CABLE

PP – EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (TO BE REROUTED)

IC – EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE

✦ – NEW GROUND ROD

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 320 (PINEY BRANCH RD.) AND FLOWER AVE.

TACOMA PARK, MARYLAND

GENERAL INFORMATION SHEET

SCALE NTS ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY JM LOGMILE 15032001.63
CHECKED BY RJM TIMS NO. _____
MDE/PRD _____ TOD NO. _____

TS NO. 2684B | DRAWING SG-03 OF 03 | SHEET NO. 53 OF 87

PLOTTED: 2/26/2025
FILE: \\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pSG-N001_FlowerAve.dgn

N

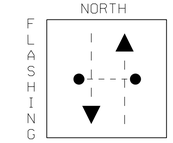
NOTE: FLOWER AVENUE IS CONSIDERED TO RUN IN AN NORTH/SOUTH DIRECTION

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
801004	1.4	CY	CONCRETE FOR SIGNAL FOUNDATION
801605	44	SF	SHEET ALUMINUM SIGNS
802501	119	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802575	53	LF	1 CONDUCTOR #3/0 AWG CABLE
805105	32	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805125	77	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807206	1	EA	UP TO 200 AMP EMBEDDED METERED SERVICE PEDESTAL, CONCRETE COLLAR & GROUND RODS
811001	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816125	1	EA	POLE MOUNTED SPLICE CABINET
818010	2	EA	14 FOOT BREAKAWAY PEDESTAL POLE
837001	2	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	4	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860289	4	EA	SIGNAL HEAD BACK PLATE, ANY SIZE
861105	69	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861106	143	LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
861117	65	LF	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
865210	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
971016	1	EA	EIGHT PHASE (FULLY ACTUATED CONTROLLER AND CABINET POLE MOUNT

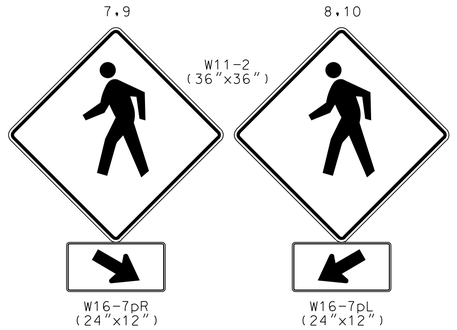
PHASING



WIRING KEY

A,B,C,D -	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
E,F -	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
GW -	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
G -	1 CONDUCTOR #3/0 AWG CABLE
H -	3 WIRE #4 AWG
✦ -	NEW GROUND ROD

PROPOSED SIGNS



PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

5.6

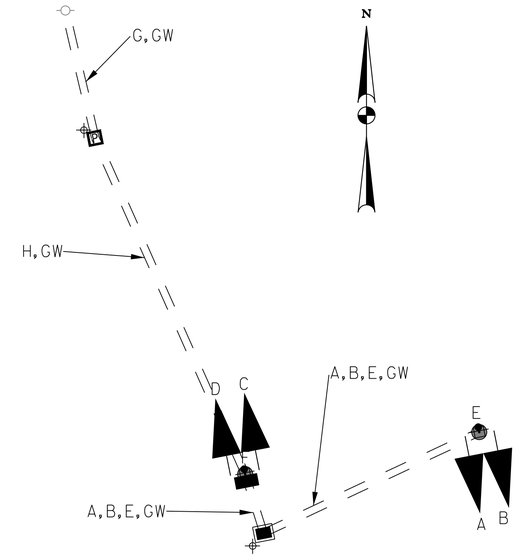
R10-25
9" x 12"

PROPOSED LED SIGNALS

1.2.3.4

Y

12"



SCALE: NTS

CONSTRUCTION DETAILS

A. INSTALL 14' PEDESTAL POLE (MD 818.17), WITH BREAKAWAY TRANSFORMER BASE (MD 821.01), SIGNAL HEADS, SPLICE CABINET, PUSHBUTTON, AND SIGNS.(NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
B. INSTALL 14' PEDESTAL POLE (MD 818.17), WITH BREAKAWAY TRANSFORMER BASE (MD 821.01), SIGNAL HEADS, PUSHBUTTON, AND SIGNS. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
C. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
D. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
E. INSTALL EMBEDDED METERED SERVICE PEDESTAL (100 AMPS). (NOTE: INSTALL 2-2 IN. 90° CONDUIT BENDS)
F. INSTALL HANDHOLE.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPORIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
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 MD 816.03, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

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

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: _____

Stantec
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

NO.	REVISION	BY	DATE	APP'D	DATE

DESIGNED BY:	RJM	DATE: JAN., 2025	
DRAWN BY:	JM	DATE: JAN., 2025	
CHECKED BY:	RJM3	DATE: JAN., 2025	
DRAWING NO.:			

Approved: _____
Division of Traffic Engineering and Operations

Reviewed: _____
Manager, Transportation Systems Engineering

Reviewed: _____
Manager, Traffic Engineering Studies Section

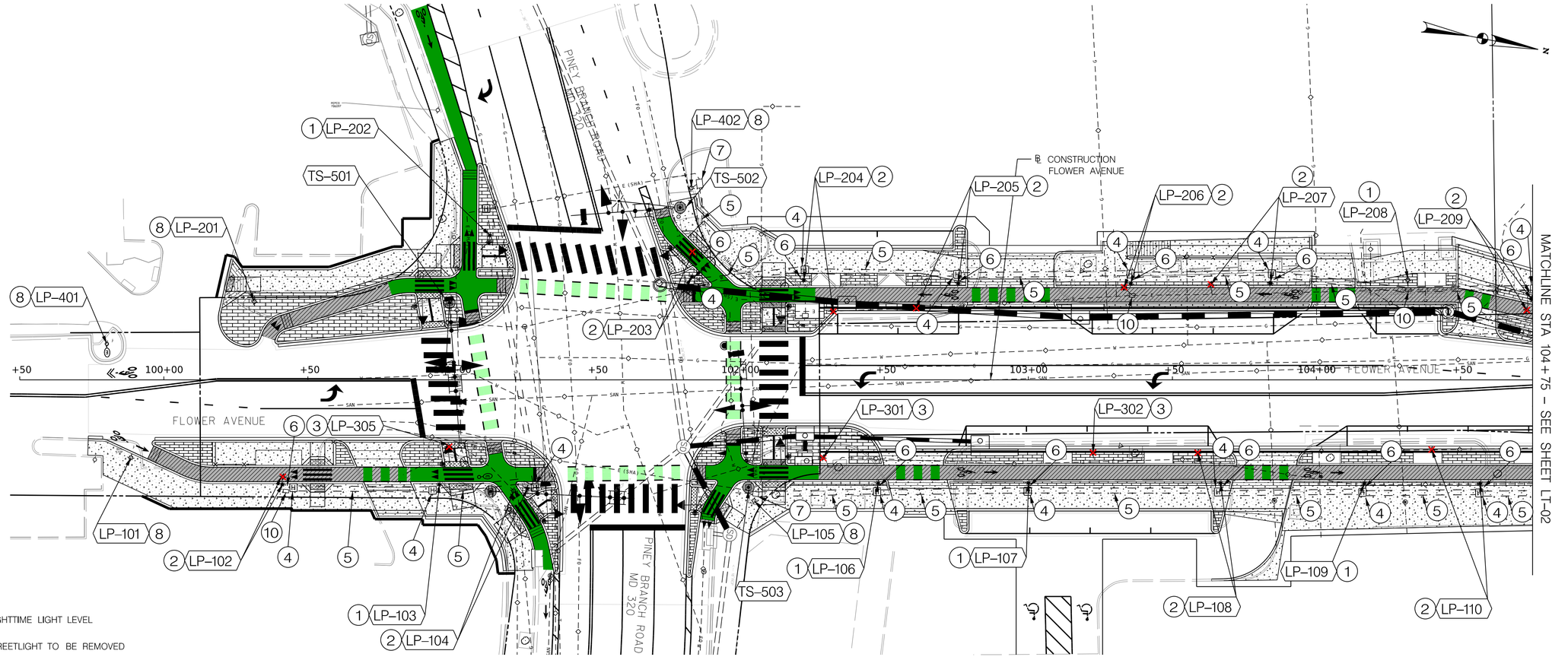
Recommended: _____
Engineer, Transportation Systems Engineering

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING & OPERATIONS
MONTGOMERY COUNTY, MARYLAND

TRAFFIC SIGNAL PLAN

FLOWER AVENUE

SCALE: 1"=10'



LEGEND

- $^{+}0.0$ EXISTING NIGHTTIME LIGHT LEVEL
- EXISTING STREETLIGHT TO BE REMOVED
- EXISTING STREETLIGHT TO REMAIN
- PROPOSED STREETLIGHT
- EXISTING LUMINAIRE TO REMAIN
- PROPOSED 100W LED LUMINAIRE
- PROPOSED SPLICE BOX
- PROPOSED MAST–ARM MOUNTED LIGHT

CONSTRUCTION DETAILS

1. FURNISH AND INSTALL CONCRETE FOUNDATION, GROUND ROD, AND 13–FOOT DECORATIVE BETHESDA CAST STREETLIGHT POST WITH BREAK–AWAY COUPLINGS, AND 150 WATT LED DECORATIVE WASHINGTON GLOBE STYLE LUMINAIRE. (SEE DETAILS ON LT–02).
2. FURNISH AND INSTALL CONCRETE FOUNDATION, SALVAGE EXISTING RECTINLINEAR LIGHTING STRUCTURE AND INSTALL ONTO NEW FOUNDATION, AS SHOWN (SEE DETAIL ON LT–02).
3. REMOVE EXISTING LIGHT POLE, LUMINAIRE AND FOUNDATION 12" BELOW GRADE.
4. FURNISH AND INSTALL (13 IN. X 24 IN. X 24 IN.) POLYMER CONCRETE SPLICE BOX. (SEE DETAIL ON LT–02).
5. FURNISH AND INSTALL (2–WAY) 4 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT – TRENCHED.
6. FURNISH AND INSTALL 2 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT – TRENCHED.
7. USE EXISTING STREETLIGHT SPLICE BOX.
8. EXISTING LIGHTING STRUCTURE AND LUMINAIRE TO REMAIN.
9. PEPCO TO REPLACE EXISTING LUMINAIRE.
10. REMOVE EXISTING SPLICE BOX AND CAP AND ABANDON CONDUITS.

20' 0 20' 40'
SCALE: 1"=20'

LT-01

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: RJM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LIGHTING PLAN

SHEET 55 of 87

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
\\US0527-PPFSS01\shared_projects\20262131116\700 CADD\700 Sheet\pLT-P001_FlowerAve.dgn

CONSTRUCTION DETAILS

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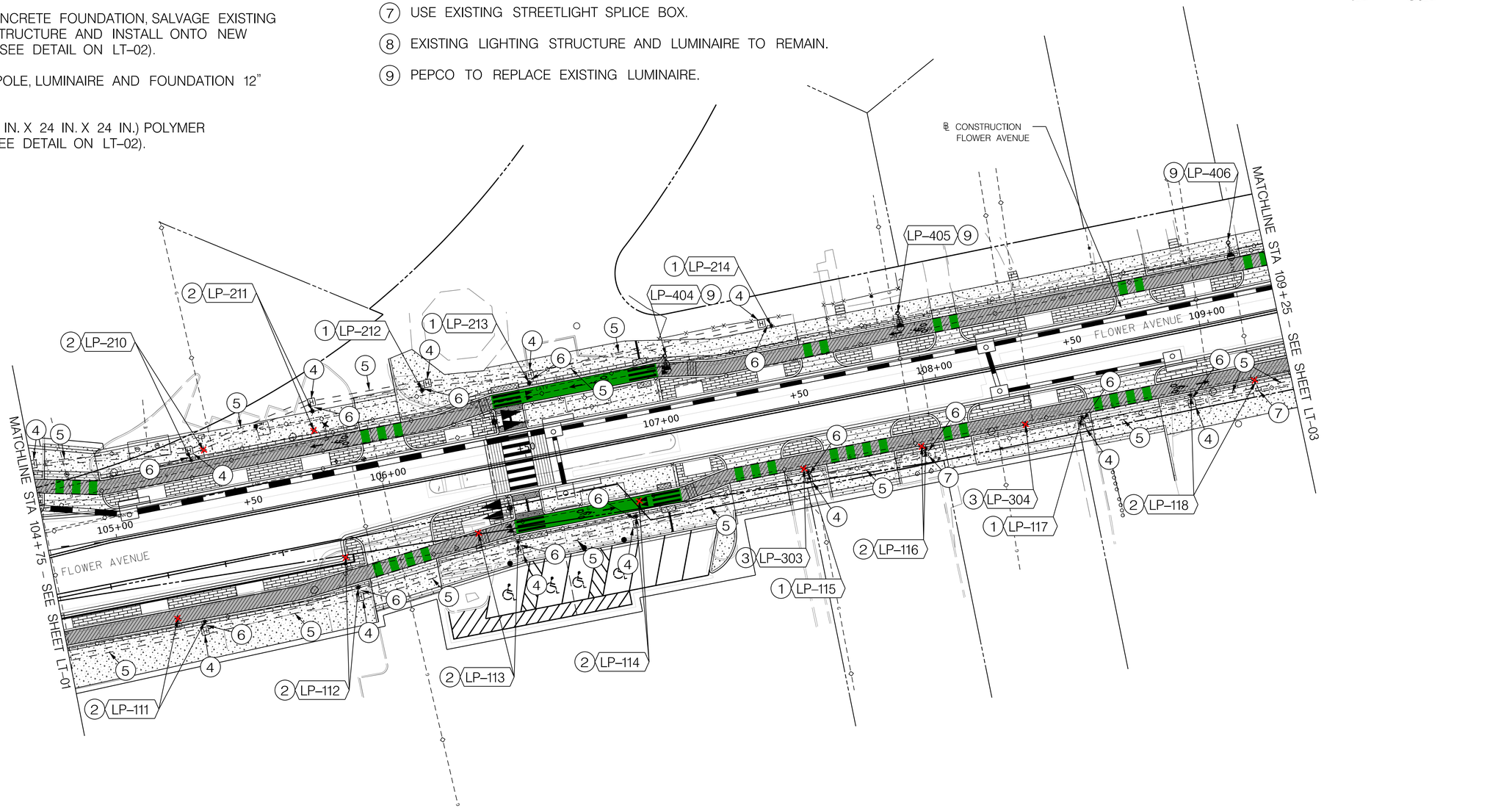

LEGEND

- +0.0 EXISTING NIGHTTIME LIGHT LEVEL
- EXISTING STREETLIGHT TO BE REMOVED
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- PROPOSED STREETLIGHT
- EXISTING LUMINAIRE TO REMAIN
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- PROPOSED MAST–ARM MOUNTED LIGHT

20' 0 20' 40'
SCALE: 1"=20'

LT-02

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: RJM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LIGHTING PLAN

SHEET 56 of 87

PROFESSIONAL CERTIFICATION:
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2/26/2025
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CONSTRUCTION DETAILS

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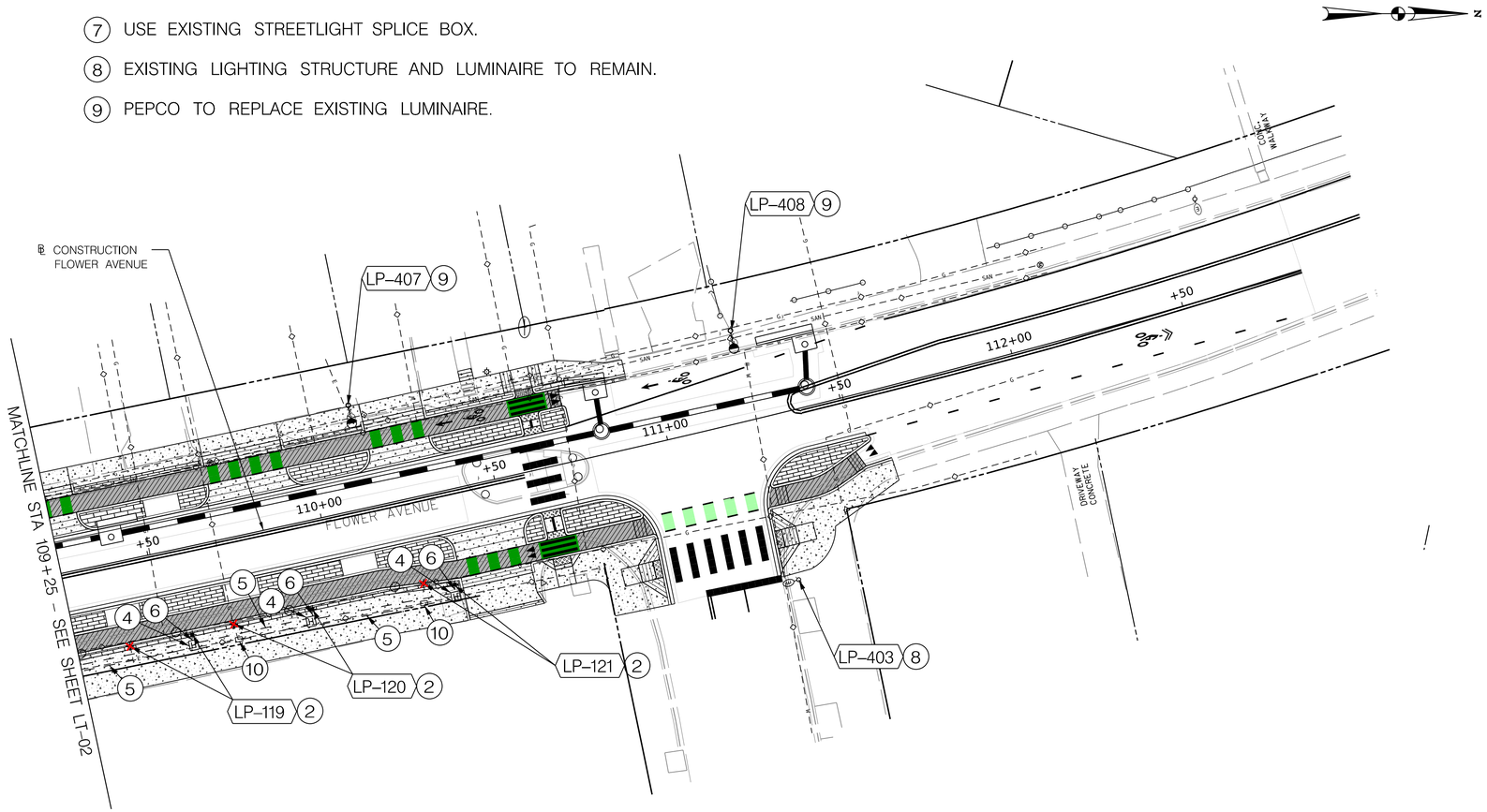

LEGEND

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- EXISTING STREETLIGHT TO BE REMOVED
- EXISTING STREETLIGHT TO REMAIN
- PROPOSED STREETLIGHT
- EXISTING LUMINAIRE TO REMAIN
- PROPOSED 100W LED LUMINAIRE
- PROPOSED SPLICE BOX
- PROPOSED MAST–ARM MOUNTED LIGHT

20' 0 20' 40'
SCALE: 1"=20'

LT-03

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: RJM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: RJM	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LIGHTING PLAN

SHEET 57 of 87

2/26/2025
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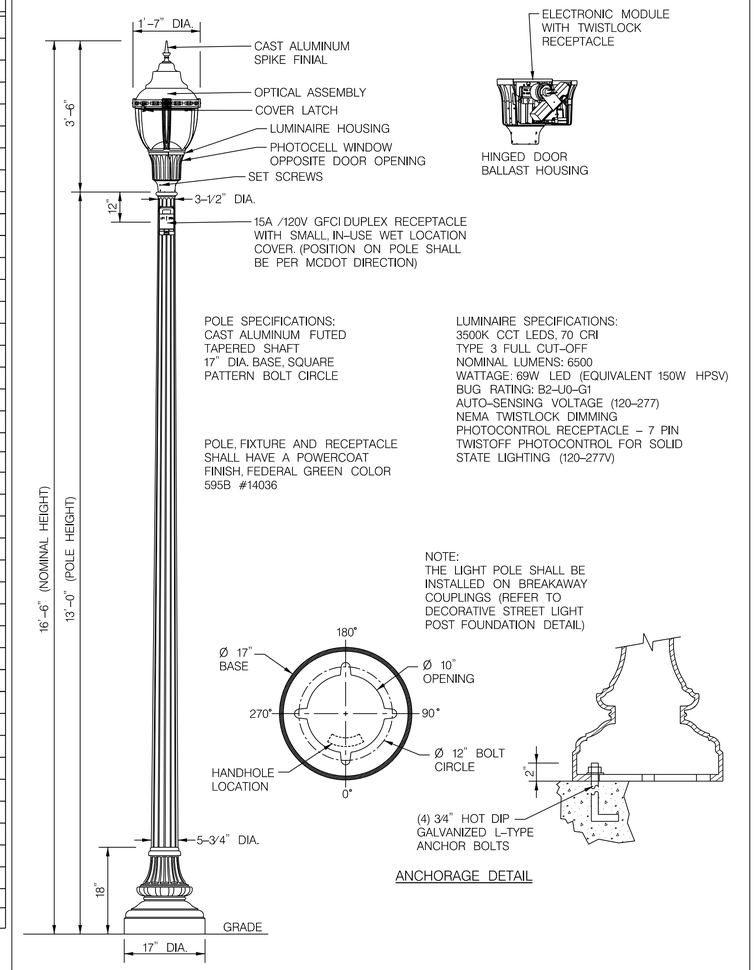
EXISTING STREETLIGHT POLE INFORMATION

LIGHT NO.	LOCATION STATION	LOCATION OFFSET		POLE TYPE	LIGHT SOURCE	LAMP WATTS	FIXTURE TYPE	POLE CONDITION	PROPOSED ACTION
LP–101	99+88.56	27.03	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	POLE AND FIXTURE TO REMAIN
LP–102	100+41.29	33.67	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–104	101+21.38	38.53	RT	13CA	LED	70 TWIN	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–105	102+04.86	41.99	RT	13CA	LED	70 TWIN	WASHINGTON GLOBE	GOOD	POLE AND FIXTURE TO REMAIN
LP–108	103+08.80	25.31	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–110	110+39.96	24.22	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–111	105+15.99	32.85	RT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–112	105+79.38	22.83	RT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–113	106+27.93	23.39	RT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–114	106+86.92	23.16	RT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–116	107+90.33	23.25	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–118	109+12.33	23.56	RT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–119	109+39.78	24.07	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–120	109+69.57	24.04	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–121	110+24.12	24.28	RT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–201	101+31.36	27.20	LT	13CA	LED	70 TWIN	WASHINGTON GLOBE	GOOD	POLE AND FIXTURE TO REMAIN
LP–203	101+83.42	44.44	LT	13CA	LED	70 TWIN	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–204	102+32.27	23.80	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–205	102+61.07	24.95	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–206	103+32.27	32.14	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–207	103+63.38	33.16	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–208	104+31.66	34.68	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	POLE AND FIXTURE TO REMAIN
LP–209	104+72.95	24.23	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–210	105+36.68	24.84	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–211	105+76.93	24.84	LT	13CA	LED	70	WASHINGTON GLOBE	GOOD	RELOCATE POLE AND FIXTURE
LP–301	102+28.82	27.02	RT	ALUMINUM	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO BE REMOVED
LP–302	103+22.45	25.22	RT	ALUMINUM	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO BE REMOVED
LP–303	107+47.19	23.07	RT	ALUMINUM	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO BE REMOVED
LP–304	108+28.45	22.73	RT	ALUMINUM	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO BE REMOVED
LP–305	100+98.96	23.38	RT	ALUMINUM	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO BE REMOVED
LP–401	99+80.23	12.48	LT	WOOD	LED	100	COBRAHEAD	GOOD	POLE AND FIXTURE TO REMAIN
LP–402	101+83.03	66.64	LT	ALUMINUM	HPS	250	COBRAHEAD	GOOD	POLE AND FIXTURE TO REMAIN
LP–403	111+26.66	46.86	RT	WOOD	HPS	250	COBRAHEAD	GOOD	POLE AND FIXTURE TO REMAIN
LP–404	107+05.84	26.28	LT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–405	107+91.00	24.80	LT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–406	109+12.75	26.52	LT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–407	110+14.22	28.62	LT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN
LP–408	111+24.45	25.92	LT	WOOD	HPS	250	COBRAHEAD	GOOD	REPLACE FIXTURE; POLE TO REMAIN

LIGHT NO.	LOCATION STATION	LOCATION OFFSET		POLE TYPE	LIGHT SOURCE	LAMP WATTS	FIXTURE TYPE	PROPOSED ACTION
LP–102	100+41.29	33.67	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–103	100+95.64	36.38	RT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–104	101+21.38	38.53	RT	13CA	LED	70 TWIN	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–106	102+47.88	35.91	RT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–107	103+00.06	35.83	RT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–108	103+66.71	35.92	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–109	104+16.61	35.96	RT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–110	104+56.85	36.02	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–111	105+25.28	35.86	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–112	105+81.78	34.28	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–113	106+41.35	29.22	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–114	106+84.72	28.28	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–115	107+48.41	24.43	RT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–116	107+91.59	24.33	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–117	108+48.96	24.07	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–118	108+88.78	24.18	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–119	109+39.78	24.07	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–120	109+69.57	24.04	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–121	110+24.12	24.28	RT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–202	101+13.18	50.14	LT	13CA	LED	70 TWIN	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–203	101+83.28	35.80	LT	13CA	LED	70 TWIN	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–204	102+22.11	34.66	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–205	102+75.72	33.51	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–206	103+35.56	33.43	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–207	103+84.03	33.60	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–209	104+74.60	28.13	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–210	105+31.59	22.10	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–211	105+77.76	31.04	LT	13CA	LED	70	WASHINGTON GLOBE	RELOCATE POLE AND FIXTURE
LP–212	106+17.92	30.95	LT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–213	106+56.20	26.09	LT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–214	107+45.60	29.58	LT	13CA	LED	70	WASHINGTON GLOBE	NEW POLE AND FIXTURE
LP–404	107+05.84	26.28	LT	WOOD	LED	100	COBRAHEAD	REPLACE FIXTURE; POLE TO REMAIN
LP–405	107+91.00	24.80	LT	WOOD	LED	100	COBRAHEAD	REPLACE FIXTURE; POLE TO REMAIN
LP–406	109+12.75	26.52	LT	WOOD	LED	100	COBRAHEAD	REPLACE FIXTURE; POLE TO REMAIN
LP–407	110+14.22	28.62	LT	WOOD	LED	100	COBRAHEAD	REPLACE FIXTURE; POLE TO REMAIN
LP–408	111+24.45	25.92	LT	WOOD	LED	100	COBRAHEAD	REPLACE FIXTURE; POLE TO REMAIN



POLE SPECIFICATIONS:
CAST ALUMINUM FUTED
TAPERED SHAFT
17" DIA. BASE, SQUARE
PATTERN BOLT CIRCLE

POLE, FIXTURE AND RECEPTACLE SHALL HAVE A POWERCOAT FINISH, FEDERAL GREEN COLOR 595B #14036

LUMINAIRE SPECIFICATIONS:
3500K CCT LEDS, 70 CRI
TYPE 3 FULL CUT–OFF
NOMINAL LUMENS: 6500
WATTAGE: 69W LED (EQUIVALENT 150W HPSV)
BUG RATING: B2–U0–G1
AUTO–SENSING VOLTAGE (120–277)
NEMA TWISTLOCK DIMMING
PHOTOCONTROL RECEPTACLE – 7 PIN TWISTOFF PHOTOCONTROL FOR SOLID STATE LIGHTING (120–277V)

NOTE:
THE LIGHT POLE SHALL BE INSTALLED ON BREAKAWAY COUPLINGS (REFER TO DECORATIVE STREET LIGHT POST FOUNDATION DETAIL)

ANCHORAGE DETAIL

PROPOSED DECORATIVE STREET LIGHT POST AND LUMINAIRE

LT-04

PROFESSIONAL CERTIFICATION:
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www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

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DESIGNED BY: RJM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES LIGHTING PLAN

SHEET 58 of 87

2/26/2025
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pLT-S001_FlowerAve.dgn

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. STANDARDS

All work along Piney Branch Road shall be conducted in accordance with the latest versions of the Maryland State Highway Administrations (MD SHA) Standard Specifications and Book of Standards for Highway and Incidental Structures. All work along Flower Avenue shall be conducted in accordance with the latest version of the Montgomery County Temporary Traffic Control Plan standardsl. All signs, channelizing devices, and other traffic control devices shall conform with the latest version of the Maryland Manual on Uniform Traffic Control Devices (MUTCD).

2. PRE-CONSTRUCTION

The contractor shall arrange and host a pre-construction meeting at least two weeks prior to starting construction and establishing the work zone. The following offices shall be notified of this pre-construction meeting:

- Montgomery County Division of Transportation Engineering at 240-777-7220
- Montgomery County Division of Traffic Engineering and Operations at 240-777-6000
- 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 at 240-777-6300
- WMATA, Jamie Cepler at 202-962-6085

Maryland State Highway Administration (SHA) Offices:

- Qianyo Hu
  Assistant District Engineer - Traffic (Montgomery County)
  qhu@sha.state.md.us, (301) 513-3717
- Gregory Edwards
  Assistant District Engineer - Maintenance
  gedwards@sha.state.md.us, (301) 513-7304
- John Gover
  Assistant District Engineer - Construction
  jgover@sha.state.md.us, (301) 513-7336
- Mark Loeffler
  Assistant District Engineer - Utilities
  mloeffler@sha.state.md.us, (301) 513-7350

Contact the MCDOT Transportation Management Center at 240-777-2100 between 5:00 AM and 11:00 PM to inform them of temporary lane closures in the vicinity of any traffic signals.

The permittee shall contact the Transportation Systems Engineering Team at 240-777-2100 at least two weeks in advance to coordinate any minor traffic signal work. Major traffic signal work shall be coordinated a minimum of thirty (30) days in advance of the project. The permittee shall contact the Montgomery County Transportation Management Center at 240-777-2100 a minimum of 72 hours prior to beginning work to have existing traffic signal equipment marked.

The permittee shall contact the Traffic Engineering Design & Operations Section (TEDO) at 240-777-6000 at least ten (10) working days in advance of the final paving operation to schedule the installation of permanent pavement markings and signs.

The permittee shall contact the Director at 301-565-7300 of the Silver Spring Regional Services Center and the Silver Spring Traffic Sergeant at 301-565-7740 of the Montgomery County Police Department, a minimum of one week prior to the beginning of any work activities within the Silver Spring Business District.

3. SIGNS

a) ROAD WORK AHEAD signs shall be installed on all side streets that intersect roads within the work zone. The signing shall be placed along the intersection approach to the right of the travellane. Refer to Standard Detail MD 104.01-02 for guidance on sign placement.

b) Warning signs mounted on wood posts, and those mounted on approved portable supports, shall be mounted in conformance with Standard Detail MD 104.01-17.

c) The contractor shall cover temporary signs that are not applicable during non-working hours.

d) The contractor shall cover existing traffic signs in conflict with the work zone traffic control.

e) Signs shall not block pedestrian and cyclist access along any path that are open to pedestrian and cyclist traffic.

f) Contractor to ensure that signs are adequately visible to target users. If the Engineer deems signs are blocked by trees, other signs or trees, Contractor to reposition signs.

4. PORTABLE VARIABLE MESSAGE SIGNS

a) No more than two displays shall be used within any message cycle unless approved by the Engineer.

b) For a list of standard messages/abbreviations, contact the Engineer. All customized messages shall be approved by the Engineer.

c) Refer to Standard Detail MD 104.00-08 and -09 for more info.

d) Refer to Standard Detail MD 104.01-22 for traffic control devices associated with PVMS.

e) Two (2) PVMS will be made available by the contractor throughout duration of the project and placed at strategic locations prior to/during work activities, including any night time closures. PVMS to display messages approved by the Engineer. Final locations are to be determined by the Engineer.

5. CHANNELIZING DEVICES

a) Taper formulas:

L = WS for speeds greater than (>) 40 mph.
L = WS^2/60 for speeds equal to or less than (<) 40 mph.
Where L = minimum length of taper;
S = prevailing travel speed or speed limit (MPH), whichever is higher, prior to work starting.
W = width of offset (ft)

b) Maximum spacing between channelizing devices

Taper channelization - Shall be equal in feet to the posted speed limit for posted speeds eq/less than 40 mph and 40 feet for posted speeds greater than 40 mph.

Tangent channelization - Shall be equal in feet to twice the posted speed limit in the buffer and equal in feet to the posted speed adjacent to the work area for posted speeds eq/less than 40 mph. Spacing shall be 80 feet in the buffer and 40 feet adjacent to the work area for posted speeds greater than 40 mph.

6. PAVEMENT MARKINGS

a) Temporary pavement markings should be installed according to Section 104.02-03(f).

b) Pavement markings that are no longer necessary shall be completely removed or obliterated using grinding method.

7. FLAGGING OPERATIONS

a) Radio communication shall be required between flaggers at the discretion of the County Inspector or under the following conditions
-If the flaggers cannot see each other
-If the lane closure exceeds 200 feet.

b) Flaggers shall be Maryland State Highway Administration or AATSA approved flaggers and shall be used at the discretion of the County Inspector. Flaggers shall use STOP/SLOW paddles to direct traffic.

8. VEHICLES

a) Non-essential work vehicles are to be pulled as far off the road as possible or be otherwise parked in a manner that does not inhibit the movement of traffic.

b) All work zone vehicles entering/exiting or operating within the work zone shall display flashing safety lights (amber in color) as specified in Standard Detail MD 104.01-18A & B.

c) Coordinate deliveries of materials with proposed lane/shoulder closures, preferably when traffic volumes are low.

9. WORK HOUR RESTRICTIONS

a) Unless permitted by the Engineer, work within a lane, or within 2 feet of the face of curb (closed section roadway), is prohibited during peak hours 6 am - 9 am and 3 pm - 7 pm, Monday - Friday. Also, such work is not permitted on weekends, National/State holidays, or days preceding and following holidays.

b) Any night time work will require a noise waiver permit which shall be obtained from the Dept. of Environmental Protection (DEP). Night time work activities shall be between 10pm and 5am.

10. RESIDENTIAL/COMMERCIAL ACCESS

a) Contractor shall maintain access to residences including mail delivery and trash/pick up at all times during construction. For driveways requiring temporary closure to vehicular access due to proposed improvements, and exclusive of emergency work, the contractor shall notify impacted property owner at least 2 weeks in advance of planned construction dates/times, confirm 24 hours in advance, and coordinate closely for the duration of construction activities. The contractor shall take all reasonable measures to provide access during construction activities.

b) Contractor to coordinate with property owners about locking doors as required to block access to sidewalks during construction.

c) 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.

11. POSTED SPEED LIMITS

MD 320 (Piney Branch Road) is classified as an Urban Minor Arterial.
Fenton Street is classified as an Urban Major Collector.

Posted speed limit
Flower Avenue - 25 mph
Piney Branch Road (MD 320) - 30 mph

The posted speed limits will be maintained during the construction.

12. SPECIAL EVENTS

Contractor shall maintain sidewalk access during special events.

13. ADJACENT PROJECTS

Contractor shall coordinate construction activities with adjacent projects. Contractor shall not impede other projects.

14. TEMPORARY IMPACTS TO TRANSIT SERVICE

The contractor shall coordinate temporary bus stop relocations with Montgomery County Transit Service. Contact Phil McLaughlin (240-777-5800) at least 2 weeks in advance of construction. Ride-On bus stops are located along Flower Avenue and Piney Branch Road and are noted on the MOT sheets.

15. PARKING RESTRICTIONS

The permittee shall contact Veeda Wilkinson with MCDOT, Division of Parking Management at 240-777-8740 a minimum of 48 hours in advance to arrange for payment and the bagging of all parking meters within the work zone. Meter numbers and location must be specified.

All existing Montgomery County Parking signs shall be covered or bagged by the contractor for the duration of work; and a temporary No Parking Anytime (R7-4) sign shall be installed in the affected parking space(s). Existing Montgomery County parking meter pipes/poles shall not be used for temporary installation.

When it is necessary to restrict parking in a non-metered area to facilitate work activity, the permittee shall contact the appropriate County Police Station for temporary "No Parking" signs.

SEQUENCE OF CONSTRUCTION:

1A. Remove concrete island between Sta. 106+00 and 107+00
1B. Remove concrete island between Sta. 110+00 and 111+00
2. Construct drainage improvements, curb, sidewalk and roadway improvements along the west side of roadway between Piney Branch Avenue (MD 320) and Arliss Street.
3. Construct drainage improvements, curb, sidewalk and roadway improvements along the east side of roadway between Piney Branch Avenue (MD 320) and Arliss Street. Install temporary striping at end of this phase but prior to start of next phase.
4. Construct drainage improvements, curb, sidewalk, signal, and roadway improvements along the southwest corner of the signalized intersection of Piney Branch Avenue (MD 320) and Flower Avenue. Install temporary striping.
5. Construct drainage improvements, curb, sidewalk, signal, and roadway improvements along the southeast corner of the signalized intersection of Piney Branch Avenue (MD 320) and Flower Avenue. Install temporary striping.
6. Following completion of Phase 5, mill and overlay roadway. Install temporary striping, including eradication of existing pavement markings beyond limits of mill and overlay as shown on the plans.

Note the Contractor may work on multiple segments at the same time within each phase, however may not work on adjacent segments at the same time.

CONSTRUCTION SCHEDULE:

Phase 1A: single phase - 0.5 weeks
Phase 1B: single phase - 0.5 weeks

Phase 2: single phase - 16 weeks

Phase 3: single phase - 16 weeks

Phase 4: single phase - 4 weeks

Phase 5: single phase - 4 weeks

(Refer to Sequence of Construction for additional details on specific activities in each Phase.)

MTN-01

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
MAINTENANCE OF TRAFFIC
GENERAL NOTES

SHEET 59 of 87

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: _____

Stantec
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www.stantec.com

Bicycle and Pedestrian Priority Areas

2/26/2025
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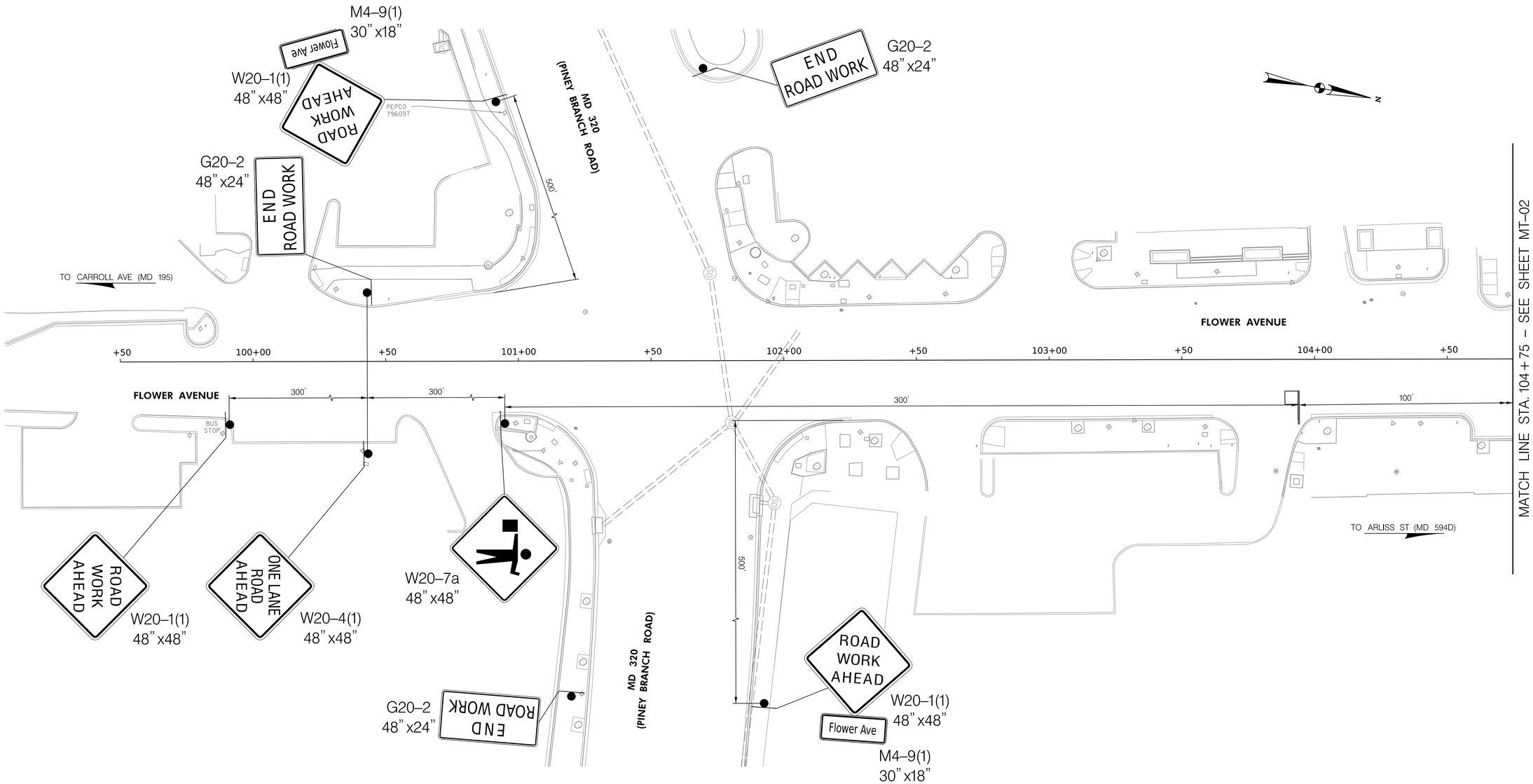

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 01A

SCALE: 1"=20' SHEET 60 of 87

2/26/2025
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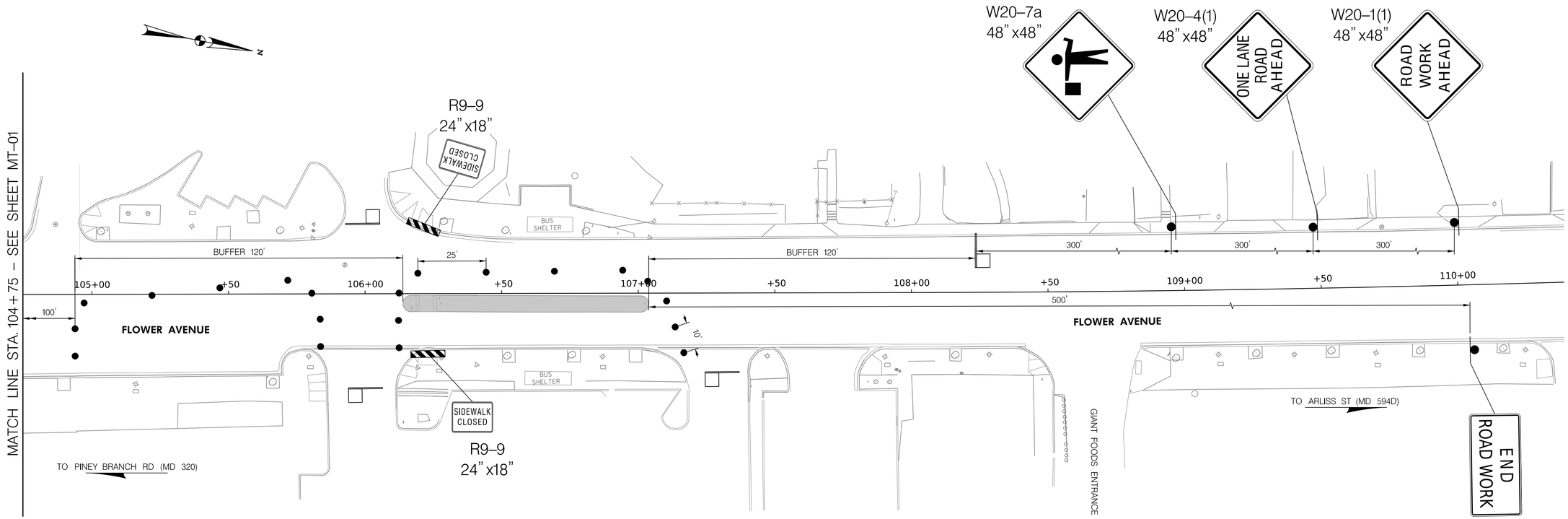

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DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
MAINTENANCE OF TRAFFIC PLAN
PHASE 01A

SCALE: 1"=20'

SHEET 61 of 87

2/26/2025
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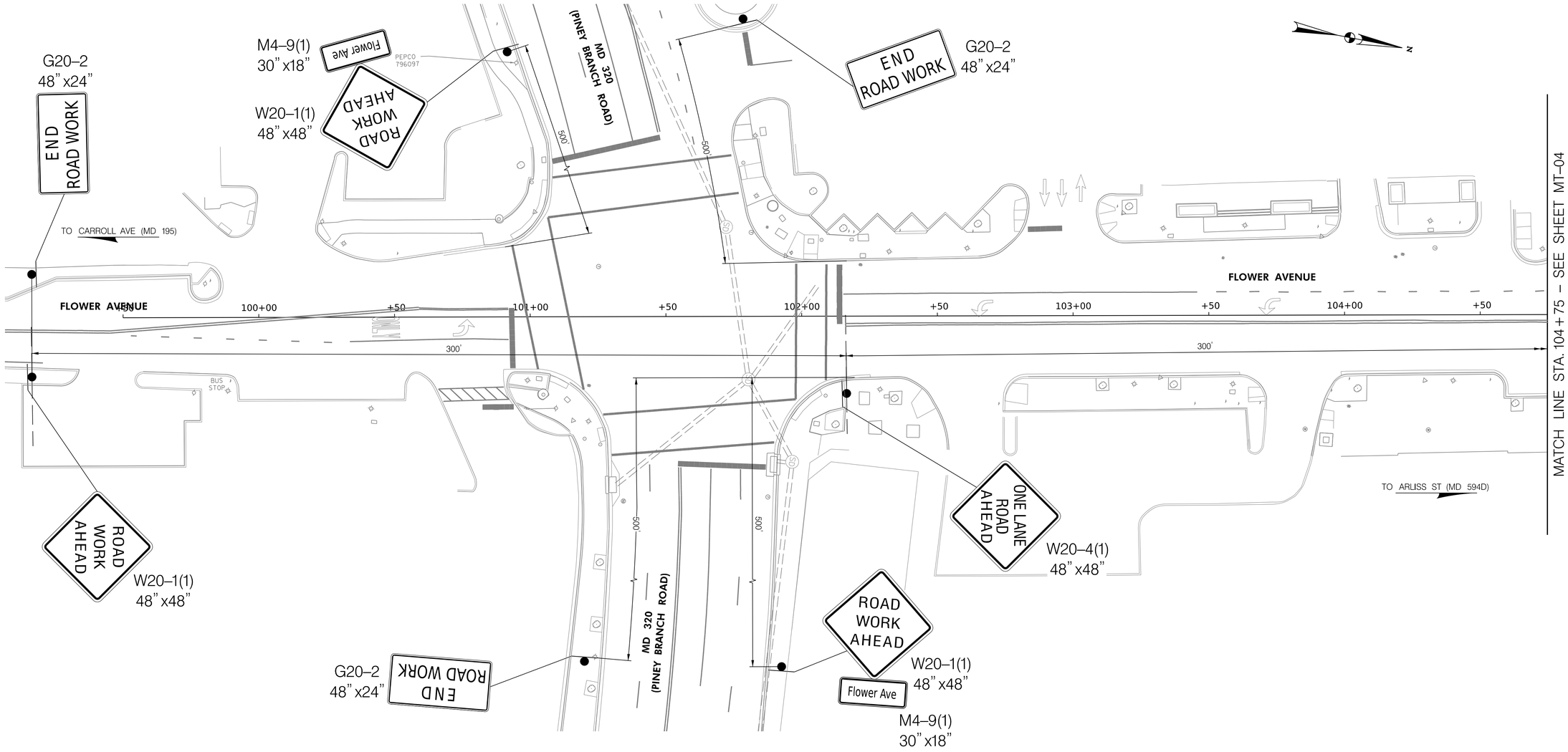

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
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_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-03

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
MAINTENANCE OF TRAFFIC PLAN
PHASE 01B

SCALE: 1"=20' SHEET 62 of 87

2/26/2025
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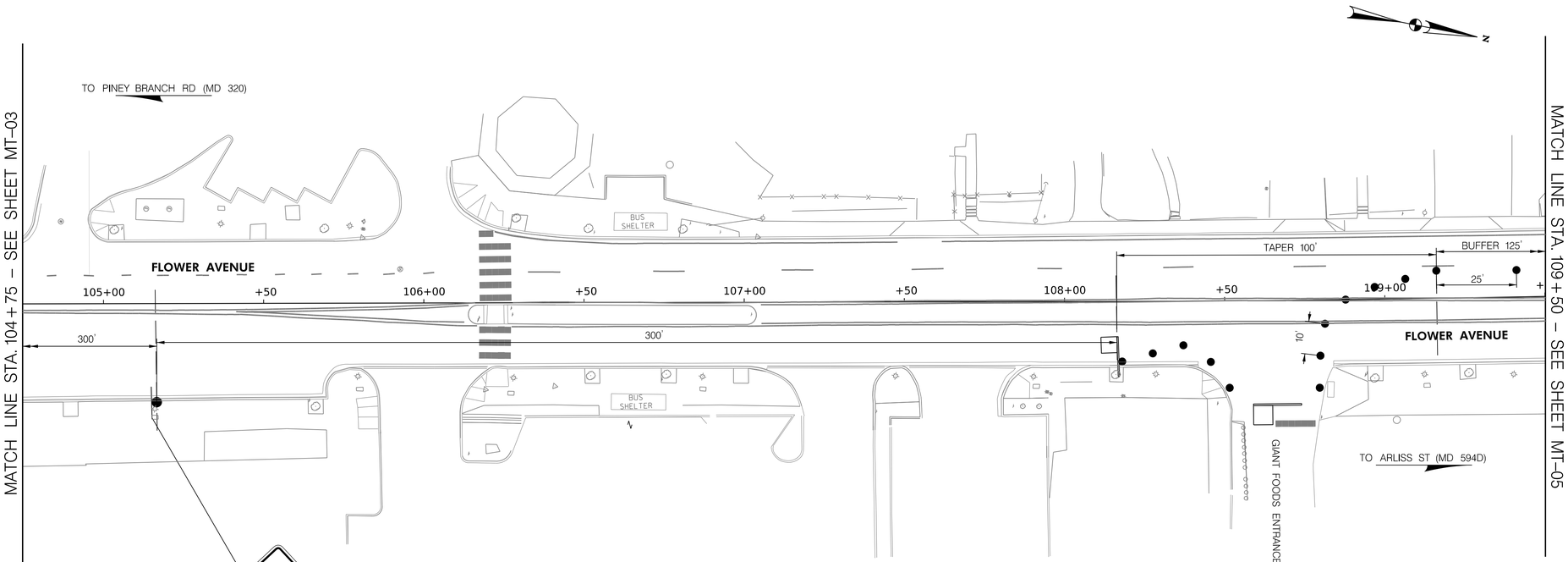
MATCH LINE STA. 104+75 – SEE SHEET MT-03

MATCH LINE STA. 109+50 – SEE SHEET MT-05



LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

MT-04

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 01B

SCALE: 1"=20'

SHEET 63 of 87

PROFESSIONAL CERTIFICATION:
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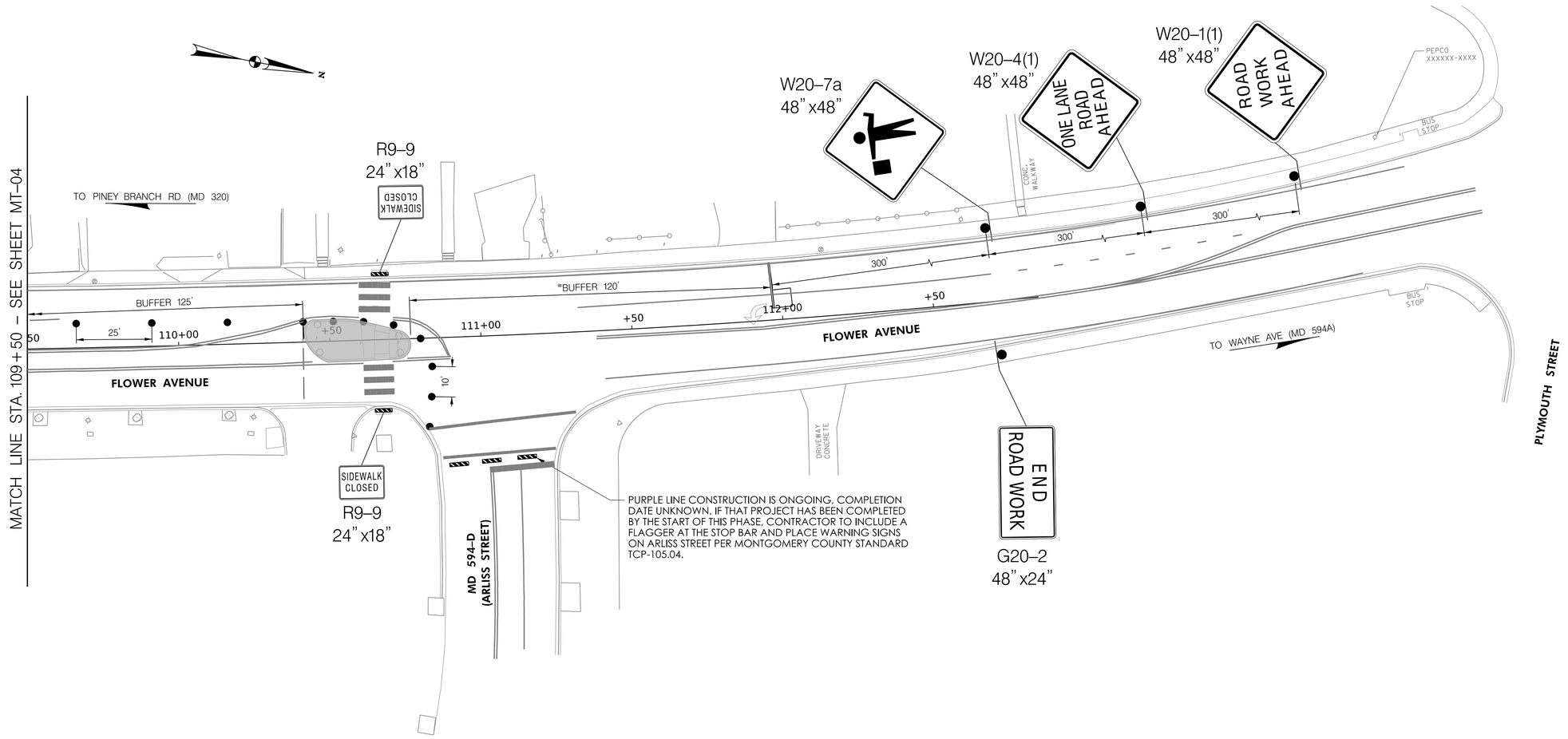

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-05

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 01B

SCALE: 1"=20'

SHEET 64 of 87

2/26/2025
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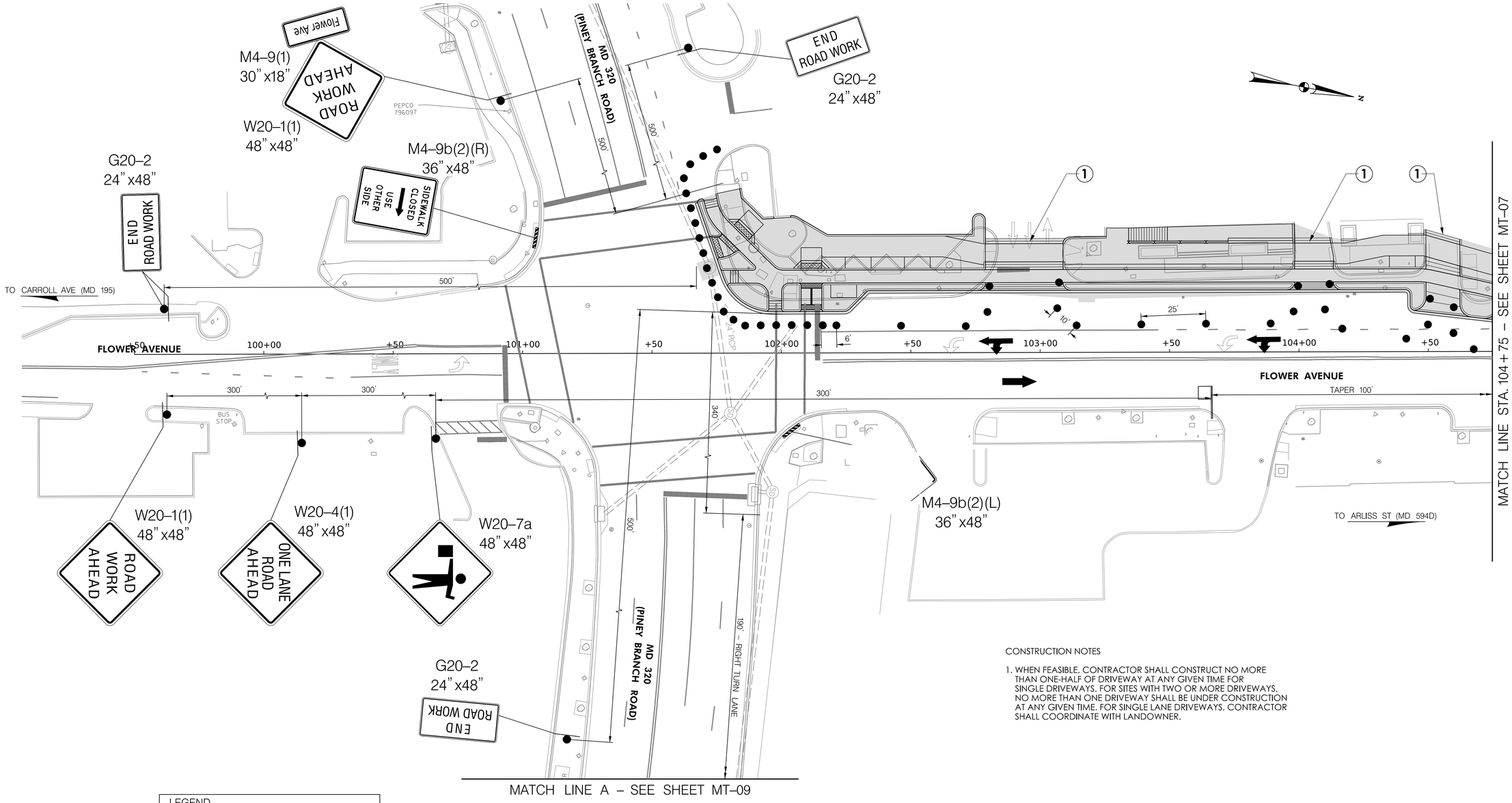

CONSTRUCTION NOTES

1. WHEN FEASIBLE, CONTRACTOR SHALL CONSTRUCT NO MORE THAN ONE-HALF OF DRIVEWAY AT ANY GIVEN TIME FOR SINGLE DRIVEWAYS. FOR SITES WITH TWO OR MORE DRIVEWAYS, NO MORE THAN ONE DRIVEWAY SHALL BE UNDER CONSTRUCTION AT ANY GIVEN TIME. FOR SINGLE LANE DRIVEWAYS, CONTRACTOR SHALL COORDINATE WITH LANDOWNER.

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
SCALE: 1" = 20'

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BiPPA Bicycle and Pedestrian Priority Areas

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DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-06

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 02

SCALE: 1"=20'

SHEET 65 of 87

2/26/2025
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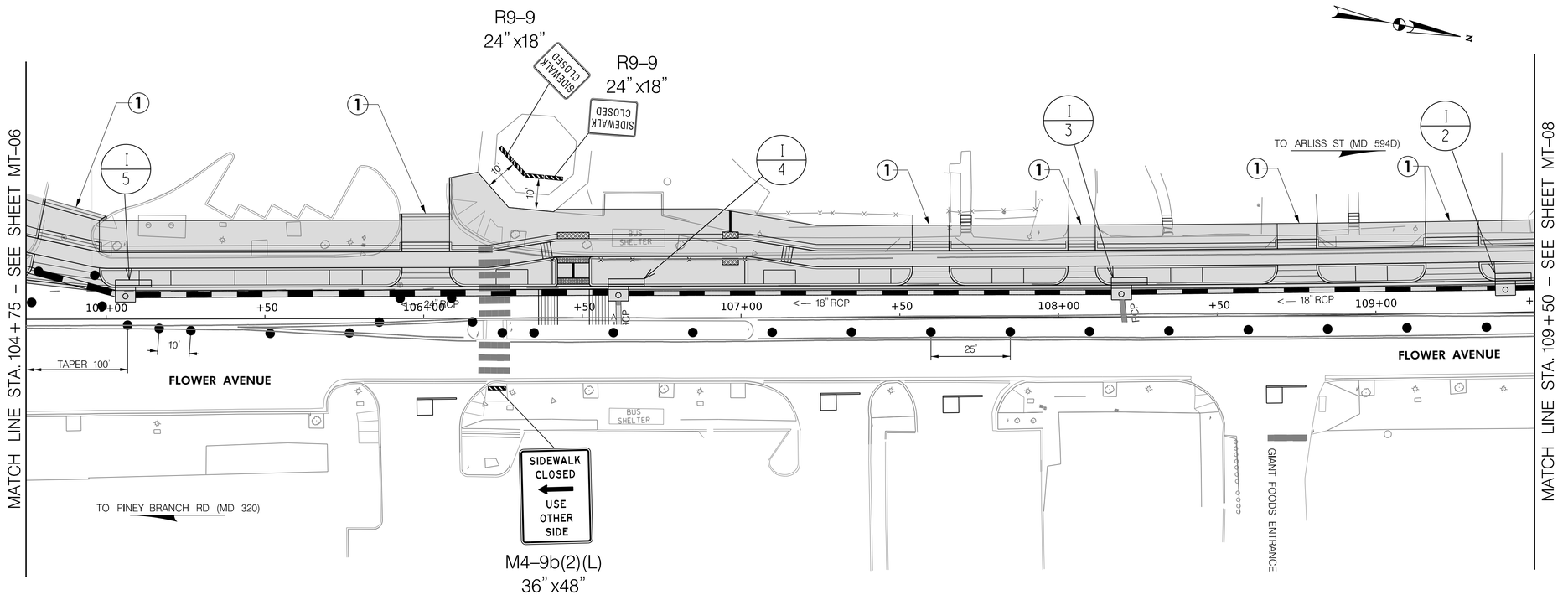

CONSTRUCTION NOTES

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LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-07

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 02

SCALE: 1"=20'

SHEET 66 of 87

2/26/2025
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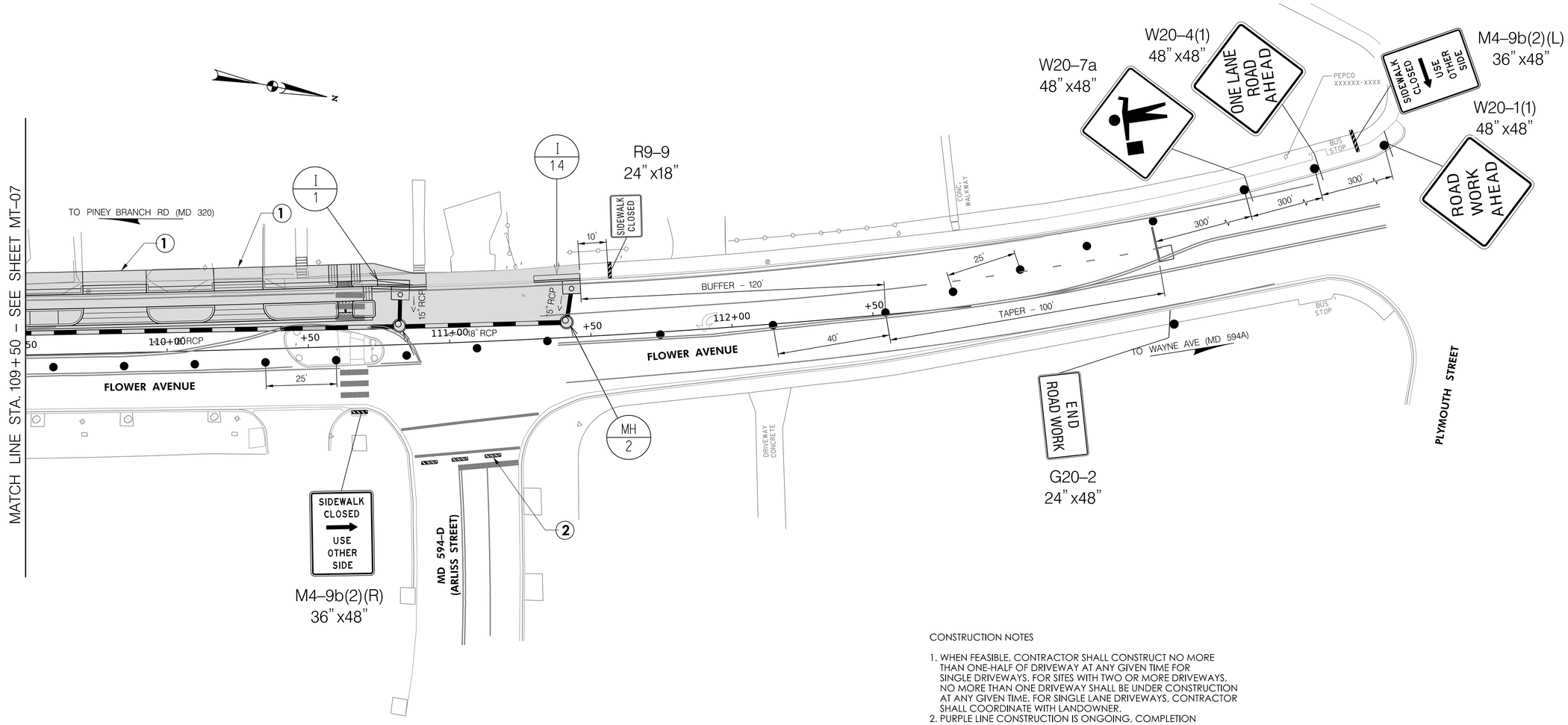

CONSTRUCTION NOTES

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2. PURPLE LINE CONSTRUCTION IS ONGOING, COMPLETION DATE UNKNOWN. IF THAT PROJECT HAS BEEN COMPLETED BY THE START OF THIS PHASE, CONTRACTOR TO INCLUDE A FLAGGER AT THE STOP BAR AND PLACE WARNING SIGNS ON ARLISS STREET PER MONTGOMERY COUNTY STANDARD TCP-105.04.

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
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www.stantec.com

BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-08

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 02

SCALE: 1"=20' SHEET 67 of 87

2/26/2025
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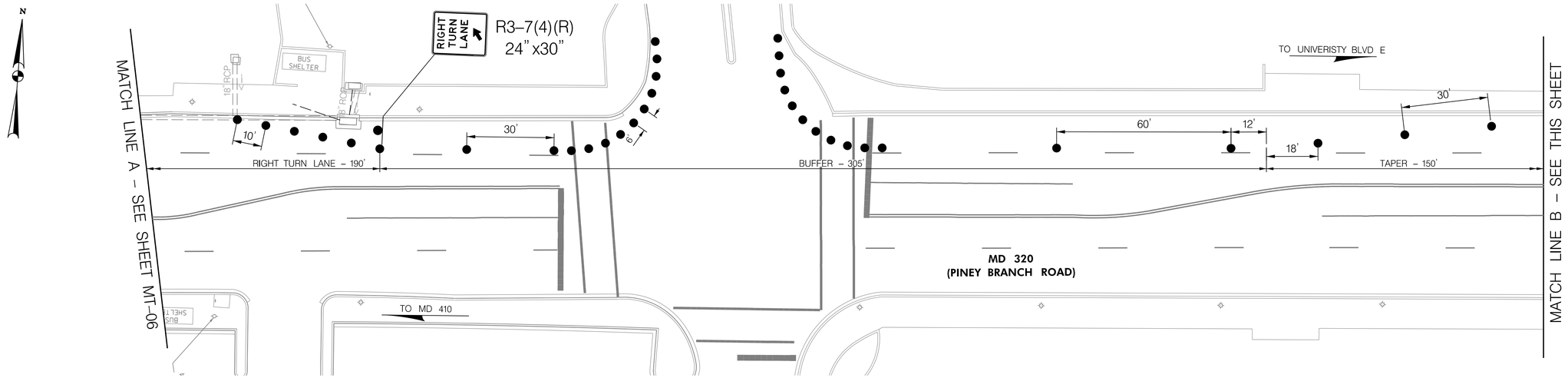

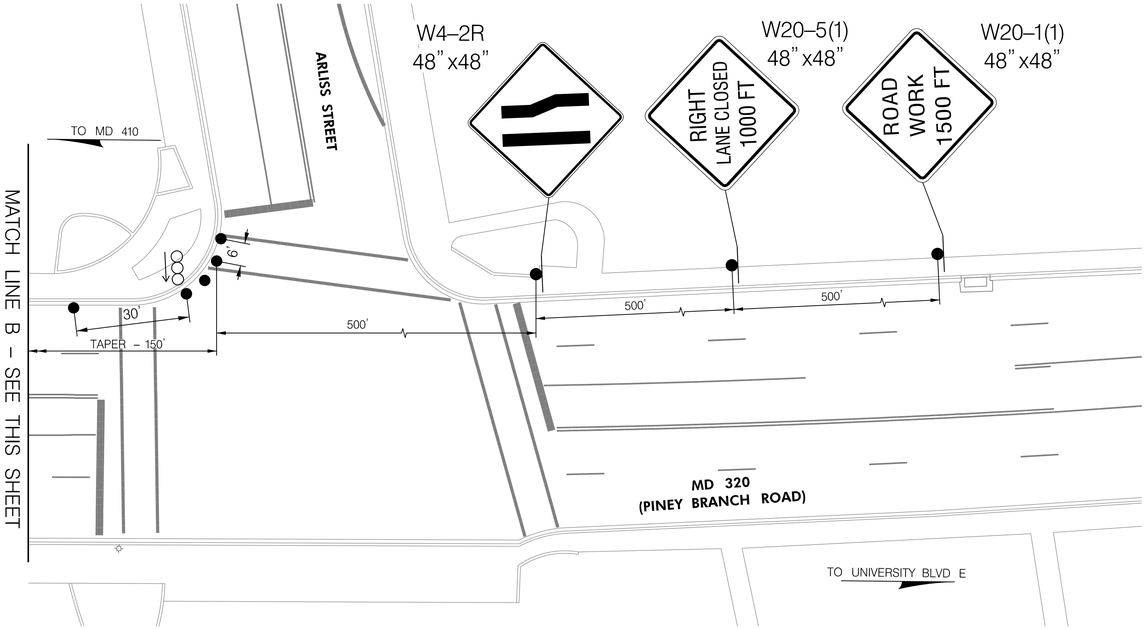

LEGEND

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- POST SIGN
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- ARROW PANEL
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SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JM	DATE: FEBRUARY, 2025
DRAWN BY: JM	DATE: FEBRUARY, 2025
CHECKED BY: JRGB	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

MT-09

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 02

SCALE: 1"=20' SHEET 68 of 87

2/26/2025
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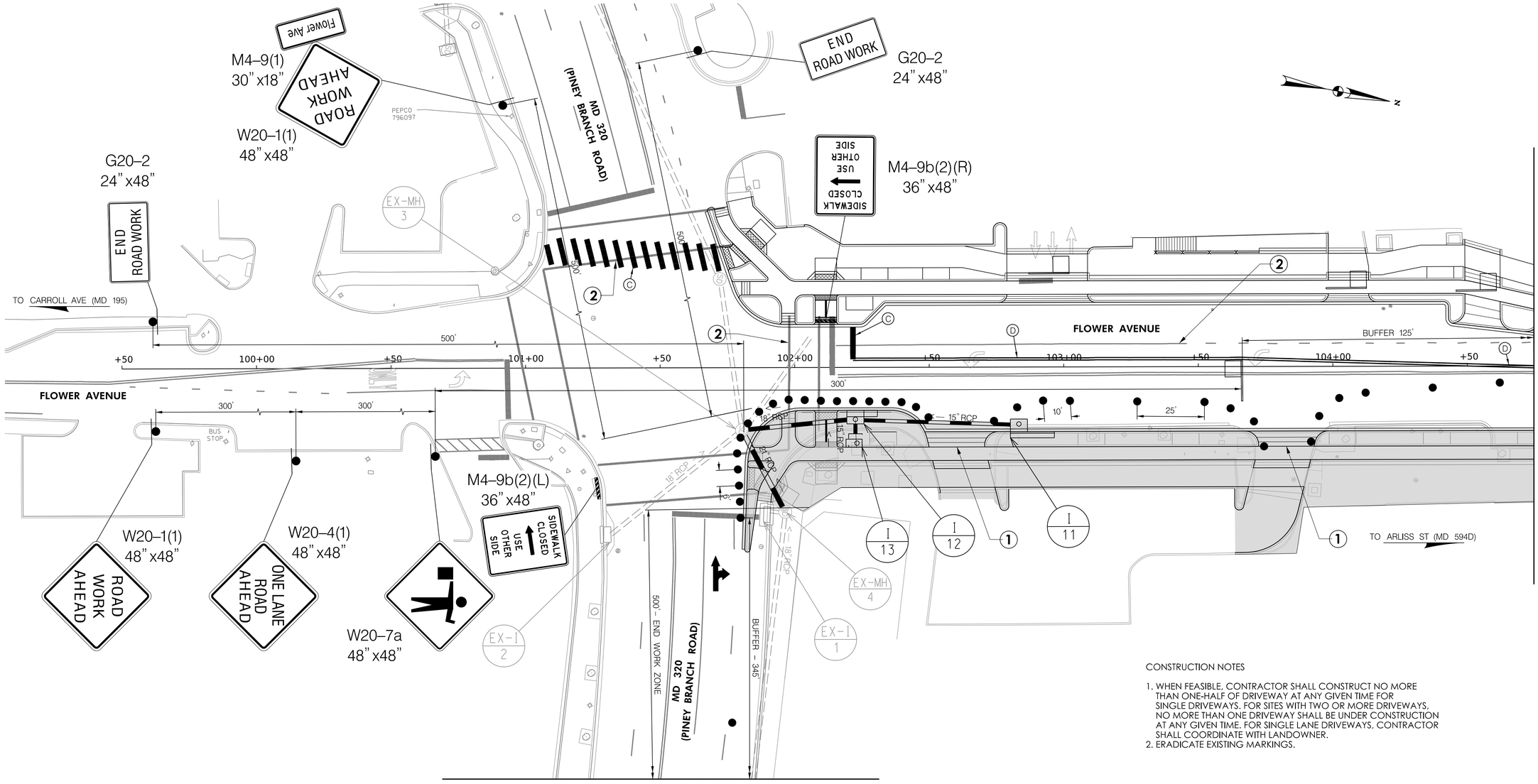

CONSTRUCTION NOTES

1. WHEN FEASIBLE, CONTRACTOR SHALL CONSTRUCT NO MORE THAN ONE-HALF OF DRIVEWAY AT ANY GIVEN TIME FOR SINGLE DRIVEWAYS. FOR SITES WITH TWO OR MORE DRIVEWAYS, NO MORE THAN ONE DRIVEWAY SHALL BE UNDER CONSTRUCTION AT ANY GIVEN TIME. FOR SINGLE LANE DRIVEWAYS, CONTRACTOR SHALL COORDINATE WITH LANDOWNER.
2. ERADICATE EXISTING MARKINGS.

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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NO.	REVISION	BY	APP'D	DATE

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RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-10

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 03

SCALE: 1"=20' SHEET 69 of 87

2/26/2025
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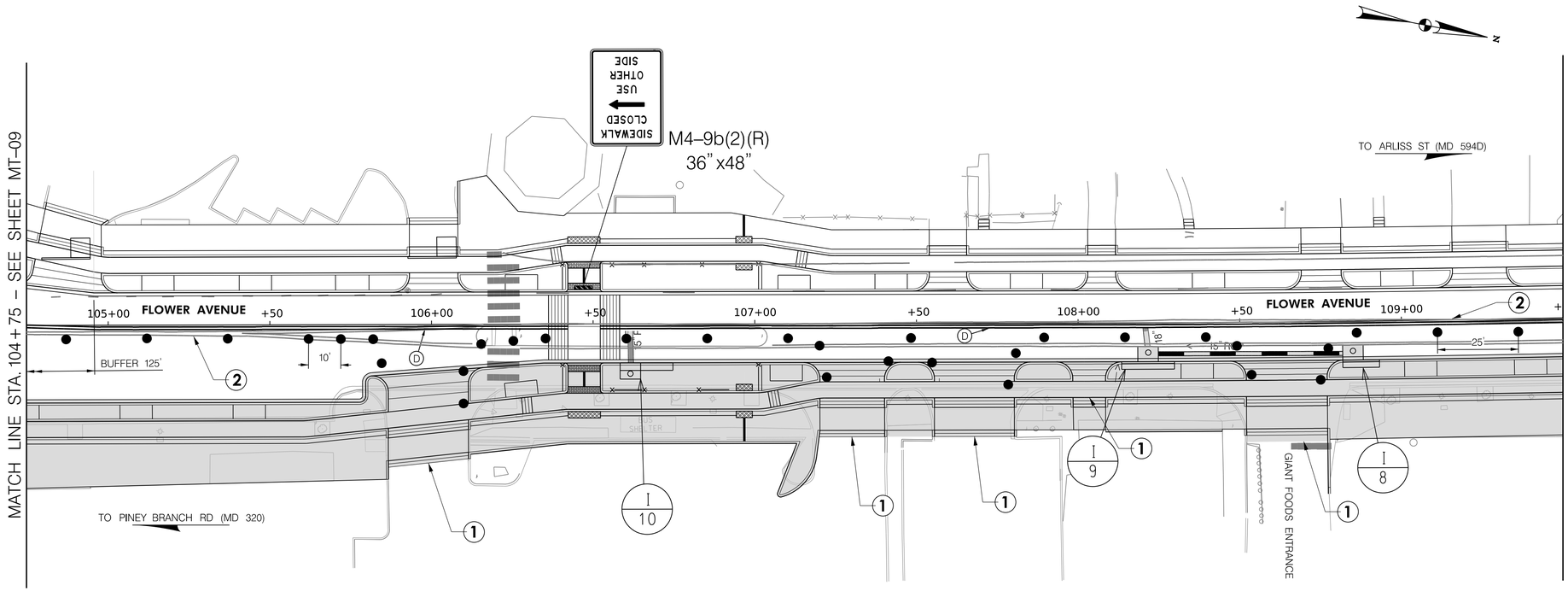

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

CONSTRUCTION NOTES

1. WHEN FEASIBLE, CONTRACTOR SHALL CONSTRUCT NO MORE THAN ONE-HALF OF DRIVEWAY AT ANY GIVEN TIME FOR SINGLE DRIVEWAYS. FOR SITES WITH TWO OR MORE DRIVEWAYS, NO MORE THAN ONE DRIVEWAY SHALL BE UNDER CONSTRUCTION AT ANY GIVEN TIME. FOR SINGLE LANE DRIVEWAYS, CONTRACTOR SHALL COORDINATE WITH LANDOWNER.
2. ERADICATE EXISTING MARKINGS

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE

MT-11

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: _____

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Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 03

SCALE: 1"=20'

SHEET 70 of 87

2/26/2025
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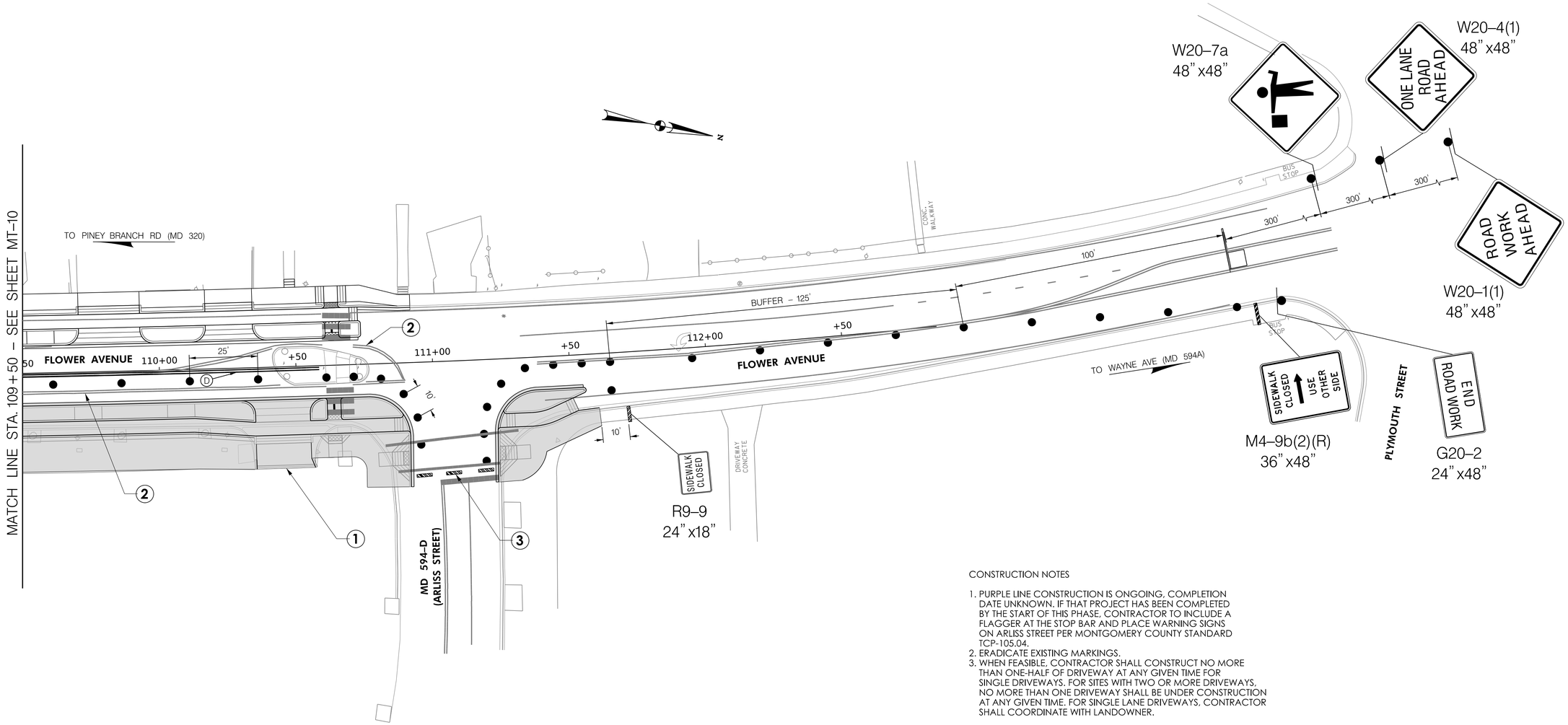

CONSTRUCTION NOTES

1. PURPLE LINE CONSTRUCTION IS ONGOING, COMPLETION DATE UNKNOWN. IF THAT PROJECT HAS BEEN COMPLETED BY THE START OF THIS PHASE, CONTRACTOR TO INCLUDE A FLAGGER AT THE STOP BAR AND PLACE WARNING SIGNS ON ARLISS STREET PER MONTGOMERY COUNTY STANDARD TCP-105.04.
2. ERADICATE EXISTING MARKINGS.
3. WHEN FEASIBLE, CONTRACTOR SHALL CONSTRUCT NO MORE THAN ONE-HALF OF DRIVEWAY AT ANY GIVEN TIME FOR SINGLE DRIVEWAYS. FOR SITES WITH TWO OR MORE DRIVEWAYS, NO MORE THAN ONE DRIVEWAY SHALL BE UNDER CONSTRUCTION AT ANY GIVEN TIME. FOR SINGLE LANE DRIVEWAYS, CONTRACTOR SHALL COORDINATE WITH LANDOWNER.

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

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Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

MT-12

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 03

SCALE: 1"=20' SHEET 71 of 87

2/26/2025
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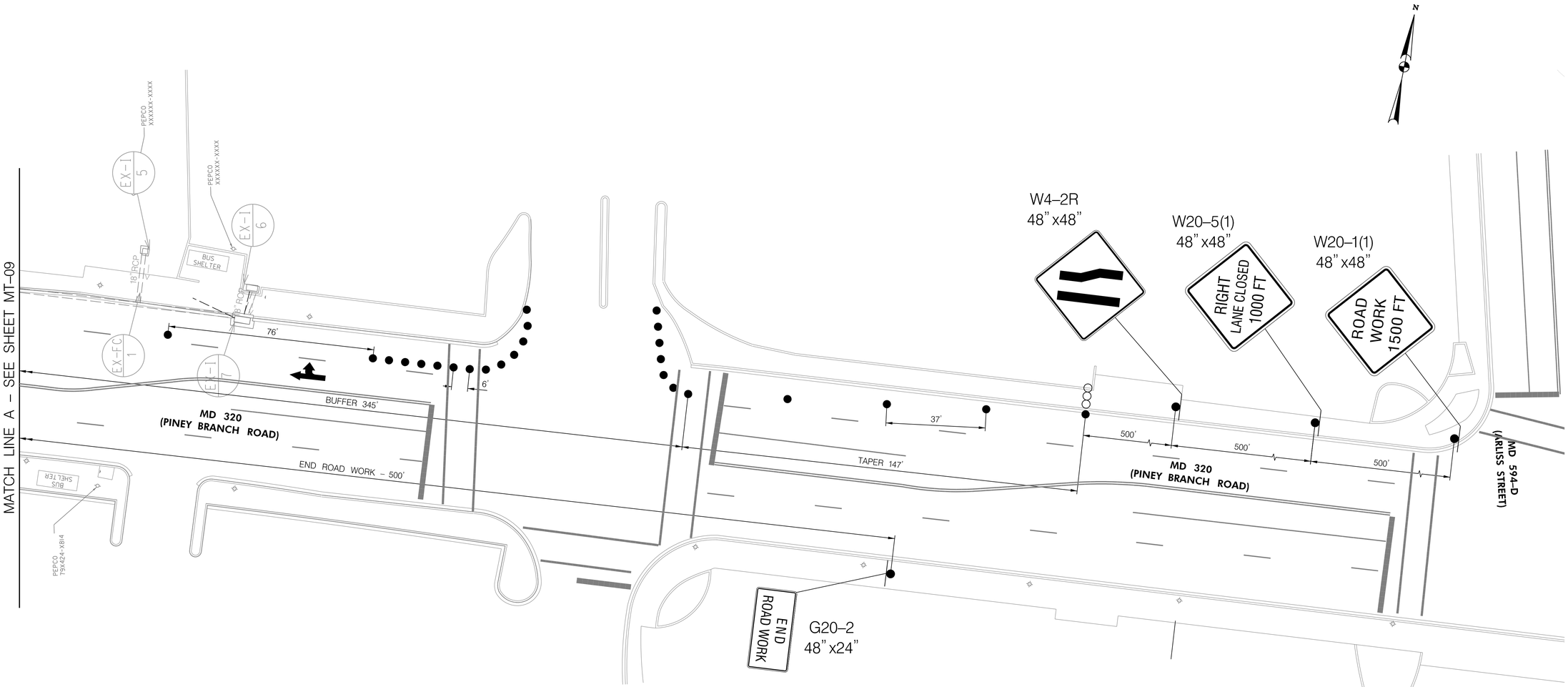

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

MT-13

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 03

SCALE: 1"=20'

SHEET 72 of 87

2/26/2025
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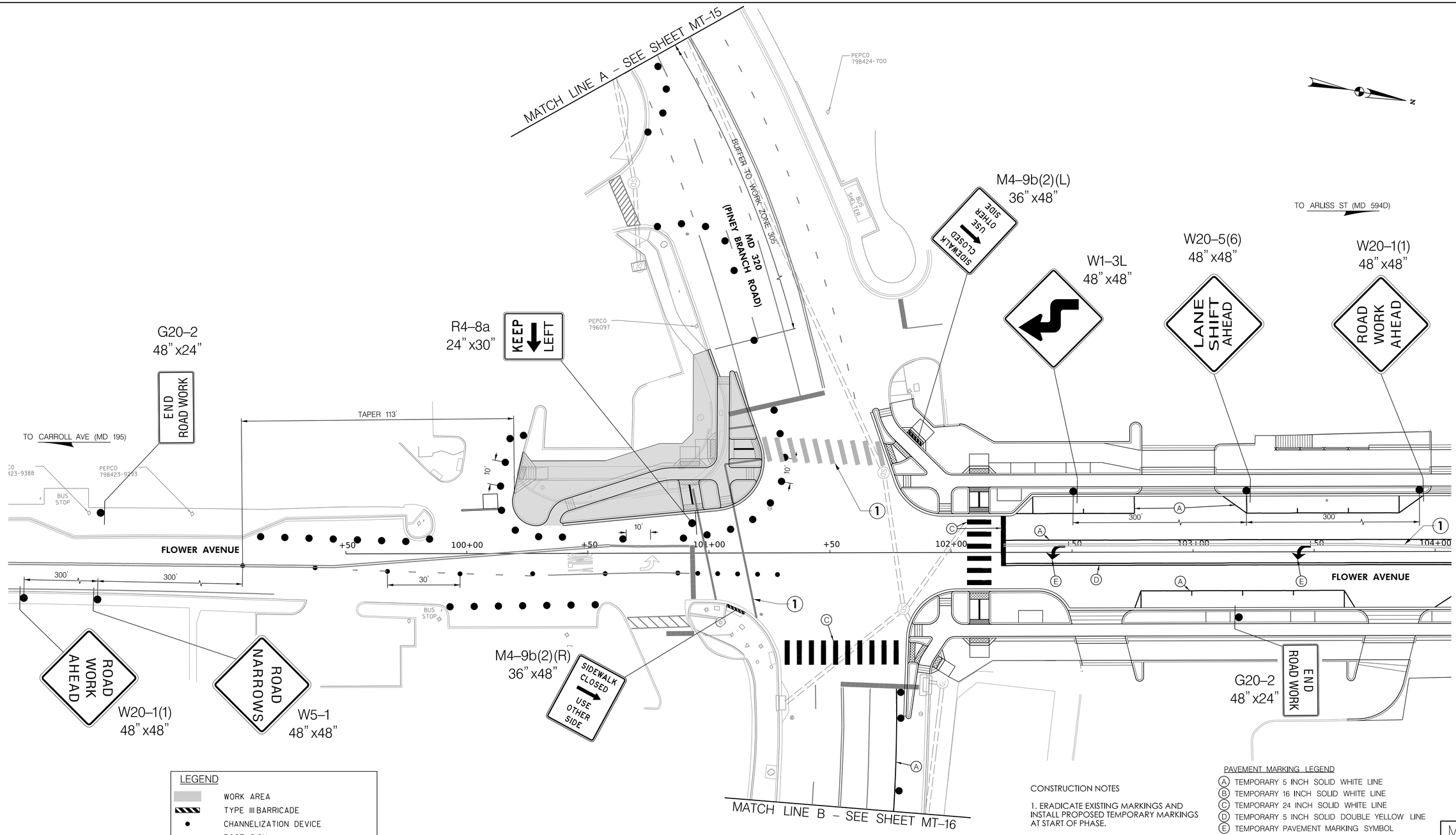

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
SCALE: 1" = 20'

CONSTRUCTION NOTES

1. ERADICATE EXISTING MARKINGS AND INSTALL PROPOSED TEMPORARY MARKINGS AT START OF PHASE.

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE
- (E) TEMPORARY PAVEMENT MARKING SYMBOL

MT-14

PROFESSIONAL CERTIFICATION:
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DRAWING NO.:	DATE:

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Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 04

SCALE: 1"=20' SHEET 73 of 87

2/26/2025
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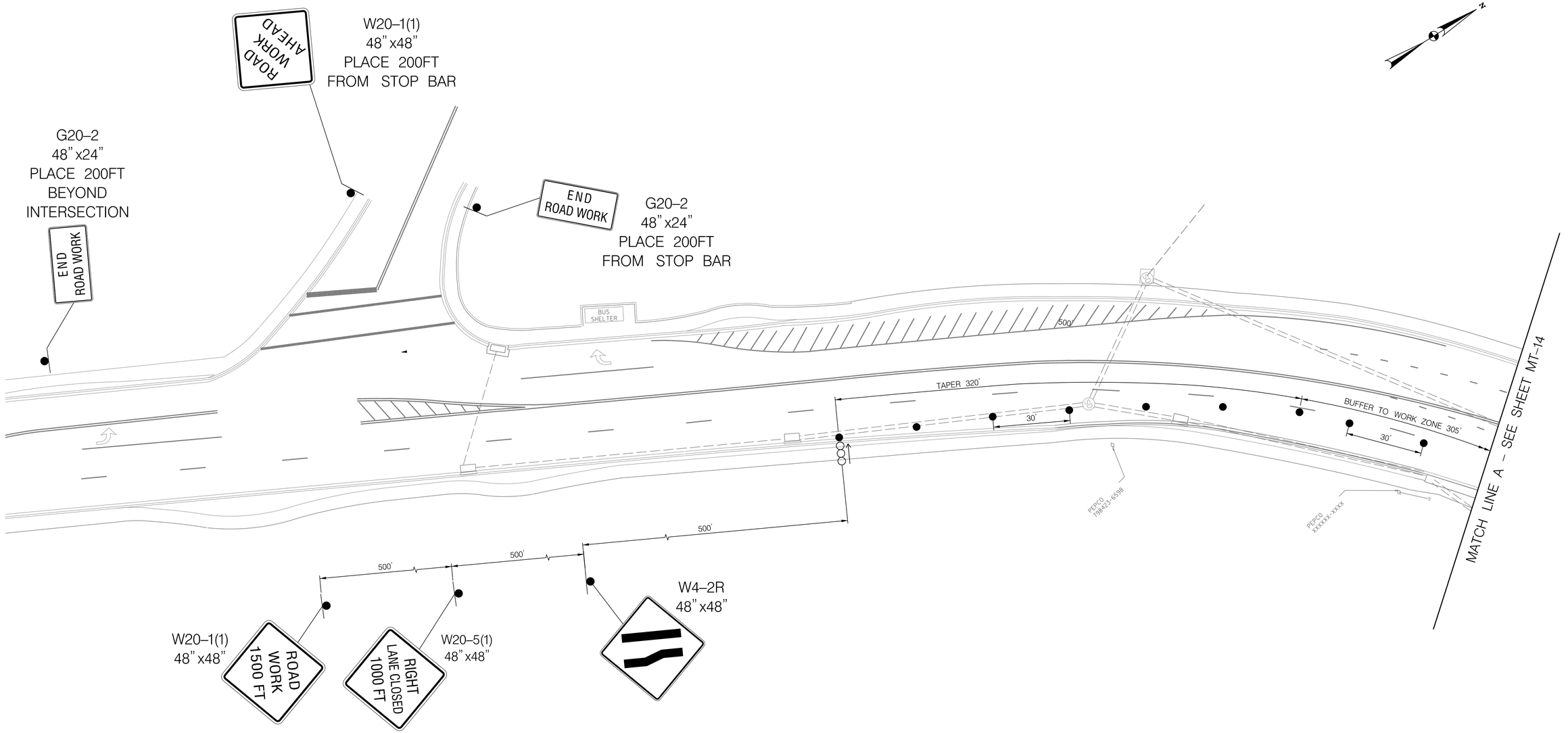

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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_____ _____
Chief, Design Section Date

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_____ _____
Chief,
Division of Transportation Engineering Date

MT-15

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 04

SCALE: 1"=20'

SHEET 74 of 87

2/26/2025
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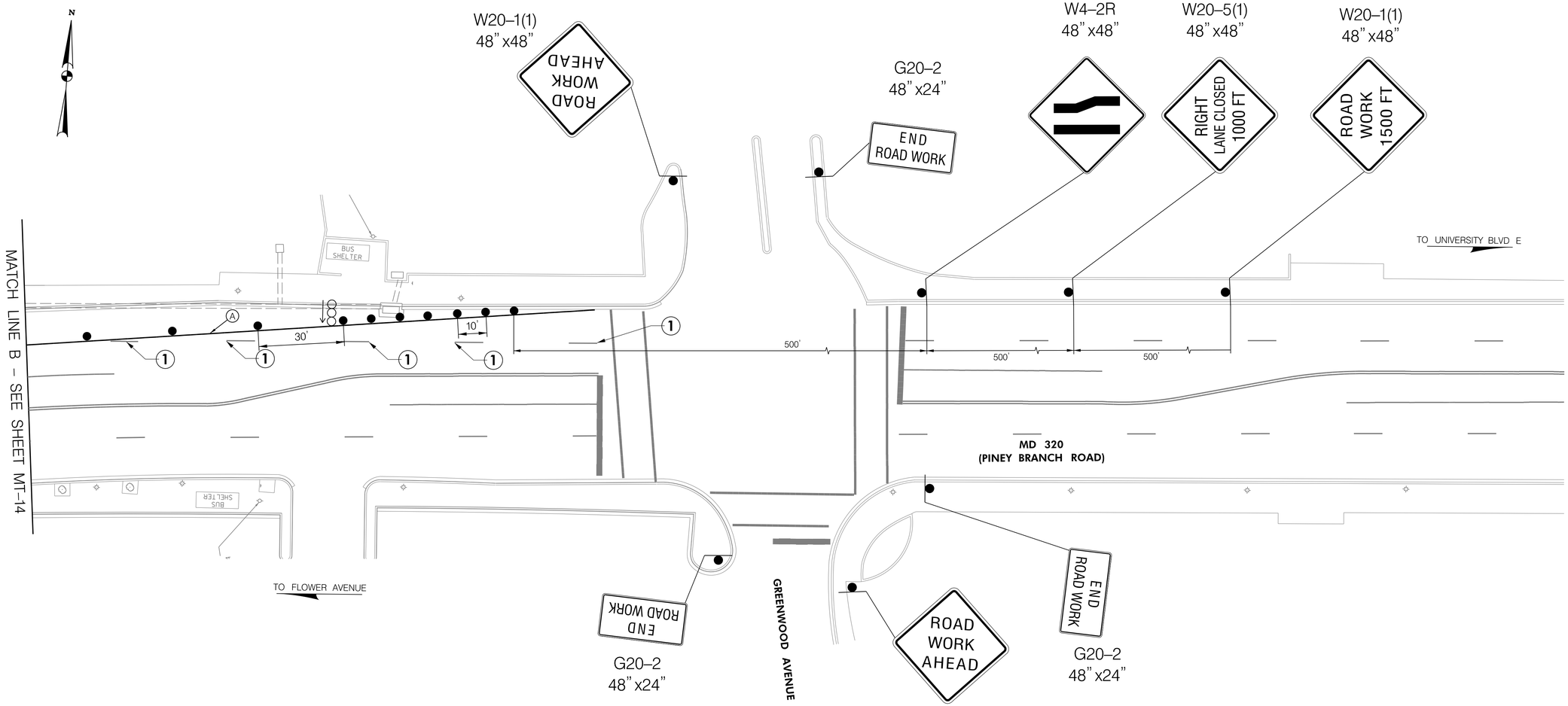

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

CONSTRUCTION NOTES

1. ERADICATE EXISTING MARKINGS AND INSTALL PROPOSED TEMPORARY MARKINGS AT START OF PHASE.

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE
- (E) TEMPORARY PAVEMENT MARKING SYMBOL

MT-16

PROFESSIONAL CERTIFICATION:
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Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 04

SCALE: 1"=20'

SHEET 75 of 87

2/26/2025
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MATCH LINE A – SEE SHEET MT–18

W1–3L
48" x48"

G20–2
48" x24"
END ROAD WORK

W1–3L
48" x48"

R9–9
24" x18"
SIDEWALK CLOSED

M4–9b(2)(L)
36" x48"
SIDEWALK CLOSED USE OTHER SIDE

MD 320 (PINEY BRANCH ROAD)

W5–1
48" x48"
ROAD NARROWS

W20–1(1)
48" x48"
ROAD WORK AHEAD

TO CARROLL AVE (MD 195)

PEPCO 798423-9388

PEPCO 798423-9293

BUS STOP

FLOWER AVENUE

100+00 +50 101+00 +50 102+00 +50 103+00 +50

300' FROM WORK AREA

300' 300'

10' 10'

TAPER 113'

PRIVATE UTILITY POLE

FLOWER AVENUE

TO ARLISS ST (MD 594D)

R9–9
24" x18"
SIDEWALK CLOSED

MD 320 (PINEY BRANCH ROAD)

SIDEWALK CLOSED USE OTHER SIDE

M4–9b(2)(R)
36" x48"

END ROAD WORK

G20–2
48" x24"

W20–1(1)
48" x48"
ROAD WORK AHEAD

W20–5(6)
48" x48"
LANE SHIFT AHEAD

MATCH LINE B – SEE SHEET MT–19

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'
SCALE: 1" = 20'

CONSTRUCTION NOTES

1. ERADICATE EXISTING CROSSWALK MARKINGS.
2. TEMPORARY MARKINGS FROM PRIOR PHASE REMAINS.

PAVEMENT MARKING LEGEND

- (A) TEMPORARY 5 INCH SOLID WHITE LINE
- (B) TEMPORARY 16 INCH SOLID WHITE LINE
- (C) TEMPORARY 24 INCH SOLID WHITE LINE
- (D) TEMPORARY 5 INCH SOLID DOUBLE YELLOW LINE
- (E) TEMPORARY PAVEMENT MARKING SYMBOL

MT-17

PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____

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BiPPA Bicycle and Pedestrian Priority Areas

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Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 05

SCALE: 1"=20'

SHEET 76 of 87

2/26/2025
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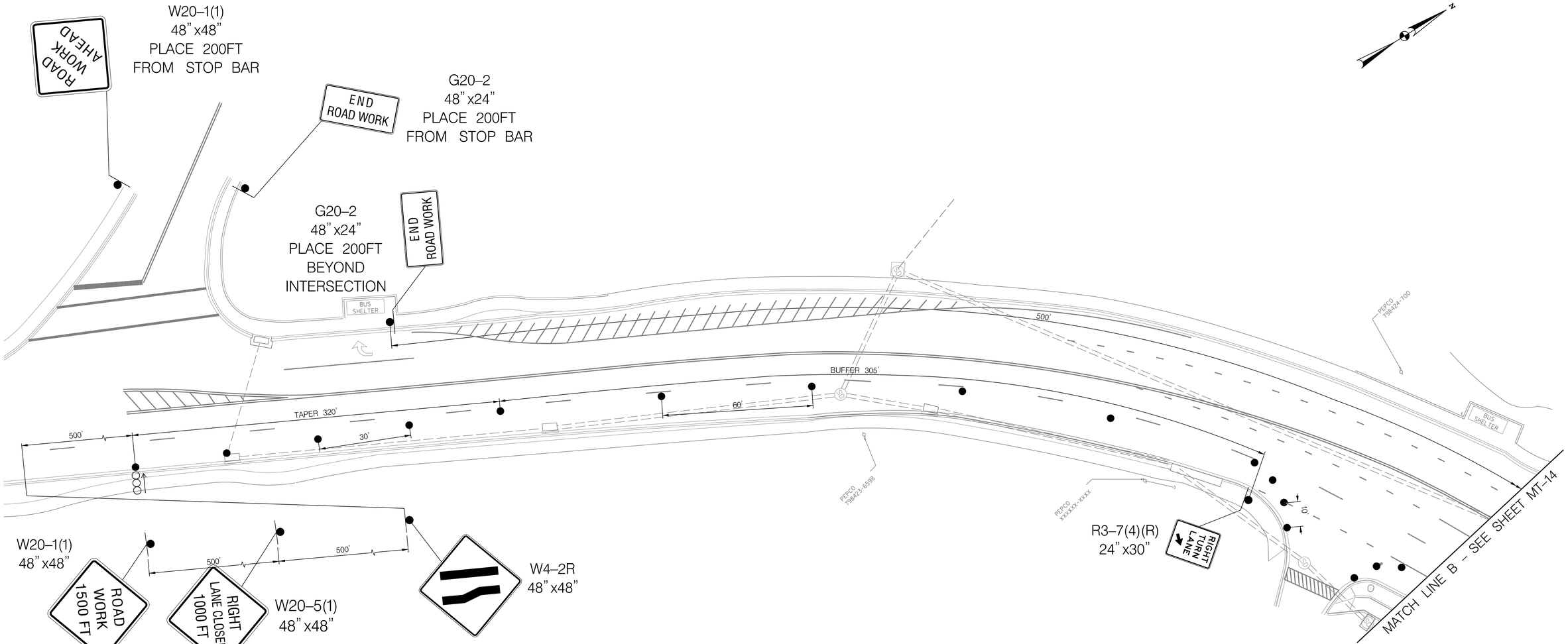

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

PROFESSIONAL CERTIFICATION:
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Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

MT-15

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 05

SCALE: 1"=20'

SHEET 74 of 87

2/26/2025
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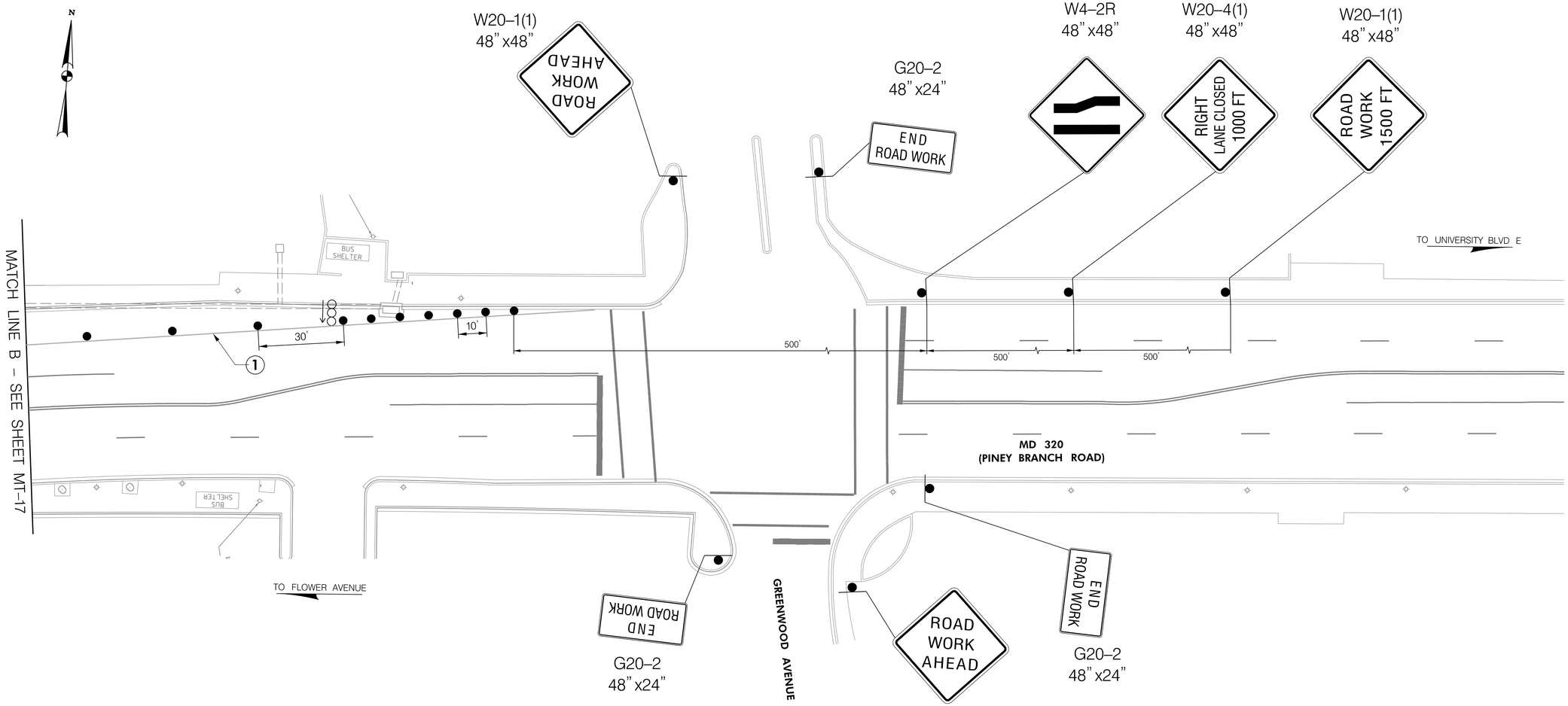

LEGEND

- WORK AREA
- TYPE III BARRICADE
- CHANNELIZATION DEVICE
- POST SIGN
- FLAGGER
- ARROW PANEL
- TRAFFIC FLOW ARROW

20' 0 20' 40'

SCALE: 1" = 20'

CONSTRUCTION NOTES

1. TEMPORARY MARKINGS FROM PRIOR PHASE REMAINS.

MT-19

PROFESSIONAL CERTIFICATION:
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APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES MAINTENANCE OF TRAFFIC PLAN PHASE 05

SCALE: 1"=20' SHEET 78 of 87

2/26/2025
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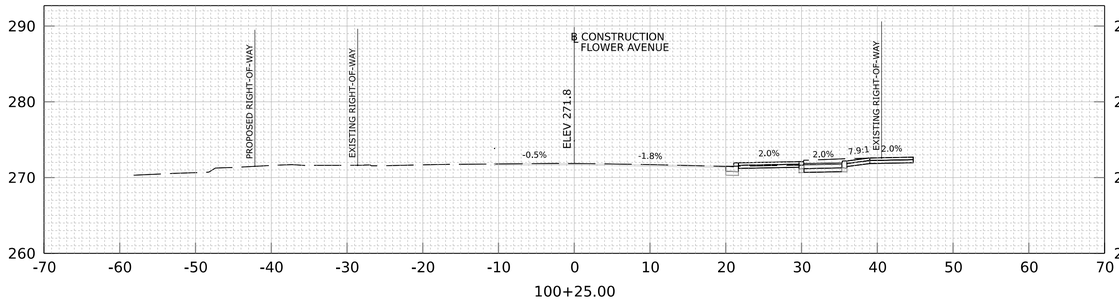

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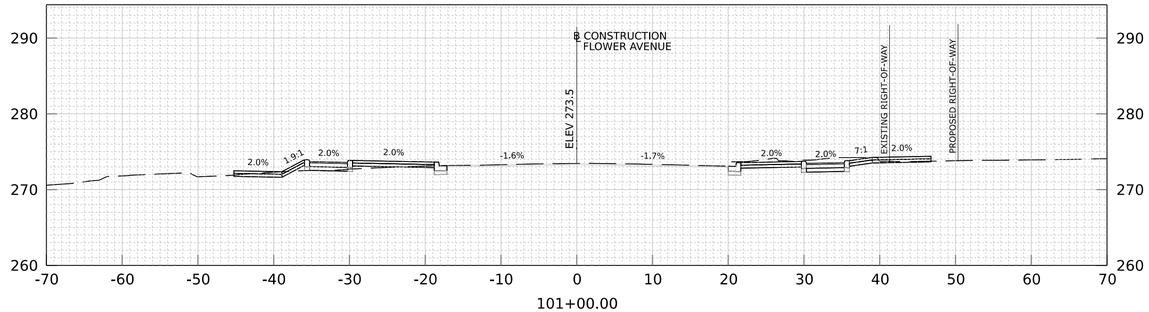

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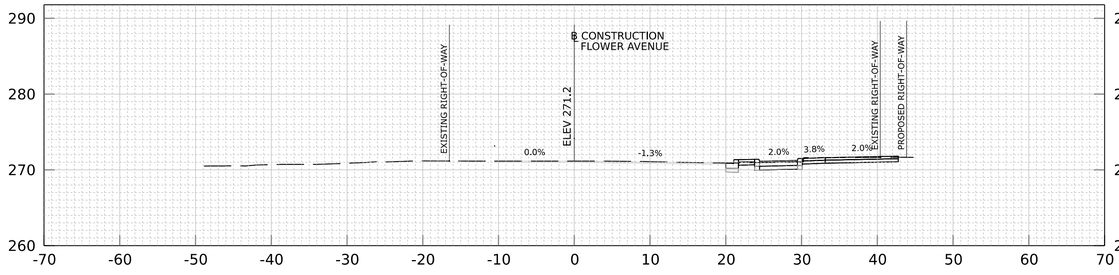

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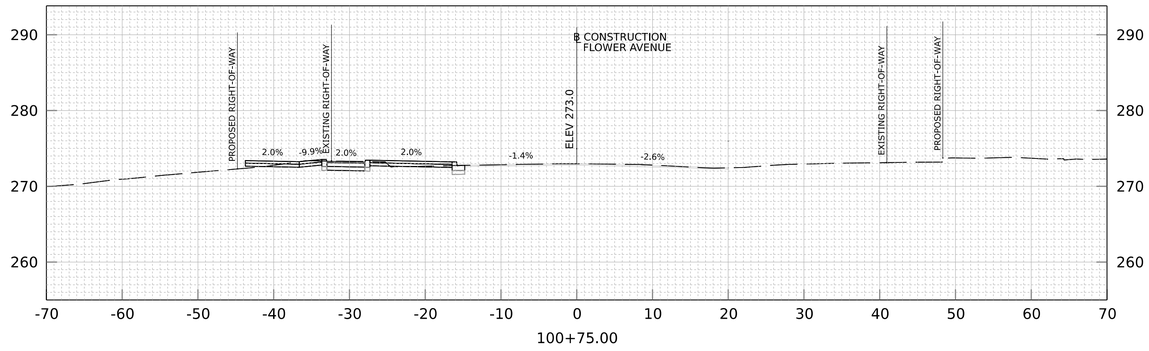

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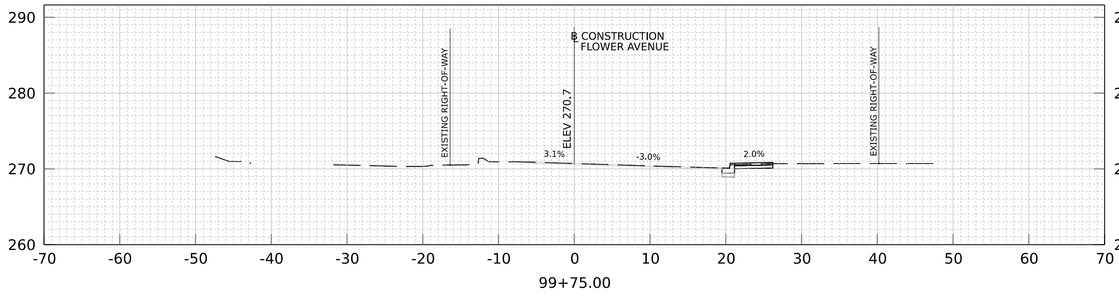

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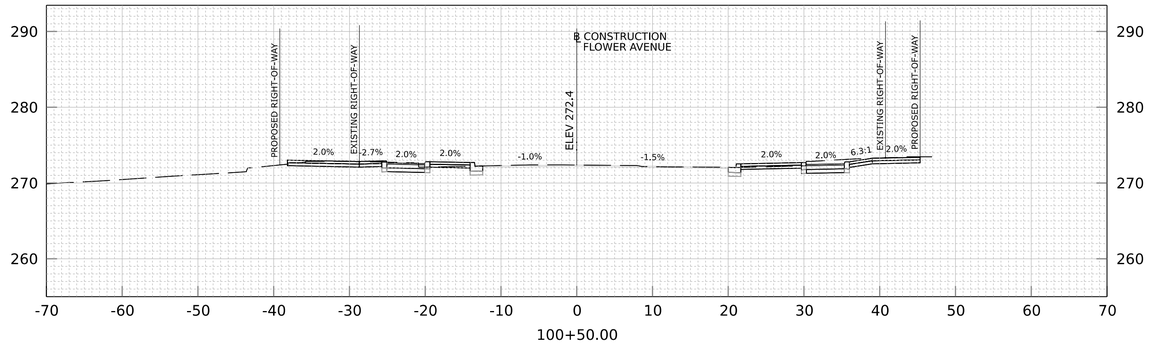

100+50.00

XS-01

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 79 of 87

PROFESSIONAL CERTIFICATION:
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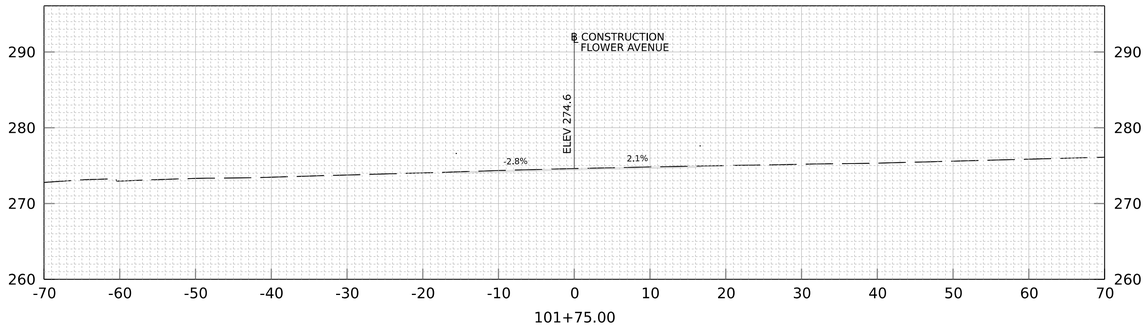
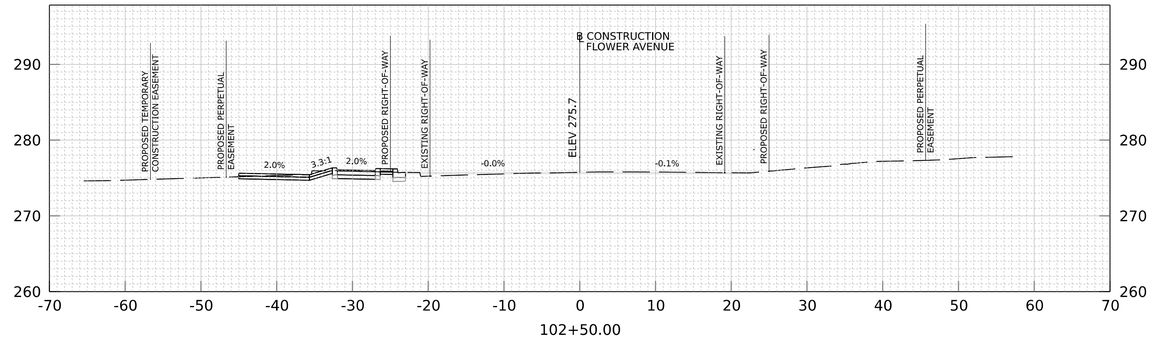
\\US0527-PPFSS01\shared_projects\202621316\700 CADD\700 Sheet\pHC-X001_FlowerAve.dgn



101+75.00



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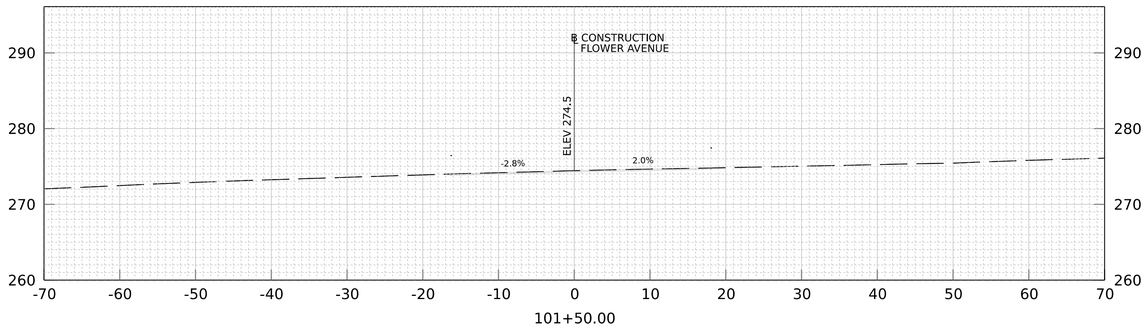
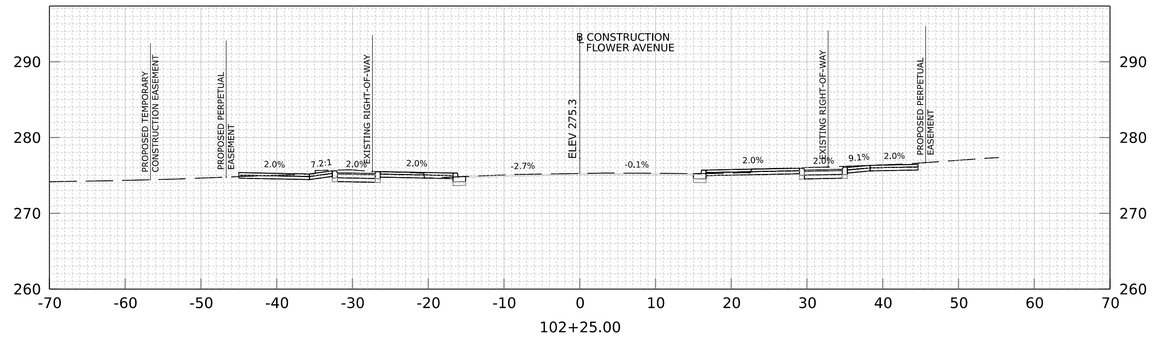


101+50.00



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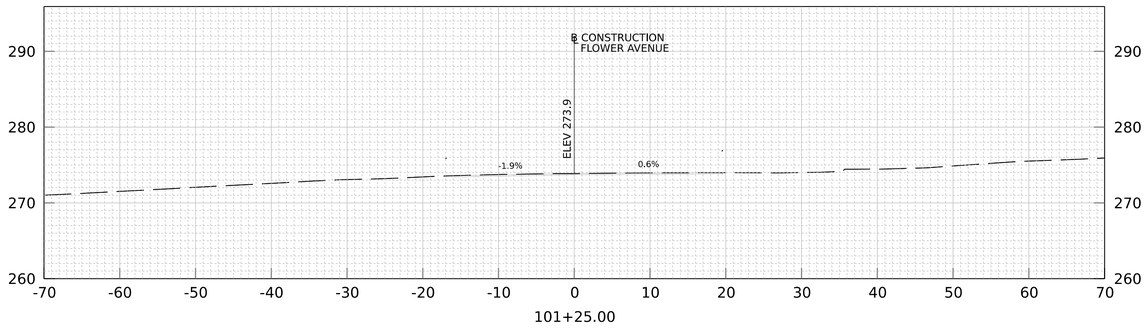
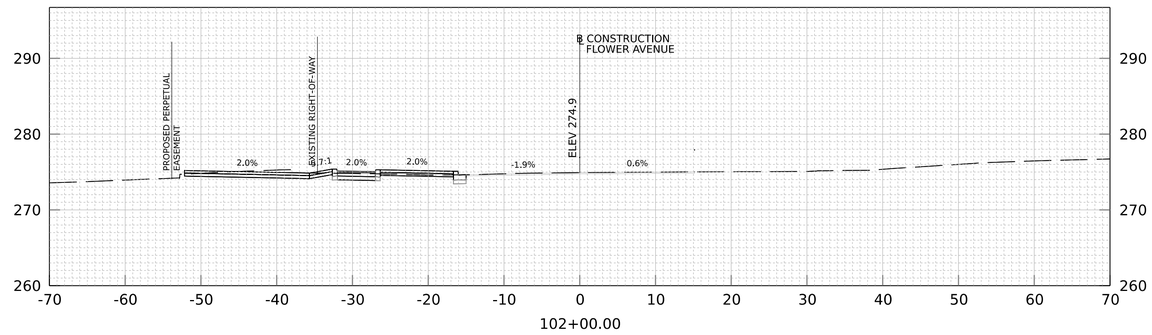


101+25.00



102+00.00

XS-02

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 80 of 87

PROFESSIONAL CERTIFICATION:
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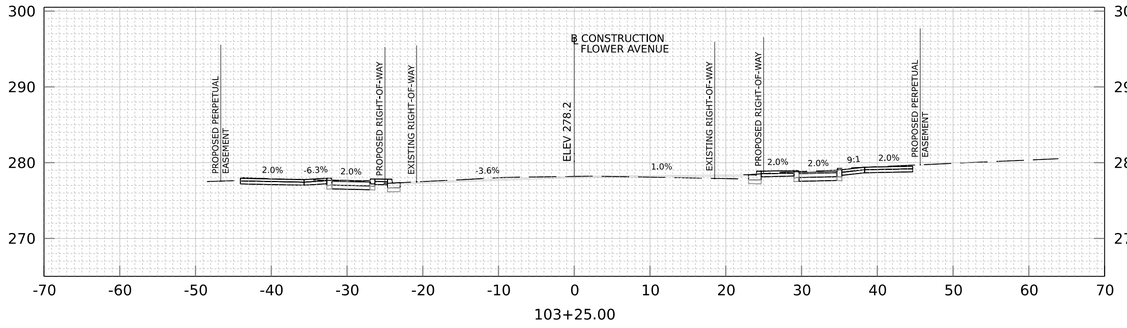

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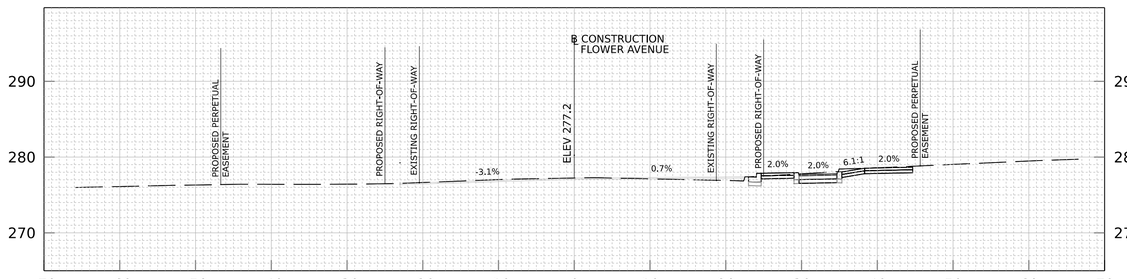

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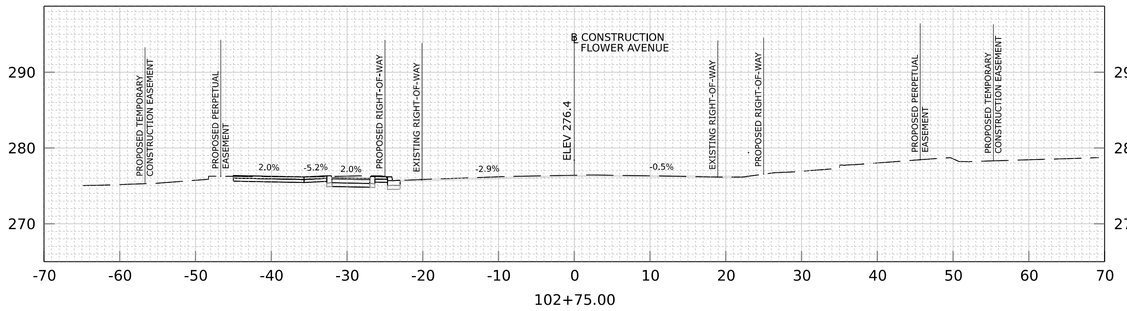

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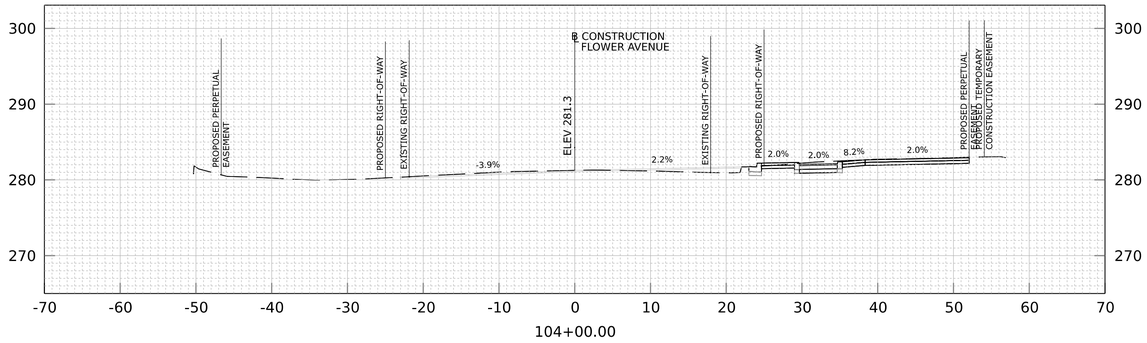

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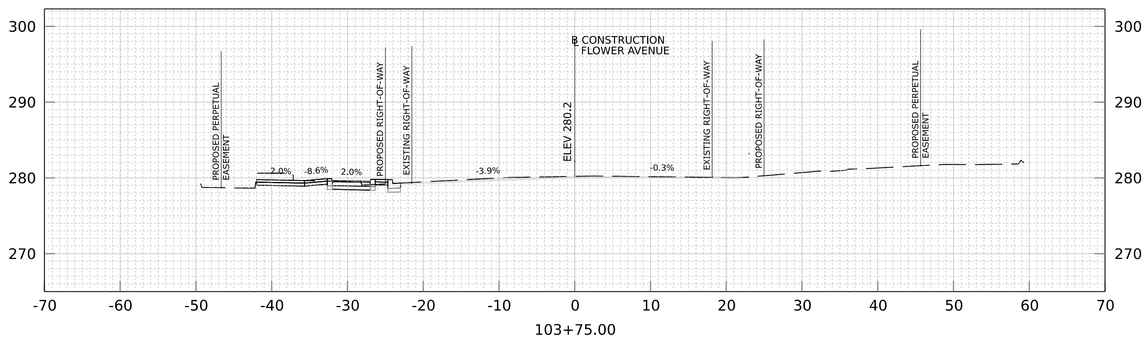
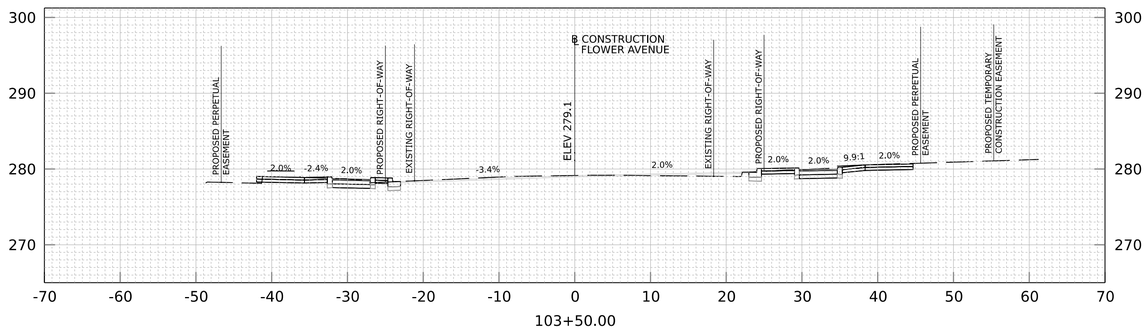


103+75.00



103+50.00

XS-03

10' 0 10' 20'

SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
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RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 81 of 87

PROFESSIONAL CERTIFICATION:
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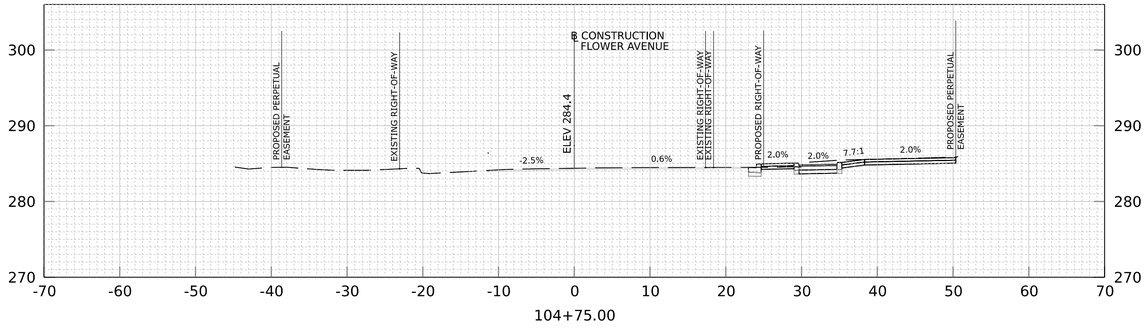

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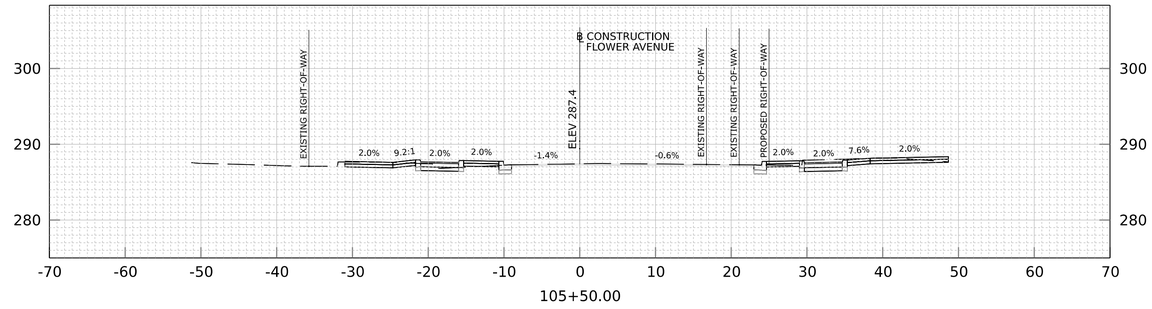
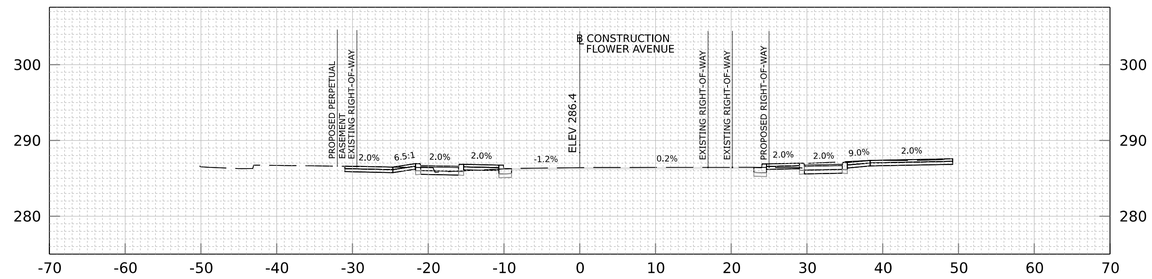


105+50.00

104+50.00



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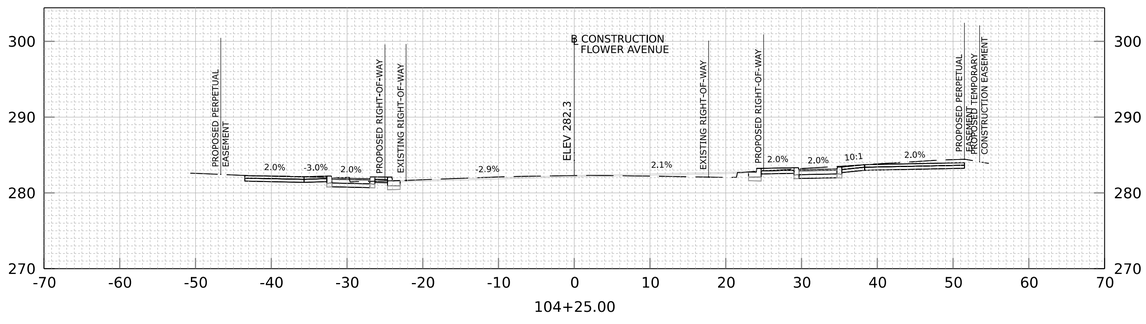

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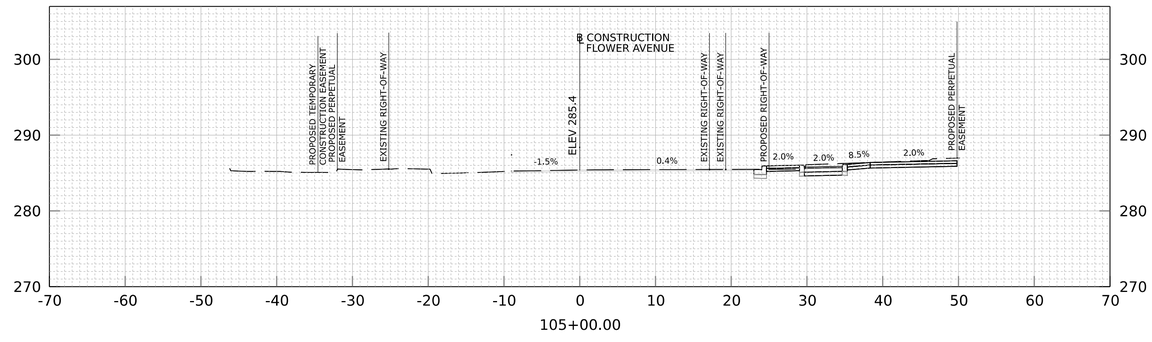

105+00.00

XS-04

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
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CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 82 of 87

PROFESSIONAL CERTIFICATION:
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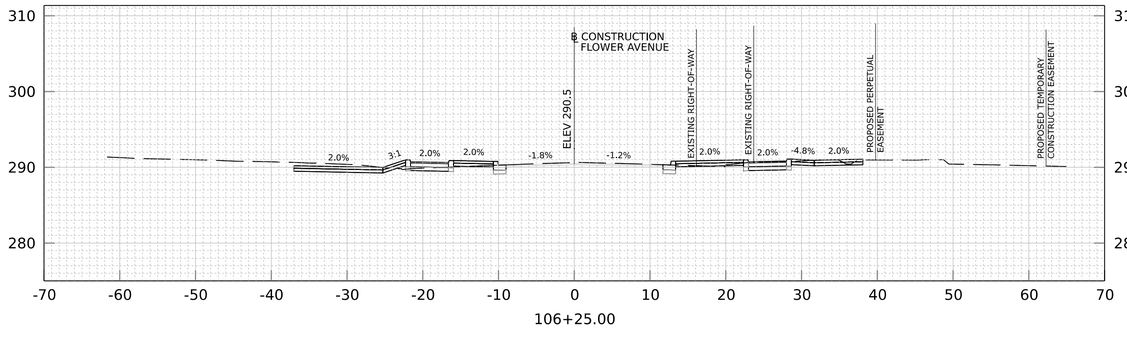

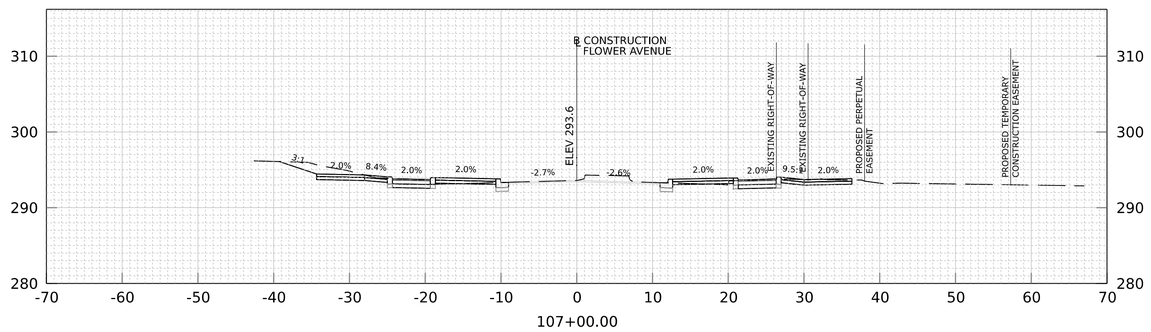

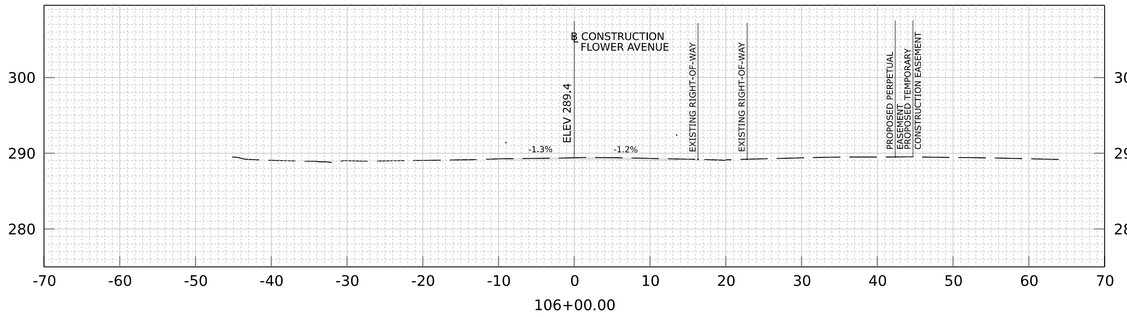

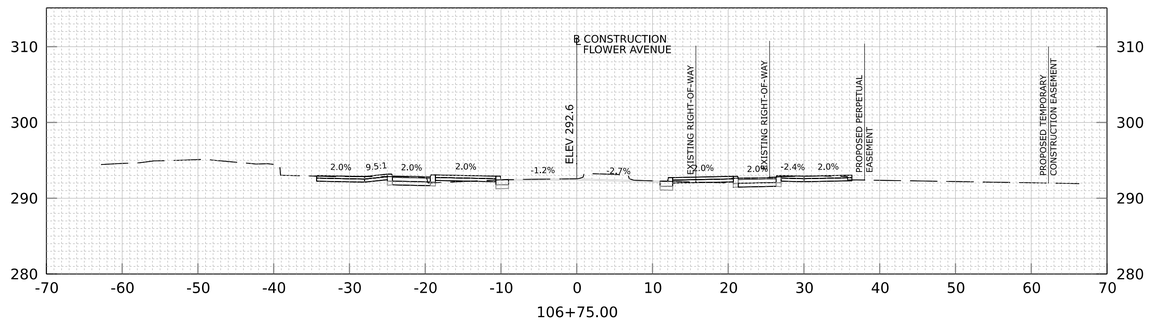

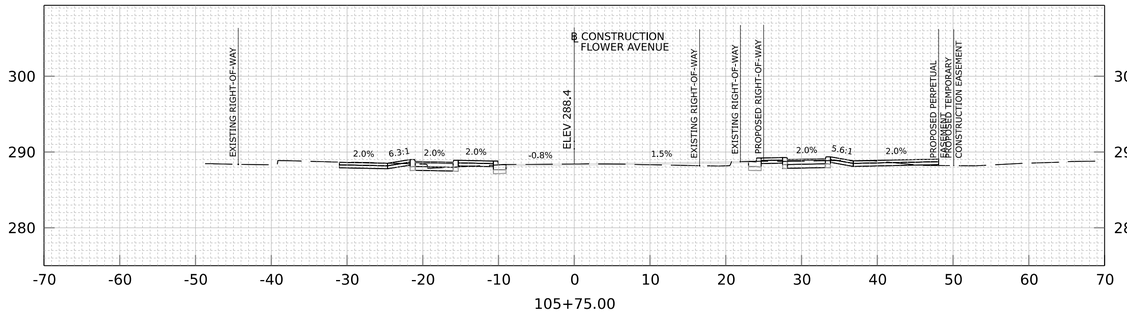

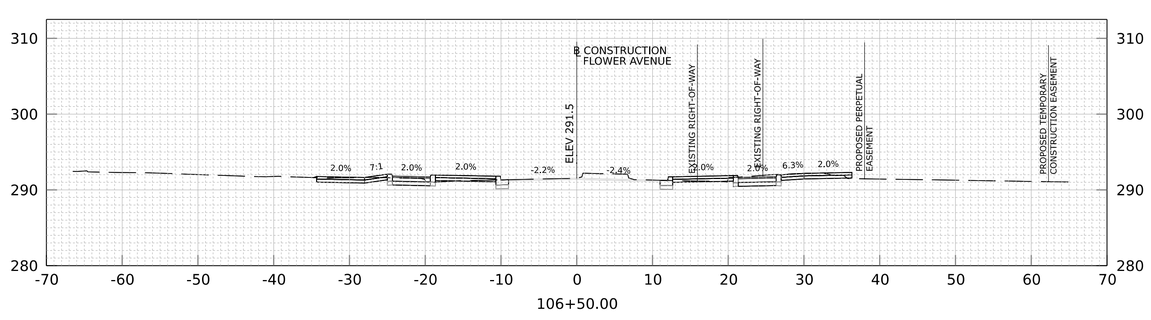

XS-05

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
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DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 83 of 87

PROFESSIONAL CERTIFICATION:
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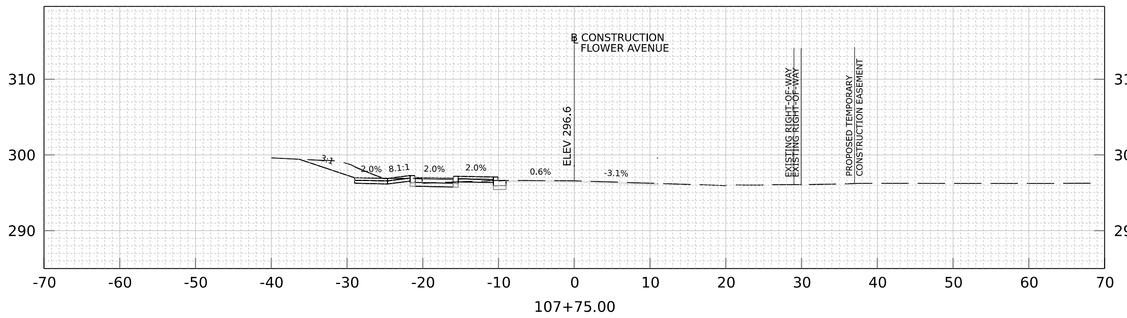

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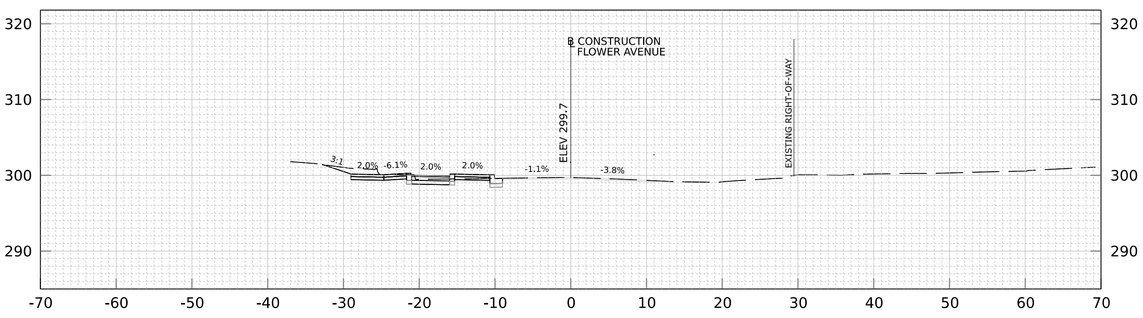

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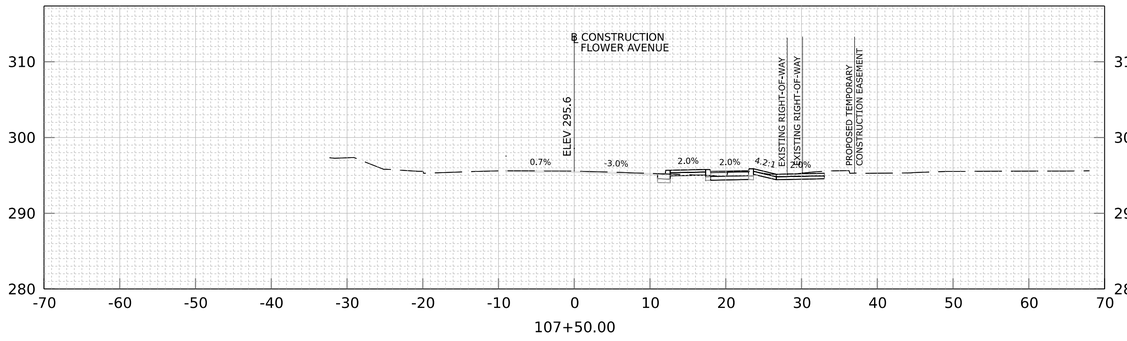

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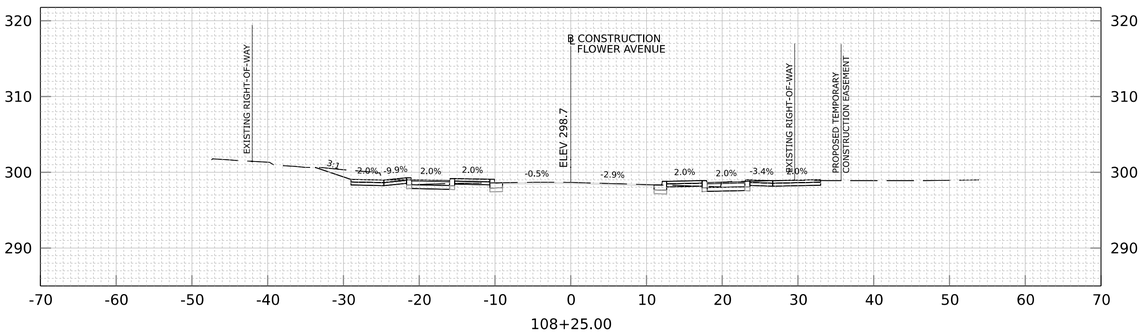

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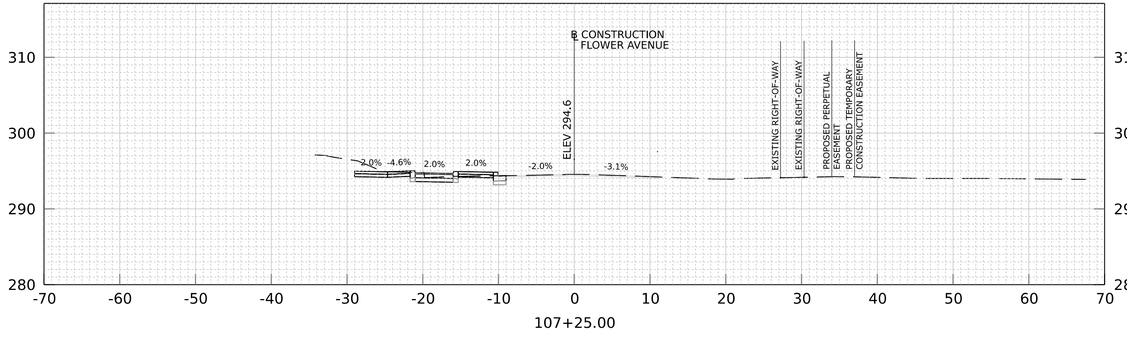

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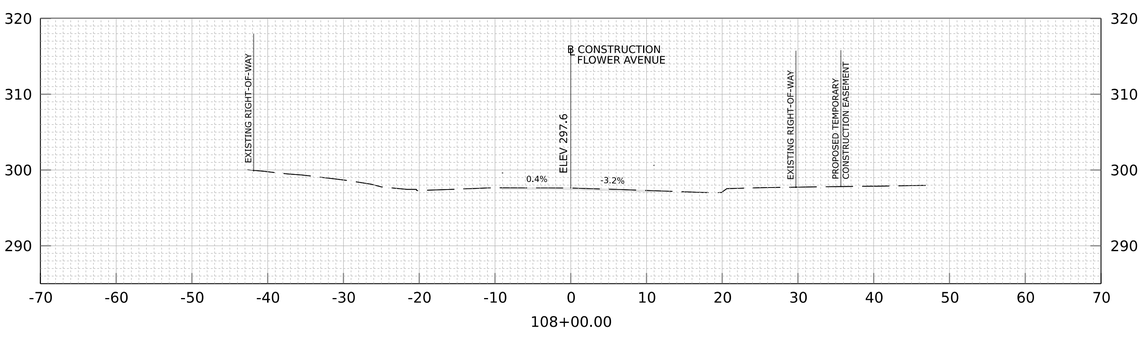

108+00.00

XS-06

10' 0 10' 20'
SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
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DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief,
Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 84 of 87

PROFESSIONAL CERTIFICATION:
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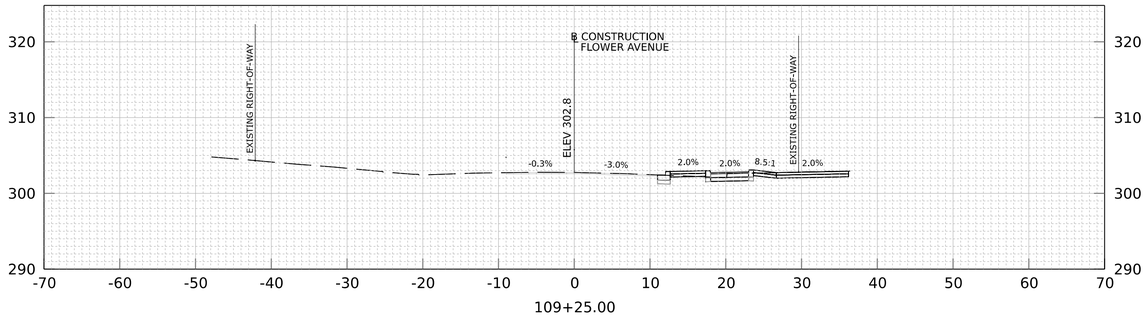
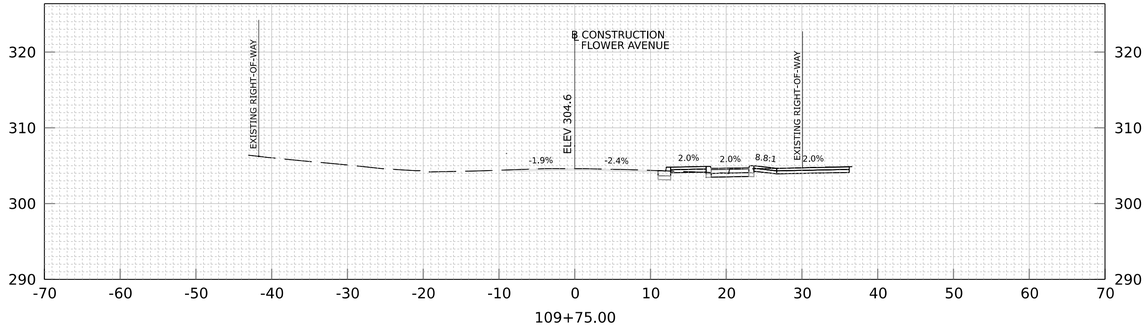


109+25.00

110+00.00

109+00.00



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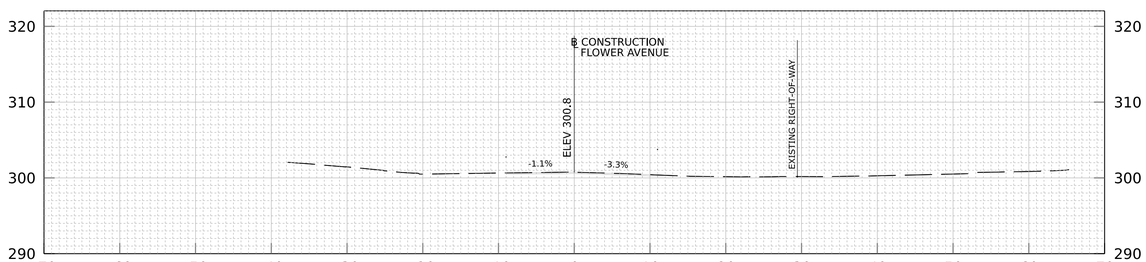

108+75.00

109+50.00

XS-07

10' 0 10' 20'
SCALE: 1" = 10'

PROFESSIONAL CERTIFICATION:
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BiPPA Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 85 of 87

2/26/2025
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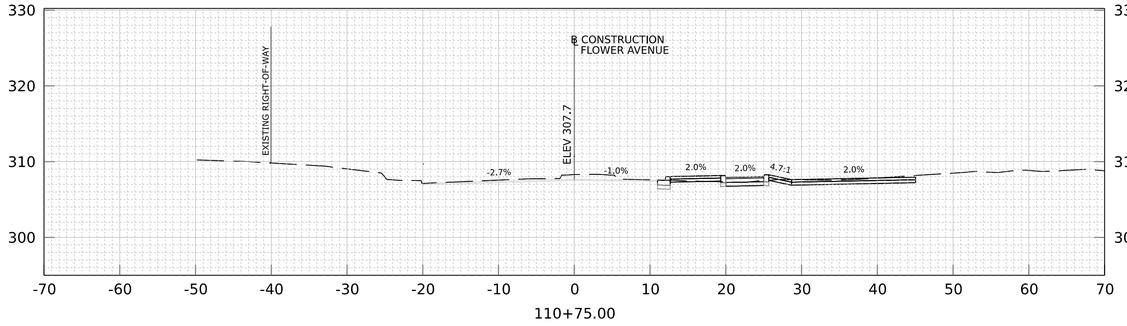
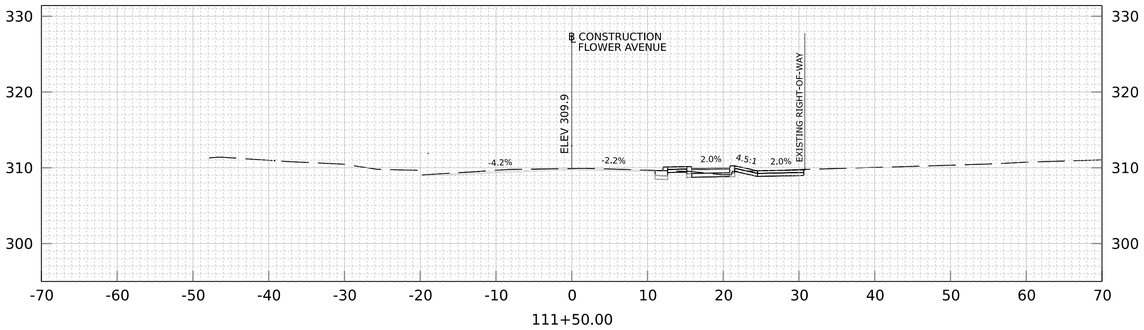


110+75.00



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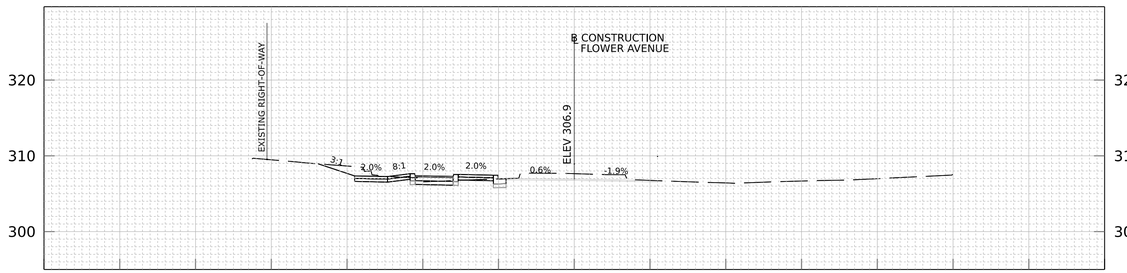
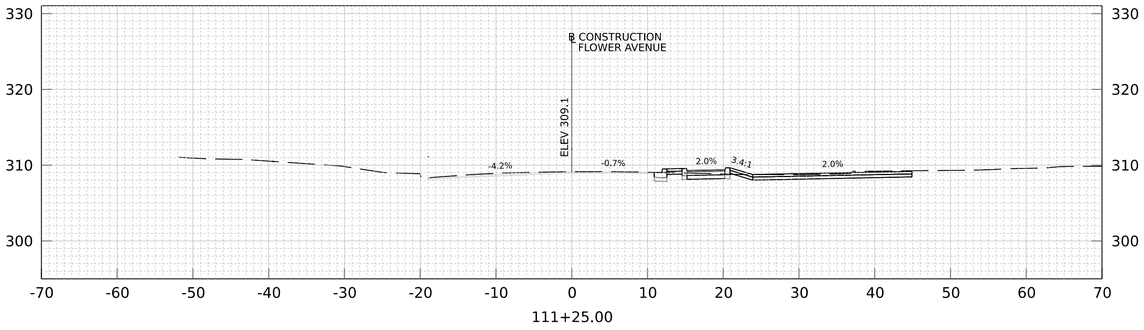
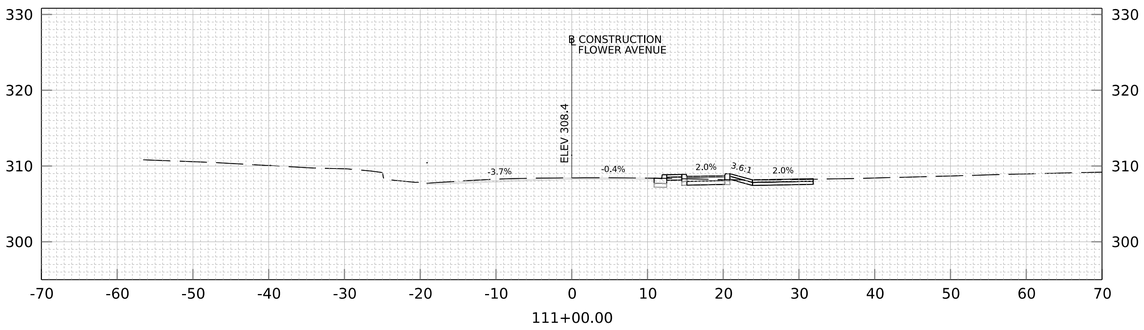


110+50.00



111+25.00

110+25.00



111+00.00

XS-08

10' 0 10' 20'

SCALE: 1" = 10'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: FEBRUARY, 2025
DRAWN BY: UMK	DATE: FEBRUARY, 2025
CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 86 of 87

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.
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BiPPA Bicycle and Pedestrian Priority Areas

2/26/2025
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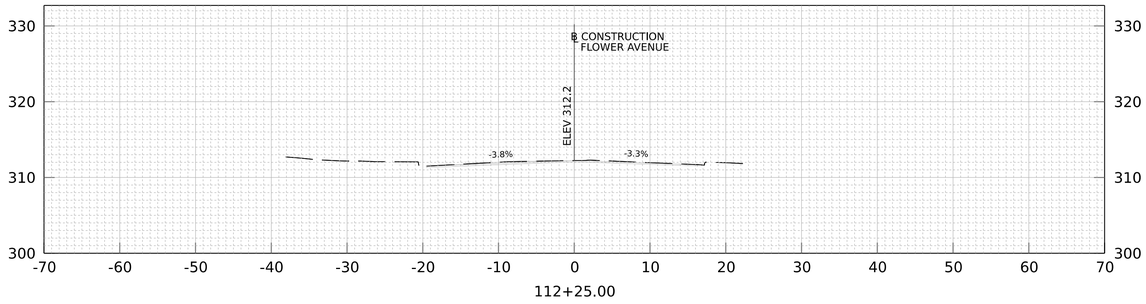

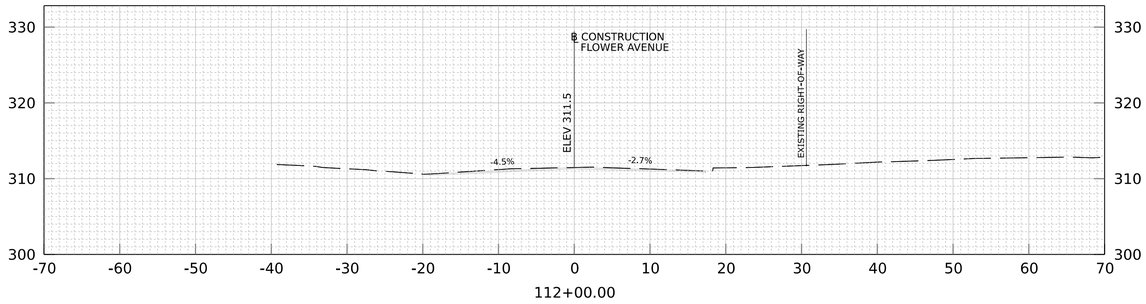

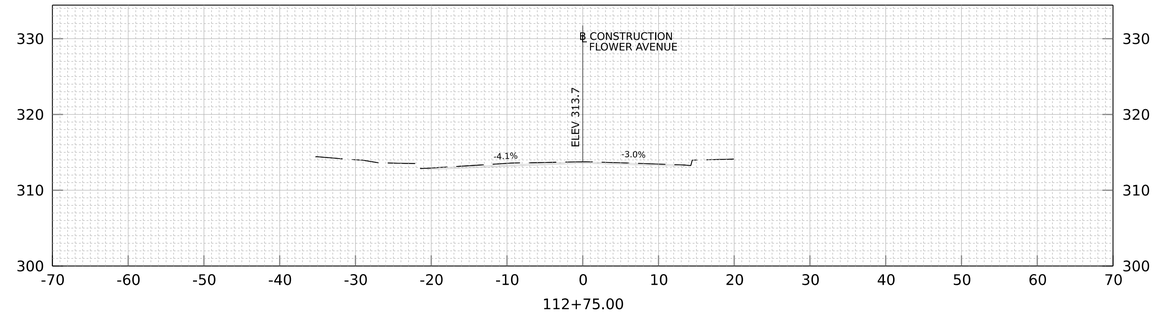

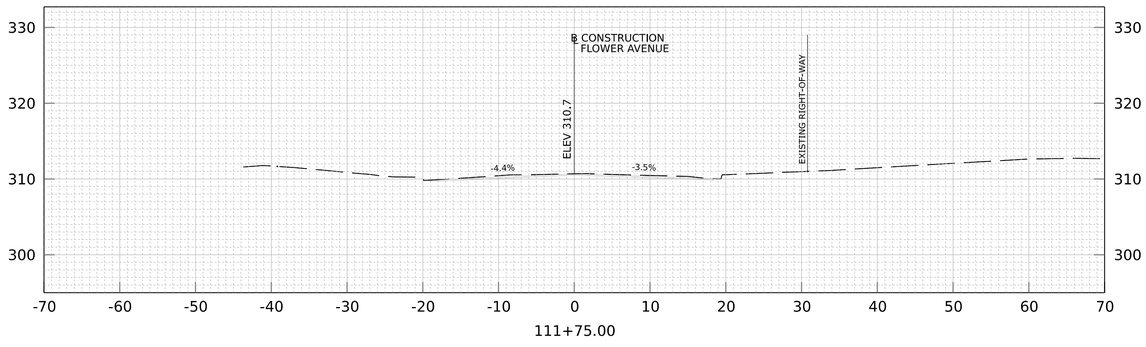

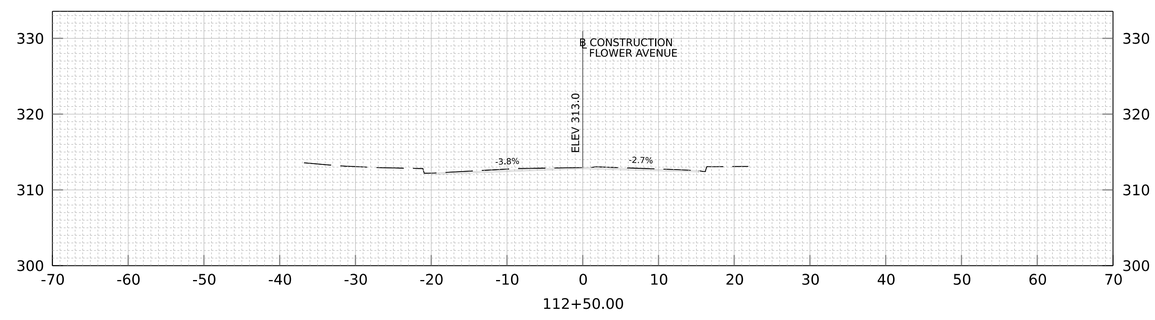

XS-09

10' 0 10' 20'
SCALE: 1" = 10'

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BiPPA Bicycle and Pedestrian Priority Areas

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CHECKED BY: CC	DATE: FEBRUARY, 2025
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Design Section Date

APPROVED

_____ _____
Chief,
Division of Transportation Engineering Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE
SEPARATED BIKE LANES
ROADWAY CROSS SECTIONS

SCALE: 1"=20'

SHEET 87 of 87

2/26/2025
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