

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION CAPITAL CRESCENT SURFACE TRAIL PHASE 2

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION MAINTENANCE CERTIFICATION

I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE FOR SUCH IMPROVEMENTS.

DATE _____ JOSE THOMMANA
ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

OWNER'S/DEVELOPER'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 _____ JOSE THOMMANA
ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "DRAINAGE DESIGN CRITERIA," DATED NOVEMBER 2013, REVISED JUNE 2014.

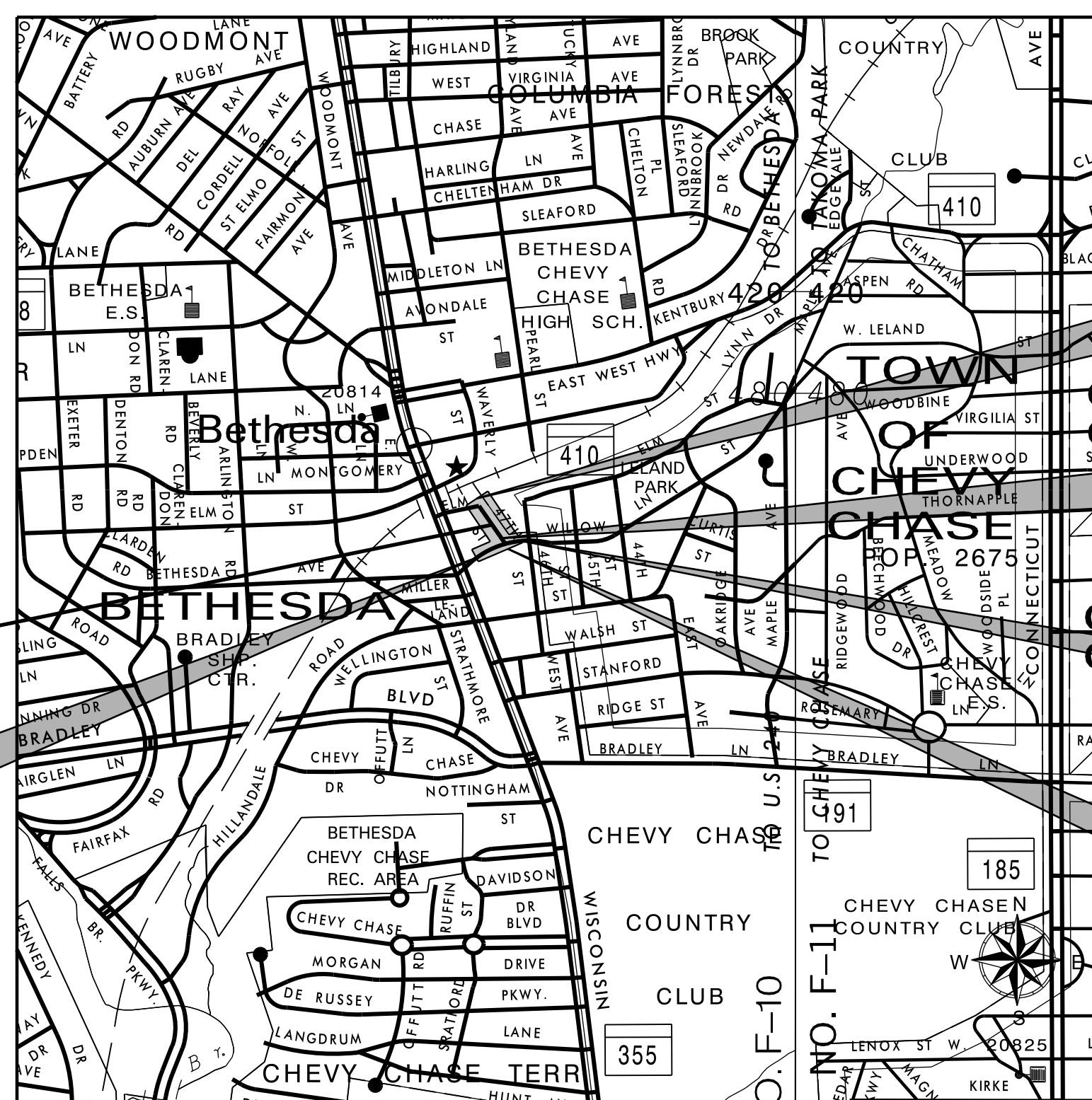
DATE _____ ANDREW CONKLIN, P.E.
MD. REGISTRATION NO. 43077

CERTIFICATION OF QUANTITIES

I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE X,XXX CUBIC YARDS OF EXCAVATION AND XXX CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE A MAXIMUM OF XX,XXX SQUARE FEET OR X.XX ACRES.

DATE _____ ANDREW CONKLIN, P.E.
MD. REGISTRATION NO. 43077

C. I. P. PROJECT 501307



PROJECT LENGTH = 0.06 MILES MONTGOMERY COUNTY

VICINITY MAP
SCALE: 1" = 1000'

ELM STREET / 47TH STREET DESIGN DATA	
DESIGN SPEED:	25 M.P.H.
2016 AADT:	1,200
FUNCTIONAL CLASSIFICATION:	LOCAL ROAD

- LIMIT OF WORK
47TH STREET
STA. 53+80.00
- LIMIT OF WORK
47TH STREET
STA. 50+00.00
- LIMIT OF WORK
WILLOW LANE
STA. 43+94.00
- LIMIT OF WORK
FARM WOMEN'S
MARKET
STA. 60+57.50

PROJECT LOCATION
LIMIT OF WORK
WILLOW LANE
STA. 41+99.00

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT.					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS FLOODPLAIN DISTRICT		X			
WATERWAYS(WETLAND(S))		X			
A. CORPS OF ENGINEERS		X			
B. MDE		X			
C. MDE WATER QUALITY CERTIFICATION		X			
MDE DAM SAFETY		X			
*DPS ROADSIDE TREES PROTECTION PLAN		X**		APPROVAL DATE	
N.P.D.E.S. NOTICE OF INTENT		X			DATE FILED
FEMA LOMR (REQUIRED POST CONSTRUCTION)		X			
M-NCPPC NRI-FSD	X				
DPS STORMWATER MANAGEMENT CONCEPT PLAN	X		SM FILE #: 285844	APPROVAL DATE: March 11, 2020	RECONFIRMATION DATE
DPS SEDIMENT CONTROL PLAN	X		SC PERMIT #:	APPROVAL DATE	APPROVED REVISION DATE

* A COPY OF THE APPROVED ROADSIDE TREES PROTECTION PLAN MUST BE DELIVERED TO THE SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING.
 ** THIS PROJECT FALLS UNDER THE ROADSIDE TREE CARE BLANKET PERMIT FOR MONTGOMERY COUNTY
 *** DEPARTMENT OF TRANSPORTATION'S DIVISION OF HIGHWAY SERVICES, TREE MAINTENANCE SECTION.
 TREE PROTECTION IS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. LEGEND INCLUDED.

GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2023, AND REVISIONS THEREOF OR ADDITIONS THERETO, THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION'S BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND. SEE SHEET 3 FOR A FULL LIST OF MDOT SHA PROJECT STANDARDS.
2. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88.
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. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
6. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
7. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
8. 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.
9. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF W.S.S.C. CALL 301-206-9772
10. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
11. PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".
12. THE CONTRACTOR SHALL OBTAIN CERTIFIED AS-BUILTS, SIGNATURES, AND INITIALS FOR ALL INSPECTION CHECK-OFF LISTS PROVIDED BY THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES.

APPROVALS		
TRAFFIC CONTROL PLANS	SIGNATURE _____	DATE _____
LIGHTING PLANS	SIGNATURE _____	DATE _____
SIGNING & PAVEMENT MARKINGS	SIGNATURE _____	DATE _____

TREE CANOPY REQUIREMENTS TABLE	
EXEMPT: YES_NO_X_IF EXEMPT UNDER SECTION 55-5 OF THE CODE, PLEASE LIST THE APPLICABLE EXEMPTION CATEGORY BELOW THIS TABLE.	
TOTAL PROPERTY AREA	TOTAL DISTURBED AREA
xx,xxx SQUARE FEET	xx,xxx SQUARE FEET
SHADE TREES REQUIRED	SHADE TREES PROPOSED TO BE PLANTED
	9
FEE IN LIEU (TREES REQUIRED - TREES PROPOSED) X \$250	
REQUIRED NUMBER OF SHADE TREES	
AREA (SQ. FT.) OF THE LIMITS OF DISTURBANCE	NUMBER OF SHADE TREES REQUIRED
FROM TO	
1 6,000	3
6,001 8,000	6
8,001 12,000	9
12,001 14,000	12
14,001 40,000	15
IF THE SQUARE FOOTAGE OF THE LIMITS OF DISTURBANCE IS MORE THAN 40,000, THEN THE NUMBER OF SHADE TREES REQUIRED MUST BE CALCULATED USING THE FOLLOWING FORMULA:	
(NUMBER OF SQUARE FEET IN LIMITS OF DISTURBANCE / 40,000) X 15	
EXEMPTION CATEGORIES	
55-5(a) any activity that is subject to Article II of Chapter 22A. 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A. 55-5(f) any activity conducted by the County Parks Department 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including	existing access road, if the person performing the maintenance has obtained all required permits; 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits; 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; OTHER: Specify per Section 55-5 of the Code.

MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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: _____



OWNER/CONTACT/ADDRESS
 MR. KEVIN MINN
 MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878
 240-777-7228

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date _____
APPROVED	
Chief, Division of Transportation Engineering	Date _____
Designed by: <u>DTB</u>	Drawn by: <u>DTB</u>
Checked by: <u>JAG</u>	

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
STORMWATER MANAGEMENT FULL WAIVER	SEDIMENT CONTROL TECHNICAL REQUIREMENTS	ADMINISTRATIVE REQUIREMENTS
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
285844 S.M. FILE NO.		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.

TITLE SHEET	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : N/A	MAY 2024
Project No. : <u>501307</u>	SHEET <u>1</u> of <u>36</u>

INDEX OF SHEETS - PHASE 2

SHEET NO.	SC/SWM NO.	DRAWING DESCRIPTION
1	1	TITLE SHEET
2		INDEX OF SHEETS
3		LEGEND AND ABBREVIATIONS
4		GEOMETRY SHEET
5		TYPICAL SECTIONS
6		TYPICAL SECTIONS
7		TRAIL AND ROADWAY PLAN
8		GRADING PLAN
9		HARDSCAPE DETAILS -1
10		HARDSCAPE DETAILS -2
11		MAINTENANCE OF TRAFFIC GENERAL NOTES
12		MAINTENANCE OF TRAFFIC - PHASE 1
13		MAINTENANCE OF TRAFFIC - PHASE 2
14		MAINTENANCE OF TRAFFIC - PHASE 3
15		MAINTENANCE OF TRAFFIC - PHASE 4
16		MAINTENANCE OF TRAFFIC - PHASE 5
17	2	MCDPS SC/SWM SHEET
18		SIGNING GENERAL NOTES
19		SIGNING AND PAVEMENT MARKING LEGEND AND SIGN LOCATION TABLE
20		PAVEMENT MARKING DETAILS
21		SIGNING AND PAVEMENT MARKING PLAN
22		LIGHTING PLAN
23		LIGHTING PLAN
24		LIGHTING PLAN
25		LIGHTING PLAN
26		LIGHTING PLAN
27		LIGHTING PLAN
28		LIGHTING PLAN
29		TREE PROTECTION PLAN
30		LANDSCAPE PLAN
31		TREE PROTECTION AND LANDSCAPE NOTES AND TABLES
32		TREE PROTECTION DETAILS AND NOTES
33		CROSS SECTIONS - WILLOW LANE STA. 42+00 TO STA. 43+50
34		CROSS SECTIONS - WILLOW LANE STA. 43+90
35		CROSS SECTIONS - 47TH STREET STA. 50+04 TO STA. 52+00
36		CROSS SECTIONS - 47TH STREET STA. 52+50 TO STA. 53+50

INDEX OF SHEETS FOR WSSC RELOCATION PLANS

WSSC SHEET NO.	DRAWING DESCRIPTION
1	TITLE SHEET, LOCATION, & VICINITY MAPS
2	GENERAL NOTES & STAKEOUT DATA
3	WATER MAIN RELOCATION PLAN & PROFILE

N:\31951-018\CAD\CC Surface Trail\plan-0401_31951018_Phase 2.dgn 5/2/2024 8:09 AM

IN-01

PROFESSIONAL CERTIFICATION.
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: DTB Drawn by: DTB Checked by: AC

INDEX OF SHEETS

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE MAY 2024

Project No. : 501307 SHEET 2 of 36

MARYLAND STANDARD NOTES

1. THE FOLLOWING MARYLAND STANDARD DETAILS ARE REQUIRED FOR THIS PROJECT:

- MD 104.01-28 STAGED ROADWAY CONSTRUCTION
- MD 104.01-30A CHANNELIZATION DEVICE USAGE EQL/LESS THAN 40 MPH OVER 12 HRS. NIGHTTIME USE
- MD 104.01-30D CHANNELIZATION DEVICE USAGE CRITERIA TABLE
- MD 104.01-86 STEEL PLATE METHOD 2, EQUAL OR LESS THAN 40 MPH
- MD 104.02-10 FLAGGING OPERATION /2-LANE, 2-WAY EQL/ESS THAN 40 MPH
- MD 104.06-18 PAVEMENT EDGE DROP OFF GREATER THAN 5 INCHES WITHOUT AN ADJACENT LANE CLOSURE
- MD 572.61 CONCRETE PAVEMENT LONGITUDINAL TIE DEVICES
- MD 580.02 NEW OR REPLACEMENT CONCRETE BUS PADS
- MD 580.03 NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
- MD 580.08 DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
- MD 620.02 STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
- MD 620.02-1 STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
- MD 620.02.03 DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
- MD 655.11 SIDEWALK RAMPS PERPENDICULAR
- MD 655.40 DETECTABLE WARNING SURFACES
- MD 813.08 SIGN BANDING DETAIL
- MD 802.04 BREAKAWAY TUBULAR STEEL SIGN SUPPORTS

2. FOR ALL STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOKS OF STANDARDS CAN BE ACCESSED AT:

HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHABIZSTDSSPECSDESMANUALSTDPUBPUBLICATIONSONLINE/OHDBOOKSTINDEX.ASP

3. ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCE STANDARD AT THE TIME OF CONSTRUCTION.

LEGEND

- | | | | |
|--|-----------------------------------|--|---|
| | TELEPHONE MANHOLE | | PROPOSED FENCE |
| | WATER METER | | EXISTING CHAINLINK FENCE |
| | WATER VALVE | | PROPOSED HANDRAIL |
| | SANITARY SEWER MANHOLE | | INDEX CONTOUR |
| | STORM DRAIN MANHOLE | | INTERVAL CONTOUR |
| | GAS VALVE | | TOP OF CUT |
| | SIGN | | TOE OF FILL |
| | LIGHT POLE | | EXISTING RIGHT OF WAY LINE |
| | UTILITY POLE | | LIMIT OF DISTURBANCE |
| | FIRE HYDRANT | | TEMPORARY CONSTRUCTION EASEMENT |
| | PARKING METER | | PERPETUAL EASEMENT |
| | TREE | | EXISTING UTILITY POLE MOUNTED LUMINAIRE TO REMAIN |
| | BORING | | EXISTING UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED |
| | INLET | | PROPOSED UTILITY POLE MOUNTED LED LUMINAIRE |
| | MANHOLE | | EXISTING DECORATIVE LUMINAIRE AND LIGHT POLE |
| | SANITARY SEWER MAIN | | PROPOSED DECORATIVE BETHESDA LED GLOBE LUMINAIRE AND LIGHT POLE |
| | UNDERGROUND FIBER OPTIC | | PROPOSED CONDUIT |
| | UNDERGROUND TELEPHONE | | PROPOSED GROUND ROD |
| | WATER MAIN | | PROPOSED PEPCO APPROVED SECONDARY STREET LIGHT SPLICE BOX (17"x30"x30") 9718-8065 |
| | GAS LINE | | EXISTING JUNCTION BOX |
| | CATV UNDERGROUND CABLE TELEVISION | | |
| | UNDERGROUND ELECTRIC DUCTBANK | | |

ABBREVIATIONS

- | | | |
|---|-------------------------------------|--|
| A.A.S.H.T.O..... American Association of State Highway Transportation Officials | HP..... High Point | P.T..... Point of Tangency |
| APPROX..... Approximate | HMA..... Hot Mix Asphalt | P.V.C..... Point of Vertical Curve |
| B or B/L..... Baseline | HT..... Height | PVC..... Polyvinyl Chloride |
| C.C..... Center of Curve | IN..... Inch | PVI..... Point of Intersection |
| C or C/L..... Centerline | INV..... Invert | R..... Radius |
| C.I.P..... Cast Iron Pipe | L..... Length | RET. WALL..... Retaining Wall |
| C.M.P..... Corrugated Metal Pipe | LANDSC..... Landscaped | RT..... Right |
| C.O..... Cleanout | L.F..... Linear Feet | ROW or R/W..... Right of Way |
| COMB..... Combination | LP..... Low Point | R.C.P..... Reinforced Concrete Pipe |
| CONC..... Concrete | LT..... Left | S..... South |
| CONSTR..... Construction | MAX..... Maximum | SAN..... Sanitary Sewer |
| C.P.P..... Corrugated Polyethylene Pipe | MBT..... Metropolitan Branch Trail | SB..... Southbound |
| D.B.H..... Diameter Breast Height | MC..... Montgomery County | SCH..... Schedule |
| DC..... Degree of Curve | MOD..... Modified | S.D..... Storm Drain |
| D.H.V..... Design Hourly Volume | MIN..... Minimum | S.E..... Super-elevation |
| D.I..... Drop Inlet | N..... North | SF..... Silt Fence |
| DIA..... Diameter | NB..... Northbound | S.F..... Square Feet |
| D.O..... Double Opening | NE..... Northeast | SSD..... Stopping Sight Distance |
| E..... East | NTS..... Not To Scale | SSF..... Super Silt Fence |
| E..... Electric | O.C..... On Center | STA..... Station |
| E..... External Distance | OH..... Overhead | SO..... Station |
| EA..... Each | P.C..... Point of Curvature | SO..... Single Opening |
| E.B..... Eastbound | P.C.C..... Point of Compound Curve | S.Y..... Square Yards |
| EJ..... Expansion Joint | P/C..... Point of Crown | SWM..... Storm Water Management |
| ELEV..... Elevation | P/GE..... Profile Grade Elevation | SW..... Sidewalk |
| E.R.C.P..... Elliptical Reinforced Concrete Pipe | P.G.E..... Profile Ground Elevation | T..... Tangent |
| ES..... End Section | P.G.L..... Profile Grade Line | T..... Telephone |
| EX. or EXIST..... Existing | P/GL..... Profile Ground Line | TCE..... Temporary Construction Easement |
| FT..... Feet | P/R..... Point of Rotation | T.C.P..... Terra Cotta Pipe |
| F or FL..... Flowline | PE..... Perpetual Easement | TYP..... Typical |
| FWD..... Forward | P.I..... Point of Intersection | U.P..... Utility Pole |
| G..... Gas | P.O.B..... Point of Beginning | VAR..... Varies |
| H.E.R.C.P..... Horizontal Elliptical Reinforced Concrete Pipe | P.O.C..... Point on Curve | V.C.L..... Vertical Curve Length |
| | P.O.E..... Point of Ending | W..... Water |
| | P.O.T..... Point on Tangent | W..... West |
| | PROP..... Proposed | WB..... Westbound |
| | PT..... Point | |

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EXPIRATION DATE: _____

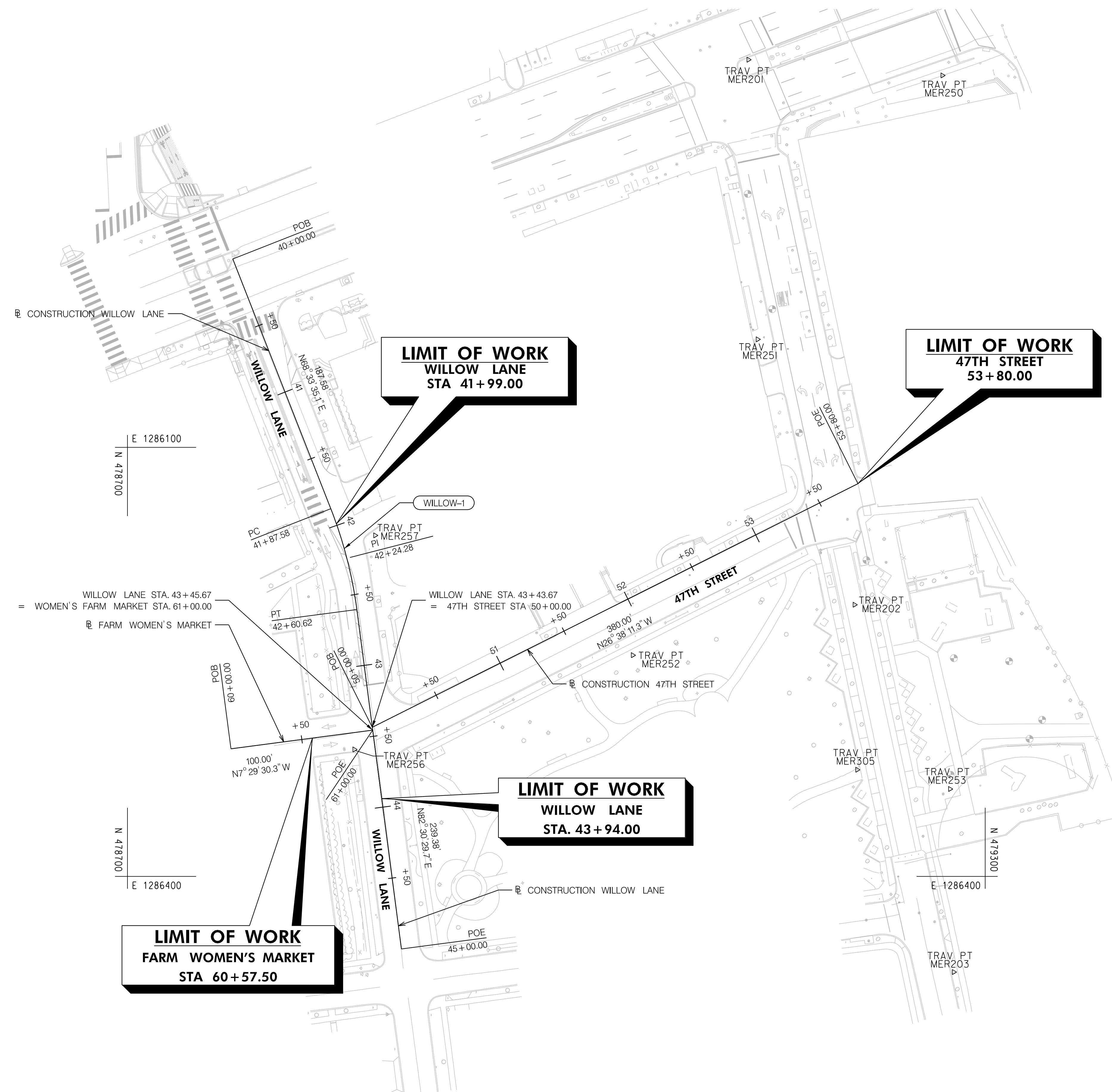
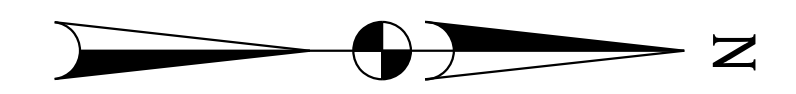


Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: <u>DTB</u>	Drawn by: <u>DTB</u>
Checked by: <u>AC</u>	

LEGEND AND ABBREVIATIONS	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : NONE	MAY 2024
Project No. : <u>501307</u>	SHEET <u>3</u> of <u>36</u>



CONSTRUCTION COORDINATES TABLE				
CONTROL LINE	POINT	STATION	NORTH	EAST
WILLOW LANE	POB	40+00.00	478773.69	1285968.25
	PC	41+87.58	478842.26	1286142.85
	PT	42+60.62	478860.45	1286213.40
	POE	45+00.00	478891.67	1286450.73
47TH STREET	POB	50+00.00	478871.28	1286295.74
	POE	53+80.00	479210.95	1286125.38
FARM WOMEN'S MARKET	POB	60+00.00	478772.40	1286310.77
	POE	61+00.00	478871.54	1286297.73

CURVE DATA								
CURVE NO.	DELTA	Dc	R	T	L	E	CENTER OF CURVE	
							NORTH	EAST
WILLOW-1	13°56'54.6"	19°05'54.9"	300.00'	36.70'	73.03'	2.24	478563.0153	1286252.514

SURVEY CONTROL			
TRAVERSE	ELEVATION	NORTH	EAST
MER200	348.07	479308.4972	1285727.4761
MER201	349.72	479134.3476	1285828.9098
MER202	340.47	479208.5972	1286210.0547
MER203	332.48	479277.9673	1286466.9416
MER250	349.34	479270.0557	1285839.8794
MER251	345.55	479140.7929	1286024.4458
MER252	345.04	479053.4526	1286245.3189
MER253	336.02	479275.3715	1286338.9041
MER304	328.86	479283.3227	1286641.024
MER305	337.39	479210.4102	1286325.439
PN2	341.72	479424.8361	1286134.216
PN3	350.73	479690.3228	1286098.436

70% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

GS-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: _____



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JK Drawn by: JK Checked by: MA

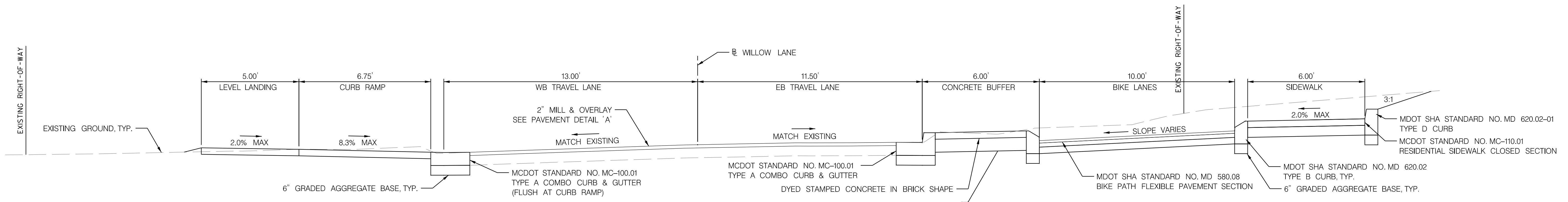
GEOMETRY SHEET

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

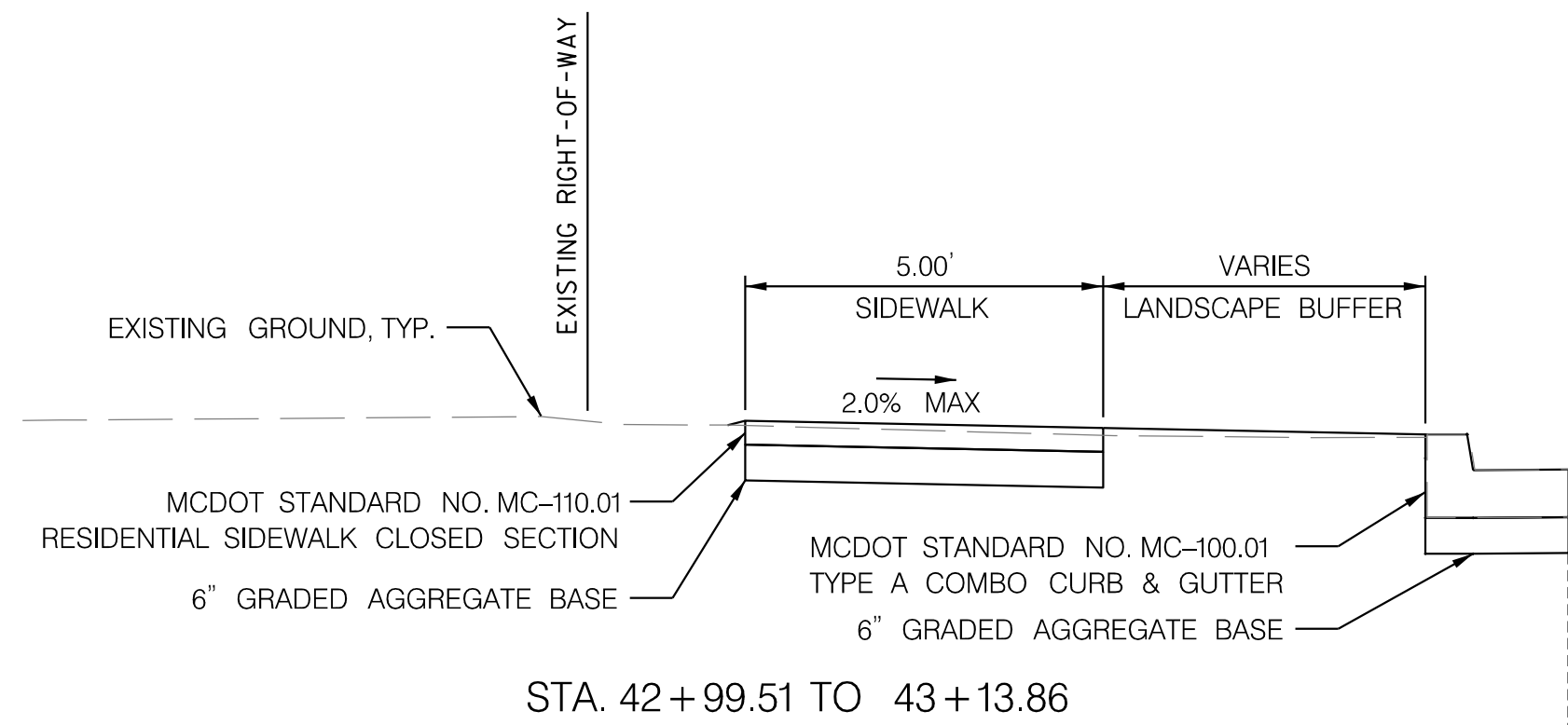
SCALE : 1" = 40'

APRIL 2024

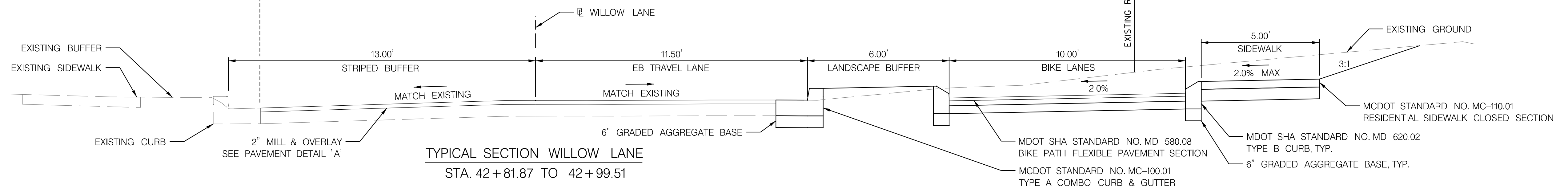
Project No. : 501307 SHEET 4 of 36



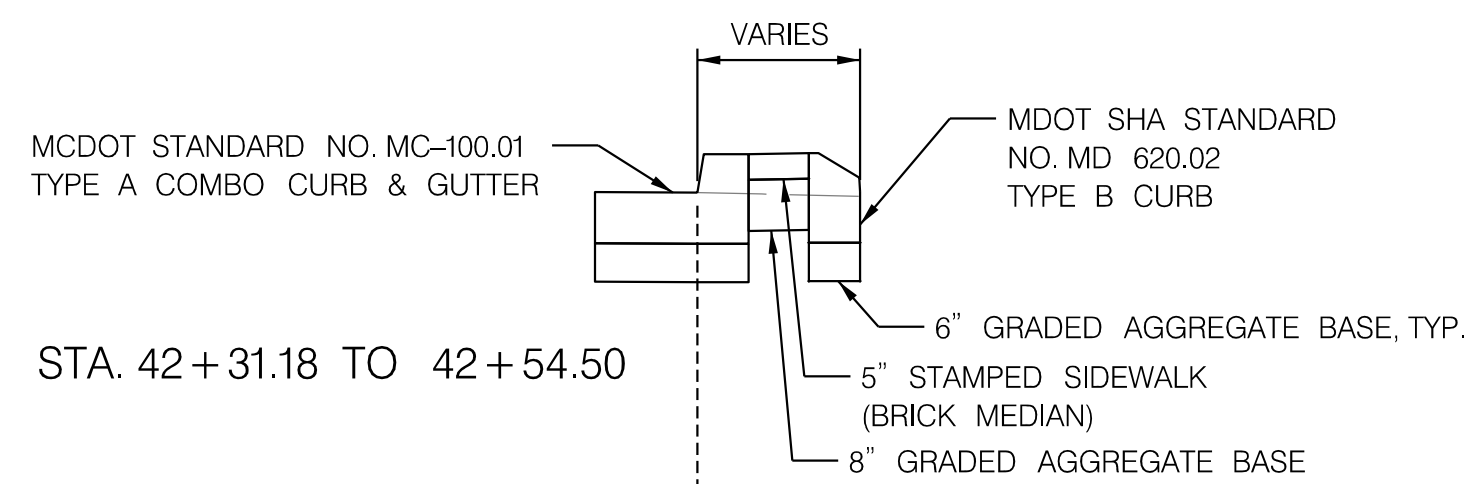
TYPICAL SECTION WILLOW LANE
STA. 43+71.00 TO 43+94.00



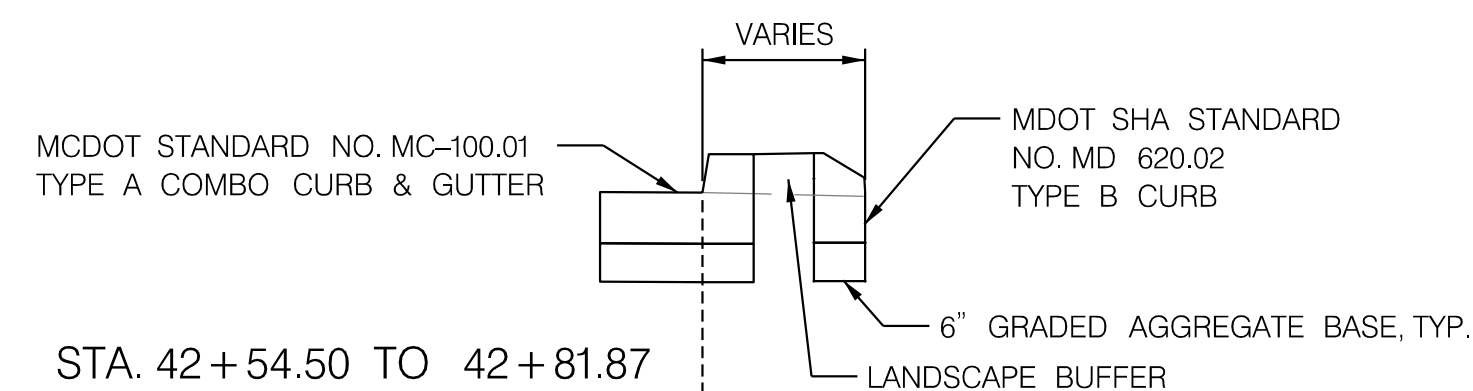
STA. 42+99.51 TO 43+13.86



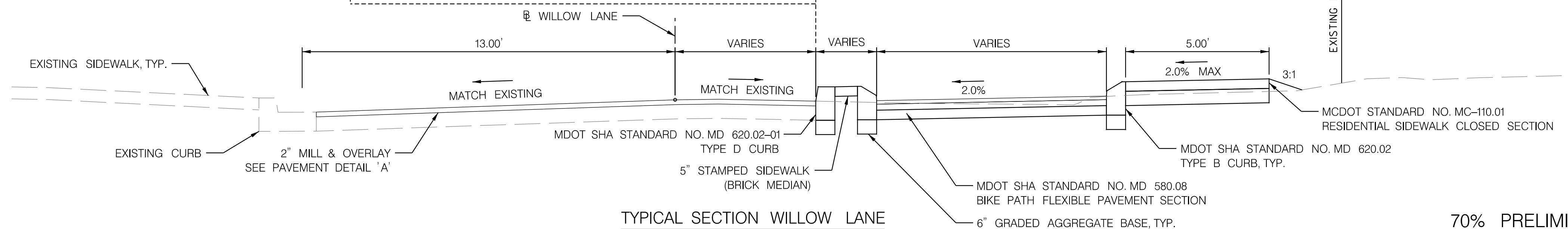
TYPICAL SECTION WILLOW LANE
STA. 42+81.87 TO 42+99.51



STA. 42+31.18 TO 42+54.50



STA. 42+54.50 TO 42+81.87



TYPICAL SECTION WILLOW LANE
STA. 41+99.00 TO 42+31.18

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

TS-01

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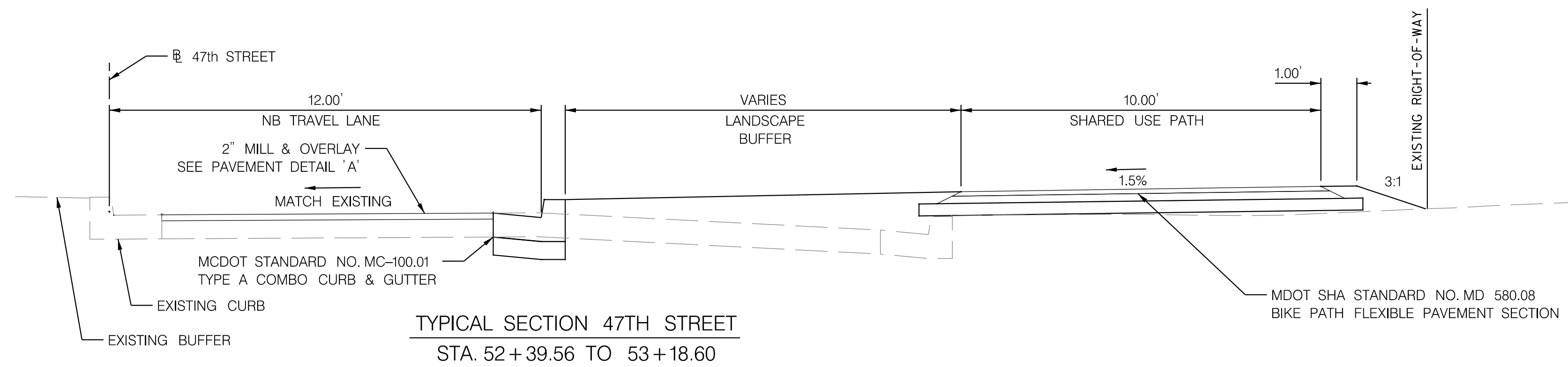
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

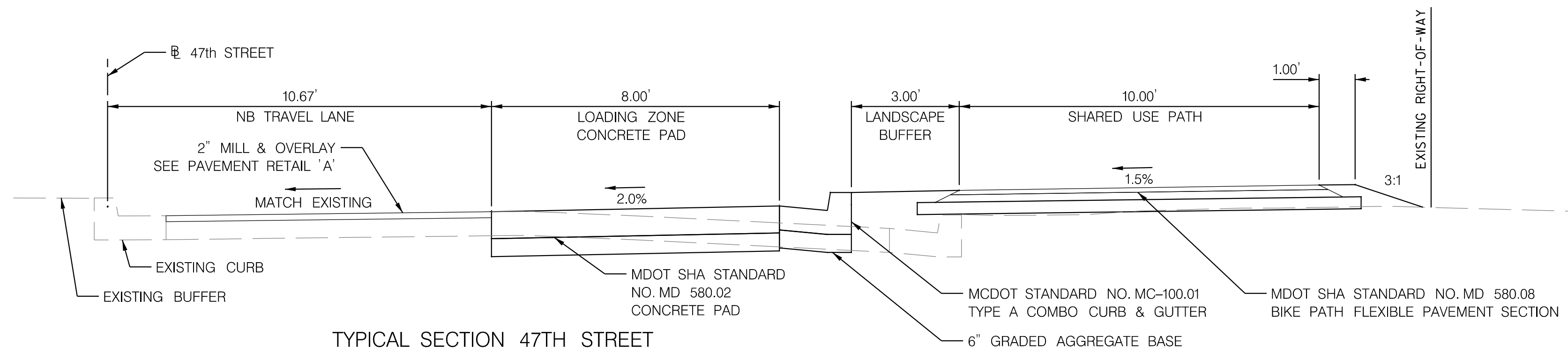
RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section _____ Date _____
APPROVED
Chief, Division of Transportation Engineering _____ Date _____

Designed by: JK Drawn by: JK Checked by: MA

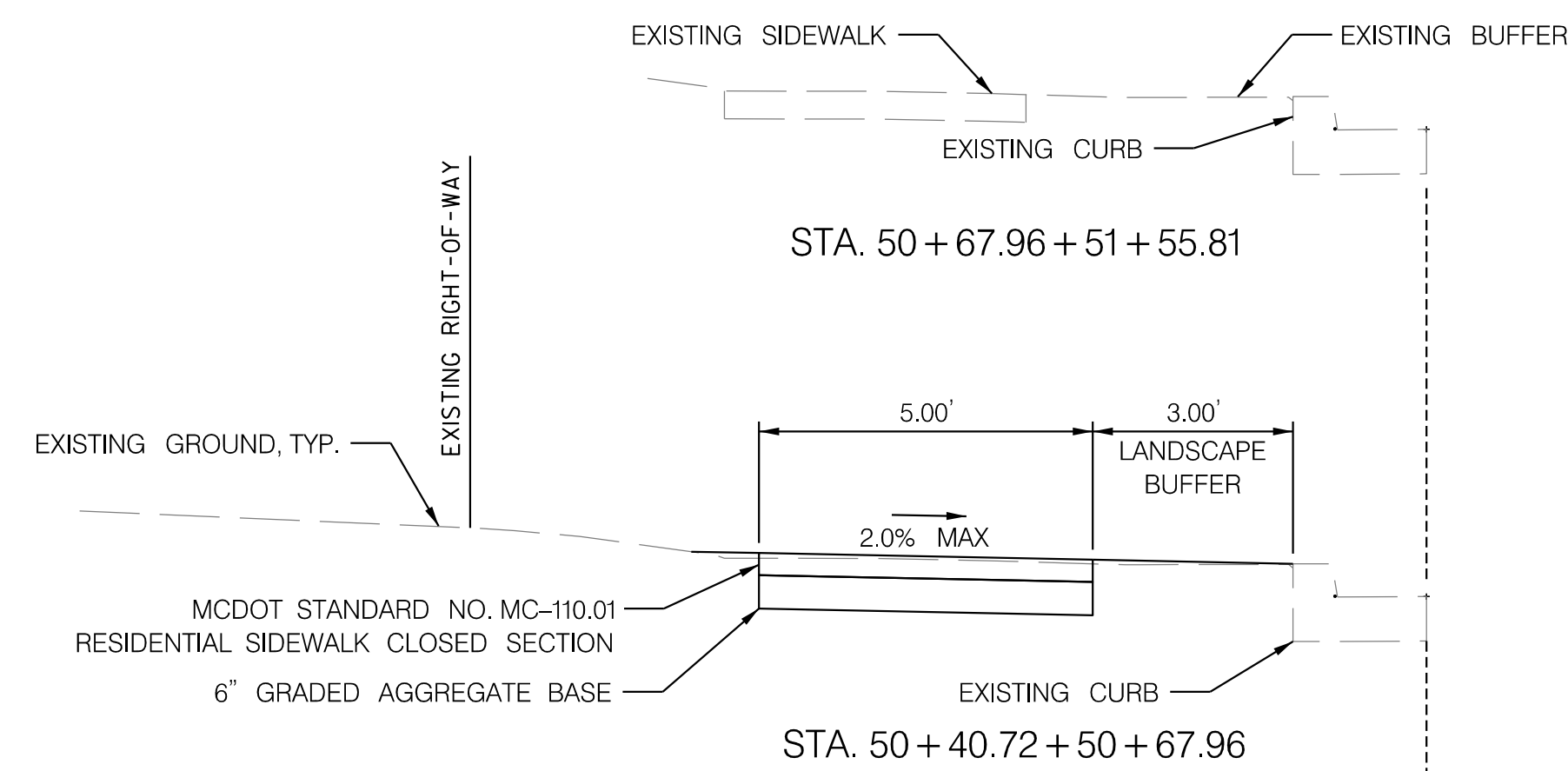
TYPICAL SECTIONS
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND
SCALE : 1"=2.5'
APRIL 2024
Project No. : 501307 SHEET 5 of 36



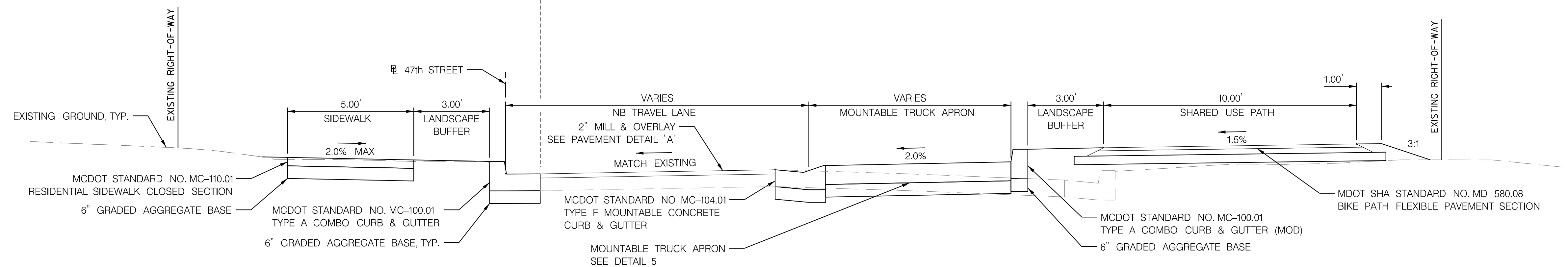
TYPICAL SECTION 47TH STREET
STA. 52+39.56 TO 53+18.60



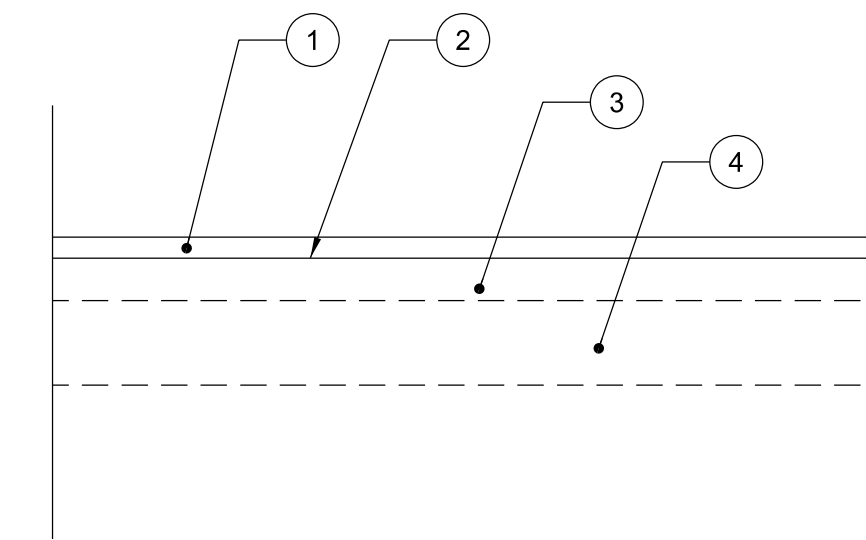
TYPICAL SECTION 47TH STREET
STA. 51+55.81 TO 52+39.56



STA. 50+67.96 + 51+55.81



TYPICAL SECTION 47TH STREET
STA. 50+27.42 TO 50+40.72



PAVEMENT DETAIL 'A'
MILLING AND RESURFACING
N.T.S.

PAVEMENT LEGEND

- ① 2" SUPERPAVE ASPHALT MIX 9.5 MM, FOR SURFACE, PG 64S-22, LEVEL 2 AND SUPERPAVE ASPHALT MIX 9.5MM FOR WEDGE/LEVEL, PG 64S-22, LEVEL 2 (WHERE REQUIRED OR DIRECTED)
- ② TOP OF EXISTING PAVEMENT AND/OR SURFACE AFTER 2" MAX MILLING
- ③ EXISTING PAVEMENT
- ④ EXISTING SUBBASE

NOTES:

- 1) REFER TO MDSHA STANDARD NO. 578.03-01 FOR FULL-DEPTH PATCHES. FULL-DEPTH PATCHES IN FLEXIBLE PAVEMENT SECTIONS (ASPHALT ONLY) REQUIRE REMOVAL OF PAVEMENT MATERIAL TO A MINIMUM DEPTH OF 8" OR MATCH THE EXISTING BOUND PAVEMENT THICKNESS, WHICHEVER IS THICKER. IN CASE OF COMPOSITE PAVEMENT SECTION (ASPHALT OVER CONCRETE) PATCH DEPTH SHALL EXTEND ONLY TO THE TOP OF CONCRETE. USE THE FOLLOWING MIX WITH STANDARDS NO. 578.03 AND 578.03-01:

VARIABLE DEPTH SUPERPAVE ASPHALT MIX 19.0MM, FOR FULL-DEPTH PATCH, PG 64S-22, LEVEL 2
- 2) IF THE UNDERLYING SUB-BASE LAYER IS DETERIORATED AT THE TIME OF FULL-DEPTH PATCH EXCAVATION, IT SHOULD BE REMOVED AND REPLACED WITH 6" GRADED AGGREGATE BASE.
- 3) REFER TO MDSHA STANDARD NO. 578.01 FOR UTILITY TRENCH REPAIRS. USE THE FOLLOWING FOR THE UTILITY PATCH CONSTRUCTION:

8" SUPERPAVE ASPHALT MIX 19.0MM, FOR FULL-DEPTH PATCH, PG 64S-22 LEVEL 2
12" GRADED AGGREGATE BASE (TWO 6" LIFTS)
- 4) USE THE FOLLOWING ITEM FOR WEDGE/LEVEL, TO ADDRESS CROSS SLOPE CORRECTIONS OR AS DIRECTED BY ENGINEER. IN CASES WHERE UP TO 2" WEDGE/LEVEL IS REQUIRED, USE THE FOLLOWING MATERIAL:

VARIABLE DEPTH SUPERPAVE ASPHALT MIX 9.5MM, FOR WEDGE/LEVEL PG 64S-22, LEVEL 2

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

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TS-02

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JK Drawn by: JK Checked by: MA

TYPICAL SECTIONS

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : 1"=2.5'

APRIL 2024

Project No. : 501307 SHEET 6 of 36

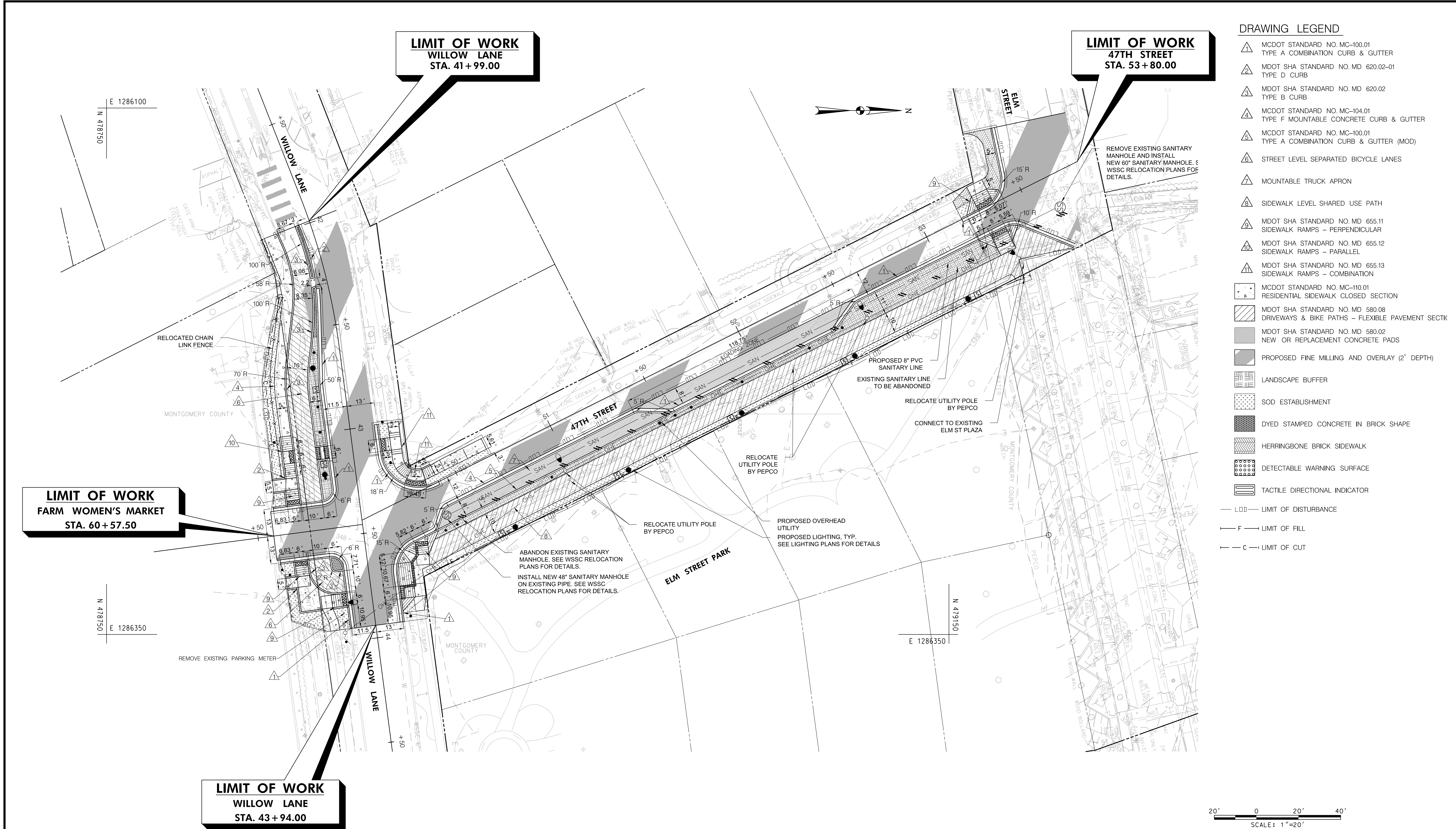
**LIMIT OF WORK
WILLOW LANE
STA. 41+99.00**

**LIMIT OF WORK
47TH STREET
STA. 53+80.00**

**LIMIT OF WORK
FARM WOMEN'S MARKET
STA. 60+57.50**

**LIMIT OF WORK
WILLOW LANE
STA. 43+94.00**

- DRAWING LEGEND**
- △ MCDOT STANDARD NO. MC-100.01
TYPE A COMBINATION CURB & GUTTER
 - △ MCDOT SHA STANDARD NO. MD 620.02-01
TYPE D CURB
 - △ MCDOT SHA STANDARD NO. MD 620.02
TYPE B CURB
 - △ MCDOT STANDARD NO. MC-104.01
TYPE F MOUNTABLE CONCRETE CURB & GUTTER
 - △ MCDOT STANDARD NO. MC-100.01
TYPE A COMBINATION CURB & GUTTER (MOD)
 - △ STREET LEVEL SEPARATED BICYCLE LANES
 - △ MOUNTABLE TRUCK APRON
 - △ SIDEWALK LEVEL SHARED USE PATH
 - △ MCDOT SHA STANDARD NO. MD 655.11
SIDEWALK RAMPS - PERPENDICULAR
 - △ MCDOT SHA STANDARD NO. MD 655.12
SIDEWALK RAMPS - PARALLEL
 - △ MCDOT SHA STANDARD NO. MD 655.13
SIDEWALK RAMPS - COMBINATION
 - ▭ MCDOT STANDARD NO. MC-110.01
RESIDENTIAL SIDEWALK CLOSED SECTION
 - ▭ MCDOT SHA STANDARD NO. MD 580.08
DRIVEWAYS & BIKE PATHS - FLEXIBLE PAVEMENT SECTION
 - ▭ MCDOT SHA STANDARD NO. MD 580.02
NEW OR REPLACEMENT CONCRETE PADS
 - ▭ PROPOSED FINE MILLING AND OVERLAY (2" DEPTH)
 - ▭ LANDSCAPE BUFFER
 - ▭ SOD ESTABLISHMENT
 - ▭ DYED STAMPED CONCRETE IN BRICK SHAPE
 - ▭ HERRINGBONE BRICK SIDEWALK
 - ▭ DETECTABLE WARNING SURFACE
 - ▭ TACTILE DIRECTIONAL INDICATOR
 - LDD — LIMIT OF DISTURBANCE
 - F — LIMIT OF FILL
 - C — LIMIT OF CUT



70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

PS-01

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Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

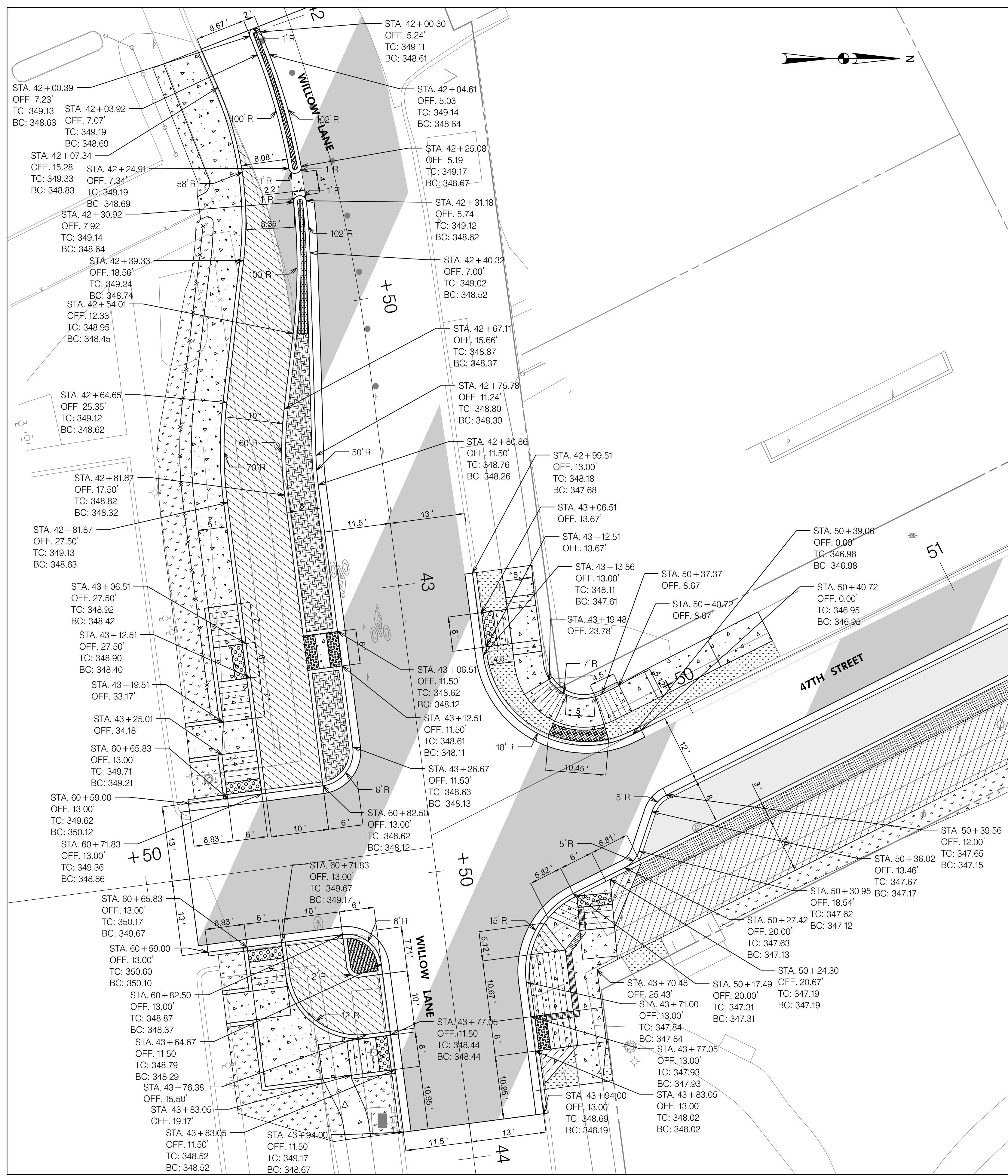
Designed by: JK Drawn by: JK Checked by: MA

TRAIL AND ROADWAY PLAN

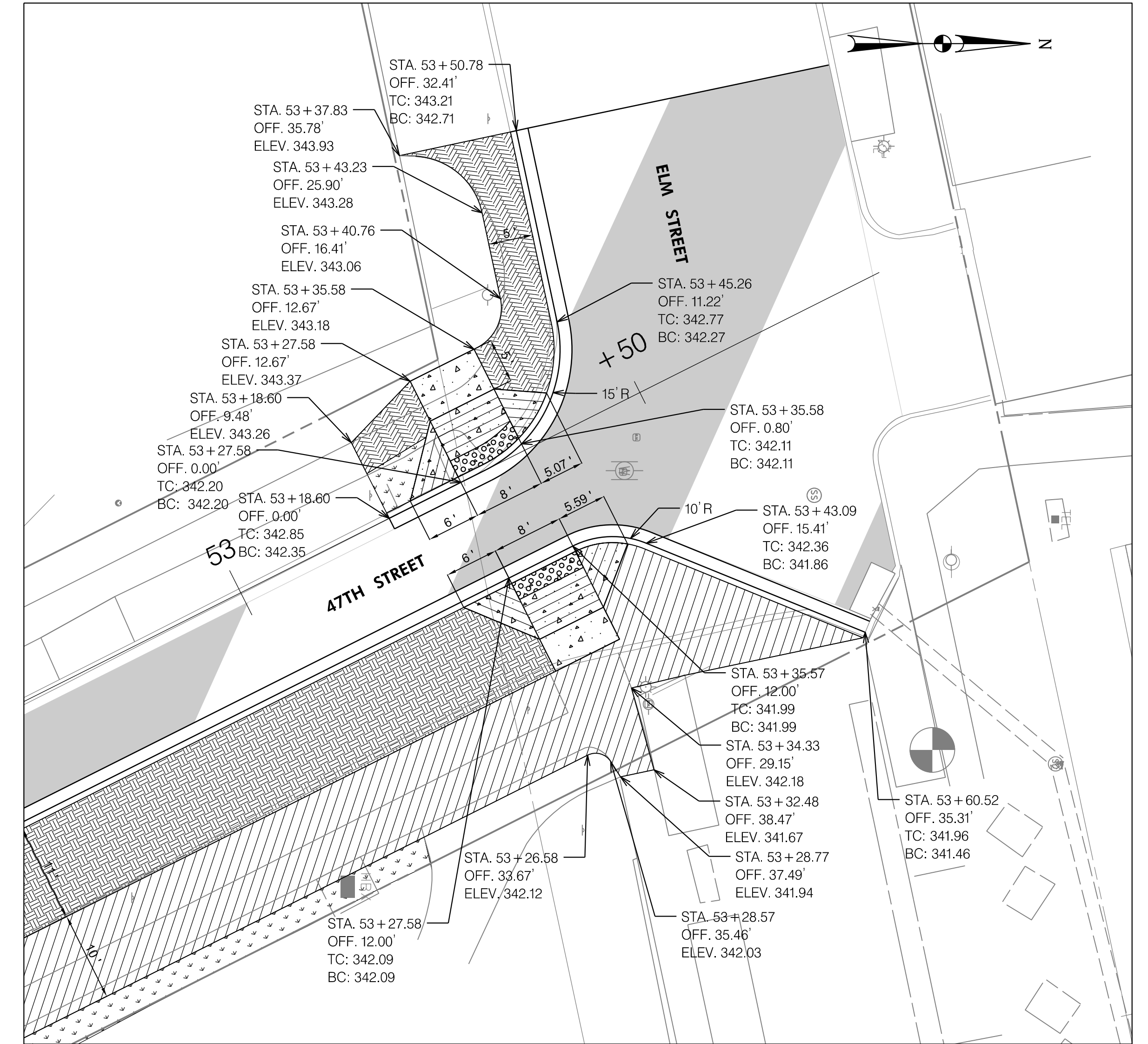
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE: 1" = 20' APRIL 2024

Project No.: 501307 SHEET 7 of 36



WILLOW LANE AND 47TH STREET



47TH STREET AND ELM STREET

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

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GP-01

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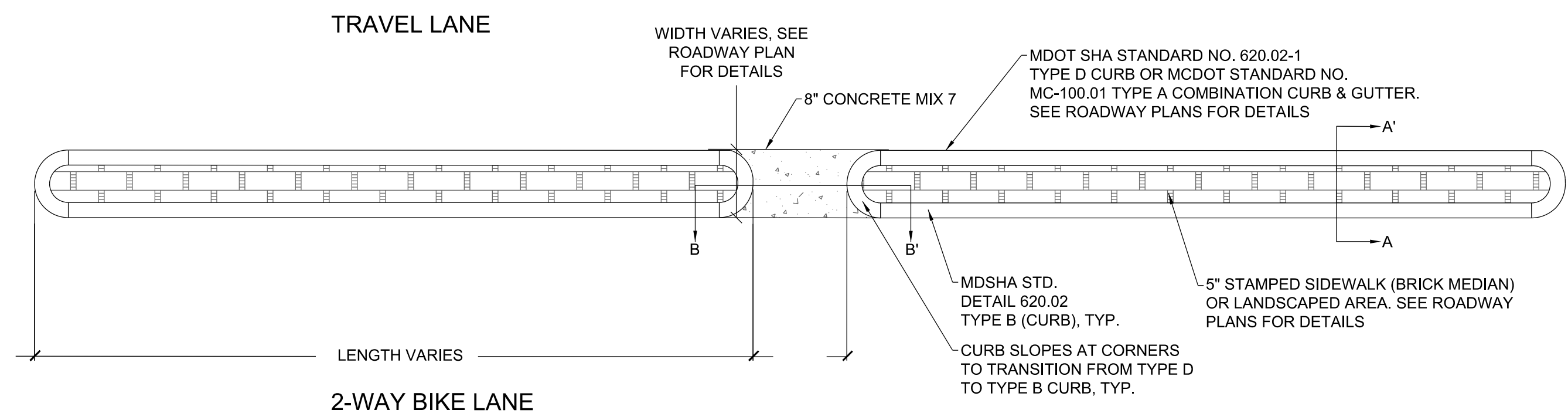
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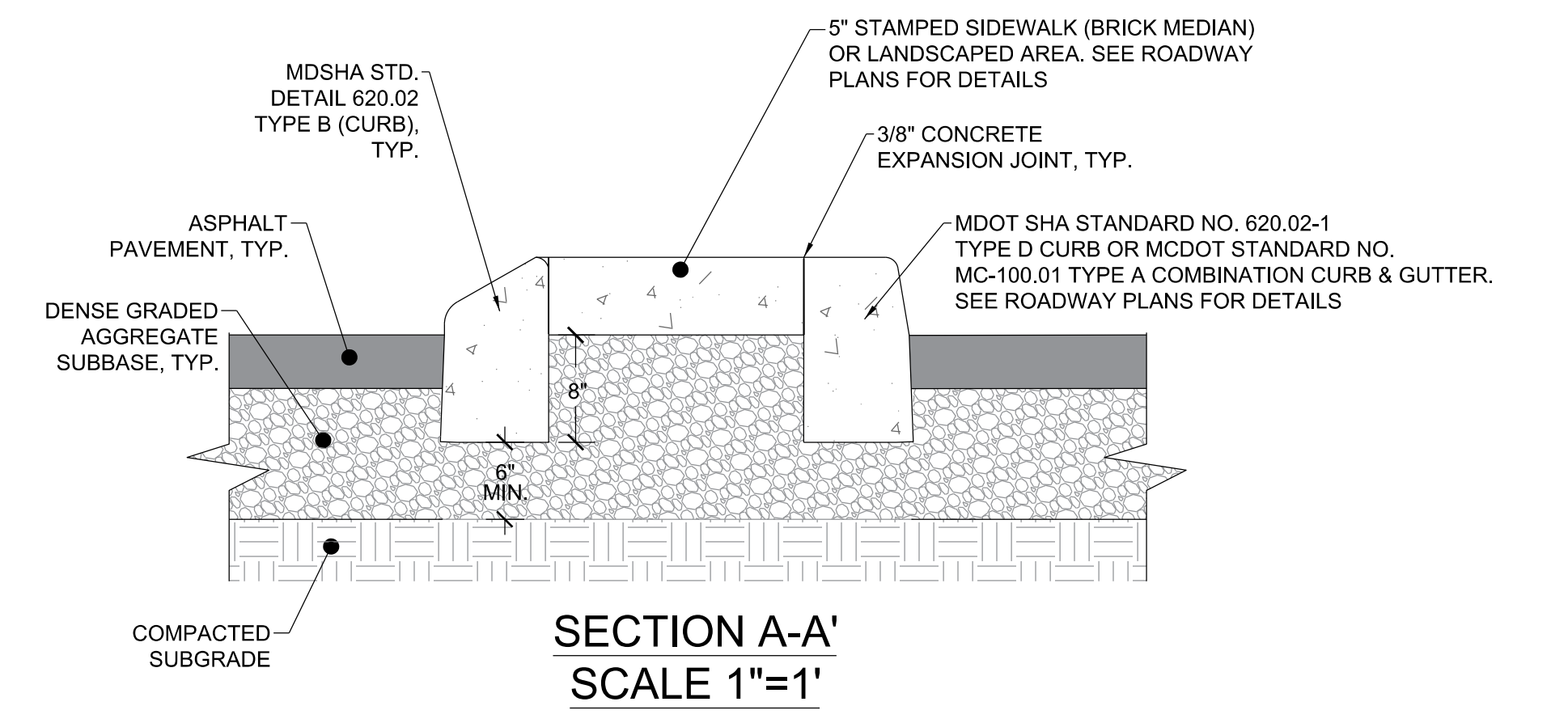
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	
APPROVED	
Chief, Division of Transportation Engineering	
Designed by: <u>JK</u>	Drawn by: <u>BM</u>
Checked by: <u>MA</u>	Date: <u> </u>

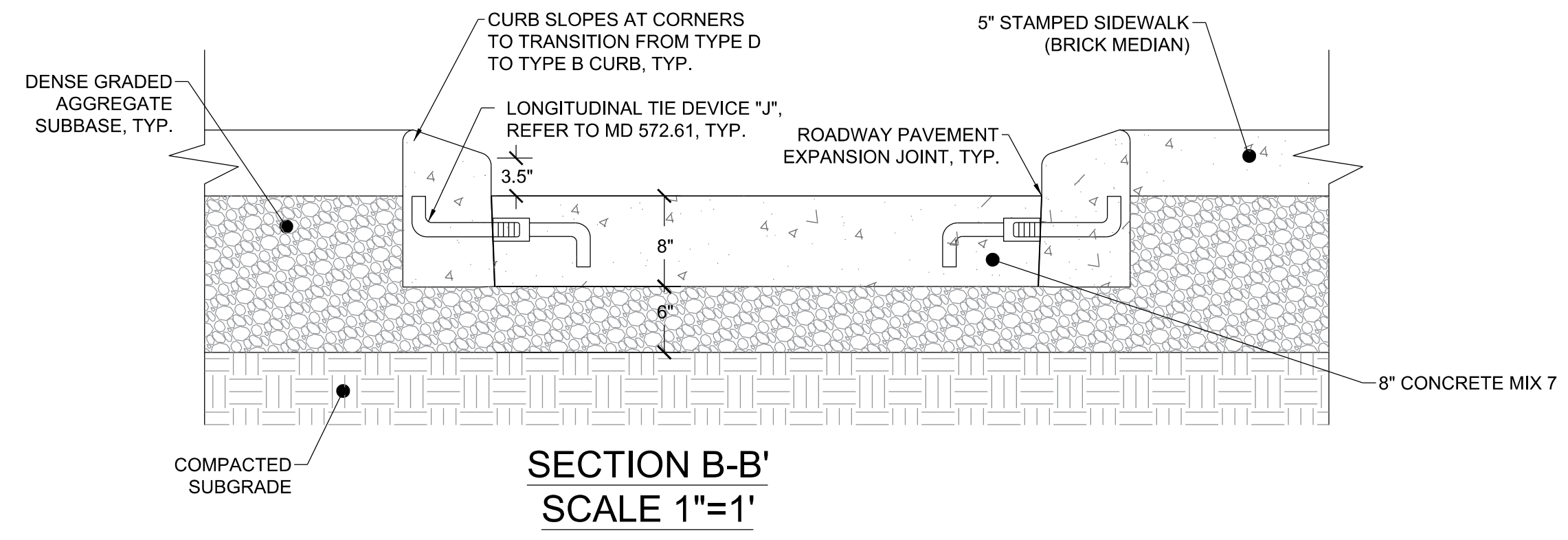
GRADING PLAN	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE: 1"=10'	APRIL 2024
Project No.: <u>501307</u>	SHEET <u>8</u> of <u>36</u>



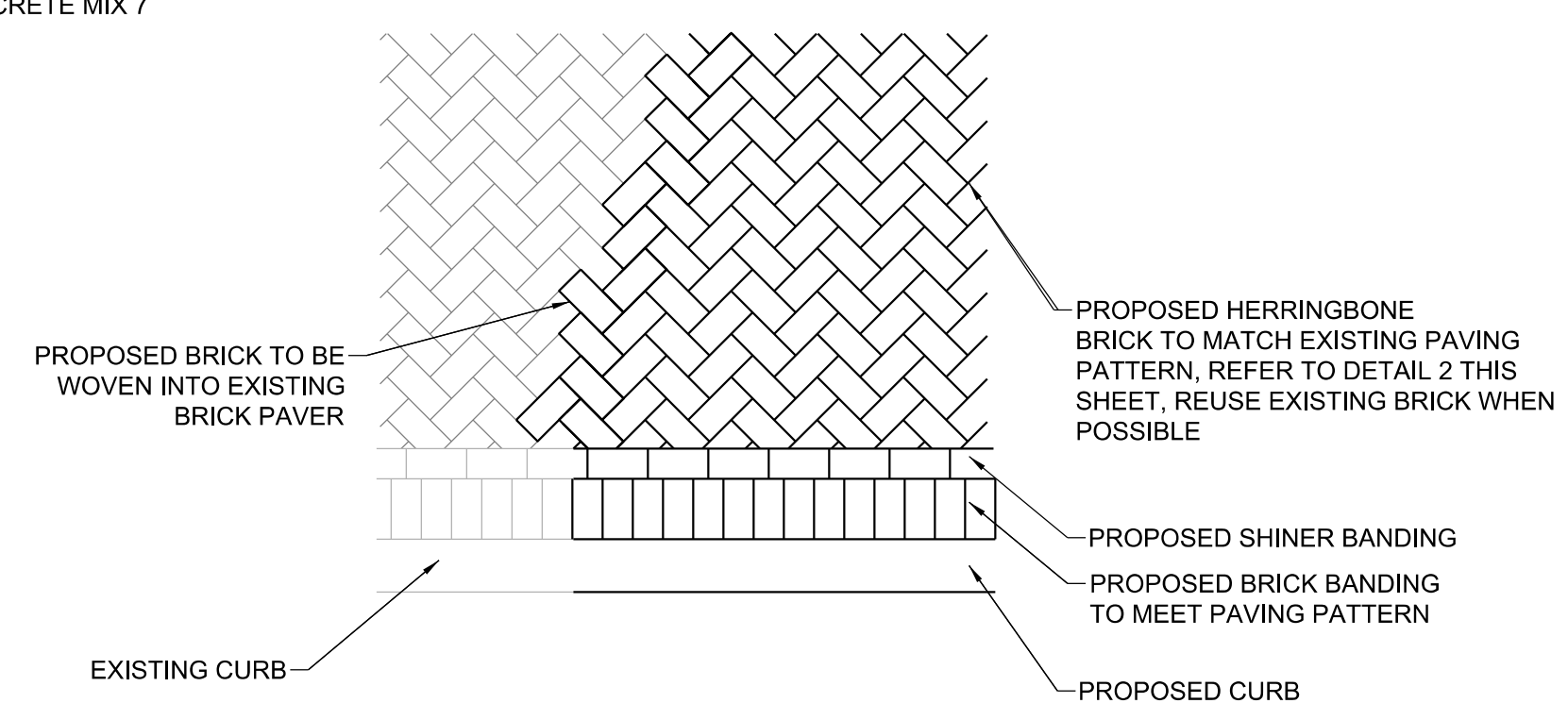
DETAIL 1: CONCRETE BARRIER ISLAND
SCALE 1"=5'



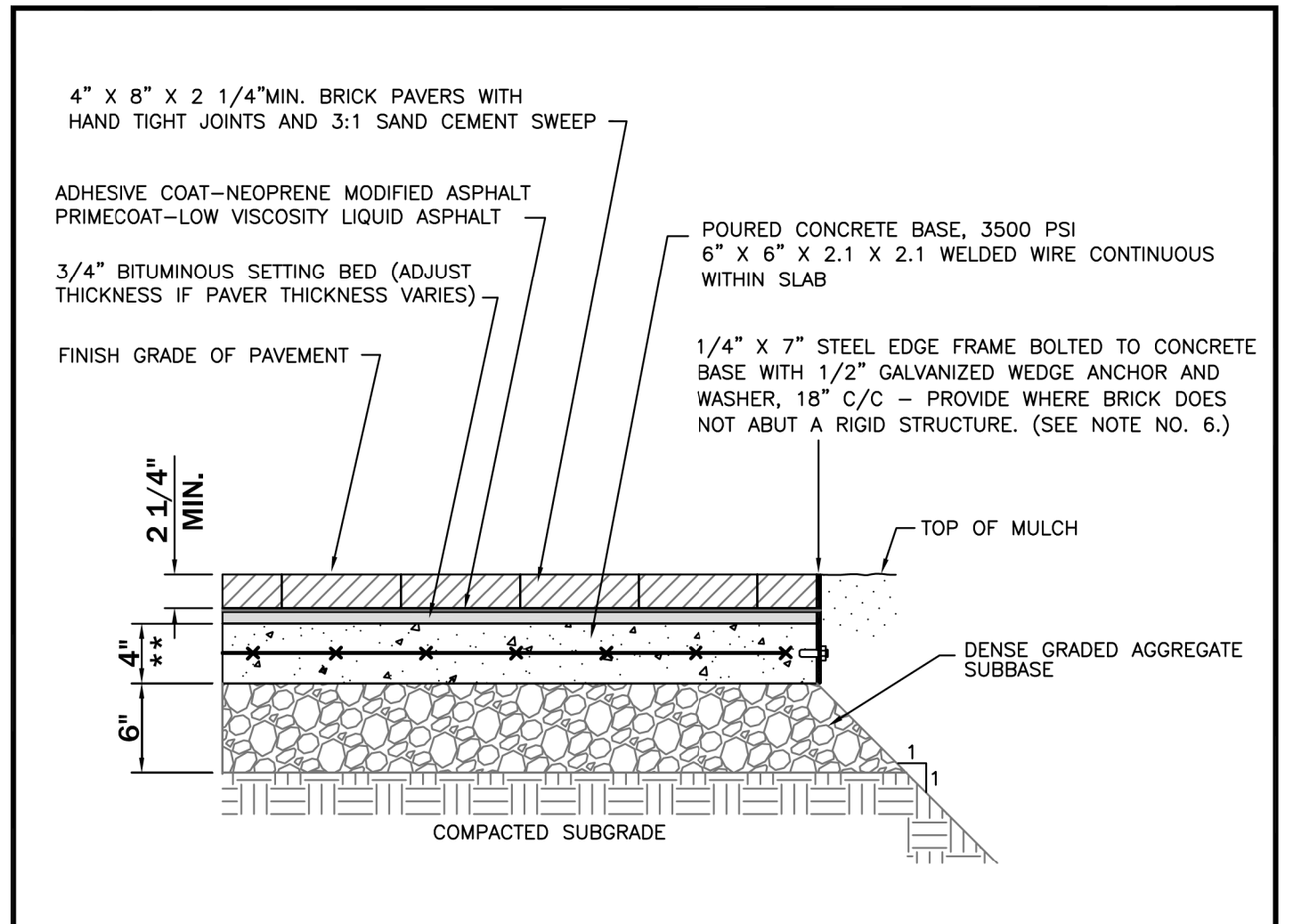
SECTION A-A'
SCALE 1"=1'



SECTION B-B'
SCALE 1"=1'



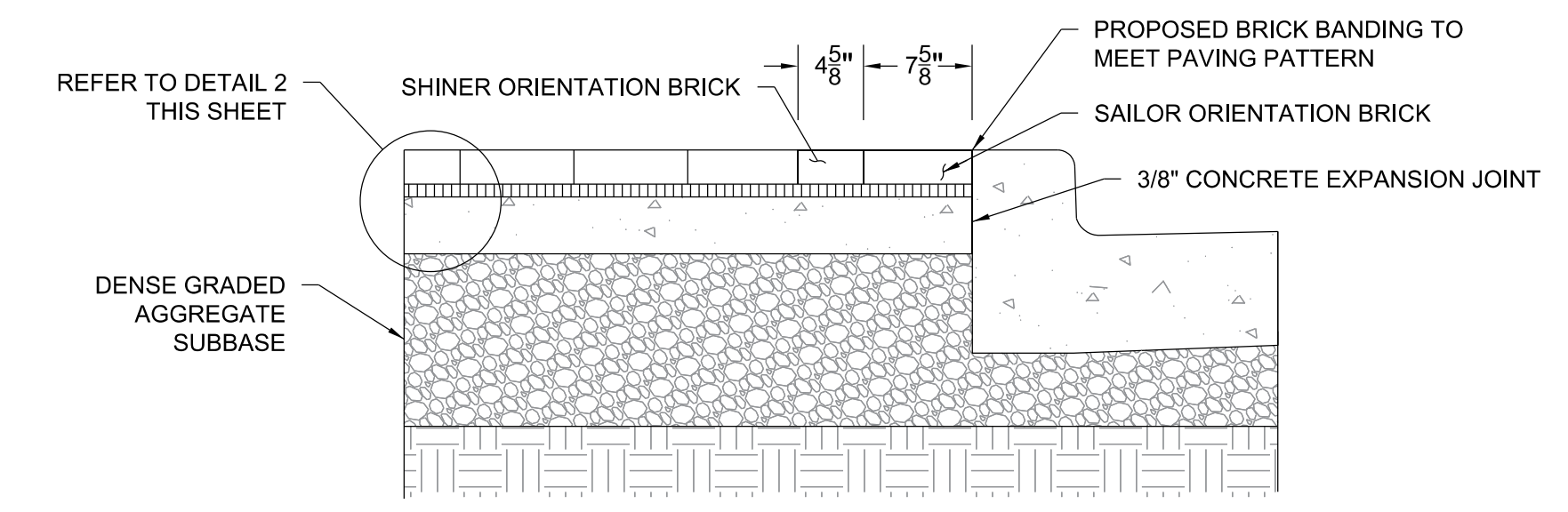
DETAIL 3: HERRINGBONE PAVING
N.T.S.



- GENERAL NOTES**
- Pavers shall be WATSONTOWN "Garden Blend" or approved equal, class SX, type I, have compressive strength of 10,000 psi for any five brick tested, shall be capable of withstanding a min. of a 100 freeze-thaw cycles, have an average water absorption rate of 4% or less, and shall conform to ASTM Designation of C-902.
 - The Bituminous setting shall consist of Hot Mix Asphalt Superpave 4.75mm for surface PG58-28 conforming to AASHTO designation M-320.
 - A tack coat of 2% neoprene-modified asphalt adhesive shall be used.
 - Joint filler shall be one part Portland cement mixed with three parts sand.
 - The 28 day compressive strength for the concrete subbase shall be 3500 p.s.i.
 - Provide 1/2" expansion joint where brick abuts a rigid structure.
 - Refer to Maryland State Highway Administration specifications for materials and methods of construction.

APPROVED <u>22 MAY 09</u> DATE <i>Auth. Hall</i> DIRECTOR, DEPARTMENT OF TRANSPORTATION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
<i>R. S. [Signature]</i> CHIEF, DIVISION OF TRANSPORTATION ENGINEERING	STREETScape - PAVERS SIDEWALK
	STANDARD NO. MC-111.02

DETAIL 2: PAVERS
N.T.S.



DETAIL 4: SINGLE SHINER BANDING
SCALE 1"=1'

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

HD-01

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APPROVED

Chief, Division of Transportation Engineering _____ Date _____

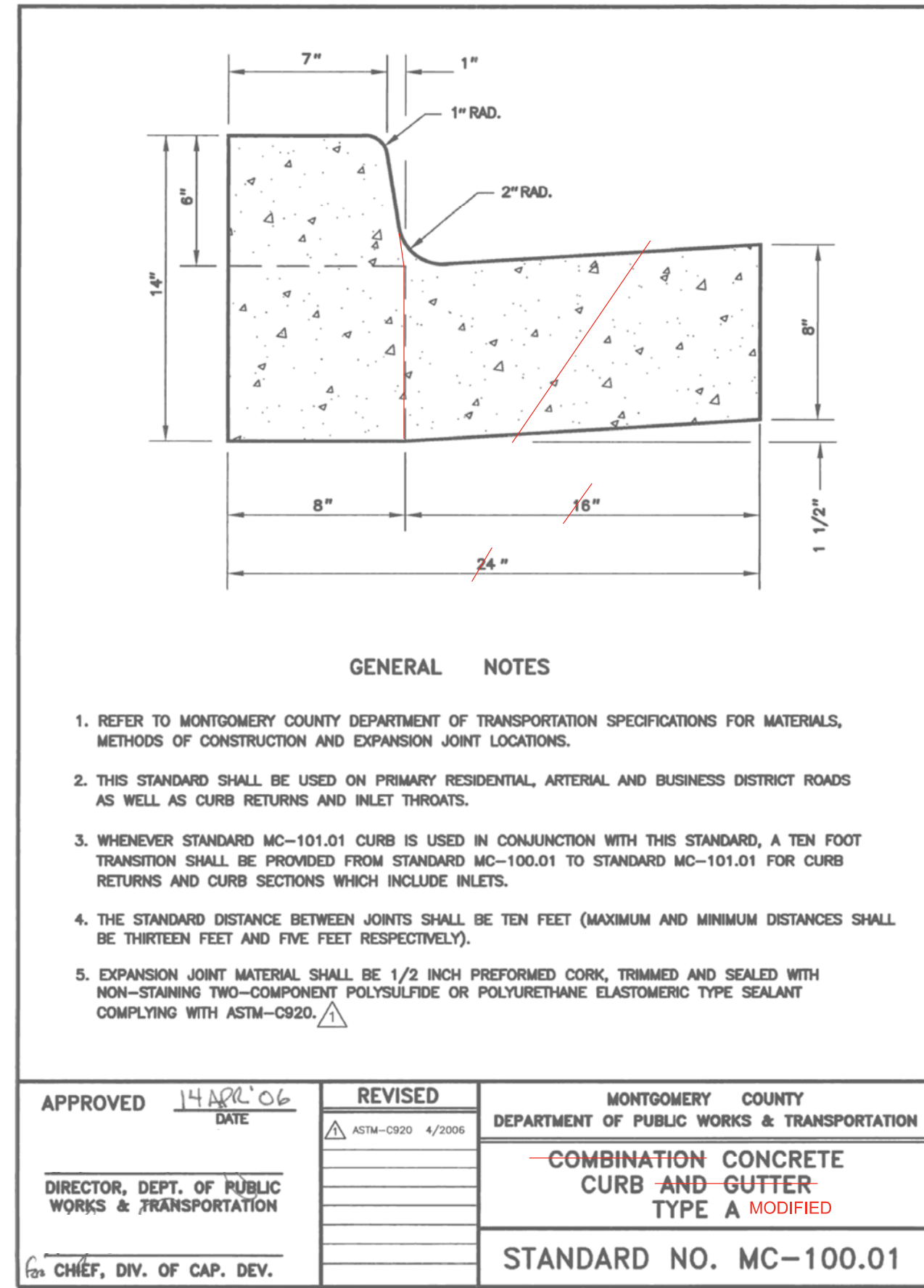
Designed by: JK Drawn by: TT Checked by: MA

HARDSCAPE DETAILS - 1

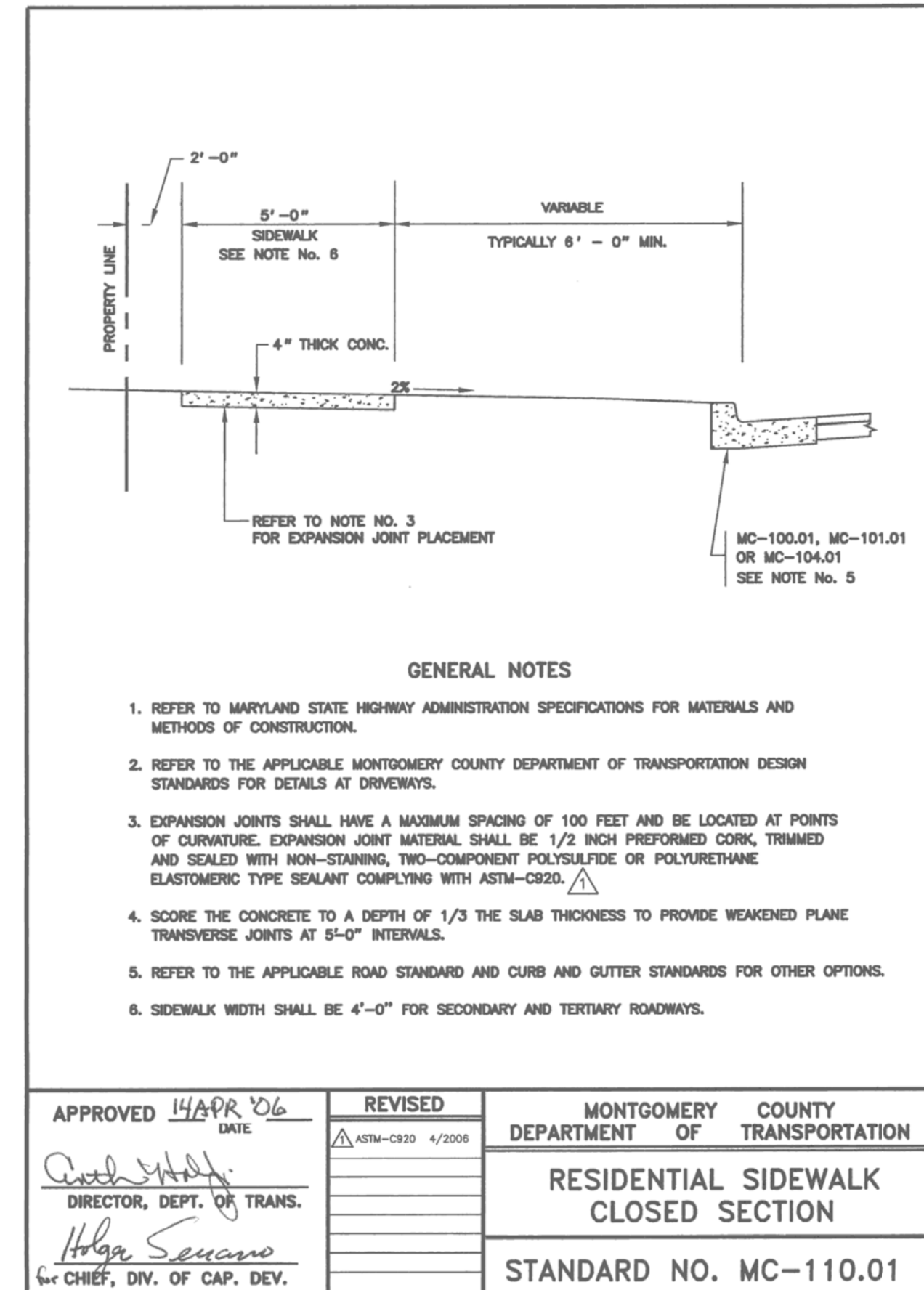
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE APRIL 2024

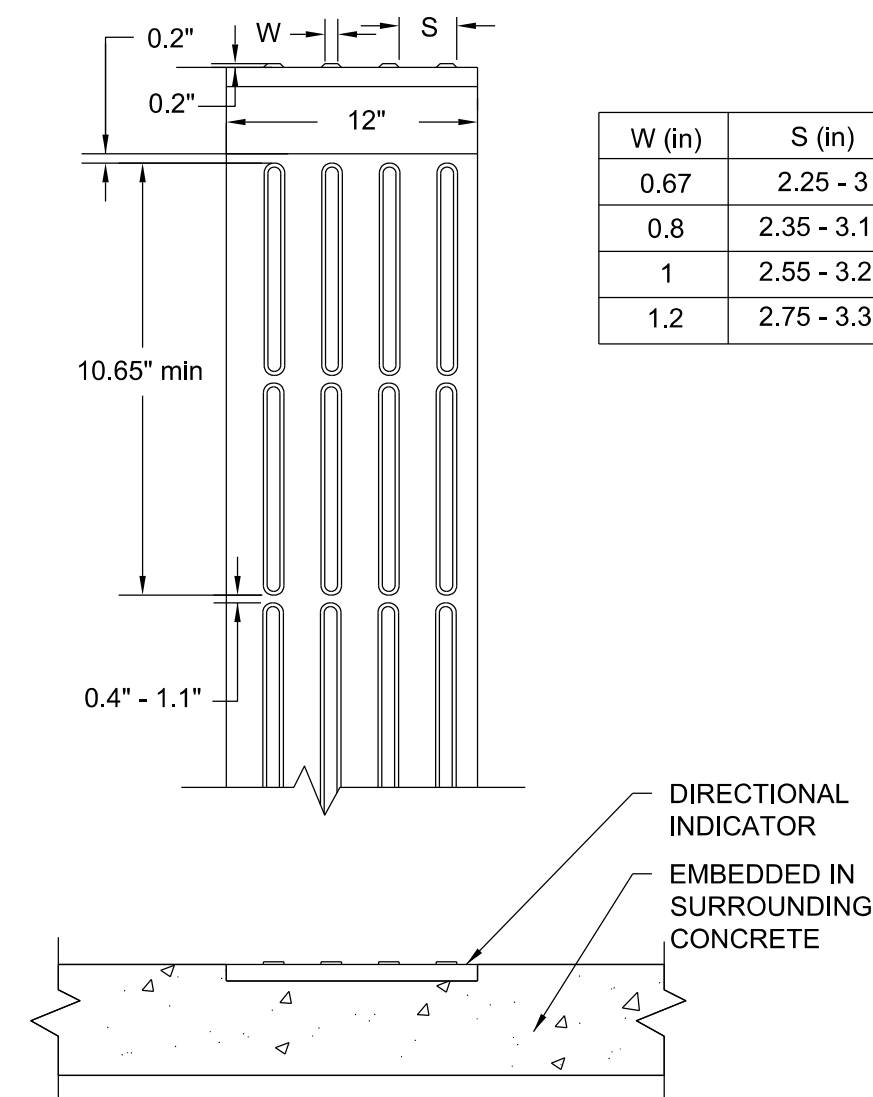
Project No. : 501307 SHEET 9 of 36



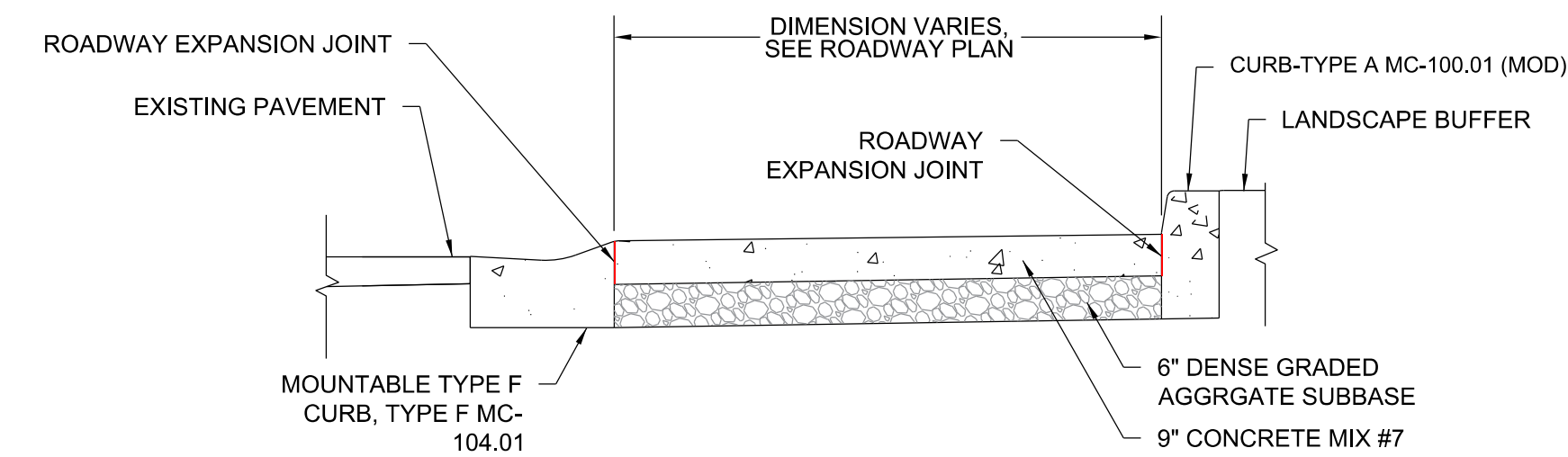
DETAIL 5: MONTGOMERY COUNTY CURB (A) MODIFIED N.T.S.



DETAIL 6: RESIDENTIAL SIDEWALK CLOSED SECTION



DETAIL 7: LONGITUDINAL DIRECTIONAL INDICATORS N.T.S.



A TRUCK APRON SECTION SCALE: NTS

DETAIL 8: MOUNTABLE TRUCK APRON N.T.S.

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

HD-02

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date _____
APPROVED	
Chief, Division of Transportation Engineering	Date _____
Designed by: <u>JK</u>	Drawn by: <u>TT</u> Checked by: <u>MA</u>
NO. _____ REVISION _____ DATE _____ BY _____	

HARDSCAPE DETAILS - 2	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : NONE	APRIL 2024
Project No. : <u>501307</u>	SHEET <u>10</u> of <u>36</u>

TRAFFIC CONTROL GENERAL NOTES

TEMPORARY TRAFFIC CONTROL REQUIREMENTS

- 1. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS TO SELECT THE APPROPRIATE WORK ZONE TEMPORARY TRAFFIC CONTROLS FOR EACH PHASE OF CONSTRUCTION. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE MARYLAND MANUAL ON TRAFFIC CONTROL DEVICES, MOST RECENT EDITION, AND MARYLAND BOOK OF STANDARDS FOR HIGHWAYS, INCIDENTAL STRUCTURES, & TRAFFIC CONTROL APPLICATIONS.
2. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS OF 9:00 AM TO 3:00 PM, MONDAY THROUGH FRIDAY, WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE COUNTY'S DOT INSPECTOR. REFER TO SP 104-01 FOR DETAILS ON LANE CLOSURE TIMINGS.
3. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
4. EXCLUSIVE OF EMERGENCY WORK, THE PERMITTEE SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 48 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
5. 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.
6. IF ANY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA, THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
7. THE CONTRACTOR SHALL COORDINATE WITH BUSINESSES FOR ANY POTENTIAL ACCESS RESTRICTIONS DURING CONSTRUCTION
8. ALL EXISTING TRAFFIC CONTROL DEVICES (I.E. SIGNS, MARKING, ETC.) THAT MUST BE REMOVED SHALL BE REPLACED IN THEIR PROPER LOCATION PRIOR TO THE COMPLETION OF THE PROJECT. COST FOR THE REPLACEMENT AND/OR REPAIR OF DEVICES DAMAGED AS A RESULT OF THE PROJECT SHALL BE ASSESSED TO THE PERMITTEE.
9. THE MAXIMUM SPACING BETWEEN DEVICES SHALL BE 20 FEET. SPACING BETWEEN DRUMS AT DRIVEWAY AND INTERSECTION SHALL BE APPROXIMATELY 6 FEET. SEE MD SHA STD. NO. 104.01-30A.
10. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MUTCD. ALL SIGNS, TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD.
11. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC, SUBJECT TO APPROVAL OF THE COUNTY'S DOT INSPECTOR. AT LEAST ONE 5-FOOT SIDEWALK SHALL BE AVAILABLE FOR PEDESTRIANS AT ALL TIMES.
12. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON ORANGE BACKGROUND AND DIAMOND SHAPED. ALL TEMPORARY TRAFFIC SIGNS SHALL BE PLACED ON PORTABLE SUPPORTS ("WINDMASTERS") AND SHALL BE REMOVED DURING NON-APPLICABLE PERIODS. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE.
13. EXISTING TRAFFIC SIGNS IN CONFLICT WITH THE WORK ZONE TRAFFIC CONTROL PLANS SHALL BE COVERED, RELOCATED OR REMOVED / TAKEN DOWN, STORED, AND REPLACED AS DIRECTED BY THE ENGINEER. TEMPORARY TRAFFIC SIGNS SHALL BE INSTALLED ONLY AS NECESSARY FOR EACH INDIVIDUAL STAGE OF CONSTRUCTION WITH THE SIGNS RELOCATED AS APPLICABLE BETWEEN STAGES.
14. WHEN PAVEMENT MARKINGS HAVE BEEN OBLITERATED BY THE WORK ACTIVITY, THE PERMITTEE SHALL INSTALL ANY CRITICAL INTERIM PAVEMENT MARKINGS PRIOR TO THE END OF THE WORKDAY AS SPECIFIED BY THE COUNTY'S DOT INSPECTOR AND/OR THE TRAFFIC ENGINEERING AND OPERATIONS SECTION. ON ROAD SECTIONS THAT ARE NOT SCHEDULED TO BE OVERLAID, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE (REMOVABLE) DETOUR GRADE MARKING TAPE. ANY CONFLICTING MARKINGS, WHICH NEED TO BE TEMPORARILY REMOVED, ARE TO BE MASKED USING "3M REMOVABLE BLACK LANE MASK" OR AN APPROVED EQUAL. ON ROAD SECTIONS THAT ARE TO BE OVERLAID, TEMPORARY MARKINGS CAN BE EITHER TAPE OR PAINT. ANY CONFLICTING MARKINGS SHOULD BE REMOVED WITH A PAVEMENT GRINDER.
15. CONTRACTOR SHALL INSTALL APPROPRIATE TEMPORARY TRAFFIC CONTROL DEVICES (I.E. CHAIN LINK FENCE/PLASTIC DRUMS) TO PROTECT MOTORISTS AND/OR PEDESTRIANS FROM HAZARDS WITHIN THE WORK AREA DURING NON-WORKING HOURS.
16. ALL TCP PLAN SHEETS SHOW SIGNING AND ROADWAY CONDITIONS DURING NON-WORK HOURS. THE CONTRACTOR SHALL FOLLOW STANDARDS AS LISTED UNDER SEQUENCE OF CONSTRUCTION DURING WORK HOURS.
17. FLAGGING OPERATIONS SHALL BE IN ACCORDANCE WITH MDOT SHA STANDARD NO. MD. 104.02-10.
18. THE CONTRACTOR SHALL COVER THE WORK AREA SEGMENT WITH STEEL PLATES AND PLACE APPROPRIATE ADVANCE WARNING SIGNS FOR STEEL PLATES BEFORE OPENING ALL TRAVEL LANES TO TRAFFIC AT THE END OF WORK DAY FOR ENTIRE DURATION OF THE PROJECT.
19. ALL TRAFFIC CONTROL DEVICES AND STANDARDS SHALL CONFORM TO THE 20 MPH POSTED SPEED LIMIT AND 20 MPH DESIGN SPEED WITHIN THE ENTIRE PROJECT LIMITS.
20. WHERE IS SIDEWALK IS CLOSED DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL A BARRIER ACROSS THE FULL WIDTH OF THE SIDEWALK APPROACHING THE CLOSURE. THIS BARRIER SHALL BE DETECTABLE BY A VISUALLY IMPAIRED INDIVIDUAL TRAVELING WITH THE AID OF A CANE.

FLAGGING OPERATIONS

- 1. WHEN POSSIBLE, TWO-WAY TRAFFIC SHALL BE MAINTAINED, OTHERWISE, FLAGGERS SHALL BE USED TO CONTROL TRAFFIC.
2. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATSA APPROVED FLAGGERS AND SHALL BE USED AT THE DIRECTION OF THE COUNTY INSPECTOR. FLAGGERS SHALL USE STOP/SLOW PADDLES TO DIRECT TRAFFIC.
3. 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

PAVEMENT DROP-OFF

- 1. ANY EXCAVATION(S) IN THE ROADWAY SHALL BE PAVED TO LEVEL GRADE OR PLATED AND THE ROADWAY REOPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKDAY. "STEEL PLATES AHEAD" (W21-9) SIGNS SHALL BE PLACED APPROXIMATELY 250 FEET IN ADVANCE OF ANY STEEL PLATE. ANY EXCAVATIONS IN THE SIDEWALK SHALL BE BACKFILLED OR PLATED PRIOR TO THE END OF EACH WORKDAY AND SIDEWALK REOPENED TO ITS FULL CROSS SECTION.
2. TRAFFIC SHALL NOT BE PERMITTED WITHIN TEN (10) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS PROTECTED BY TEMPORARY CONCRETE BARRIERS OR RAMPED WITH AGGREGATE MATERIAL AT A 3:1 OR FLATTER SLOPE FROM THE EDGE OF PAVEMENT. WHEN RAMPING IS UTILIZED, TTC DRUMS SHALL BE POSITIONED ADJACENT TO THE EDGE OF THE WORK AREA ON THE TRAFFIC SIDE OF THE SLOPE.
3. TRAFFIC SHALL NOT BE PERMITTED WITHIN TWO (2) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN TWO (2) INCHES BUT NO MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS EITHER RAMPED WITH AGGREGATE MATERIAL AT A 4:1 OR FLATTER SLOPE, PROVIDED WITH AN ABUTTING WEDGE OF BITUMINOUS MATERIAL AT A 3:1 OR FLATTER SLOPE OR PROTECTED BY TRAFFIC DRUMS.

TRAFFIC CONTROL GENERAL NOTES (CONT.)

PAVEMENT DROP OFF (CONT.)

- 4. AT DROP-OFFS IN EXCESS OF 5 INCHES, EITHER GRADDED AGGREGATE BASE WEDGE SHALL BE USED IN ACCORDANCE WITH MDOT SHA STANDARD 104.01-28, OR POSITIVE PROTECTION FROM THE DROP-OFF IN THE FORM OF CONCRETE BARRIERS SHALL BE USED IN ACCORDANCE WITH MDOT SHA STANDARD 104.06-18, AT THE END OF WORKDAYS.

INSPECTOR AUTHORITY

- 1. THE COUNTY'S DEPARTMENT OF TRANSPORTATION (DOT) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE PERMITTEE TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH.
2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S DOT INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

MISCELLANEOUS

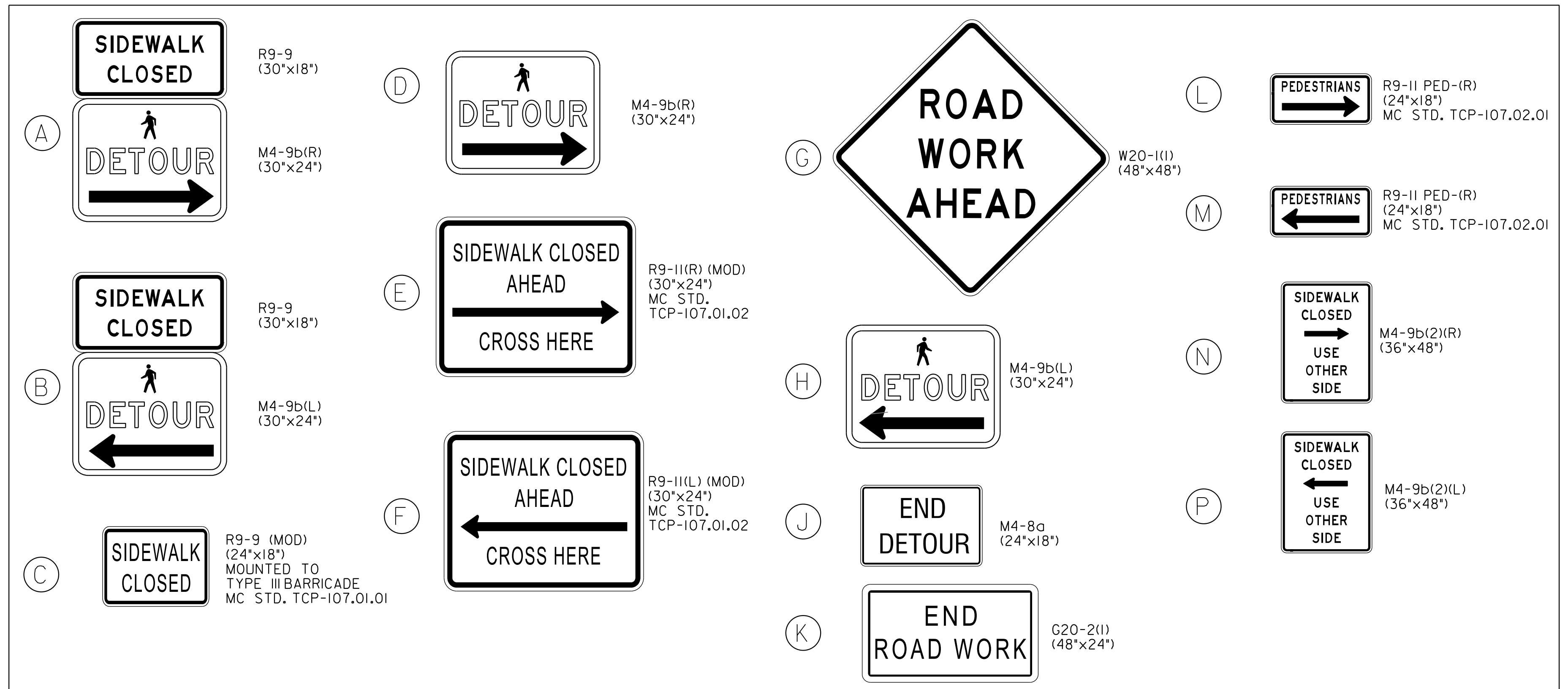
- 1. THE PERMITTEE WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.
2. HAZARDOUS MATERIAL SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORKING PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF OPEN SECTION ROADWAY.
3. ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

CONTACT INFORMATION

- 1. THE PERMITTEE SHALL CONTACT TRAFFIC ENGINEERING STUDIES SECTION (TES) AT 240-777-6000 AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF THE FINAL PAVING OPERATIONS TO SCHEDULE THE INSTALLATION OF PERMANENT PAVEMENT MARKING AND SIGNS.
2. THE PERMITTEE SHALL CONTACT THE DIRECTOR OF THE BETHESDA-CHEVY CHASE REGIONAL SERVICES CENTER AT 240-777-8200 AND THE DISTRICT 2 TRAFFIC SERGEANT OF THE MONTGOMERY COUNTY POLICE DEPARTMENT AT 240-773-6700, A MINIMUM OF ONE WEEK PRIOR TO THE BEGINNING OF ANY WORK ACTIVITIES.
3. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) AT 240-777-6000.
4. FOR MDOT SHA OFFICE OF TRAFFIC AND SAFETY, CALL 1-888-963-0307.

SEQUENCE OF CONSTRUCTION NOTES

- 1. REFER TO MT-01 THROUGH MT-05 FOR SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF PEDESTRIAN TRAFFIC
2. THE CONTRACTOR SHALL ONLY CLOSE ONE CORNER OF THE WILLOW LANE AT 47TH STREET INTERSECTION AT A TIME. WHILE ONE CORNER IS CLOSED TO PEDESTRIAN TRAFFIC, THE OTHER THREE CORNERS SHALL REMAIN OPEN TO PEDESTRIAN TRAFFIC.
3. THE CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO PAPA JOHN'S PIZZA AT 7200 47TH STREET, CHEVY CHASE, MD AND PUBLIC PARKING LOT 24 AT ALL TIMES DURING CONSTRUCTION.



MT-00

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:



Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

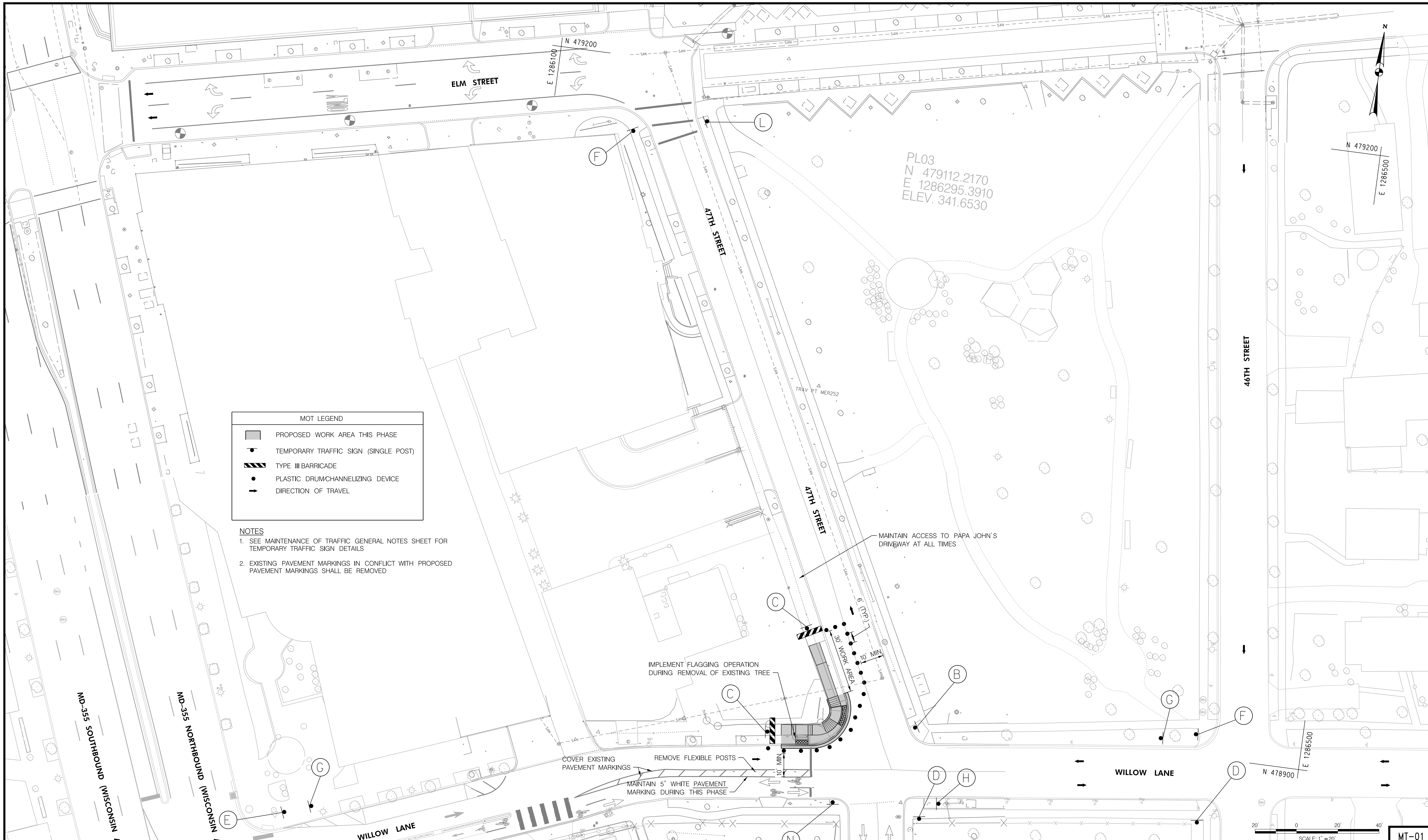
RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Date APPROVED Chief, Division of Transportation Engineering Date

Designed by: DTB Drawn by: DTB Checked by: PHD

MAINTENANCE OF TRAFFIC GENERAL NOTES CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND

SCALE : NONE Project No. : 501307 SHEET 11 of 36 MAY 2024

N:\31951-018\CADD\CC Surface Trail\MT-001\FED_31951018_Phase 2.dgn
5/2/2024 - 8:03 AM



MOT LEGEND	
	PROPOSED WORK AREA THIS PHASE
	TEMPORARY TRAFFIC SIGN (SINGLE POST)
	TYPE III BARRICADE
	PLASTIC DRUM/CHANNELIZING DEVICE
	DIRECTION OF TRAVEL

- NOTES**
- SEE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET FOR TEMPORARY TRAFFIC SIGN DETAILS
 - EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED

PROFESSIONAL CERTIFICATION.
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THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____

WRA
Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

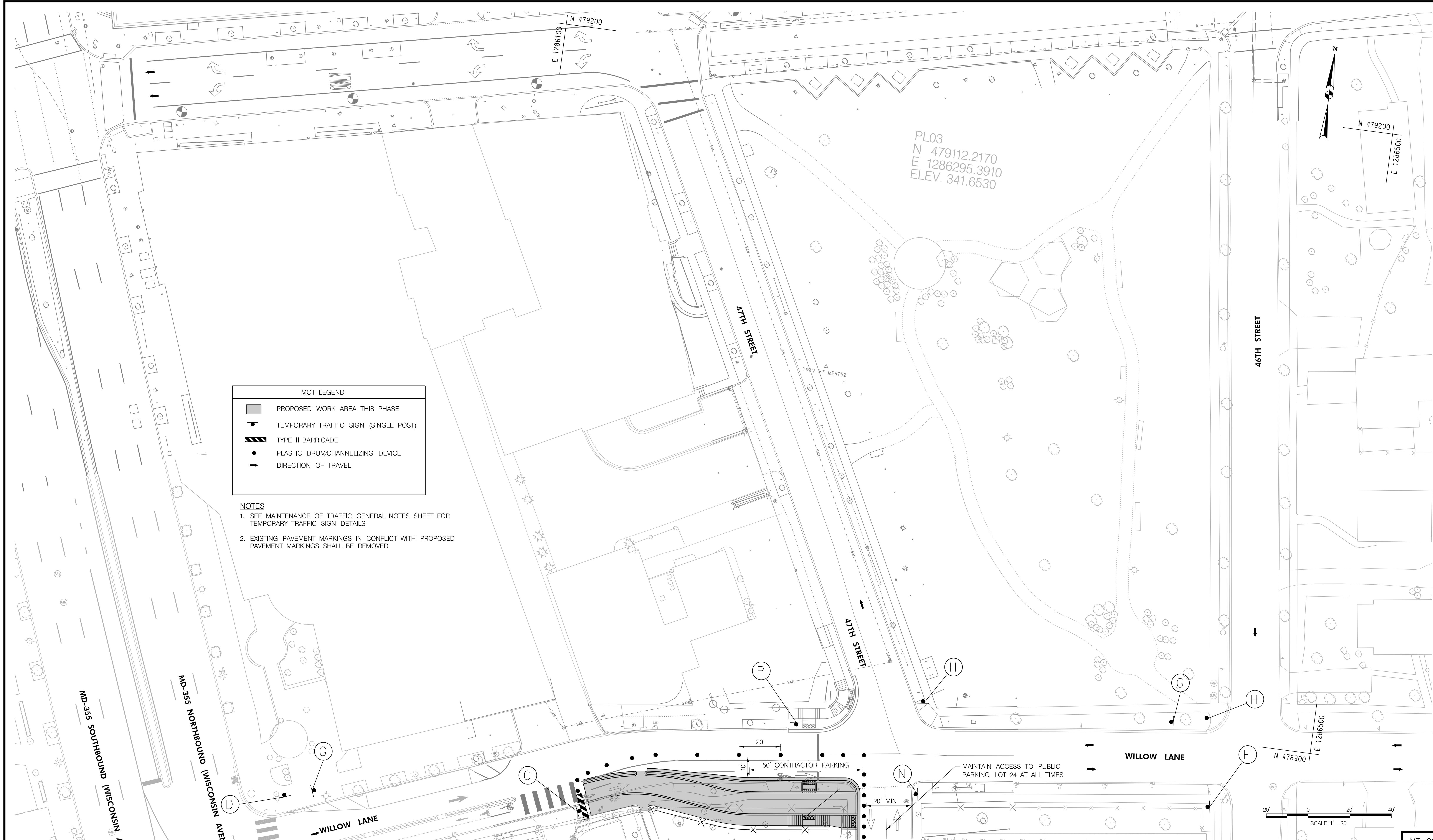
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: <u>DTB</u>	Drawn by: <u>DTB</u>
Checked by: <u>PHD</u>	

MAINTENANCE OF TRAFFIC - PHASE 1
**CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND**

SCALE : 1" = 20'
MAY 2024
Project No. : 501307 SHEET 12 of 36

MT-01

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5/2/2024 8:04 AM



MOT LEGEND

	PROPOSED WORK AREA THIS PHASE
	TEMPORARY TRAFFIC SIGN (SINGLE POST)
	TYPE III BARRICADE
	PLASTIC DRUM CHANNELIZING DEVICE
	DIRECTION OF TRAVEL

- NOTES
1. SEE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET FOR TEMPORARY TRAFFIC SIGN DETAILS
 2. EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED

PL03
N 479112.2170
E 1286295.3910
ELEV. 341.6530

PROFESSIONAL CERTIFICATION.
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THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____

Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: DTB Drawn by: DTB Checked by: RHD

MAINTENANCE OF TRAFFIC - PHASE 2

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

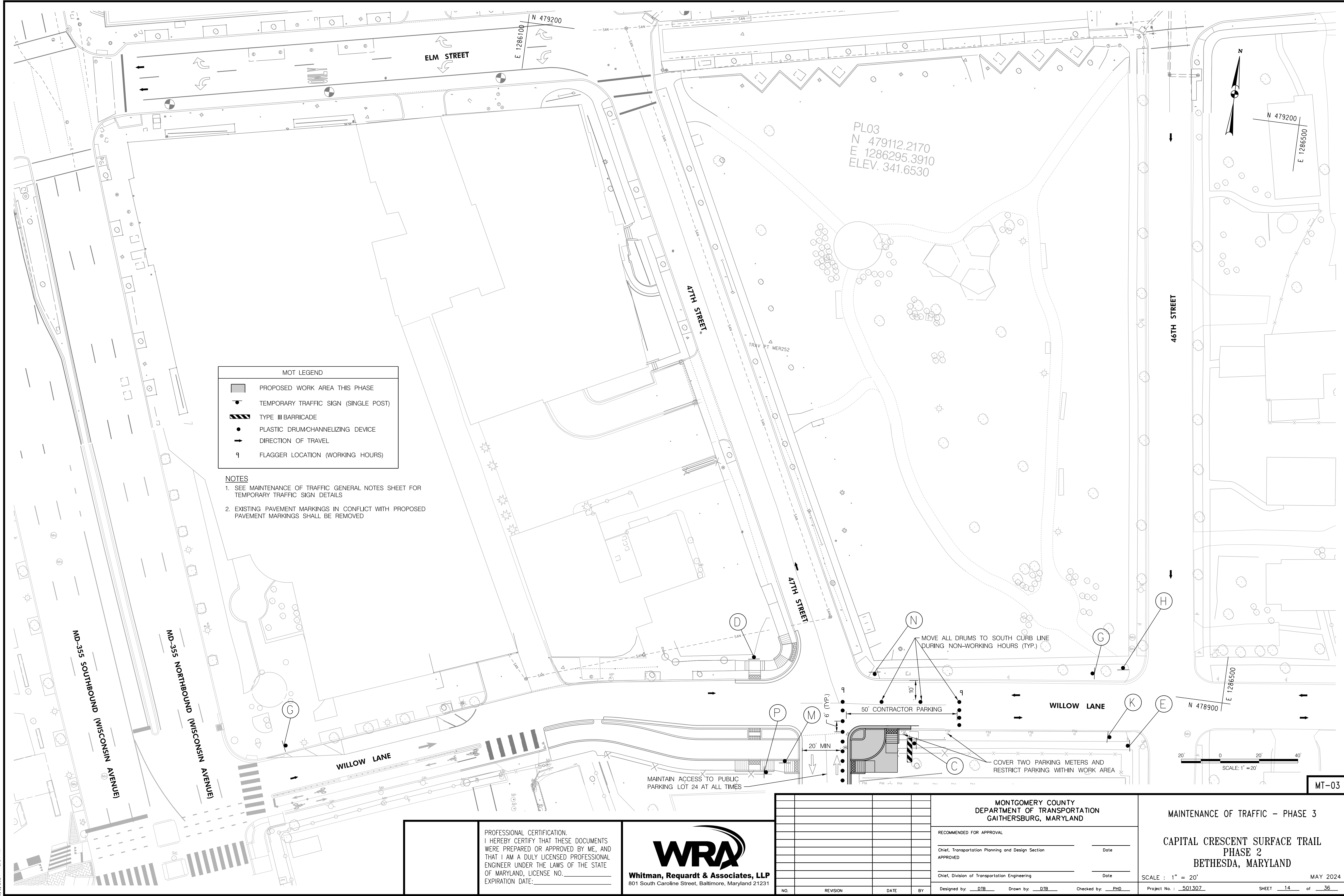
SCALE : 1" = 20'

MAY 2024

Project No. : 501307 SHEET 13 of 36

MT-02

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MOT LEGEND	
	PROPOSED WORK AREA THIS PHASE
	TEMPORARY TRAFFIC SIGN (SINGLE POST)
	TYPE III BARRICADE
	PLASTIC DRUM/CHANNELIZING DEVICE
	DIRECTION OF TRAVEL
	FLAGGER LOCATION (WORKING HOURS)

- NOTES**
- SEE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET FOR TEMPORARY TRAFFIC SIGN DETAILS
 - EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED

PL03
N 479112.2170
E 1286295.3910
ELEV. 341.6530

MOVE ALL DRUMS TO SOUTH CURB LINE DURING NON-WORKING HOURS (TYP.)

50' CONTRACTOR PARKING

COVER TWO PARKING METERS AND RESTRICT PARKING WITHIN WORK AREA

MAINTAIN ACCESS TO PUBLIC PARKING LOT 24 AT ALL TIMES

SCALE: 1" = 20'

MT-03

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WRA
Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: DTB Drawn by: DTB Checked by: PHD

MAINTENANCE OF TRAFFIC - PHASE 3

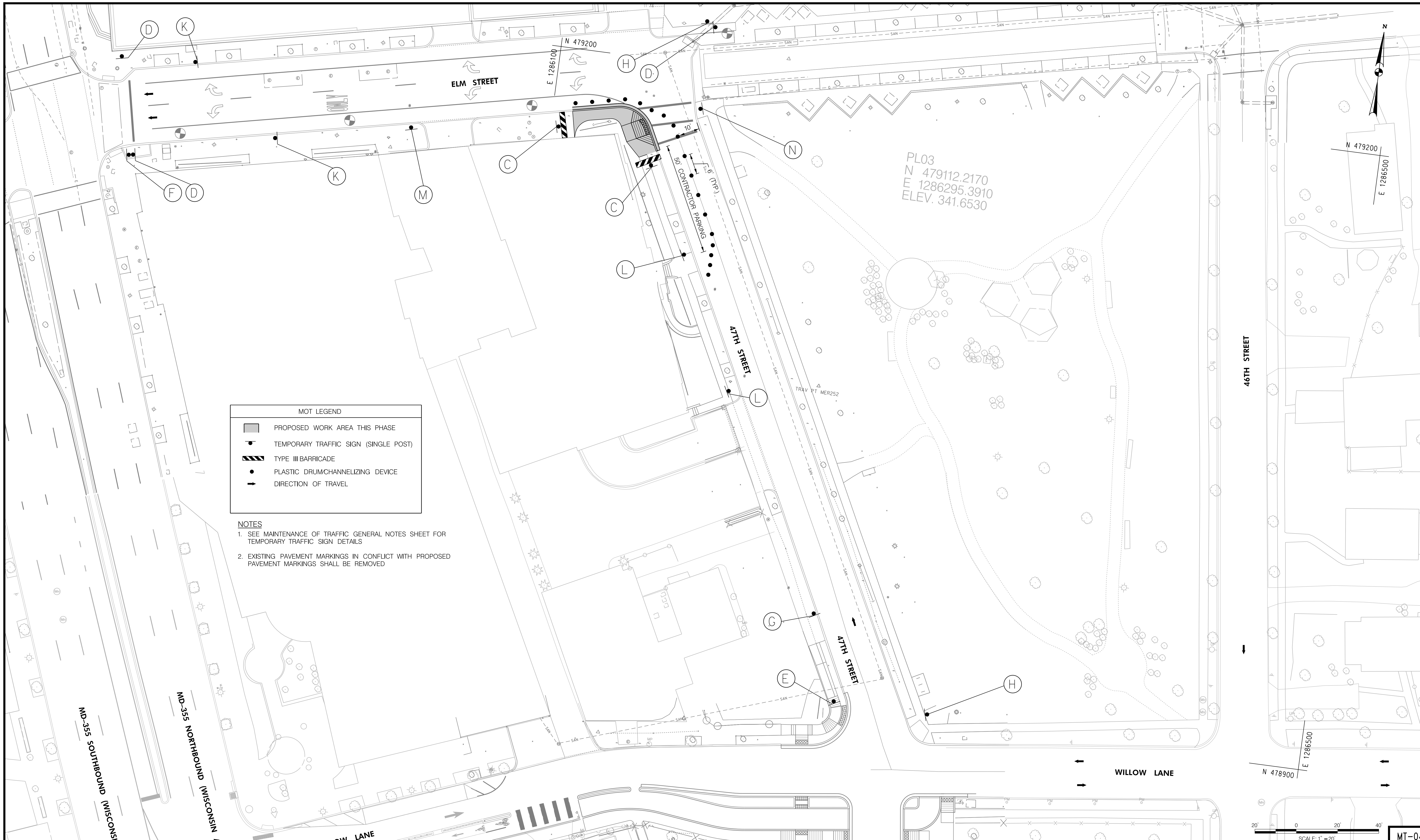
CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : 1" = 20'

MAY 2024

Project No. : 501307 SHEET 14 of 36

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MOT LEGEND	
	PROPOSED WORK AREA THIS PHASE
	TEMPORARY TRAFFIC SIGN (SINGLE POST)
	TYPE III BARRICADE
	PLASTIC DRUM CHANNELIZING DEVICE
	DIRECTION OF TRAVEL

- NOTES**
- SEE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET FOR TEMPORARY TRAFFIC SIGN DETAILS
 - EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED

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 EXPIRATION DATE: _____

WRA
 Whitman, Requardt & Associates, LLP
 801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: DTB Drawn by: DTB Checked by: PHD

MAINTENANCE OF TRAFFIC - PHASE 4

CAPITAL CRESCENT SURFACE TRAIL
 PHASE 2
 BETHESDA, MARYLAND

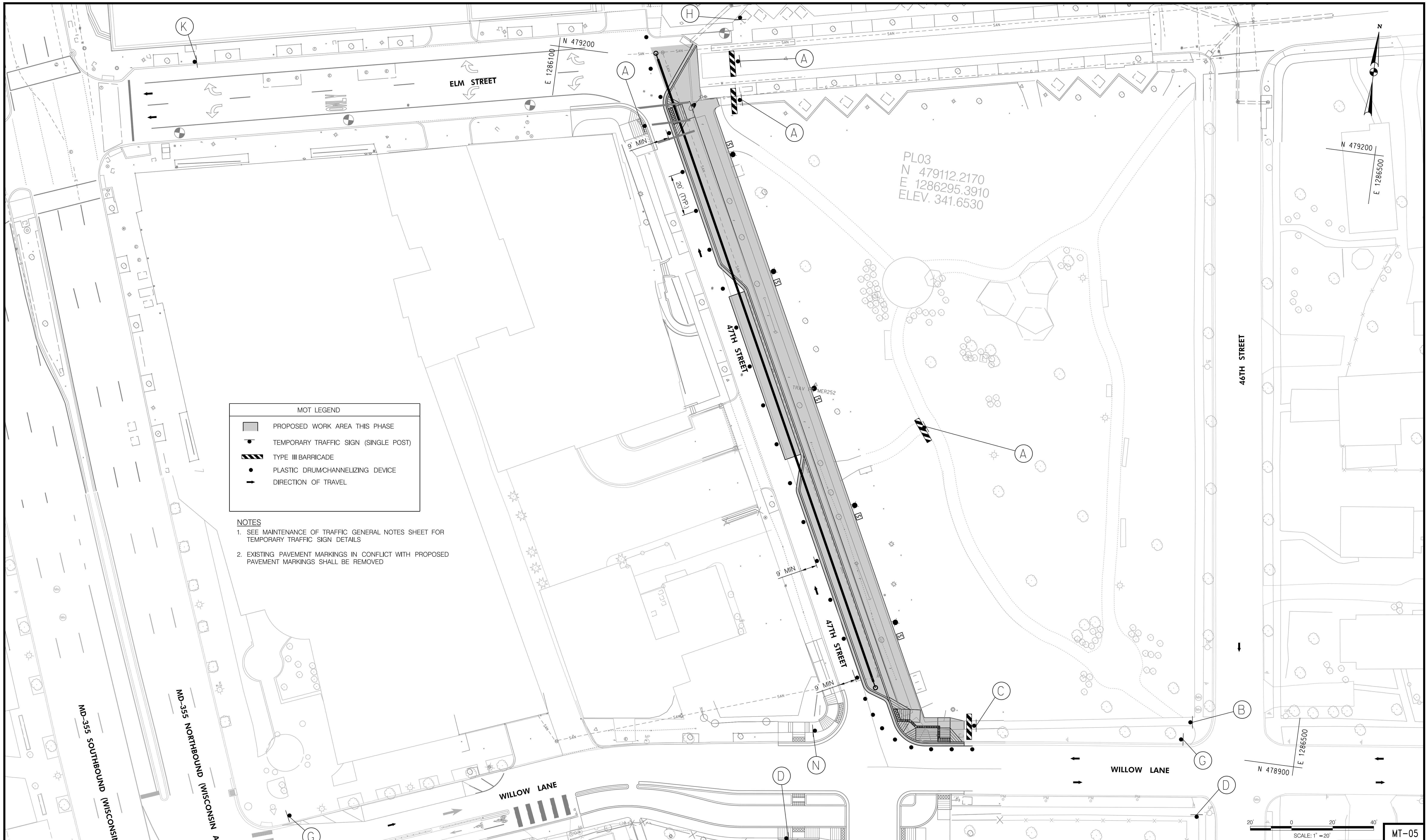
SCALE : 1" = 20'

MAY 2024

Project No. : 501307 SHEET 15 of 36

MT-04

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5/2/2024 8:04 AM



MOT LEGEND	
	PROPOSED WORK AREA THIS PHASE
	TEMPORARY TRAFFIC SIGN (SINGLE POST)
	TYPE III BARRICADE
	PLASTIC DRUM CHANNELIZING DEVICE
	DIRECTION OF TRAVEL

- NOTES**
- SEE MAINTENANCE OF TRAFFIC GENERAL NOTES SHEET FOR TEMPORARY TRAFFIC SIGN DETAILS
 - EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED

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ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____

WRA
Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date _____
APPROVED	
Chief, Division of Transportation Engineering	Date _____
Designed by: <u>DTB</u>	Drawn by: <u>DTB</u>
Checked by: <u>PHD</u>	

MAINTENANCE OF TRAFFIC - PHASE 5

**CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND**

SCALE : 1" = 20'

MAY 2024

Project No. : 501307 SHEET 16 of 36

MT-05



DEPARTMENT OF PERMITTING SERVICES

Mark Ehrlich
County Executive

Hadi Masoori
Acting Director

March 11, 2020

Mr. Kevin Schiefer
RJM Engineering
6031 University Blvd., Suite 290
Ellicott City, MD 21043

Re: **COMBINED STORMWATER MANAGEMENT
CONCEPT/SITE DEVELOPMENT
STORMWATER MANAGEMENT PLAN for
Capital Crescent Trail - Phase 2**
Preliminary Plan #: N/A
Site Plan #: N/A
SM File #: 285844
Tract Size: 0.38 ac
Total Concept Area: 0.38 ac
Zone: ROW
Lots/Block: N/A
Parcel(s): N/A
Watershed: Lower Rock Creek

Dear Mr. Schiefer:

Based on a review by the Department of Permitting Services Review Staff, the stormwater management concept for the above mentioned site is acceptable. The stormwater management concept proposes to meet required stormwater management requirements via granting of Quality (QI) and Quantity (QN) waiver from the requirement to provide on-site stormwater management.

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

1. Because of the project scope, the applicant can utilize the Small Land Disturbance Activities permit process for sediment control.

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

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 is required, however MCDOT does not pay waiver fees.

The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office, or additional information received during the development process, or a change in an applicable

255 Rockville Pike, 2nd Floor, Rockville, Maryland 20850 | 240-777-0311
www.montgomerycountymd.gov/permitting-services

Mr. Kevin Schiefer
March 11, 2020
Page 2 of 2

Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Mary Fertig at 240-777-6202 or at mary.fertig@montgomerycountymd.gov.

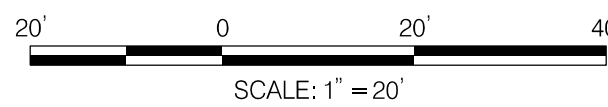
Sincerely,

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

MCE:MMF

cc: N. Braunstein
SM File # 285844

ESD: Provided/Revised 1.819 of 0 of
PE: Target/Achieved: 1.8/1.0
STRUCTURAL: N/A
WAIVED: Full QI and QN waiver (see waiver - DOT Project)



LEGEND:

— LOD — LIMIT OF DISTURBANCE

GENERAL NOTES:

1. THIS PROJECT UTILIZES THE SMALL LAND DISTURBANCE ACTIVITIES (SLDA) PERMIT PROCESS FOR SEDIMENT CONTROL.
2. NO AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS RUNOFF IS DIRECTED TO AN MCDPS APPROVED EROSION AND SEDIMENT CONTROL DEVICE. PROVIDE SAME DAY STABILIZATION FOR ALL DISTURBED AREAS NOT DRAINING TO AN APPROVED SEDIMENT CONTROL DEVICE.
3. NO SCE IS PROVIDED. ALL MATERIAL REMOVAL/LOAD OUT SHALL BE LIFTED FROM THE LOD. THE CONTRACTOR SHALL
A) EITHER CONDUCT ALL WORK FROM EXISTING PAVEMENT REACHING INTO THE WORK AREA
B) OR DESIGNATE PIECES OF CONSTRUCTION EQUIPMENT ALLOWED WITHIN THE LOD UNTIL THE PROPOSED WORK IS COMPLETE AND SHALL HAVE TREADS/TIRES CLEANED PRIOR TO LEAVING THE LOD. ANY SEDIMENT TRACKED ONTO THE ROADWAY SHALL BE PROMPTLY REMOVED.

SEQUENCE OF CONSTRUCTION:

1. SCHEDULE A PRE-CONSTRUCTION MEETING ON-SITE WITH THE MCDPS INSPECTION.
2. INSTALL THE SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH GUIDANCE GIVEN BY THE MCDPS INSPECTION.
3. PERFORM CONSTRUCTION WORK AS SHOWN ON CONTRACT PLANS.
4. UPON COMPLETION OF CONSTRUCTION AND ALL DISTURBED AREAS STABILIZED, SCHEDULE FINAL INSPECTION WITH THE MCDPS INSPECTION.

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: _____



RJM ENGINEERING
CONSULTING ENGINEERS
6031 UNIVERSITY BLVD, SUITE 290
ELICOTT CITY, MARYLAND

TEL: 410.730.1001 FAX: 410.730.5403

NO.	REVISION	DATE	BY

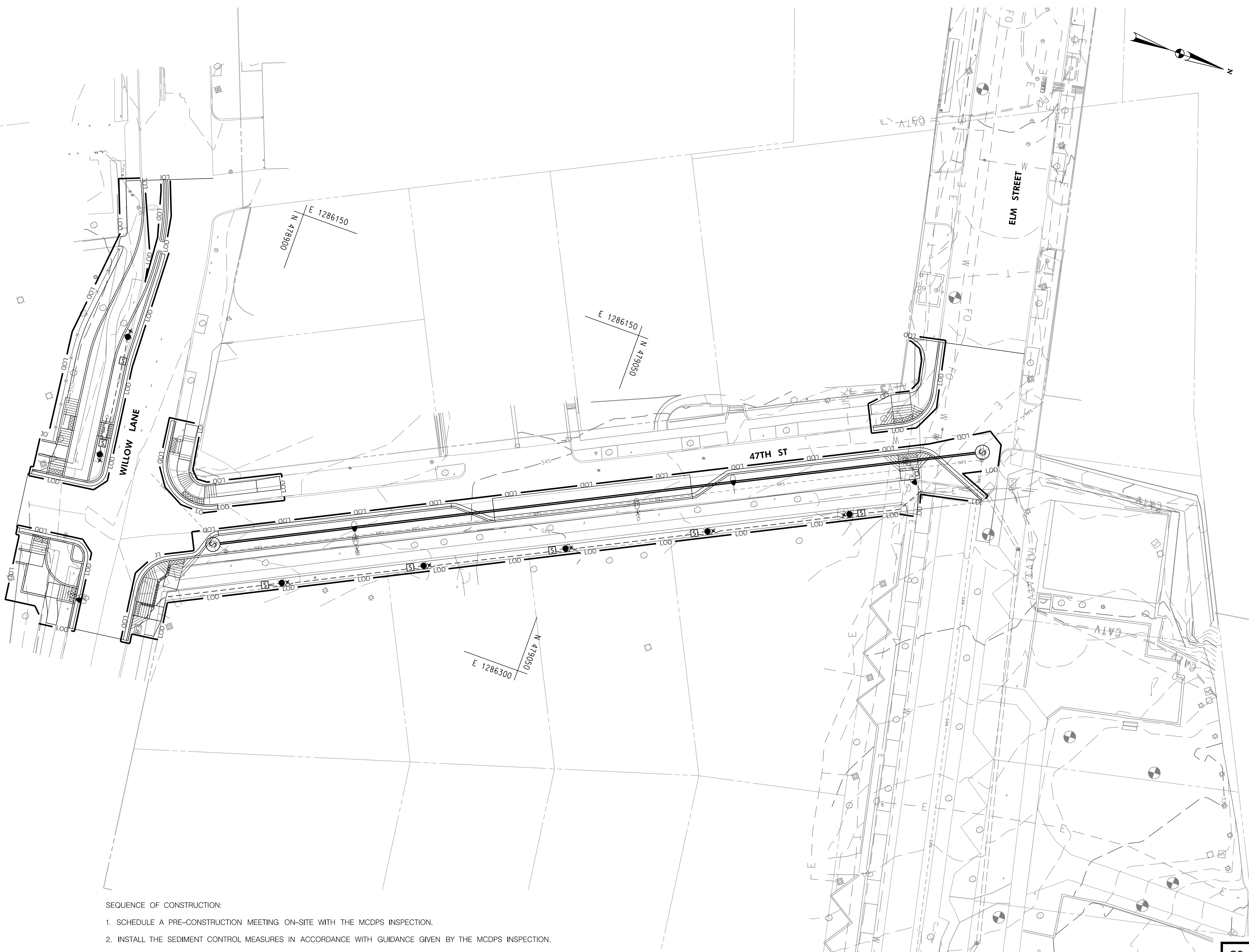
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: LY	Drawn by: LY
Checked by: WJ	

MCDPS SC/SWM SHEET

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE: 1"=20'-0"
Project No.: 501307

MAY 2024
SHEET 17 of 36



SC-01

SEEPDATE TIMES

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 MANUAL" - 1ST EDITION - 2010

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS" - 6TH EDITION - 2013 (INCLUDING INTERIM REVISIONS) (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.

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

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)

- A) STRUCTURAL TYPES
 - WOOD SUPPORTS
 - SQUARE TUBE

B) PANELS

MATERIAL - EXTRUDED ALUMINUM
COPY - DIRECT APPLIED
1) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

B) PANELS

MATERIAL - SHEET ALUMINUM
COPY - DIRECT APPLIED

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

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

STANDARD SIGNS

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

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

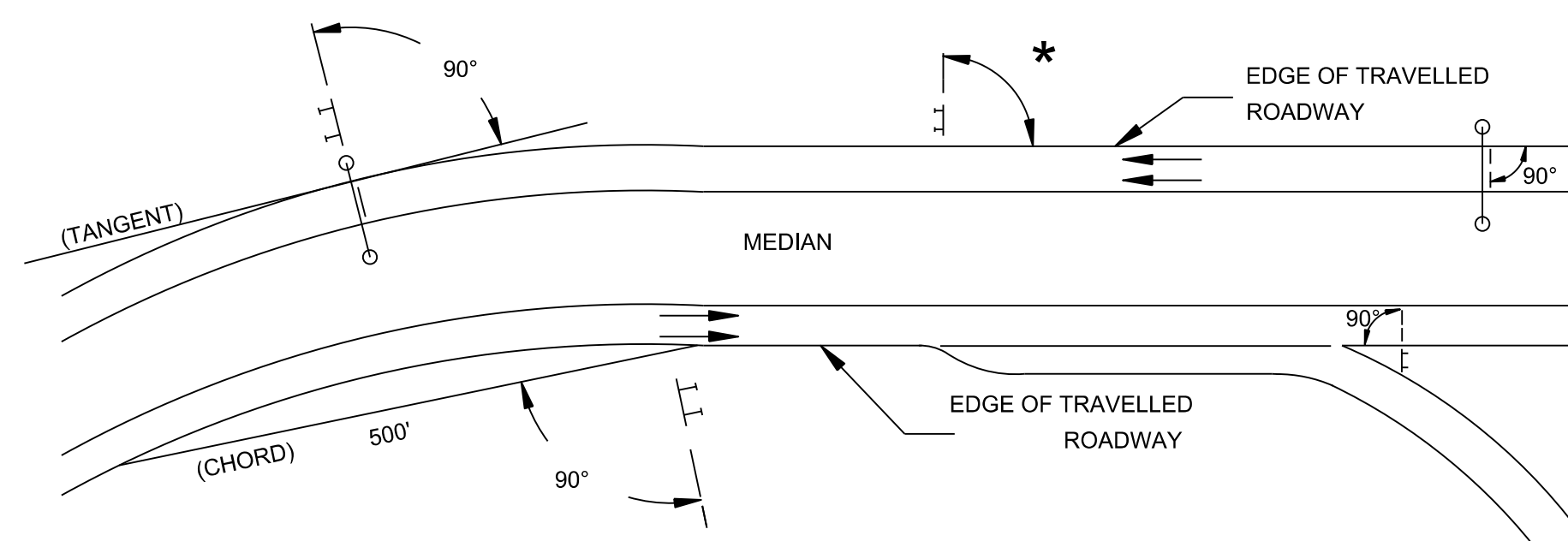
PANEL LAYOUT AND ALPHABETS

- 1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE.
- 2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MDMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE AT http://apps.roads.maryland.gov/businesswithsha/bizstdspecs/desmanualstdpub/publicationsonline/octools/internet_signbook.asp

REFLECTORIZATION

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

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

SIGN LOCATIONS

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

EXISTING UTILITIES

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

ROADSIDE SIGNS

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

OVERHEAD SIGNS

- 1. VERTICAL ALIGNMENT
POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
- 2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS.
- 3. HORIZONTAL ALIGNMENT
A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
- 4. VERTICAL CLEARANCE
A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF 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 2020 EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.
- 2. LISTED ON MDOT SHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL).

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 - FALL INTO TWO SUB CATEGORIES:

(I). GROUND MOUNTED:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).

(II). OVERHEAD STRUCTURE SIGNS AND OVERHEAD CANTILEVER SIGNS:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF ALL OVERHEAD SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI (11). (THIS SECTION DOES NOT APPLY TO OVERHEAD SIGNALIZED INTERSECTION SIGNING; MAST ARM OR SPAN WIRE. FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION FOR SIGNAL SIGNING.)

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). 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 IX (9). 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 IX (9).

(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; GROUND MOUNT ASTM TYPE IX (9) OR OVERHEAD ASTM TYPE XI (11).

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 IX (9). 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"

70% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

SN-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: _____

TOOLE DESIGN
8484 GEORGIA AVENUE,
SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	_____ Date _____
APPROVED	
Chief, Division of Transportation Engineering	_____ Date _____
Designed by: <u>JK</u>	Drawn by: <u>TT</u>
	Checked by: <u>MA</u>

SIGNING GENERAL NOTES	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : NONE	APRIL 2024
Project No. : <u>501307</u>	SHEET <u>18</u> of <u>36</u>

SIGNING AND PAVEMENT MARKINGS

1. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. ALL NEW SIGNS SHALL BE HIGH INTENSITY REFLECTIVE SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
3. PROPOSED SIGNS SHALL BE INSTALLED SO THAT THE EDGE OF SIGN PANEL IS A MINIMUM OF 2' BEHIND THE FACE OF CURB.
4. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 60" MINIMUM CLEAR IS REQUIRED BY SHA FOR PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
5. PROPOSED SIGNS AND RELOCATED EXISTING SIGNS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS, OR OBSTRUCT SIGHT LINES AT INTERSECTIONS.
6. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.
7. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
8. NEW POST INSTALLATION SHALL COMPLY WITH MD SHA STANDARD NO. MD 802.04 AND MD 813.08-1.
9. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM PER MD SHA STANDARD NO. MD 813.08. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
10. IF SIGN INSTALLATION IS SHOWN ON A POLE THAT IS NOT OWNED BY THE COUNTY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.
11. ALL CROSSWALKS SHALL BE INSTALLED CONNECTING THE CURB RAMPS SUCH THAT THE CURB RAMPS FALL WITHIN THE MARKED CROSSWALK. DIAGONAL CORNER CURB RAMPS SHALL HAVE A CLEAR SPACE OF FOUR FEET WITHIN THE CROSSWALK MARKINGS. CROSSWALK MARKINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FINAL INSTALLATION.

SIGN DESCRIPTION	APPROX. LOCATION	SIZE (IN)	NEW	RELOCATE	REMOVE	SIGN SUPPORT (LF)
			AREA (SF)	AREA (SF)	AREA (SF)	
R7-1 (EXISTING)	STA. 42+54, OFF. 14.7' RT ON WILLOW LN (EXISTING)					-
R7-1 (EXISTING)	STA. 42+62, OFF. 12.2' RT ON WILLOW LN (RELOCATED)	12 x 18	-	1.5	-	12
R3-17 (EXISTING)	STA. 42+88, OFF. 13.8' RT ON WILLOW LN (EXISTING)					-
R3-17b (EXISTING)	STA. 42+88, OFF. 13.8' RT ON WILLOW LN (EXISTING)					-
R1-1 (EXISTING)	STA. 42+99, OFF. 15.7' LT ON WILLOW LN (RELOCATED)	30 x 30	-	6.3	-	12
R1-1 (EXISTING)	STA. 43+00, OFF. 14.3' RT ON WILLOW LN (RELOCATED)	30 x 30	-	6.3	-	12
R9-6	STA. 43+02, OFF. 36.5' RT ON WILLOW LN (NEW)	18 x 12	1.5	-	-	12
R1-1 (EXISTING)	STA. 43+13, OFF. 15.4' LT ON WILLOW LN (EXISTING)					-
R5-1 (EXISTING)	STA. 43+13, OFF. 17.8' LT ON WILLOW LN (EXISTING)					-
D-3 (EXISTING) x 2	STA. 43+13, OFF. 17.8' LT ON WILLOW LN (EXISTING)					-
D-3 (EXISTING) x 2	STA. 43+13, OFF. 17.8' LT ON WILLOW LN (EXISTING)					-
R1-1 (EXISTING)	STA. 43+16, OFF. 13.6' RT ON WILLOW LN (EXISTING)					-
R5-1 (EXISTING)	STA. 43+18, OFF. 17.0' LT ON WILLOW LN (RELOCATED)	30 x 30	-	6.3	-	12
D-3 (EXISTING) x 2	STA. 43+18, OFF. 17.0' LT ON WILLOW LN (RELOCATED)	12 x 36	-	6.0	-	12
D-3 (EXISTING) x 2	STA. 43+18, OFF. 17.0' LT ON WILLOW LN (RELOCATED)	12 x 36	-	6.0	-	12
R9-6	STA. 43+22, OFF. 14.5' RT ON WILLOW LN (NEW)	18 x 12	1.5	-	-	12
R1-1 (EXISTING)	STA. 43+62, OFF. 40.6' RT ON WILLOW LN (RELOCATED)	30 x 30	-	6.3	-	12
R3-2 (EXISTING)	STA. 43+62, OFF. 40.6' RT ON WILLOW LN (RELOCATED)	24 x 24	-	4.0	-	12
R1-1 (EXISTING)	STA. 43+64, OFF. 40.6' RT ON WILLOW LN (EXISTING)					-
R3-2 (EXISTING)	STA. 43+64, OFF. 40.6' RT ON WILLOW LN (EXISTING)					-
CUSTOM PARKING (EXISTING)	STA. 43+65, OFF. 37.4' RT ON WILLOW LN (RELOCATED)	36 x 36	-	9.0	-	12
CUSTOM PARKING (EXISTING)	STA. 43+65, OFF. 29.6' RT ON WILLOW LN (EXISTING)					-
R7-4R (EXISTING)	STA. 43+71, OFF. 14.7' RT ON WILLOW LN (EXISTING)					-
R7-5 (EXISTING)	STA. 43+71, OFF. 14.7' RT ON WILLOW LN (EXISTING)					-
R1-1	STA. 43+92, OFF. 17.0' LT ON WILLOW LN (NEW)	30 x 30	6.3	-	-	12
R7-4R (EXISTING)	STA. 44+00, OFF. 14.5' RT ON WILLOW LN (RELOCATED)	12 x 18	-	1.5	-	12
R7-5 (EXISTING)	STA. 44+00, OFF. 14.5' RT ON WILLOW LN (RELOCATED)	12 x 18	-	1.5	-	12
D3-2 (EXISTING)	STA. 50+23, OFF. 27.5' RT ON 47TH ST (EXISTING)					-
D3-2 (EXISTING)	STA. 50+33, OFF. 22.2' RT ON 47TH ST (RELOCATED)	24 x 36	-	6.0	-	12
R7-4 (MOD)	STA. 50+40, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-4 (EXISTING)	STA. 50+43, OFF. 25.9' RT ON 47TH ST (REMOVE)	12 x 18	-	-	1.5	-
R3-1 (EXISTING)	STA. 50+89, OFF. 26.3' RT ON 47TH ST (EXISTING)					-
R6-1L (EXISTING)	STA. 50+89, OFF. 26.3' RT ON 47TH ST (EXISTING)					-
R3-1 (EXISTING)	STA. 50+90, OFF. 22.2' RT ON 47TH ST (RELOCATED)	24 x 24	-	4.0	-	12
R6-1L (EXISTING)	STA. 50+90, OFF. 22.2' RT ON 47TH ST (RELOCATED)	36 x 12	-	3.0	-	12
R7-4 (EXISTING ON UTILITY POLE)	STA. 50+97, OFF. 27.0' RT ON 47TH ST (REMOVE)	12 x 18	-	-	1.5	-
R7-6L	STA. 51+47, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-4 MOD	STA. 51+47, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R3-1 (EXISTING)	STA. 51+55, OFF. 22.2' RT ON 47TH ST (RELOCATED)	24 x 24	-	4.0	-	12
R3-1 (EXISTING)	STA. 51+60, OFF. 26.0' RT ON 47TH ST (EXISTING)					-
R6-1L (EXISTING)	STA. 51+64, OFF. 22.2' RT ON 47TH ST (RELOCATED)	24 x 24	-	4.0	-	12
R6-1L (EXISTING)	STA. 51+70, OFF. 25.6' RT ON 47TH ST (EXISTING)					-
R7-6L	STA. 51+91, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-2a MOD	STA. 51+91, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-4 (EXISTING)	STA. 51+93, OFF. 25.5' RT ON 47TH ST (REMOVE)	12 x 18	-	-	-	-
W3-1 (EXISTING)	STA. 52+25, OFF. 28.1' RT ON 47TH ST (EXISTING)					-
W3-1 (EXISTING)	STA. 52+27, OFF. 22.2' RT ON 47TH ST (RELOCATED)	30 x 30	-	6.3	-	12
R7-4 MOD	STA. 52+45, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-2a MOD	STA. 52+45, OFF. 22.2' RT ON 47TH ST (NEW)	12 x 18	1.5	-	-	12
R7-4 (EXISTING)	STA. 52+74, OFF. 25.3' RT ON 47TH ST (REMOVE)	12 x 18	-	-	1.5	-
R1-1 (EXISTING)	STA. 53+22, OFF. 16.7' RT ON 47TH ST (RELOCATED)	30 x 30	-	6.3	-	12
R5-1 (EXISTING)	STA. 53+22, OFF. 16.7' RT ON 47TH ST (RELOCATED)	30 x 30	-	6.3	-	12
R1-1 (EXISTING)	STA. 53+23, OFF. 25.9' RT ON 47TH ST (EXISTING)					-
R5-1 (EXISTING)	STA. 53+23, OFF. 25.9' RT ON 47TH ST (EXISTING)					-

MARKING LEGEND
EXISTING PROPOSED

		SIGN AND POST
		BICYCLE LANE SYMBOL
		5" SOLID WHITE LANE LINE
		10" SOLID WHITE LANE LINE
		5" BROKEN WHITE LANE LINE (10' STRIPE, 30' SKIP)
		5" DOTTED WHITE OR YELLOW LANE LINE (2' STRIPE, 4' SKIP)
		10" DOTTED WHITE LANE LINE (2' STRIPE, 4' SKIP)
		5" SOLID YELLOW LANE LINE
		5" SOLID YELLOW CENTERLINE
		5" DASHED YELLOW CENTERLINE (3' STRIPE, 9' SKIP)
		5" DOUBLE SOLID YELLOW CENTERLINE
		5" SOLID YELLOW LANE LINE WITH 5" BROKEN YELLOW LANE LINE (10' STRIPE, 30' SKIP)
		8" SOLID WHITE/BLACK CONTRAST TAPE (SUGGESTED MANUFACTURER: 3M STAMARK OR APPROVE EQUAL)
		10" SOLID WHITE CHANNELIZATION LINE (45° TYP.)
		10" SOLID YELLOW CHANNELIZATION LINE (45° TYP.)
		12" SOLID WHITE LINE
		16" STOP LINE
		24" STOP LINE
		HIGH VISIBILITY CROSSWALK
		WHITE PAVEMENT ARROW, REFER TO MDMUTCD
		BIKE LANE WHITE PAVEMENT ARROW, REFER TO MDMUTCD
		SIGN
		ADVANCE SPEED HUMP MARKING, REFER TO MDMUTCD
		BICYCLE CROSSING STRIPING

70% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

SN-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: _____

TOOLE
DESIGN

8484 GEORGIA AVENUE,
SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
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www.tooledesign.com

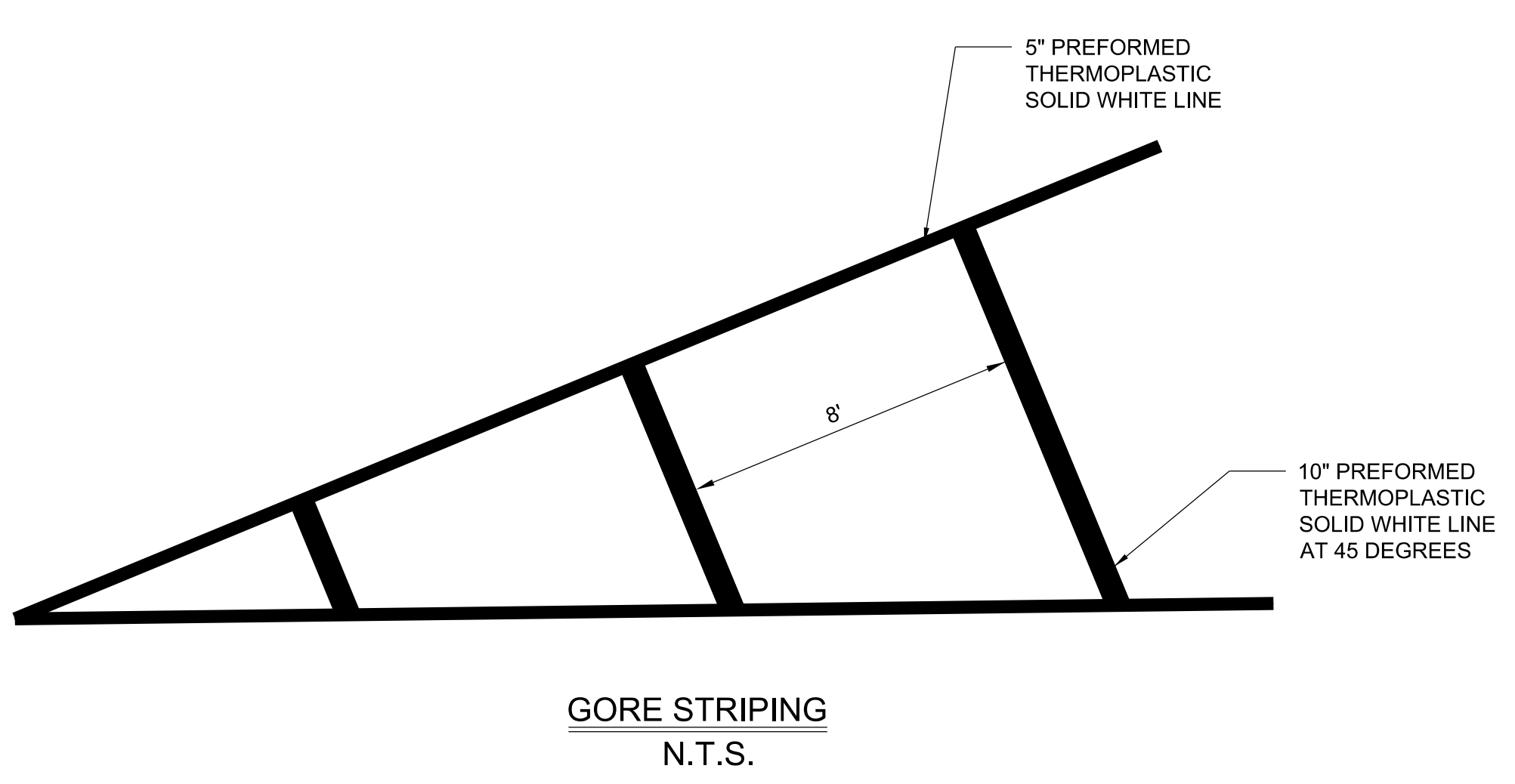
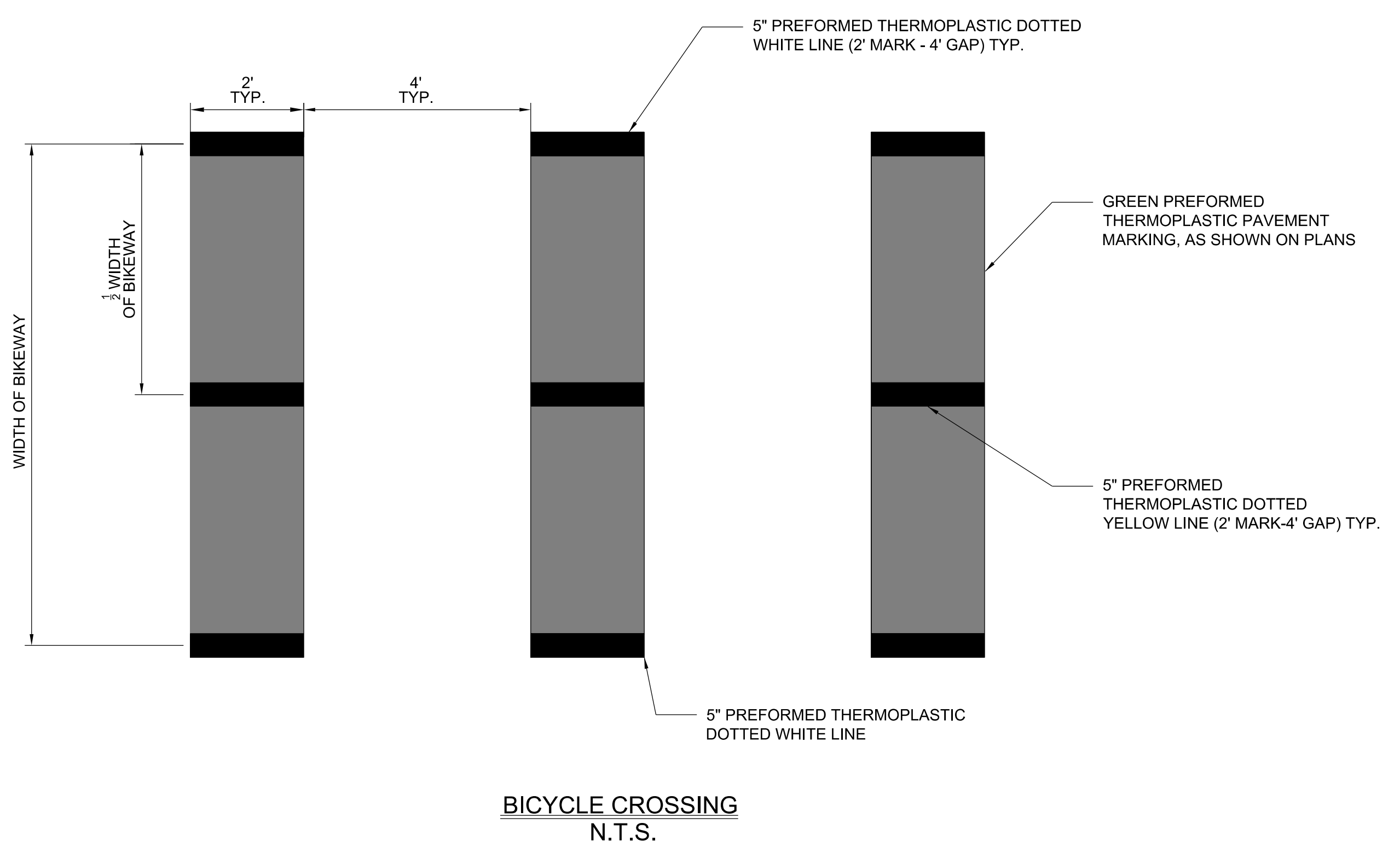
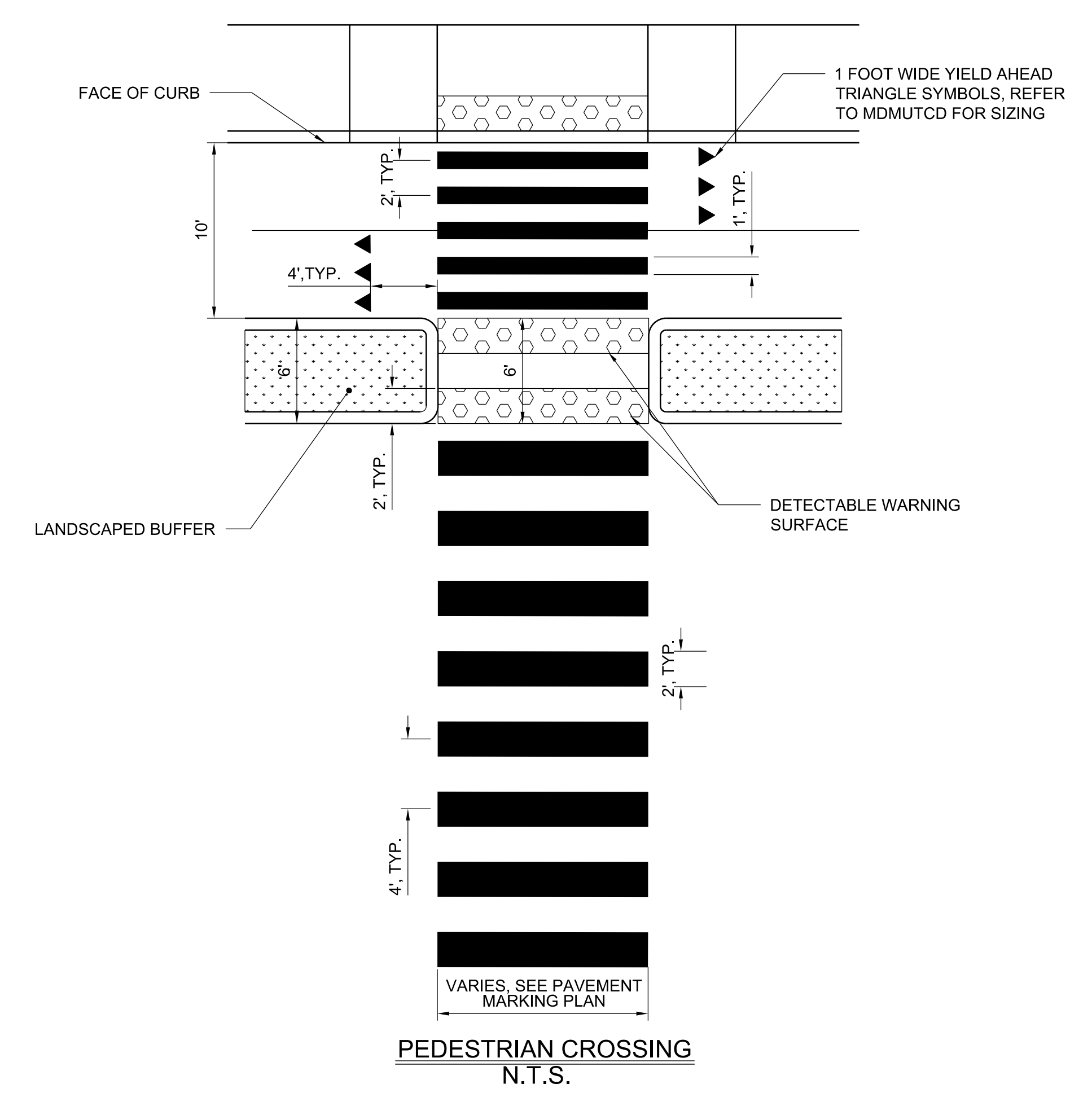
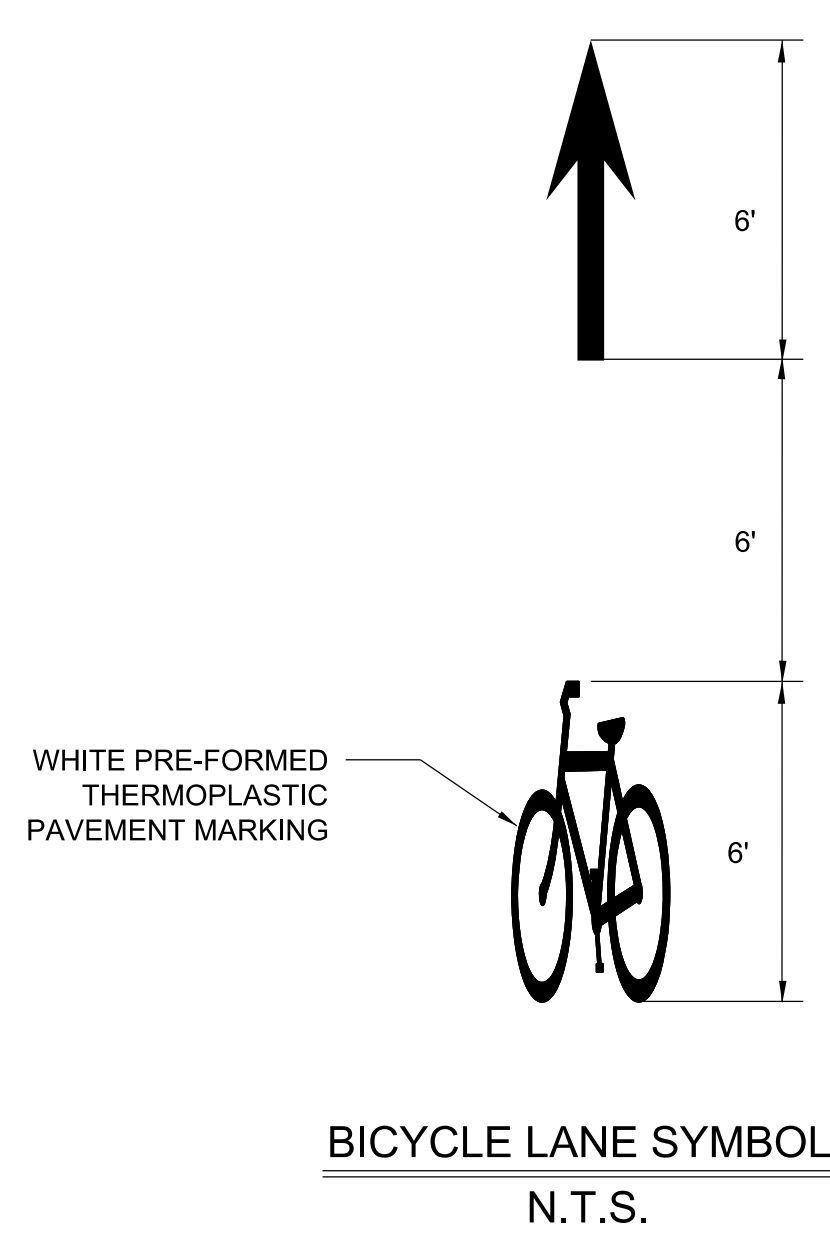
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Transportation Planning and Design Section	_____	Date	_____
APPROVED			
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: <u>JK</u>	Drawn by: <u>TT</u>	Checked by: <u>MA</u>	
NO.	REVISION	DATE	BY

SIGNING AND PAVEMENT MARKING LEGEND
AND SIGN LOCATION TABLE

**CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND**

SCALE : NONE APRIL 2024

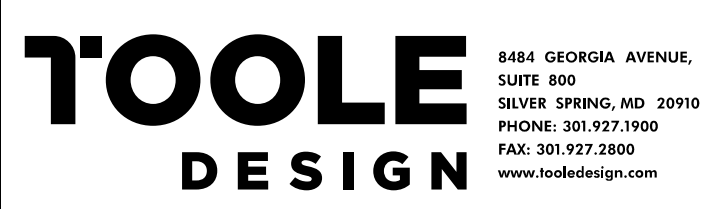
Project No. : 501307 SHEET 19 of 36



70% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

SN-03

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



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JK Drawn by: TT Checked by: MA

PAVEMENT MARKING DETAILS

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE APRIL 2024

Project No. : 501307 SHEET 20 of 36



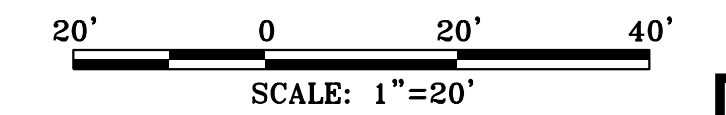
SIGN LEGEND

- EXISTING GROUND MOUNTED SIGN AND SUPPORT
- PROPOSED GROUND MOUNTED SIGN AND SUPPORT
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- PAVEMENT MARKING ARROW
- PROPOSED LIGHTING, SEE LIGHTING PLANS FOR DETAILS

PAVEMENT MARKING LEGEND

- A 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- B 5 INCH BROKEN WHITE THERMOPLASTIC PAVEMENT MARKINGS (10' LINE WITH 30' GAP)
- C WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- D 24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- E 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- F 12 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
- G BICYCLE CROSSING (SEE SN-03, SIGNING AND MARKING DETAILS)
- H 10 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION



SN-04

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



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: JK Drawn by: JK Checked by: MA

SIGNING AND PAVEMENT MARKING PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE: 1" = 20' APRIL 2024

Project No. : 501307 SHEET 21 of 36

- CONSTRUCTION DETAILS:**
- INSTALL (1) 2 INCH SCHEDULE 40 PVC CONDUIT.
 - INSTALL (2) 4 INCH SCHEDULE 40 PVC CONDUITS.
 - INSTALL PEPCO APPROVED SECONDARY STREET LIGHT SPLICE BOX (17"x30"x30") 9718-8065.
 - INSTALL (2) 4 INCH SCHEDULE 40 PVC CONCRETE ENCASED CONDUITS, CAP AND MARK CONDUITS 2 FEET ABOVE GRADE AT LOCATION OF EXISTING PEPCO UTILITY POLE.
 - INSTALL BETHESDA LED GLOBE LUMINAIRE AND DECORATIVE BETHESDA CAST STREETLIGHT POST ON BETHESDA LANTERN LIGHT POLE BASE.

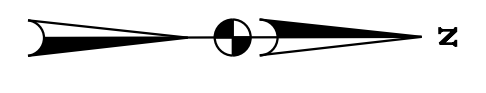
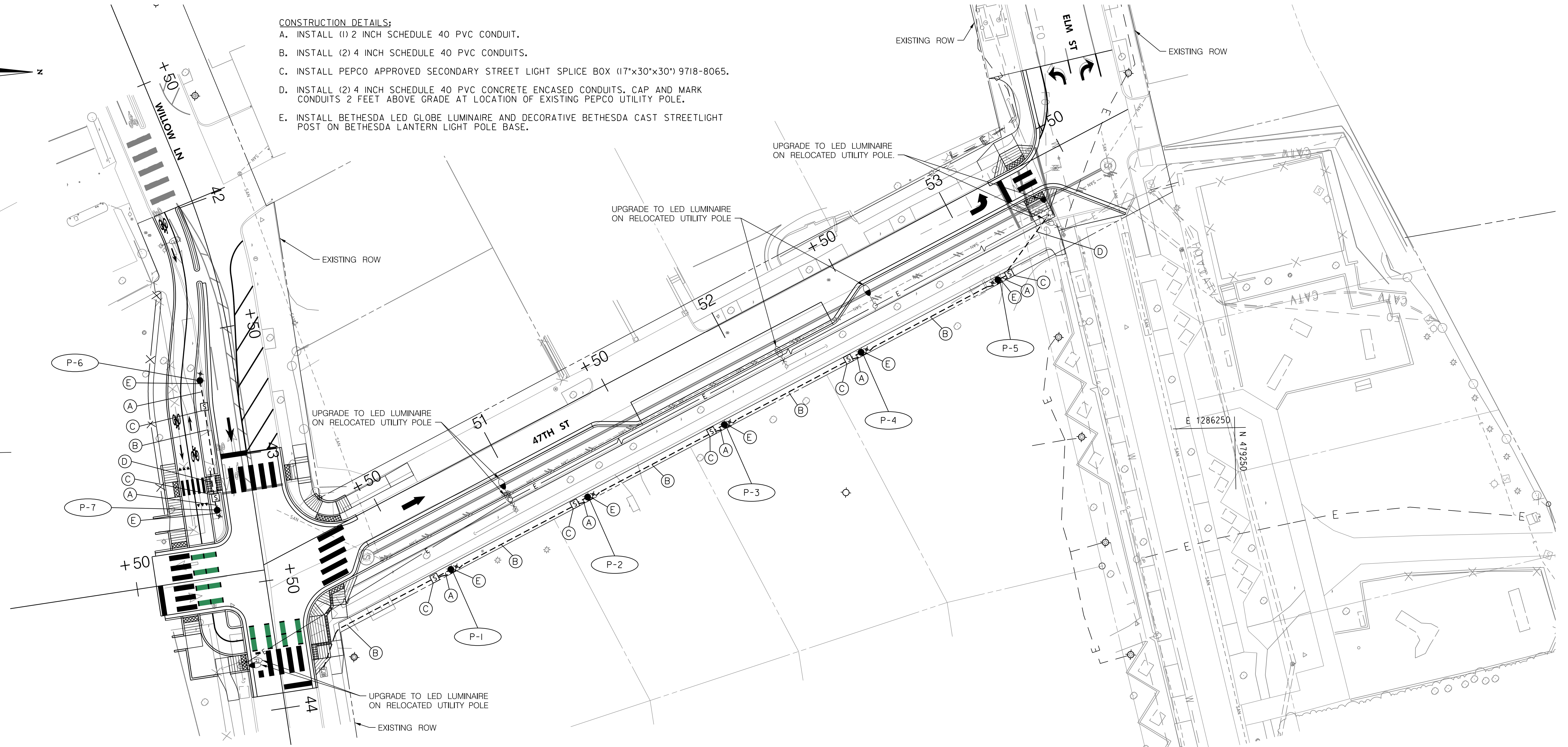
UPGRADE TO LED LUMINAIRE ON RELOCATED UTILITY POLE.

UPGRADE TO LED LUMINAIRE ON RELOCATED UTILITY POLE.

UPGRADE TO LED LUMINAIRE ON RELOCATED UTILITY POLE.

UPGRADE TO LED LUMINAIRE ON RELOCATED UTILITY POLE.

EXISTING ROW



E 1286250
N 478750

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

POLE/LUMINAIRE SCHEDULE				
POLE/LUMINAIRE NUMBER	STATION	OFFSET	MOUNTING HEIGHT (FEET)	TYPE
P-1	50+63.6	35.5' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-2	51+23.8	35.4' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-3	51+84.0	35.3' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-4	52+44.2	35.2' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-5	53+4.4	35.1' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-6	52+69.0	13.6' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST
P-7	53+19.9	14.7' RT.	13'-0"	66 WATT BETHESDA LED GLOBE LUMINAIRE ON DECORATIVE BETHESDA CAST STREETLIGHT POST

LIGHTING LEGEND

- EXISTING UTILITY POLE MOUNTED LUMINAIRE TO REMAIN
- EXISTING UTILITY POLE MOUNTED LUMINAIRE TO BE REMOVED (BY OTHERS)
- PROPOSED UTILITY POLE MOUNTED LED LUMINAIRE (BY OTHERS)
- EXISTING DECORATIVE LUMINAIRE AND LIGHT POLE
- PROPOSED DECORATIVE BETHESDA LED GLOBE LUMINAIRE AND LIGHT POLE
- PROPOSED CONDUIT
- EXISTING ELECTRICAL LINE
- PROPOSED LIGHT POLE / LUMINAIRE IDENTIFIER
- PROPOSED GROUND ROD
- PROPOSED PEPCO APPROVED SECONDARY STREET LIGHT SPLICE BOX (17"x30"x30") 9718-8065
- EXISTING JUNCTION BOX

GENERAL LIGHTING NOTES:

- THE CONSTRUCTION OF THE LIGHTING SYSTEM SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS OF THE CONTRACT; MDOT SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES; MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
- ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL VERIFY UTILITIES PRIOR TO CONSTRUCTION.
- PEPCO WILL FURNISH AND INSTALL ELECTRICAL WIRING TO ENERGIZE THE BETHESDA LED GLOBE LUMINAIRES. ALL OTHER WORK SHALL BE COMPLETED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH PEPCO DURING CONSTRUCTION.
- POST NUMBERING TAGS SHALL BE FURNISHED AND INSTALLED ON TWO SIDES OF EACH POLE, AS DIRECTED BY THE ENGINEER. SEE DRAWING LT-05 FOR POST NUMBERING TAG DETAILS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL BANNER HANGERS ON ALL PROPOSED LIGHT POLES IN ACCORDANCE WITH THE BANNER PLACEMENT ON STREETLIGHT POLE NOTES ON DRAWING LT-06.
- UTILITY RELOCATION COORDINATION WITH PEPCO IS PENDING. THE PROPOSED LOCATION OF UTILITY POLES WILL BE REVISED FOLLOWING THE 70% SUBMISSION.

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



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: NED Drawn by: NED Checked by: SMD

LIGHTING PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE: 1" = 20'

MAY 2024

Project No. : 501307 SHEET 22 of 36

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LT-01

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND OPERATIONS

JUNE 2016

BETHESDA LED GLOBE LUMINAIRE

1) PURPOSE

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of Bethesda LED Globe luminaire. The Bethesda Globe luminaires are intended for use in urban streetscape areas. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

2) DESCRIPTION

This luminaire shall be an outdoor decorative post top fixture, cylindrical in shape with and overall height of 42 +/- 1 inches and a maximum width of 19 +/- 1/2 inches at top (see attached drawings). All exterior and structural parts shall be cast of aluminum alloy. Exterior castings shall be cast in two pieces, have a smooth surface finish, and be free of mold lines. All components shall fit together snugly so as to provide weather-proof joints in the luminaire top. All visible metal components shall have raised surface decorations or ribs, as shown on the attached drawings, which are molded integrally with the base piece. Likewise, the hinges between the top and main body as well as between the driver cover and the base shall be cast integrally with the piece or bolted through the base piece. All metal parts shall be corrosion-proof. The luminaire shall come ready for quick and easy field assembly or fully assembled and shall include the following components:

- a) Lamp;
- b) Twist-Lock type photoelectric cell installed on the ballast cover;
- c) 120 Volt Driver with 10KV surge protection
- c) All necessary hardware and fasteners to assemble and secure on a 2 7/8 inch nominal diameter cast iron or aluminum tenon.

The luminaire must be able to accommodate a 120 volt drive and surge protector.

3) LENS

The lens shall consist of a seamless flat glass, not subject to deterioration by natural light. The lens shall have a continuous neoprene waterproof gasket at top. The gaskets shall fit into grooves molded into the top or over retaining rings molded inside the top plate.

4) METAL CAGE

The metal cage shall be constructed of die-cast A360 aluminum alloy. The metal cage shall have 4 legs each with a square decorative block with solid rectangular band around the top of the cage between each decorative block. The support columns shall consist of four (4) dual columns connecting the top and bottom of the fixture

5) HINGED LUMINAIRE TOP & OPTICAL SYSTEM

The hinged luminaire top shall consist of an LED optic assembly and all exterior components visible in plain view above the lens. The optical system shall be located in the top cover of the fixture. A gasket between the cover and the ring along with a flat glass plate and gasket beneath the LED panel and create a sealed optical compartment that will meet IP rating. The top must have an attached, removable brace to support the top when open. The optical system shall provide an IES asymmetric or symmetric full cut off distribution.

6) ELECTRICAL MODULE

The electrical components shall be mounted on a steel plate that is removable without use of tools. All components shall be plug-in. The housing door shall be hinged and be latched to provide east access to the electrical module. The housing door shall be fastened by a captive fastener.

7) DRIVER and SURGE PROTECTOR

The driver shall be mounted to facilitate easy removal for maintenance operations. The driver shall be equipped with a 10KV Surge Protection and suppression system. All electrical connections shall be polarized and of plug-in design. The driver shall be wired to receive 120 volt AC current. The driver shall reliably start and operate the lamp in ambient temperatures down to minus 30 degrees. The terminal block shall be capable of accepting up to a #6 AWG wire.

8) LED Color Temperature (CCT) and Rendering Index (CRI)

The Correlated Color Temperature (CCT) shall be a nominal Kelvin Temperature of 3500K ± 200 K with a minimum Color Rendering Index (CRI) of 70.

9) PHOTOCELL

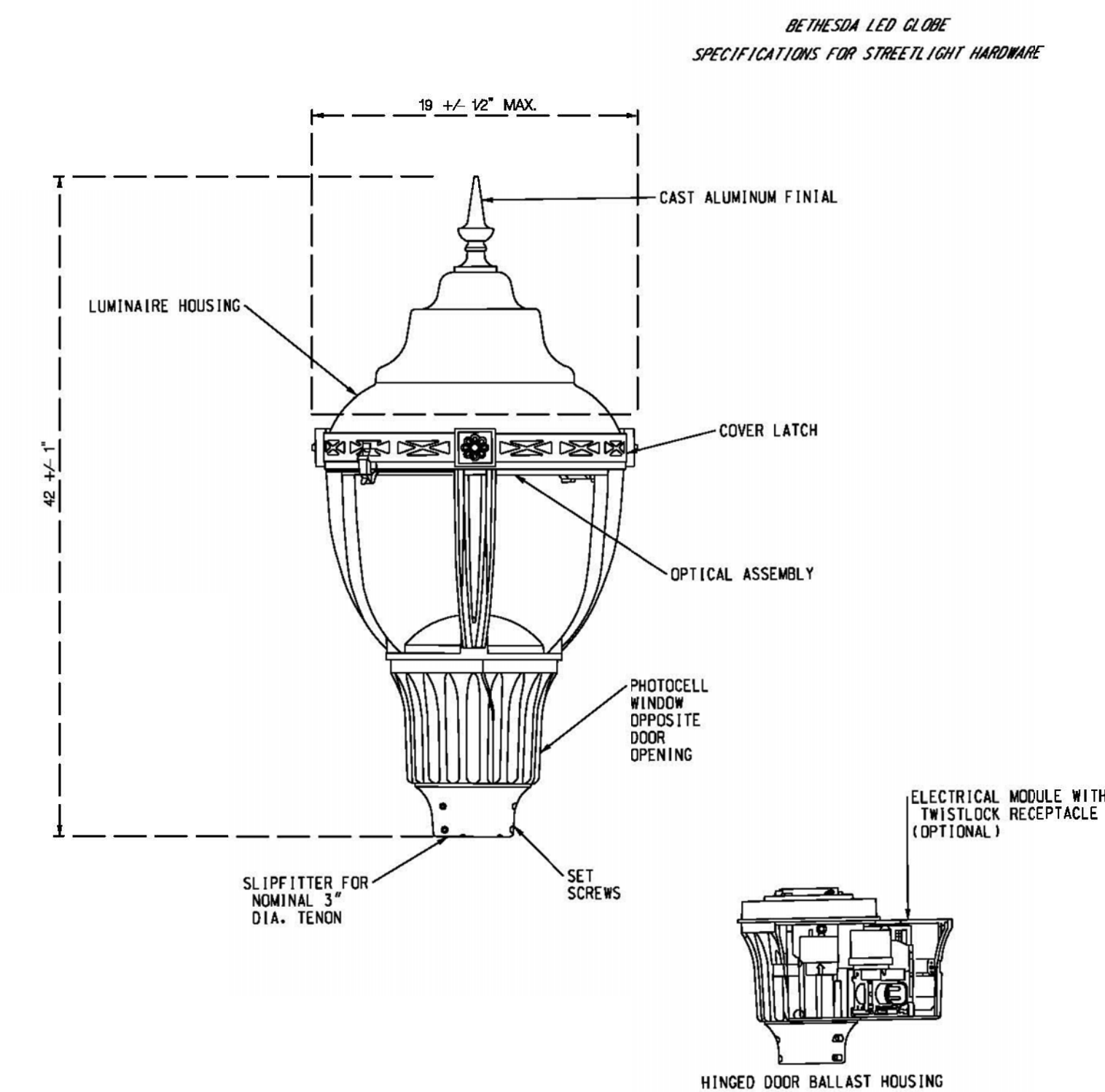
The photocell shall be a twist-lock and shall be mounted inside the fixture.

10) UNDERWRITERS LABORATORY LISTING

The entire luminaire assembly shall be U.L. listed and suitable for wet locations.

11) EXTERIOR FINISH

The exterior finish shall be "Federal Green" Federal Standard 595B Color # 14036 or Tiger Drylac #RAL6009 electrostatically-applied thermoset polyester powder coat.



SPECIAL NOTE:

1. 66 WATT BETHESDA LED GLOBE DECORATIVE LUMINAIRES WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. THE PAYMENT WILL BE FULL COMPENSATION FOR THE LED LUMINAIRE AND DRIVERS, MOUNTING HARDWARE, WIRING, INTEGRAL TRANSFORMER, SHORTING CAP, AND ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

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LT-02

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Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: NED Drawn by: NED Checked by: SMD

LIGHTING PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE MAY 2024

Project No. : 501307 SHEET 23 of 36

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND OPERATIONS

JUNE 2016

DECORATIVE BETHESDA
CAST STREETLIGHT POST

1) DESCRIPTION

The decorative Bethesda cast streetlight post is made of an integrally cast iron or cast aluminum, finished with a polyester powder coating. This streetlight post is intended for use at the curbside along selected roadways in the Bethesda Central Business District (CBD). Any manufacturer, distributor or vendor who submits bid shall agree to comply with these specifications.

Each pole shall be complete with the following:

- Access plate with attaching hardware;
- Anchor bolts, nuts, and washers (as specified);
- Typical footing design specifications including but limited to, base template, anchor bolt dimensions, reinforcement and footer details;
- One (1) pint can of touch-up paint, "Federal Green", federal color 595B, # 14036.

2) DESIGN CRITERIA

2.1 AASHTO Standards

The decorative Bethesda streetscape cast streetlight post shall meet the requirements of the American Association of State Highway and Transportation Officials (AASHTO) Standard, "Specification for Structural supports for Highway Signs, Luminaires and Traffic Signals," latest edition.

2.2 Wind Load

The decorative Bethesda streetscape cast streetlight post shall be designed to resist (at yield strength of the material without permanent deflection or destruction), test loads equivalent to the calculated wind loads developed by the velocity pressures of an 80 MPH wind with a 30% gust factor. A minimum safety factor of 1.82 on the yield strength shall be maintained.

2.3 Effective Projected Area (EPA)

The decorative Bethesda streetscape cast streetlight post shall have an EPA allowable for the following assumptions:

- Streetlight luminaire shall be assumed to be rectangular in shape with triangular shapes at the top and bottom, minimum length plus width of sixty-five (65) inches, when viewed from above.
- The streetlight luminaire shall have a nominal mounting height of 16 feet above the base.
- One or two (24" x 36") maximum traffic signs may be mounted with the sign's bottom edge 7 feet above the base.

3) MATERIALS

3.1 Iron Casting

The lamp post shall be integrally cast as one piece and shall be cast iron per ASTM A-48--72, Class 30. The sections are to be indicated below. The castings are to be true to pattern, with 16 flutes separated by 16 flat facets. All ornamental components shall be cast iron.

3.2 Aluminum Casting

The lamp post may be cast in one piece, as described above, of aluminum alloy of the same details as described above and minimum wall thickness as described below. The alloy used in the casting shall have a minimum yield strength of 30,000 PSI and shall be heat treated as required to provide that yield strength.

3.3 Split Casting

The lamp post may be a multiple piece castings that are factory-assembled into one piece may be considered, provided that there are no gaps between any pieces of the assembly that would allow water seepage or rust. Prior written approval required for the method.

4) SHAFT

The entire shaft shall be straight within +/- 3/16 inch along the center axis of the shaft. Dimensions and wall thickness of the lamp post shall be as follows and as per the attached drawing:

- Column at base - 5 3/4 inches outside diameter and 1/2 inch minimum wall thickness from outer edge of flute to inside wall.
- Column at top - 3 1/4 inches outside diameter and 3/8 inch minimum wall thickness from outer edge of flute to inside wall .
- Base at base - 17 inches outside diameter and 1/2" minimum wall thickness Flange 7/8" minimum thickness.

5) RECEPTACLE

The post shall incorporate a 15A120V GFI duplex receptacle with a waterproof cover, painted to match post. Receptacle shall be located 180 degrees from traffic flow and 6 inches from the bottom of the tenon.

6) HEIGHT

The height of the post, less tenon, shall be 13 feet 0 inches. The weight of the cast iron post with complete door assembly, shall be 460 lbs. +/- 5%. All castings shall be painted with a shop coat of iron oxide primer.

7) TENON

The top of the post shall be equipped with a luminaire mounting tenon integrally cast as a part of the post casting. The tenon shall measure 2 7/8" outside diameter and 2 5/8" long.

8) GROUNDING LUG

The post shall be drilled and tapped for a 1/4 inch - # 20 grounding screw, inside the lamp post and opposite the access door,

9) HANDHOLE

screw shall be provided in the base of the lamp post.
The post shall have a handhole/access door with minimum opening 7 inches high, 2 3/4 inch wide at the top and 7 inches wide at the bottom secured with stainless steel machine

10) BOTTOM ACCESS HOLE

The base of the lamp post shall have an inside diameter sufficient to accommodate two four inch diameter schedule 40 PVC conduits at the bottom of the post, side by side, for streetlight wiring in accordance with utility company requirements.

11) ANCHOR BOLTS

Each post shall be furnished with four (4) anchor bolts, each 3/4 inch diameter x 24 inches long, plus a 3 inches "L" at the bottom. Each bolt shall be supplied with one (1) nut and one (1) washer. Bolts, nuts, and washers shall be fully hot dipped galvanized in accordance with ASTM A153.

12) FINISH

12.1 Cast Aluminum

The cast aluminum poles, access doors, and hardware shall be finished with a dark green electrostatically-applied thermoset polyester powder coat, color "Hadco J" or approved equal, as per the attached finish specification "ICS-2". One pint can of dark green touch-up enamel, color "Federal Green" or approved equal, shall be supplied.

12.2 Cast Iron

The cast iron poles and all components shall be supplied with one coat of oil-based red lead primer paint. Two (2) coats of enamel ("Federal Green", federal color 595B, # 14036) shall be apply to each pole in the field.

13) POLE INFORMATION

The lamp pole shall be Spring City Washington # 13 or Approved equal.

LT-03

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801 South Caroline Street, Baltimore, Maryland 21231

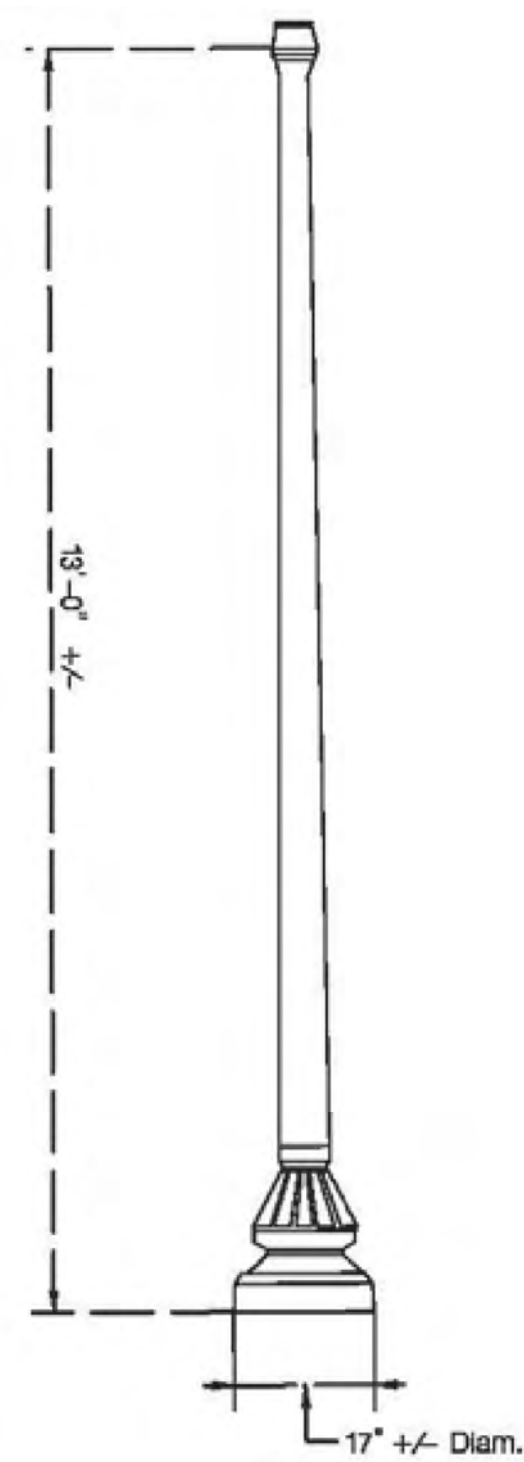
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Transportation Planning and Design Section		Date	
APPROVED			
Chief, Division of Transportation Engineering		Date	
Designed by: <u> NED </u>	Drawn by: <u> NED </u>	Checked by: <u> SMD </u>	

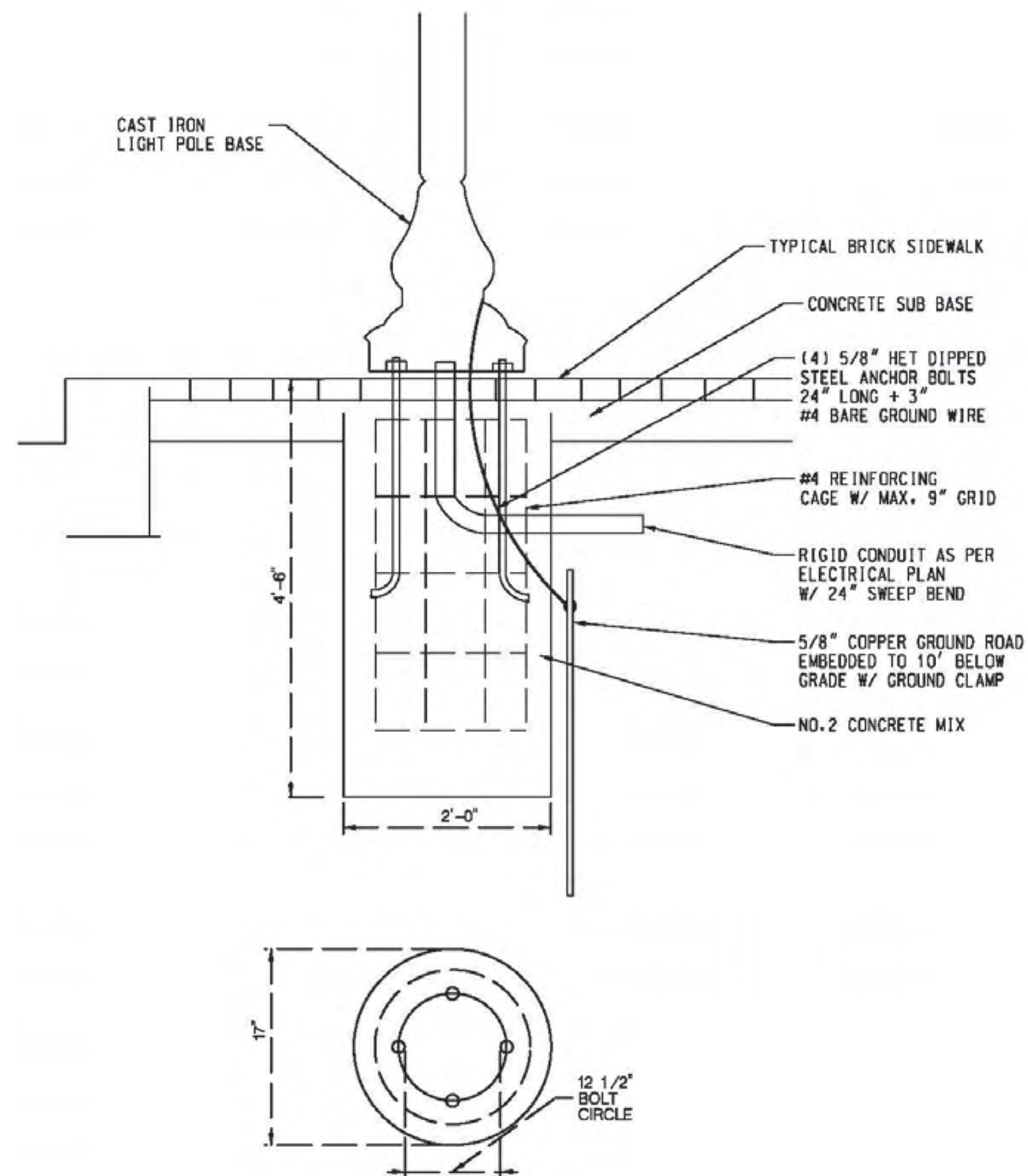
LIGHTING PLAN	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : NONE	MAY 2024
Project No. : <u> 501307 </u>	SHEET <u> 24 </u> of <u> 36 </u>

SPECIFICATIONS FOR STREETLIGHT HARDWARE

SPECIFICATIONS FOR STREETLIGHT HARDWARE



BETHESDA LANTERN LIGHT POLE BASE FOOTING DETAIL FOR 17" BASE (IN UNDISTURBED SOIL)



SPECIAL NOTE:

1. 13'-0" DECORATIVE BETHESDA CAST STREETLIGHT POST WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. THE PAYMENT WILL BE FULL COMPENSATION FOR THE NUMBERING TAGS AND ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

LT-04

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801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: NED Drawn by: NED Checked by: SMD

LIGHTING PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE MAY 2024

Project No. : 501307 SHEET 25 of 36

SPECIFICATIONS FOR STREETLIGHT HARDWARE

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING AND OPERATIONS SECTION

JUNE 2016

STREETLIGHT POST NUMBERING TAGS

1) PURPOSE

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of streetlight post numbering tags. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

2) DESIGN CRITERIA

The streetlight post numbering tags are to be made of aluminum and finished with a similar color coating as that of the streetlight pole it is to be rigidly attached to. This streetlight post numbering tag is intended for use on all streetlight post maintained by Montgomery County.

Each pole numbering tag shall comply to the following:

- a) Be 2" wide and 12" long
- b) Be a color similar to the streetlight pole
- c) Have 5 numbers of an opposite color placed vertically
- d) All White/Silver surfaces shall be made of retroreflective sheeting
- e) All colored surfaces shall be nonreflective

3) MATERIALS

a) TAG

The streetlight post numbering tags shall be 12 inches X 2 inches, fabricated from clear anodized 1/16 inch thick aluminum. The edges shall be smooth and corners rounded and the tag shall fit the streetlight pole shaft.

b) REFLECTIVE AREAS

The streetlight post numbering tag reflective area shall conform to D4956, Type III retroreflective sheeting.

c) NONREFLECTIVE AREAS The streetlight post numbering tags nonreflective areas shall be as follows:

- a. Numbers on white/silver reflective post tag
- b. Backing on all other streetlight post tags

4) MOUNTING HEIGHT

The streetlight post numbering tag should be mounted at a height approximately 10 foot from the surrounding elevation of the ground, unless otherwise approved and directed by the Engineer.

5) MOUNTING ORIENTATION

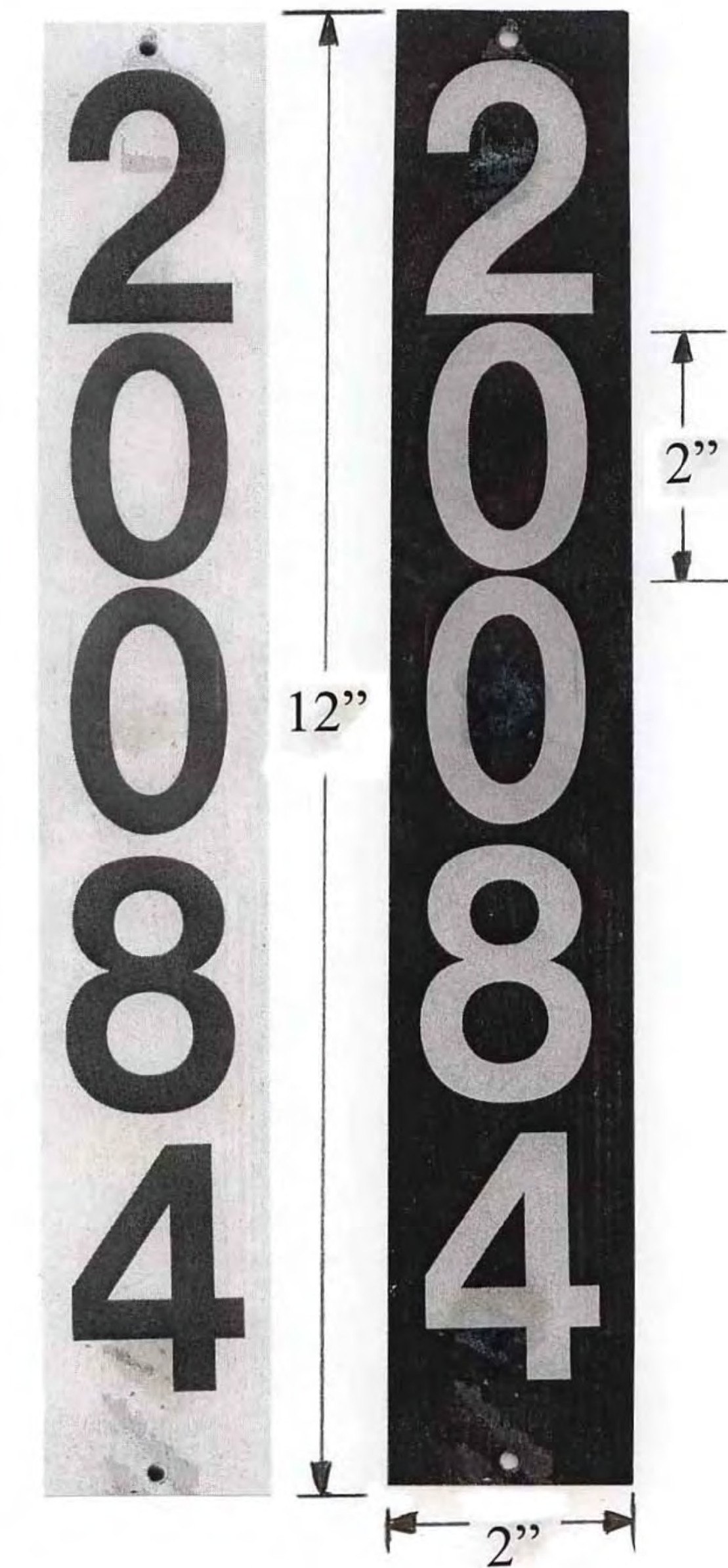
The streetlight post numbering tag shall be oriented and rigidly mounted at a 30 to 45 degree angle, so that approaching traffic can readily observe the tags numbers.

6) MOUNTING HARDWARE

The streetlight post numbering tag shall be secured to the shaft of the streetlight by a means of two (2) 1/8 inch diameter, 18-8 stainless steel tamper-proof screw.

7) NUMBERS

The streetlight post numbering tag numbers shall be a minimum of 2 inch high with a minimum of a 1/4 inch stroke width.



LT-05

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

Designed by: NED Drawn by: NED Checked by: SMD

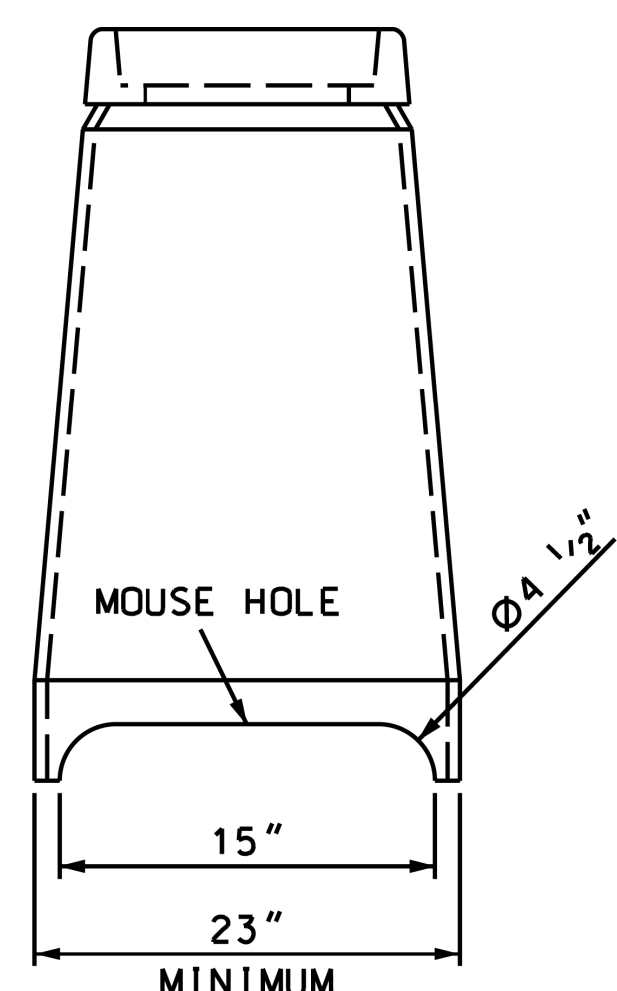
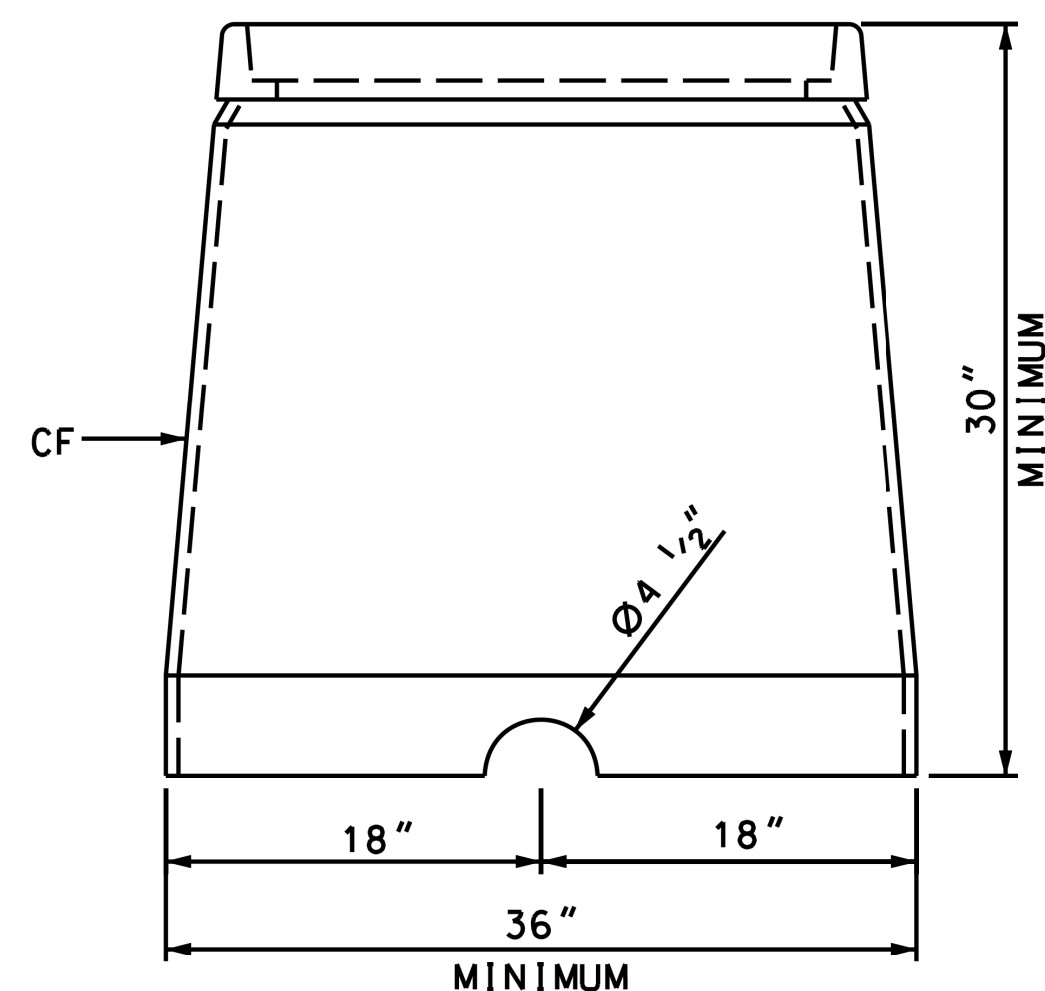
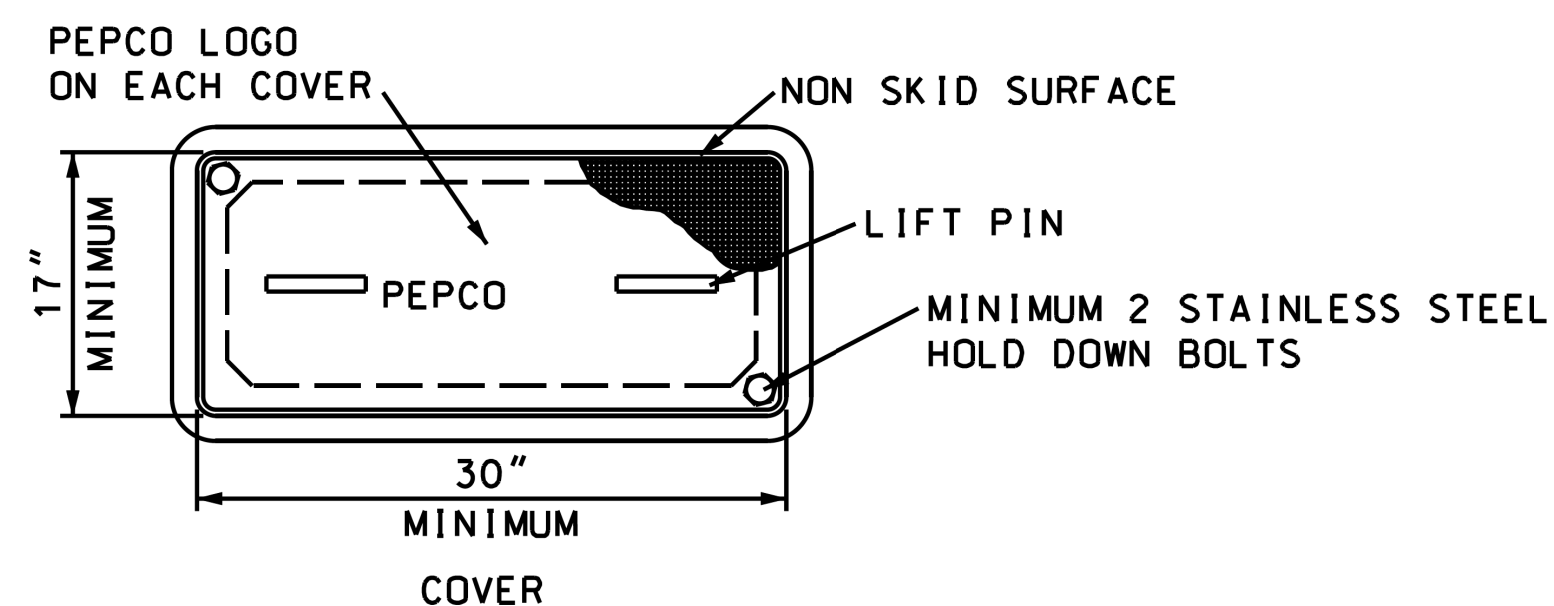
LIGHTING PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : NONE MAY 2024

Project No. : 501307 SHEET 26 of 36

2-2-1695.2.3



ITEM	STOCK #	DESCRIPTION	QUANTITY
CF	9718-8065	SPLICE BOX 17 x 30 x 30	1

- NOTE:**
- SPLICE BOX SHALL BE DESIGNED FOR LIGHT TRUCK LOADING PER ASTM C857.
 - REV A: CHANGED DWG FORMAT. CHANGED STOCK NO'S PER WMIS.

DRAWN: DPJ	DVLPED: DR	DATE: 04-09-02	REVIEWED: TMM DATE: 10-15-08	APPRVD: MDW DATE: 10-29-08	NEXT REVIEW: 10-11	REV: A
		POWER DISTRIBUTION STANDARDS		SECONDARY SPLICE BOX (MINIMUM 17 x 30 x 30)		

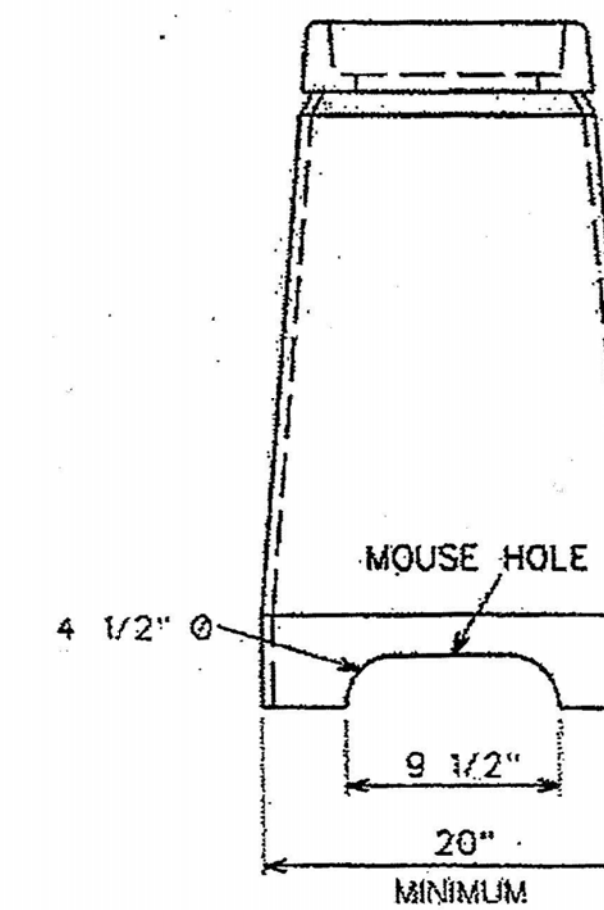
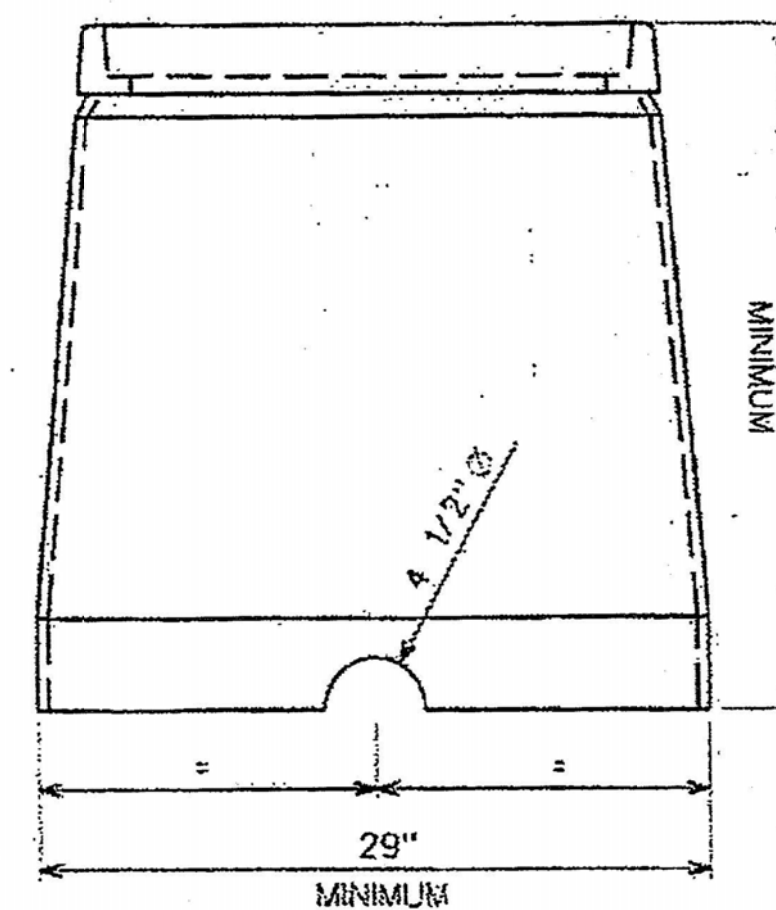
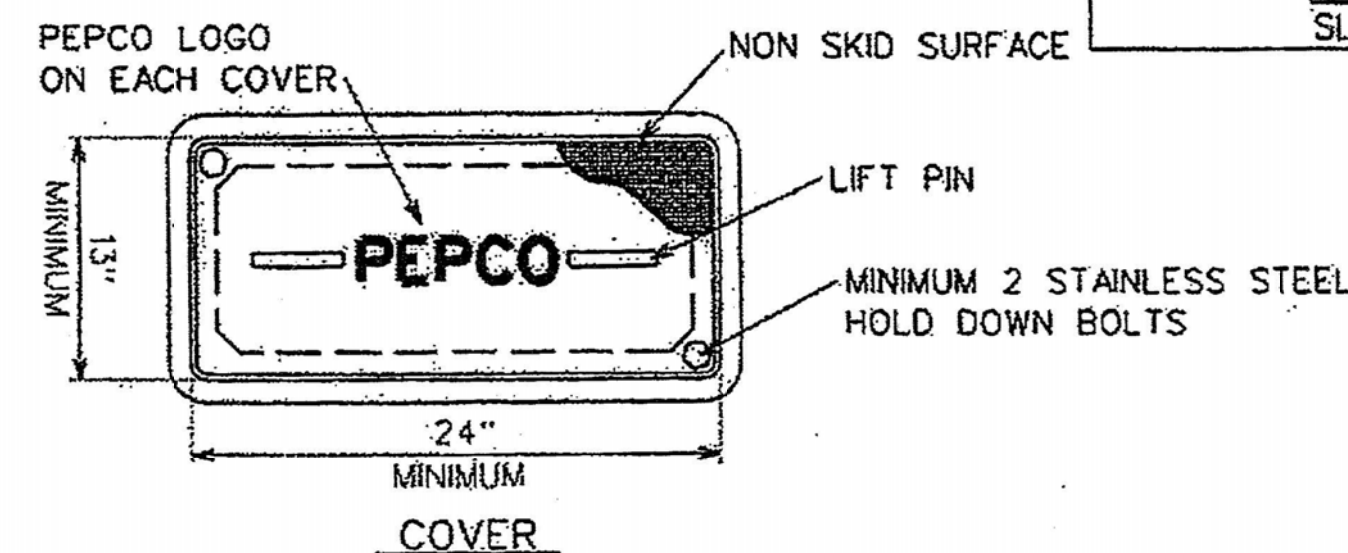
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SPECIAL NOTE:

1. SPLICE BOXES WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH. THE PAYMENT WILL BE FULL COMPENSATION FOR ALL EXCAVATION, AGGREGATE, DRAIN, CONCRETE, BOLTS, BRICKS, PIPES, BACKFILL, SEALER, FRAMES AND COVERS, AND FOR ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

QUANTITY	ITEM	C.U. OR STOCK #	DESCRIPTION	IU
1	BA	1880-64-0	SPLICE BOX 12x24x24	EA
	SLSBQX		ST LIGHT SPLICEBOX AR	

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



C		pepco DISTRIBUTION STANDARDS STREET LIGHT SPLICE BOX (MINIMUM 12 x 24 x 24)	DATE: 04/09/2002	DWG. NO: 4-2-1695	SHEET 1 OF 3
B			SUPERSEDES: N/A	DATED: N/A	SCALE: N/A
A					

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LT-06

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Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date _____
APPROVED	
Chief, Division of Transportation Engineering	Date _____
Designed by: NED	Drawn by: NED
Checked by: SMD	

LIGHTING PLAN CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE: NONE	MAY 2024
Project No.: 501307	SHEET 27 of 36

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC DESIGN AND OPERATIONS

JULY 2010

BANNER PLACEMENT ON STREETLIGHTS POLES

STREETLIGHT CONDUIT INSTALLATION CHECKLIST

The banners shall conform to the following:

- 1) Shall be placed towards the sidewalk, away from the roadway.
- 2) Shall be placed a minimum of seven foot from the sidewalk to the bottom of the banner support.
- 3) Banner support straps shall be painted the same color of the streetlight pole banner is being placed on.
- 4) Banner shall not interfere with the operations of the streetlight.
- 5)

The following items shall be included in the submittal package

- 1) Copy of the graphics for the banner.
- 2) Size of the banner.
- 3) Pole location schematic.
- 4)

LTG-10 banner placement

- 1) DUAL FOUR INCH (4"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.
- 2) TWO INCH (2"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING THE SPLICEBOX TO THE STREETLIGHT FOOTING.
- 3) CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELLS FOR EACH STREETLIGHT LUMINAIRE.
- 4) STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH # 10 AWG (MIN.) COPPER WITH A THREE FOOT MINIMUM LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.
- 5) STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF # 6 AWG BARE COPPER WIRE ATTACHED.
- 6) ALL SWEEPBENDS TO BE A MINIMUM OF 24 INCHES RADIUS.
- 7) ¼" NYLON PULL-LINE IS TO BE INSTALLED IN EACH CONDUIT DUCT.
- 8) CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1') ABOVE EACH CONDUIT RUN.
- 9) NO MORE THAN 270 DEGREES OF BENDS IN A CONDUIT RUN.
- 10) CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM)] OF COVER OVER IT.
- 11) INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL 301-670-8808 OR 301-670-8828 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
- 12) ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MCDPWT FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE SPECIAL PROVISIONS FOR STREETLIGHT SPECIFICATION.
- 13) ALL STREETLIGHTS SHALL BE INSTALLED 2' 6" BEHIND THE FACE OF CURB (EXCEPT AS NOTED ON PLANS).

CONTRACTOR FURNISHED EQUIPMENT NOTES:

PEPCO TO PROVIDE
ENERGY & CABLING

CONTRACTOR SHALL PROVIDE
LUMINAIRES, POLES, PHOTOCELLS,
FOOTINGS AND CONDUIT

CONTRACTOR TO PROVIDE
CONDUIT AS REQUESTED
BY PEPCO


REFER TO CONDUIT CHECKLIST
FOR ADDITIONAL INFORMATION

PEPCO TERMS & CONDITIONS:

1. Customer to obtain all permits/permissions required by others on private property.
 2. All materials used are to conform to Pepco specifications. All work must be done in accordance with Pepco's standards and specifications.
 3. Work to be done in a manner acceptable to Pepco and inspected by Pepco's Conduit Department before encasement or backfilling. Call (202) 388-2635 two (2) weeks in advance to arrange pre-construction meeting and schedule inspection. (Customer must first submit a drawing of the facilities to be built for Pepco and be approved by Pepco.) Call between 7-9 a.m. or 3-4 p.m.
 4. Transformer pad (including grounding) is to be built in accordance with Pepco Specification Drawings C.D.007.01, 2-2-0983_1.4, 2-2-0983_2.4, 2.2.0983_3.4, 2.2.0983_4.4, C.D.006.01, C.D.006.02 and built on level ground. Ten feet (10') of clear space must be provided in front of the pad and three feet (3') on sides and back. Pad must be accessible from a road, drive or parking lot.
 5. Conduit to be built in accordance with Pepco Specification Drawings No. 6-1-480 and C.D.001.01.
 6. Sweepbends must have a radius of no less than 36".
 7. Nylon pull lines to be installed in each duct for future cable installation.
 8. Manholes to be constructed with 3000 PSI concrete.
 9. No more than 180° of bends of duct line.
 10. Conduit to have three feet (3') of cover (top of duct to finished grade).
 11. Conduit to be encased in 2000 PSI concrete with pea gravel. No metallic materials (rebars, hold down wires, etc.) shall be permitted in spaces between each duct.
 12. Customer to rod all conduits, clear any obstructions and provide nylon pull lines prior to the installation of Pepco cables.
 13. Customer to coordinate exact depth and locations of all stub outs with Pepco construction.
 14. Transformers to be located twenty (20) feet from Combustible Walls. See Pepco specification drawings C.D.006.01, C.D.006.02.
 15. All on site structural facilities including conduit, splice boxes, transformer pads etc. provided, installed, owned and maintained by the customer.
 16. Transformer ground grid to be #2 stranded, soft drawn copper tinned (60 feet), and 2 ft of 4/0 stranded, soft drawn copper tinned. Pads to be grounded in conformance with Pepco Specification Drawing number 2.2.0983_4.4 dated 05/05/09.
 17. For locations of utilities, call 24 hours a day 1-800-257-7777, 48 hours in advance of any work in this vicinity.
 18. The trough must have removable covers with provisions for seals, all removable covers to be handled by one man.
 19. The Minimum mounting height for meters is 30 inches to the bottom of the meter glass. Maximum mounting height is 66 inches to the bottom of the glass.
 20. All metering current transformer mounting dimensions, drillings, spacings and studs must comply with Pepco Specification Drawings 5-5-0606.1.1, 5-5-0695.1.3, 5-5-0695.2.3, 5-5-0695.3.3. The minimum acceptable dimensions, drillings, etc. for Pepco line connections to C/T cabinets/compartments (including safety barrier where applicable), mainline switches and main incoming bus cabinets/ compartments/ sections are shown on Pepco Purchase Specification Drawings 5-5-0606.1.1, 5-5-0695.1.3, 5-5-0695.2.3, 5-5-0695.3.3. Refer to: <http://www.pepco.com/business/> and go to approved LV Switchgear (www.pepco.com/_res/documents/switchgear.pdf)
 21. Hylugs used by Pepco require NEMA 2-hole spacing.
 22. Pepco is to be notified 2 weeks (10 working days) before the setting of any poles, manholes, pouring of any concrete and/or the backfilling of any trench to make arrangements for the inspection and approval of your on site service connection structural equipment. Call (202) 388-2635 two (2) weeks in advance to arrange pre-construction meeting and schedule inspection.
 23. All other underground utilities in the vicinity are to be shown. The minimum longitudinal and vertical separation between foreign structures and conduit set by Pepco shall be maintained:
 - Telephone conduit - 3" concrete or 12" earth.
 - Gas conduit under 16" diameter - 12"
 - Gas conduit over 16" diameter - 18"
 - Water and sewer - 4' horizontal in DC and 5' horizontal in MD, with 1' vertical clearance. Maintain 5', 0" minimum (horizontal) and 1' 0" (vertical) clearance from all underground utilities.
 24. The maximum size of a service conductor rated 600 volts or less shall not exceed 500 kcm for Copper or Aluminum conductor.
- *Refer to www.pepco.com/business/ for the most up to date Pepco standards drawings and construction details and specifications.

CUSTOMER IS TO BUILD, OWN, AND MAINTAIN ALL STRUCTURAL FACILITIES ON PRIVATE PROPERTY.

LT-07

<p>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: _____</p>	 Whitman, Requardt & Associates, LLP 801 South Caroline Street, Baltimore, Maryland 21231	
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Transportation Planning and Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by: <u> NED </u>	Drawn by: <u> NED </u>
Checked by: <u> SMD </u>	

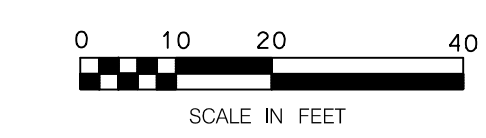
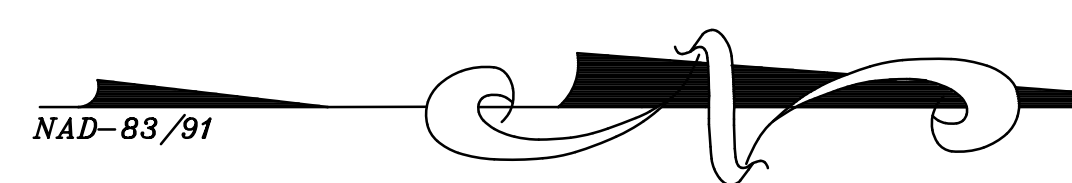
LIGHTING PLAN	
CAPITAL CRESCENT SURFACE TRAIL PHASE 2 BETHESDA, MARYLAND	
SCALE : NONE	MAY 2024
Project No. : <u> 501307 </u>	SHEET <u> 28 </u> of <u> 36 </u>



LEGEND

- EXISTING TREE
- TREE TO BE REMOVED
- CRITICAL ROOT ZONE
- STRUCTURAL ROOT ZONE
- TPF
- LOD
- PROPERTY BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY PIPE
- PROPOSED OVERHEAD ELECTRIC
- HEAVY TREE PROTECTION
- MOUNTABLE TRUCK APRON
- PROPOSED ASPHALT - BIKE OR SHARED - USE PATH
- PROPOSED DYED STAMPED CONCRETE BRICK SHAPED
- PROPOSED CONCRETE
- PROPOSED SOD ESTABLISHMENT
- ABANDONED SANITARY SEWER PIPE
- PROPOSED LIGHTING

- NOTES:**
1. SIGNIFICANT/SPECIMEN TREE TABLE, GENERAL NOTES, AND TREE INVENTORY TABLE FOUND ON SHEET TP-3
 2. ROOT PRUNE IN AREAS OF EXCAVATION AT THE DIRECTION OF A MD LICENSED TREE EXPERT (LTE)
 3. CONDUCT BRANCH PRUNING AT THE DIRECTION OF A MD LICENSED TREE EXPERT (LTE).
 4. TREE SAVE DETAILS FOUND ON TP-4.
 5. ADDITIONAL TREE STRESS REDUCTION MEASURES MAY BE REQUIRED, PER DIRECTION OF MD LTE.
 6. ALL AREAS OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE (LOD) SHALL BE CONSIDERED TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
 7. TREE PROTECTION FENCE (TPF) IS SHOWN OUTSIDE OF LOD FOR GRAPHICAL PURPOSES ONLY. SEE ROOT PRUNING DETAIL ON TP-4 FOR PLACEMENT OF TPF.
 8. SEE SPECIFICATIONS FOR FURTHER DETAILS ON BRANCH AND ROOT PRUNING TECHNIQUES.
 9. SEE LANDSCAPE SCHEDULE ON TP-2 AND PLANTING DETAILS ON TP-4.
 10. SEE ROADWAY AND UTILITY SHEETS FOR PROPOSED DESIGN.
 11. SEE LIGHTING PLAN FOR PROPOSED DESIGN.



TP-1

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



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 GAITHERSBURG, MARYLAND

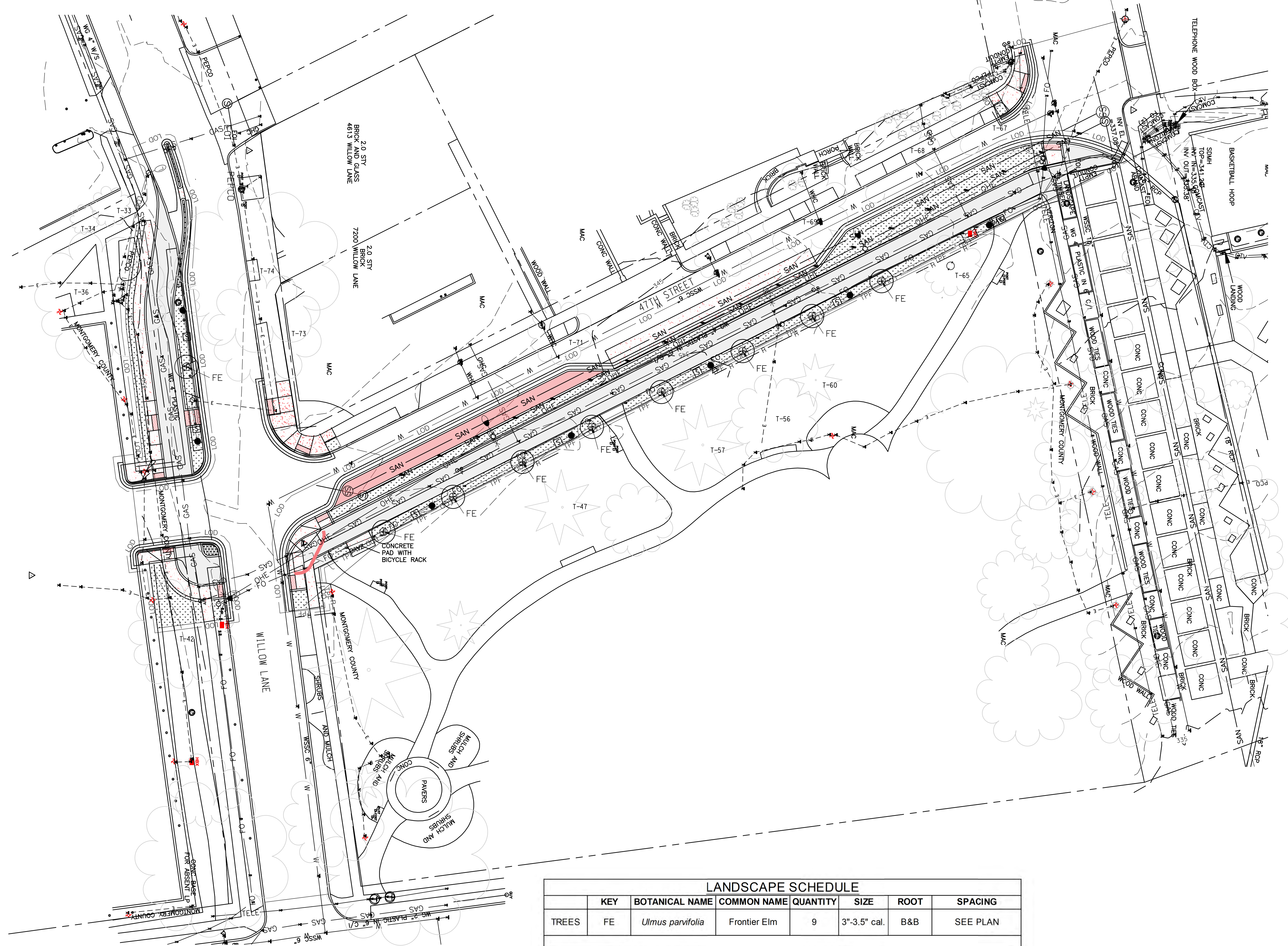
RECOMMENDED FOR APPROVAL
 Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____

Designed by: NM Drawn by: NM Checked by: TB

TREE PROTECTION PLAN

CAPITAL CRESCENT SURFACE TRAIL
 PHASE 2
 BETHESDA, MARYLAND

SCALE : 1"=20'
 APRIL 2024
 Project No. : 501307 SHEET 29 of 36



LEGEND

- T-45 EXISTING TREE
- TPF TREE PROTECTION FENCE
- LOD LIMIT OF DISTURBANCE
- PROPERTY BOUNDARY
- 345 EXISTING CONTOURS
- 345 PROPOSED CONTOURS
- PROPOSED SANITARY MANHOLE
- SAN PROPOSED SANITARY PIPE
- OHE PROPOSED OVERHEAD ELECTRIC
- PROPOSED SHADE TREE
- HEAVY TREE PROTECTION
- MOUNTABLE TRUCK APRON
- ASPHALT - BIKE OR SHARED - USE PATH
- DYED STAMPED CONCRETE BRICK SHAPED
- CONCRETE
- PROPOSED SOD ESTABLISHMENT
- ABANDONED SANITARY SEWER PIPE
- LIGHTING

NOTES:

1. SIGNIFICANT/SPECIMEN TREE TABLE, GENERAL NOTES, AND TREE INVENTORY TABLE FOUND ON SHEET TP-3
2. ROOT PRUNE IN AREAS OF EXCAVATION AT THE DIRECTION OF A MD LICENSED TREE EXPERT (LTE)
3. CONDUCT BRANCH PRUNING AT THE DIRECTION OF A MD LICENSED TREE EXPERT (LTE).
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8. SEE SPECIFICATIONS FOR FURTHER DETAILS ON BRANCH AND ROOT PRUNING TECHNIQUES.
9. SEE PLANTING DETAILS ON TP-4.
10. SEE ROADWAY AND UTILITY SHEETS FOR PROPOSED DESIGN.
11. SEE LIGHTING PLAN FOR PROPOSED DESIGN.

LANDSCAPE SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	ROOT	SPACING	
TREES	FE	<i>Ulmus parvifolia</i>	Frontier Elm	9	3"-3.5" cal.	B&B	SEE PLAN
TURFGRASS ESTABLISHMENT			276 SY				

NOTE:
APPLY TURFGRASS ESTABLISHMENT WITHIN THE VEGETATIVE BUFFER OUTSIDE OF PROPOSED TREE AND SHRUB PLANTING AREAS.



TP-2

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



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

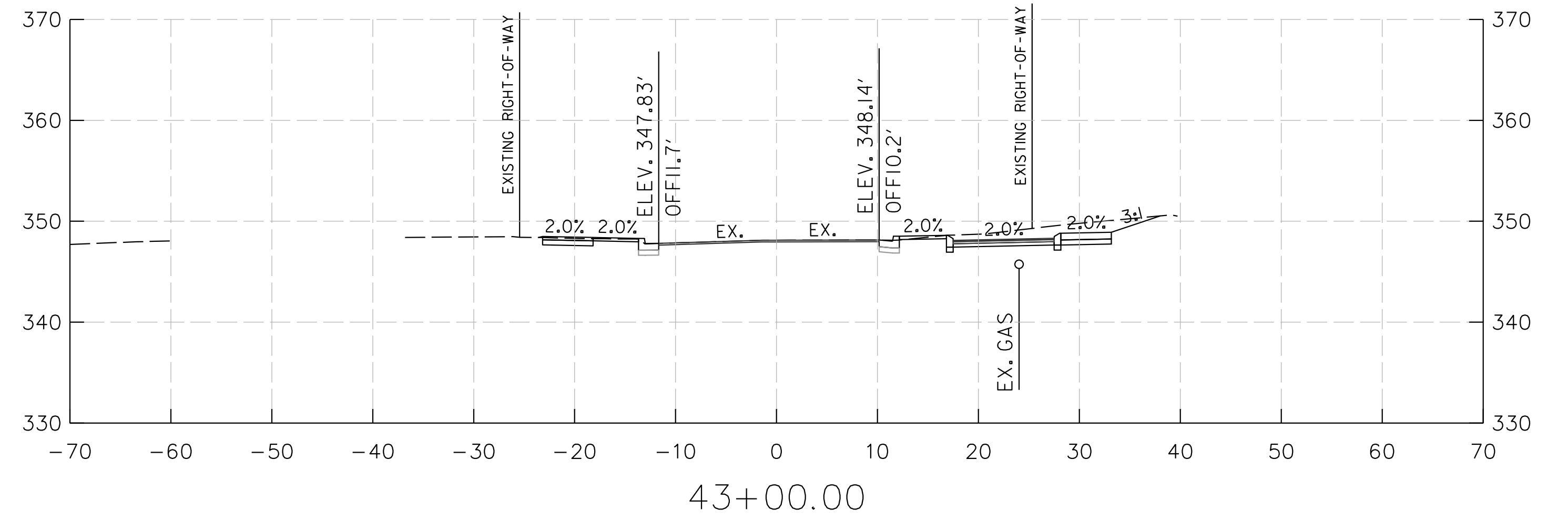
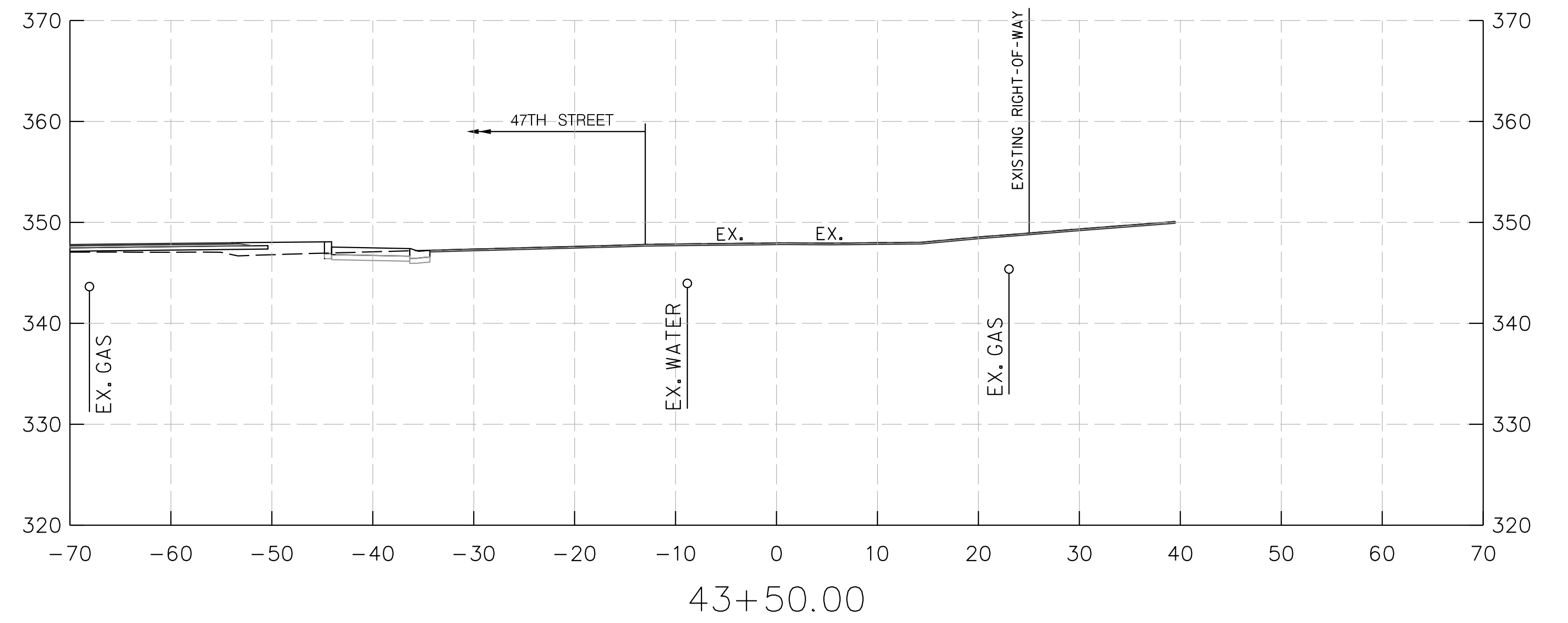
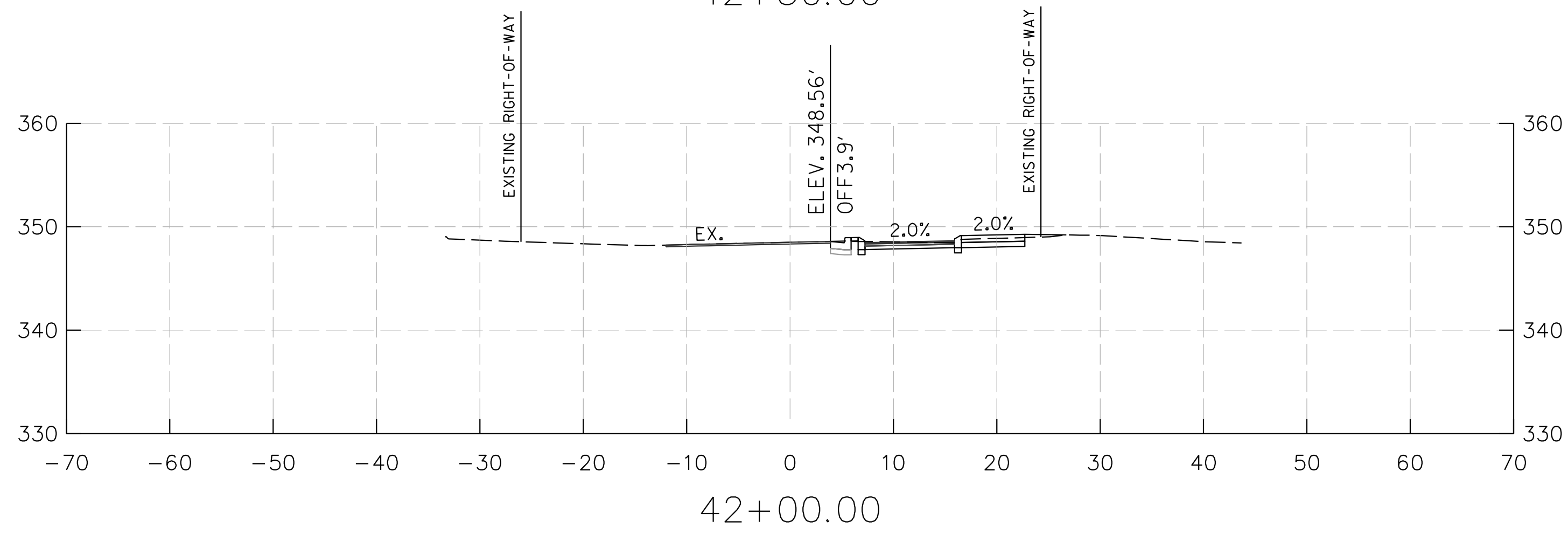
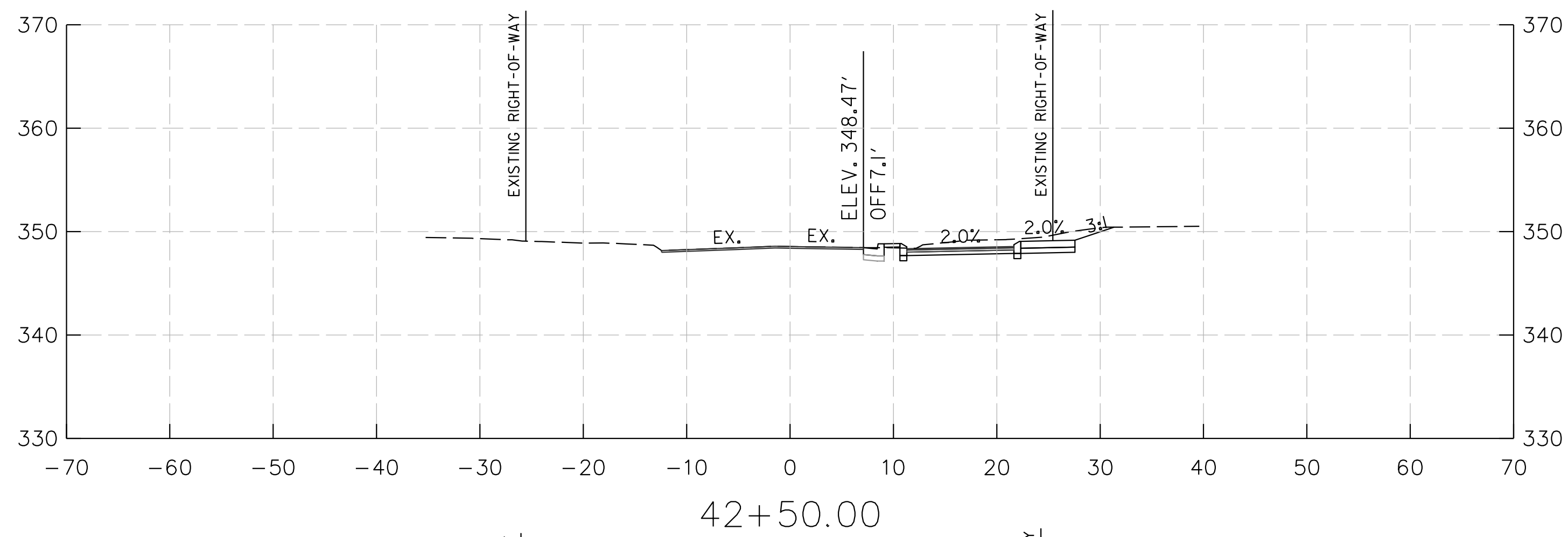
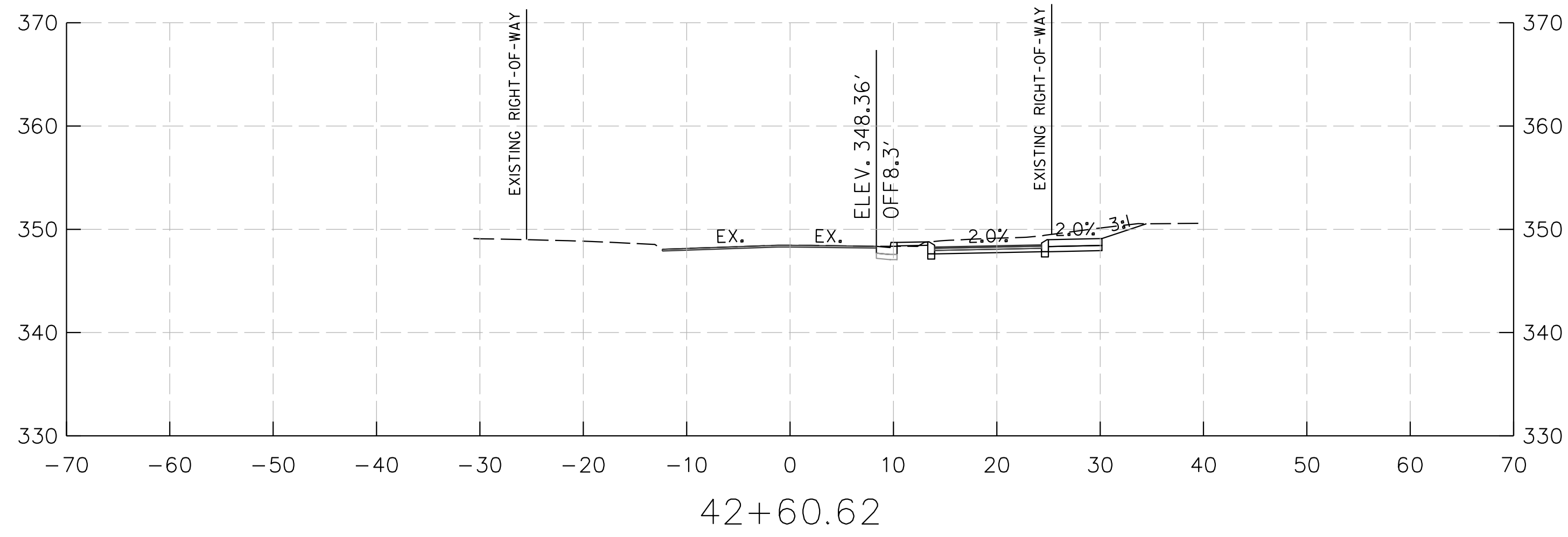
Designed by: NM Drawn by: NM Checked by: TB

LANDSCAPE PLAN

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : 1"=20'
APRIL 2024

Project No. : 501307 SHEET 30 of 36



70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

XS-01

PROFESSIONAL CERTIFICATION.
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EXPIRATION DATE: _____

TOOLE
DESIGN

8484 GEORGIA AVENUE,
SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

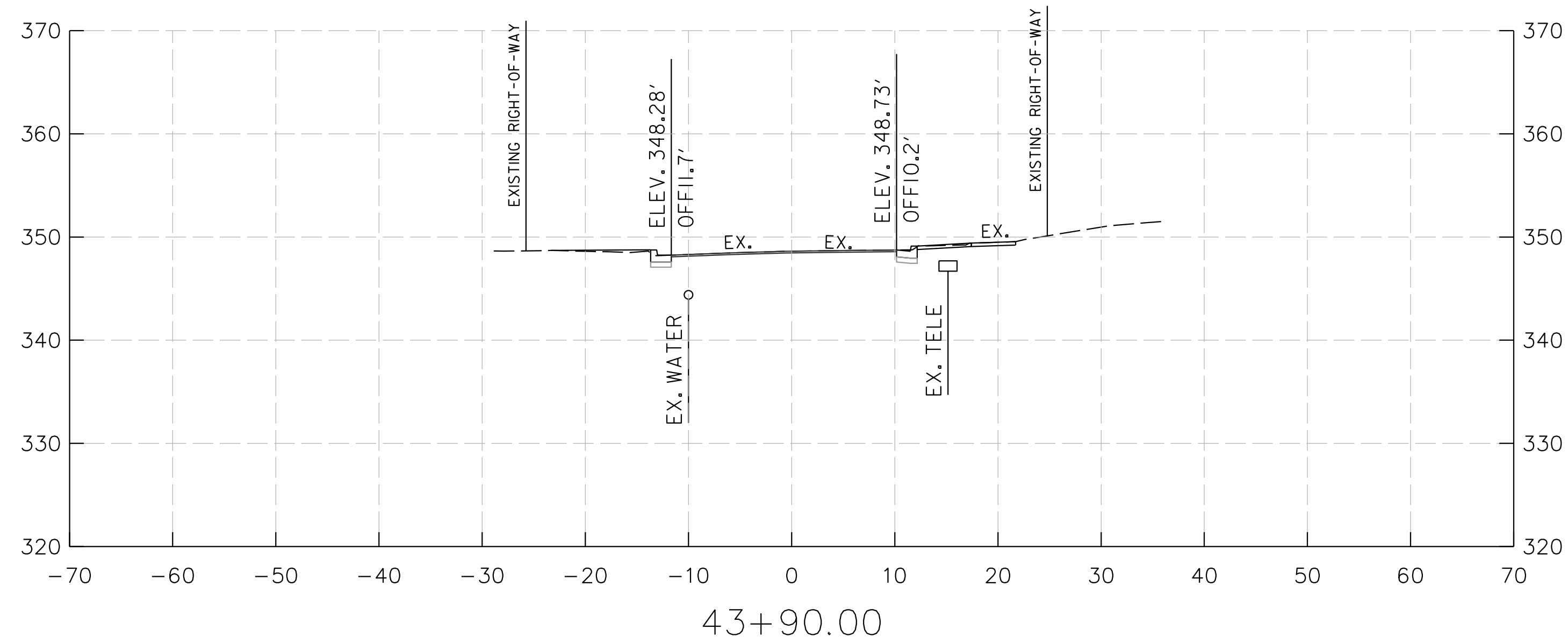
Willow Lane
Station 42+00.00 To Station 43+50.00

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : _____ APRIL 2024

Project No. : 501307 SHEET 33 of 36

SEPARATE TIMES



70% PRELIMINARY PLANS - NOT FOR CONSTRUCTION

XS-02

PROFESSIONAL CERTIFICATION.
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 ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND, LICENSE NO. _____
 EXPIRATION DATE: _____



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section _____ Date _____
 APPROVED

Chief, Division of Transportation Engineering _____ Date _____

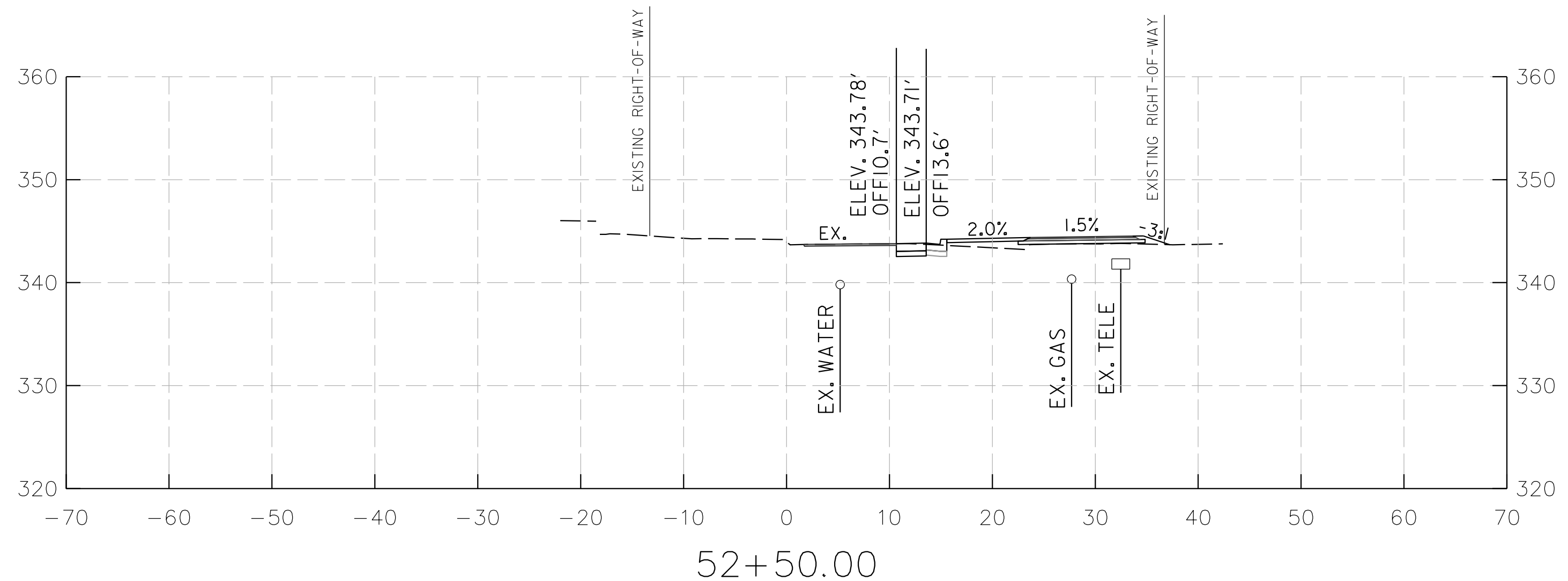
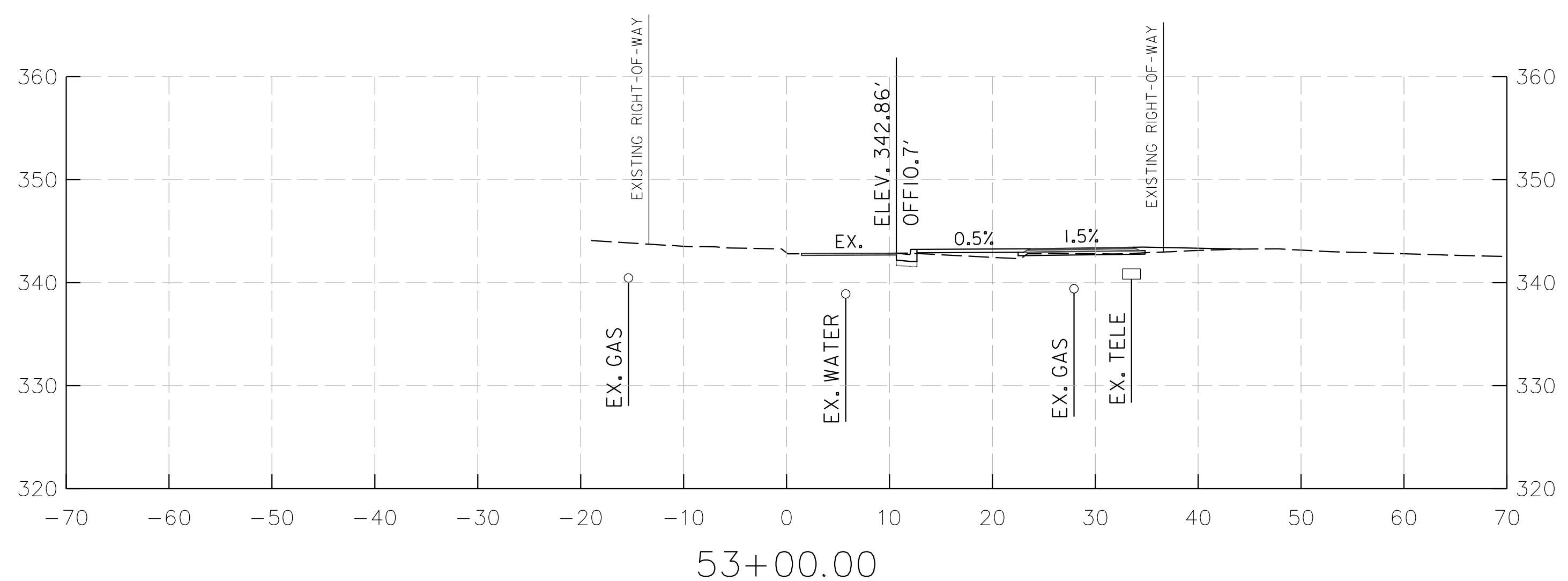
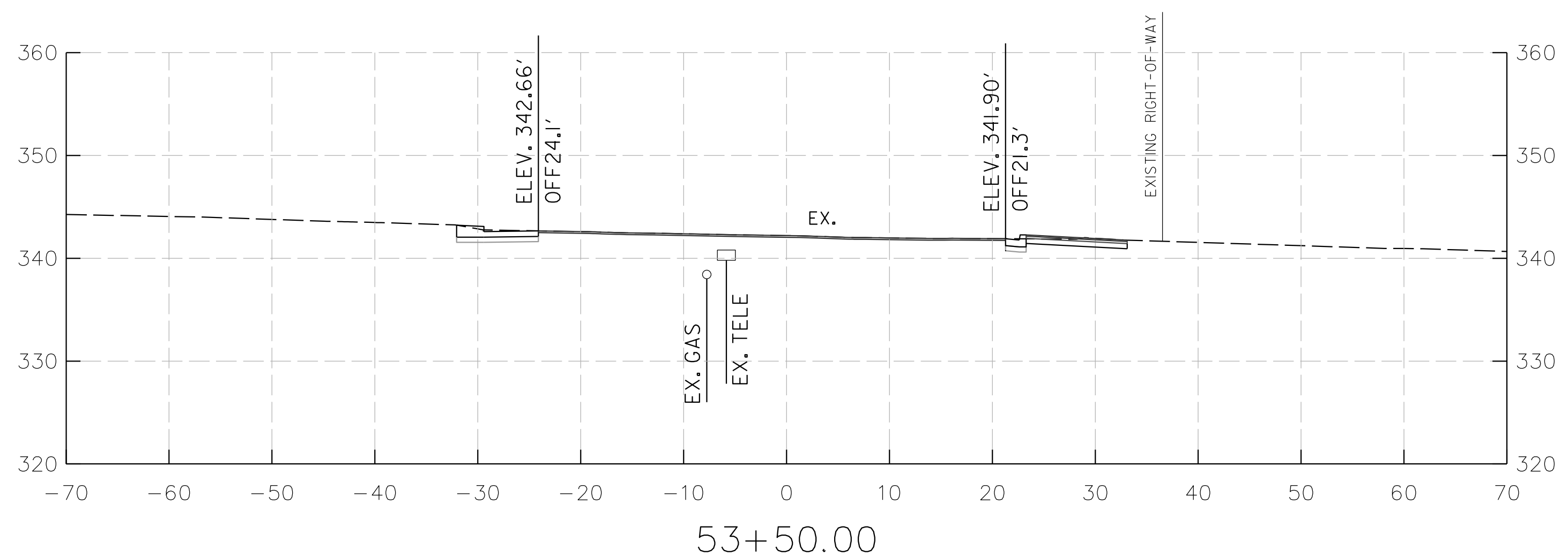
Designed by: _____ Drawn by: _____ Checked by: _____

Willow Lane
 Station 43+90.00 To Station 43+90.00

CAPITAL CRESCENT SURFACE TRAIL
 PHASE 2
 BETHESDA, MARYLAND

SCALE : _____ APRIL 2024
 Project No. : 501307 SHEET 34 of 36

SEPARATE TIES



70% PRELIMINARY PLANS – NOT FOR CONSTRUCTION

XS-04

PROFESSIONAL CERTIFICATION.
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ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. _____
EXPIRATION DATE: _____



8484 GEORGIA AVENUE,
SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section Date _____
APPROVED

Chief, Division of Transportation Engineering Date _____
Designed by: _____ Drawn by: _____ Checked by: _____

47th Street
Station 52+50.00 To Station 53+50.00

CAPITAL CRESCENT SURFACE TRAIL
PHASE 2
BETHESDA, MARYLAND

SCALE : _____ APRIL 2024
Project No. : 501307 SHEET 36 of 36

\$\$\$NONSPECIFIC\$\$\$
\$\$\$DATE TIME\$\$\$

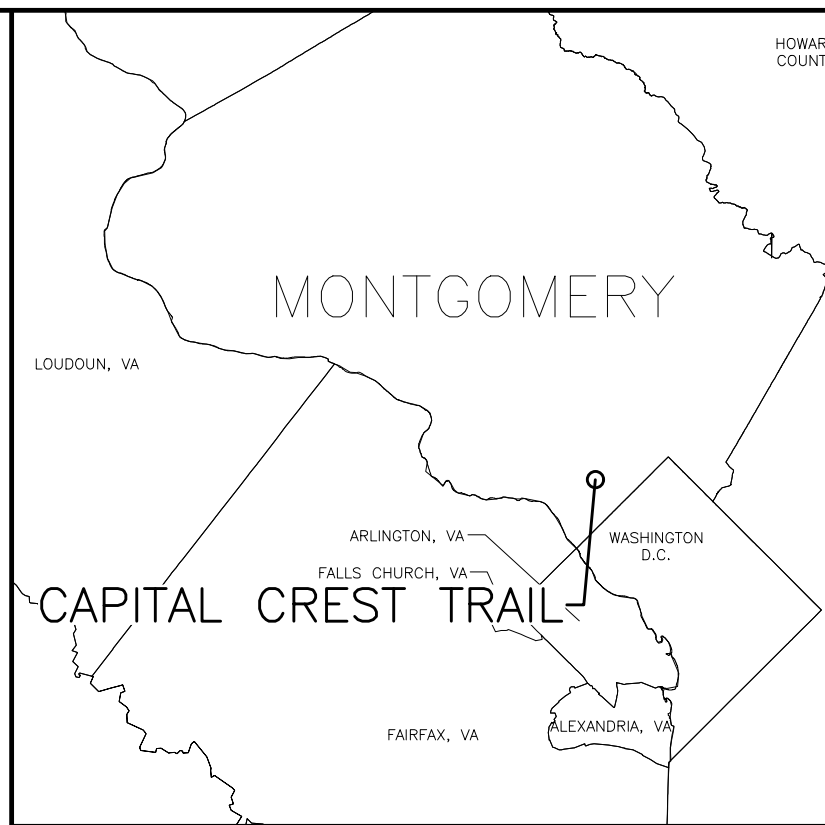
47TH STREET SEWER MAIN RELOCATION

MONTGOMERY COUNTY CONTRACT No. 1038749-CF

MONTGOMERY COUNTY, MARYLAND

CONTRACT NO. 1038749 - CF

DRAFT BID READY
APRIL 2024



VICINITY MAP
MONTGOMERY COUNTY SCALE 1" = 10 MILES
PAGE 5407 GRID F03

FOR LOCATION OF UTILITIES CALL 8-1-1 OR 1-800-257-7777
OR LOG ON TO www.call811.com or www.missutility.net 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY

DATE	REVISIONS

PERMIT REQUIREMENTS

TREE	NOT REQUIRED
WETLANDS / WATERWAYS	NOT REQUIRED
M.N.C.P.&P.C.	REQUIRED
STATE HWY. ADM.	NOT REQUIRED
STATE BD. HEALTH	NOT REQUIRED
MONTGOMERY CO.	REQUIRED
SED. CONTROL	NOT REQUIRED
P.G.CO.D.P.W.&T.	NOT REQUIRED
M.D. D.O.E. - WMA	REQUIRED

*TO BE ACQUIRED BY APPLICANT

TOWN NOTIFICATION

AS BUILT DATA

CONTRACT MANAGER	
CONTRACTOR	
INSPECTOR	
L & G	
DATE STARTED	
DATE COMPLETED	
TYPE PIPE W.	S.
TYPE MANHOLES	
DATE FINALED	
FINALED BY	

DRAWING INDEX

Drawing No.	Description
01 - 03	General
04 - 08	Water Plans/Profiles/Details/Notes
09 - 10	Sewer Plans/Profiles/Details/Notes

PIPELINE DESIGN DIVISION

DATE	DIVISION MANAGER
------	------------------

RELOCATION SECTION

DATE	SECTION MANAGER
------	-----------------

REVISIONS

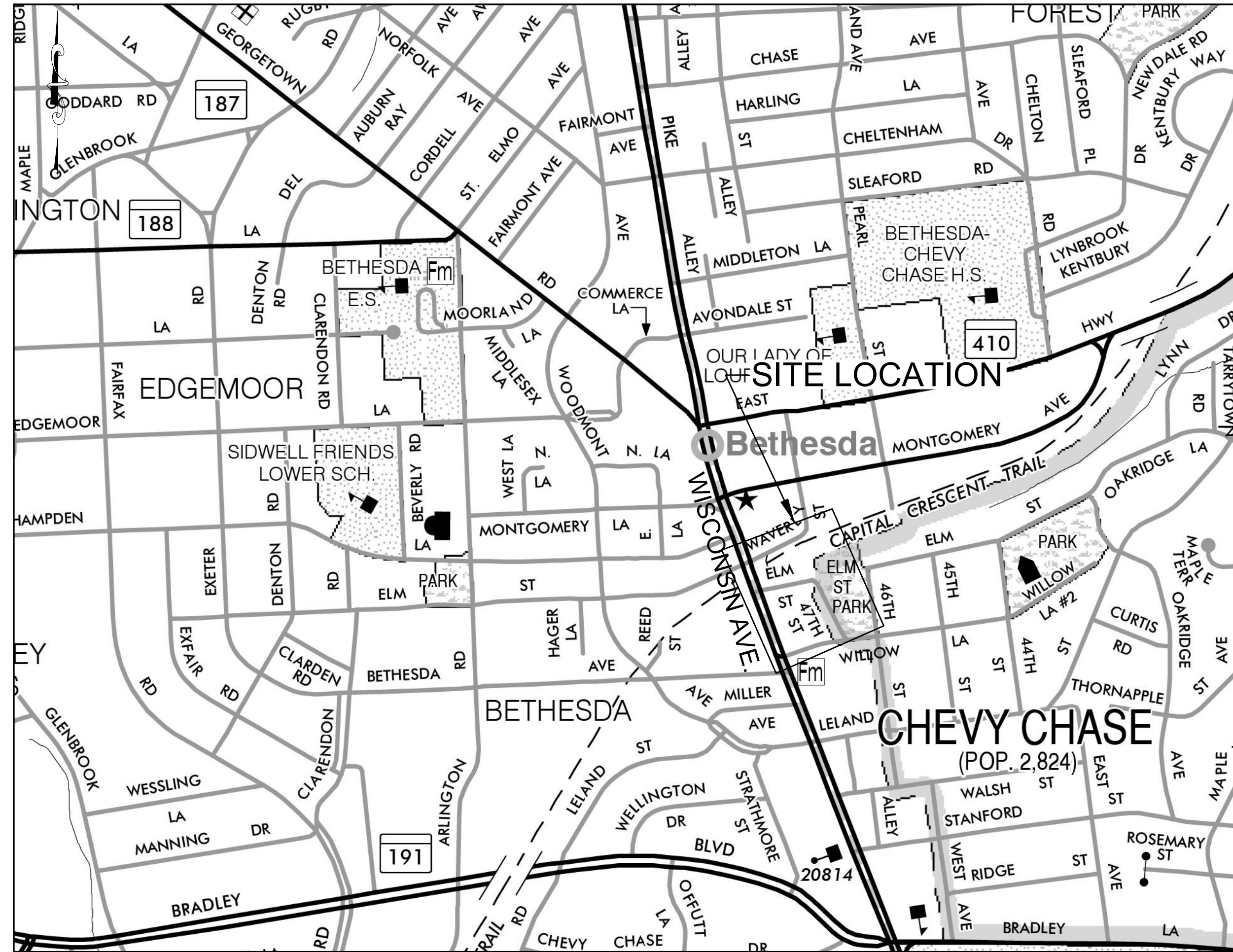
DATE	REVIEWED BY
------	-------------

DRAWN	ADEQUATE SURVEY		
GAF	ON PROP. R/W REQ'D		
CHECK	OFF PROP. R/W REQ'D		
LAF	OTHER UTILITIES		

CONTRACT 1038749 - CF
WSSC SHEET NUMBER

TITLE SHEET, LOCATION & VICINITY MAPS	NO	01
200'S 209NW04	OF	03

LIST OF DRAWINGS	
SHT NO.	TITLE
1	TITLE SHEET, LOCATION & VICINITY MAPS
2	GENERAL NOTES AND LEGEND
3	SEWER RELOCATION PLAN & PROFILE



LOCATION MAP
SCALE: 1" = 200'

EXISTING SEWER MAINS TO BE REPLACED/RELOCATED					
DWG NO	STREET	EX. SEWER MAIN SIZE	PROP. SEWER MAIN SIZE	LENGTH	NOTES
3	47TH STREET	8"	8"	327'	RELOCATED

DATUM NOTES:

1. THE PROPOSED WATER MAINS UNDER WSSC CONTRACT RW0000A00 ARE DESIGNED USING N.A.D. 83/91 HORIZONTAL DATUM AND N.G.V.D. 1929 VERTICAL DATUM.
2. THE EXISTING SHA SURVEY INFORMATION IS BASED ON NAD 83/91 AND NAVD 1988.
3. WSSC NGVD 29 IS 0.71' HIGHER THAN THE SHA NAVD 1988.

SURVEY CONTROL BENCHMARKS			
TRAVERSE	ELEVATION	NORTH	EAST
MER200	348.07'	479308.4972	1285727.4761
MER201	349.72'	479134.3476	1285828.9098
MER202	340.47'	479208.5972	1286210.0547
MER203	332.48'	479277.9673	1286466.9416
MER250	349.34'	479270.0557	1285839.8794
MER251	345.55'	479140.7929	1286024.4458
MER252	345.04'	479053.4526	1286245.3189
MER253	336.02'	479275.3715	1286338.9041
MER304	328.86'	479283.3227	1286641.0241
MER305	337.39'	479210.4102	1286325.4389
PN2	341.72'	479424.8361	1286134.2157
PN3	350.73'	479690.3228	1286098.4358

LISA FRANKE
DESIGNED BY

04/22/2024
DATE

MD 355 - WISCONSIN AVE.
19,450 A.D.T. (2018)
40 M.P.H. - DESIGN SPEED

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.: 25830
EXP. DATE: 02/05/2025

DRAINAGE BASIN: NO. 12, MINI BASIN NO. 025 AND NO. 05, MINI BASIN NO. 020

OWNER/DEVELOPER	
NAME:	MONTGOMERY COUNTY DEPT. OF TRANSPORTATION
ADDRESS:	100 EDISON PARK DRIVE GAITHERSBURG, MD 20878
TELEPHONE:	240-777-7224
APPLICANT	
NAME:	KEVIN MINN
ADDRESS:	MCDOT 100 EDISON PARK DRIVE GAITHERSBURG, MD 20878
TELEPHONE:	240-777-7228
ENGINEER	
NAME:	WHITMAN, REQUARDT AND ASSOCIATES, LLP
ADDRESS:	801 SOUTH CAROLINE STREET BALTIMORE, MD 21231
TELEPHONE:	410-235-3450

PRESSURE ZONE= 495A
HHG: 540
LHG: 460

WASHINGTON SUBURBAN SANITARY COMMISSION



THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC APPROVAL

ENGINEER:
NAME: WHITMAN, REQUARDT & ASSOCIATES
ADDRESS: 801 SOUTH CAROLINE ST, BALTIMORE, MD 21231
PHONE: 410-235-3450
CONTACT: L. FRANKE

7TH ELECTION DISTRICT BETHESDA
47TH STREET SEWER RELOCATION
47TH STREET, FROM ELM STREET TO WILLOW LANE
GAITHERSBURG, MONTGOMERY COUNTY, MARYLAND

VERIFY SCALE - BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

GENERAL NOTES:

- THESE DRAWINGS ARE BASED ON WSSC'S 200-FOOT WATER AND SEWER REFERENCE MAPS, GEOGRAPHIC INFORMATION SYSTEM (GIS) ACQUIRED FROM WSSC, EXISTING AS-BUILTS, AND FIELD SURVEYS PERFORMED BY WHITMAN, REQUARDT AND ASSOCIATES AND NAVARRO AND WRIGHT CONSULTANTS, DATED MAY 2017.
- THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS. ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT HIS OWN EXPENSE. NEITHER THE OWNER NOR THE ENGINEER WARRANT OR GUARANTEE THE COMPLETENESS OF THE INFORMATION SHOWN HEREIN.
- CONTRACTOR SHALL MAINTAIN A MINIMUM 1'-0" VERTICAL SEPARATION AND 5'-0" HORIZONTAL SEPARATION FROM ALL NON-SEWER UTILITIES. MAINTAIN MINIMUM 1'-6" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION FROM SANITARY AND STORM SEWERS AND RELATED STRUCTURES IN ACCORDANCE WITH 10 STATES STANDARDS, UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL TEST PIT ALL UTILITY CROSSINGS A MINIMUM OF 1000 L.F. IN ADVANCE OF WORK, AND MAKE ADJUSTMENTS AS NECESSARY, AND WITH PRIOR APPROVAL OF WSSC.
- CONTRACTOR SHALL NOTIFY MISS UTILITY 1-800-257-7777 AT LEAST 48 HOURS IN ADVANCE OF ANY WORK IN THIS AREA, SO APPROPRIATE MARKING OF EXISTING UTILITIES CAN BE MADE.
- CONTRACTOR SHALL NOTIFY FOURTEEN (14) DAYS BEFORE CONSTRUCTION.
 - WSSC PIPELINE CONSTRUCTION (301) 206-7316
 - WSSC ENVIRONMENTAL PROGRAM (301) 206-8077
 - MONTGOMERY COUNTY 240-777-0311
 - MICHELLE BERKEL (DISTRICT 3 PROJECT MANAGER) 301-513-7344
 - MARK LOEFFLER (DISTRICT 3 UTILITY ENGINEER) 301-513-7350
- CONTRACTOR SHALL NOT STOCKPILE MATERIALS OR EQUIPMENT WITHIN THE DRIPLINE OF ANY TREES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STAGING AREA(S) AND MOBILIZATION TO AND FROM SUCH AREA(S) AT NO ADDITIONAL COST TO THE COMMISSION.
- THE CONTRACTOR SHALL ADHERE TO THE HIGH VOLTAGE LINE ACT.
- LICENSED GEOTECHNICAL ENGINEER TO PERFORM COMPACTION TESTING FOLLOWING ASTM D1556, ASTM D2922, OR ASTM D2937 AT MINIMUM RATE OF 1 TEST FOR EVERY 100 FEET OF FILL ALONG MAIN TRENCH AND AT EVERY LATERAL TRENCH, STRUCTURE AND VALVE BOX IN TYPE 1 AREAS.
- CONTRACTOR TO PROVIDE TEMPORARY WATER AND/OR SEWER SERVICE DURING CONSTRUCTION.
- CONTRACTOR IS TO MAINTAIN EXISTING WATER AND/OR SEWER SERVICE TO EXISTING PROPERTY AT ALL TIMES, RECONNECT AS NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND/OR REPLACEMENT REQUIRED AS A RESULT OF ANY WORK WITH OR NEAR THE EXISTING WSSC MAINS AT THE CONTRACTOR'S EXPENSE.
- ALL MATERIALS REQUIRED UNDER THIS CONTRACT SHALL BE FURNISHED BY THE APPLICANT'S CONTRACTOR AT NO EXPENSE TO WSSC IN ACCORDANCE WITH THE LATEST EDITION OF THE WSSC GENERAL CONDITIONS AND STANDARD SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE PROCEDURES FOR RETURNING SCRAP MATERIALS TO WSSC AS OUTLINED IN THE STANDARD SPECIFICATIONS SECTION 01110.
- EXISTING PAVEMENT TO BE SWEEPED AT THE END OF EACH BUSINESS DAY.
- RESTORE ALL DISTURBED AREAS.
- UPON COMPLETION OF CONSTRUCTION THE APPLICANT'S CONTRACTOR SHALL PREPARE AS-BUILTS AND SUBMIT TO PIPELINE CONSTRUCTION DIVISION CONTRACT MANAGER.

ABANDONMENT NOTES:

- EXISTING SEWER MAINS, SERVICE CONNECTIONS AND MANHOLES TO BE ABANDONED AS NOTED ON THE DRAWINGS SHALL BE ABANDONED PER WSSC STANDARD SPECIFICATION 02530.
- EXISTING MAINS 8" AND LARGER AND WITHIN PUBLIC RIGHT OF WAY THAT ARE TO BE ABANDONED IN PLACE SHALL BE FILLED ENTIRELY WITH FLOWABLE FILL.

GENERAL NOTES SEWER:

- ALL SEWER PIPE TO BE P.V.C., UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL REMOVE AND SALVAGE FRAMES AND COVERS AND DELIVER THEM TO THE WSSC MATERIALS MANAGEMENT UNIT, MATERIALS & SERVICES GROUP, KENILWORTH AVE., BLADENSBURG, MD.
- CONTRACTOR SHALL MAINTAIN FLOW THROUGH EXISTING GRAVITY AND PRESSURE SEWERS UNTIL NEW SEWER MAINS ARE CONSTRUCTED AND PLACED IN SERVICE.
- THE CONTRACTOR SHALL TEST PIT AND DETERMINE THE LOCATION, ELEVATION, SIZE, MATERIAL, PIPE DIAMETER, AND OUT OF ROUNDNESS OF THE EXISTING PIPE WHERE THE NEW PIPING WILL CONNECT, PRIOR TO ORDERING ANY NEW MATERIAL. UPON DELIVERY OF REQUIRED MATERIALS AND PRIOR TO THE REMOVAL OF EXISTING PIPING, THE CONTRACTOR SHALL CONFIRM THAT ALL MATERIALS FITS TOGETHER.

ABBREVIATIONS:

APPROX. APPROXIMATE	L.V.B. LOWER VERTICAL BEND
ARV AIR RELEASE VALVE	V.B. VERTICAL BEND
BO BLOW OFF	P.G. PRINCE GEORGE'S COUNTY
Δ CENTRAL ANGLE	MH MANHOLE
COMM COMMUNICATIONS	MNCPPC MARYLAND-NATIONAL CAPITAL
D STORM DRAIN	PARK AND PLANNING COMMISSION
D DEGREE OF CURVE	NA NOT APPLICABLE
DET DETAIL	PROP. PROPOSED
DR DRIVE	R RADIUS
E EXTERNAL DISTANCE	RD ROAD
ELEC ELECTRIC	RECON. RECONNECT
ELEV. ELEVATION	S SEWER (SANITARY)
EX EXISTING	SHC SEWER HOUSE CONNECTION
EXT EXTENSION	STA. STATION
F### WSSC HYDRANT NUMBER	STD. STANDARD
FH FIRE HYDRANT	T TANGENT
F.H.T. FIRE HYDRANT TEE	TELE TELEPHONE
FT FEET	TERR TERRACE
G GAS	UVB UPPER VERTICAL BEND
GHC GAS HOUSE CONNECTION	V### WSSC VALVE NUMBER
H.B. HORIZONTAL BEND	V VALVE
INV INVERT	V.B. VERTICAL BEND
LF LINEAR FEET	W WATER
LN LANE	WHC WATER HOUSE CONNECTION

LEGEND:

EXISTING	PROPOSED	EXISTING	PROPOSED
TELEPHONE		WATER	
ELECTRIC		WHC	
TRANSFORMER		CABLE	
LIGHT POLE		REDUCER	
UTILITY POLE		VALVE	
GUY WIRE		THRUST COLLAR	
OVER HEAD ELEC.		WATER METER	
GAS		FIRE HYDRANT	
GAS VALVE		BLOW OFF	
SEWER		CURB STOP	
SHC		A.R.V.	
SEWER MANHOLE		VENT BOX	
CLEAN OUT		CURB AND GUTTER	
STORM DRAIN		CURB	
STORM MANHOLE		PROPERTY LINE	
INLET		RIGHT OF WAY	
REMOVE		TREE	
ABANDON		BUILDING	
PROJECT EXTENTS		TRAVERSE POINT	
TEST PITS.		BENCHMARK	
FLOOD PLAIN		PAVING CORES	
100-YR FLOOD PLAIN		BORINGS	
MILL & OVERLAY		DIRECTION OF THRUST	
WETLAND		TREE TO BE REMOVED	
LOD			
UTILITY TO BE ABANDONED/REMOVED			
FIBER OPTIC			

RESTORATION SCHEDULE		
LOCATION	GRADING TYPE	RESTORATION TYPE
IN EXISTING PAVING	NA	MILL/OVERLAY
DRIVEWAY	NA	IN KIND
NON PAVED/GRASS AREAS	NA	TYPE A SOD
NON PAVED/UNIMPROVED	NA	TYPE E SOD

RESTORATION NOTES:

- RESTORATION IN EXISTING PAVING SHALL BE FULL WIDTH 2-INCH MILL AND OVERLAY.
- REPAIR PIPE TRENCH PER MDOT SHA STANDARD NO. MD 578.01.
- FINAL ROAD RESTORATION WILL BE PERFORMED AS PART OF THIS MDOT SHA CONTRACT, NO. PG2805176.
- WHERE DISTURBED BY HOUSE CONNECTION REPLACEMENT, DRIVEWAYS SHALL BE RESTORED IN-KIND.
- WHERE DISTURBED BY PIPE REPLACEMENT, RESTORE CURB PER MDOT SHA OR MONTGOMERY COUNTY STANDARDS.

PRESSURE ZONE= 495A
HHG: 540
LHG: 460

DRAINAGE BASIN: NO. 12, MINI BASIN NO. 025 AND NO. 05, MINI BASIN NO. 020

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.: 25830
 EXP. DATE: 02/05/2025

DATE	REVISIONS

RELOCATIONS SECTION	
DATE	PROJECT MANAGER
CONTRACT 1038749 - CF	
WSSC SHEET NUMBER	
GENERAL NOTES AND LEGEND	NO 02
200'S 209NW04	OF 03

WASHINGTON SUBURBAN SANITARY COMMISSION



THESE DOCUMENTS CONTAIN PRIVILEGED AND CONFIDENTIAL INFORMATION WHICH SHALL NOT BE REDISTRIBUTED WITHOUT PRIOR WSSC APPROVAL

ENGINEER:
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 ADDRESS: 801 SOUTH CAROLINE ST, BALTIMORE, MD 21231
 PHONE: 410-235-3450
 CONTACT: L. FRANKE

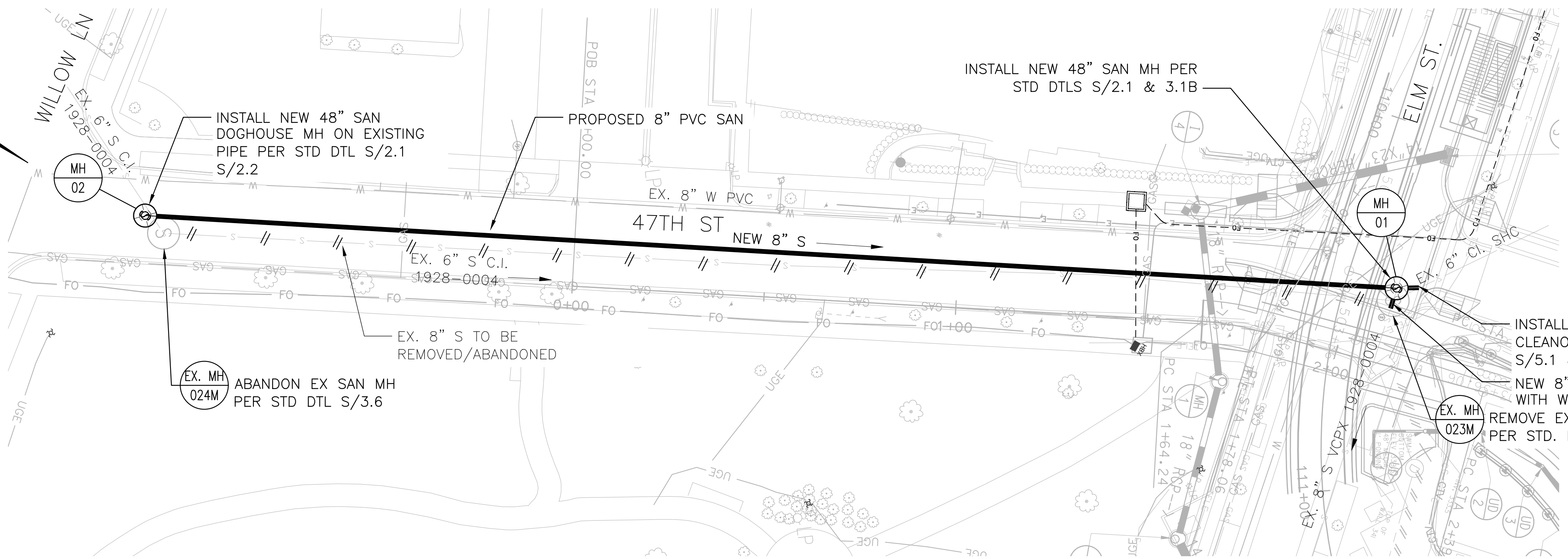
7TH ELECTION DISTRICT BETHESDA
47TH STREET SEWER RELOCATION
 47TH STREET, FROM ELM STREET TO WILLOW LANE
 GAITHERSBURG, MONTGOMERY COUNTY, MARYLAND

VERIFY SCALE - BAR IS ONE INCH ON ORIGINAL DRAWING 0 - 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

PATH: N:\31951-1\80\CADD\31951180 - G-2 - GENERAL NOTES.DWG

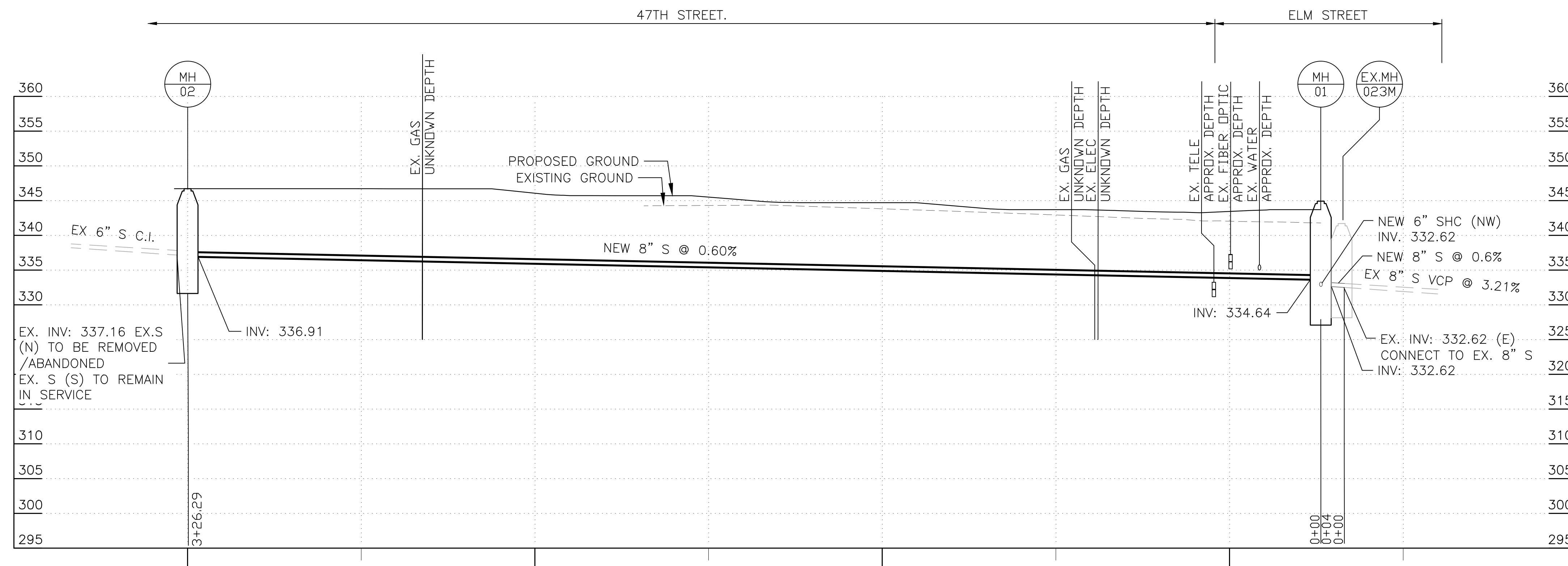
SANITARY SEWER STAKEOUT DATA

8" SANITARY SEWER - 47TH STREET & ELM STREET PARK		
MH NO.	NORTHING	EASTING
MH 01	478911.28	1286293.57
MH 02	479202.84	1286147.10



47TH STREET PLAN - SANITARY SEWER

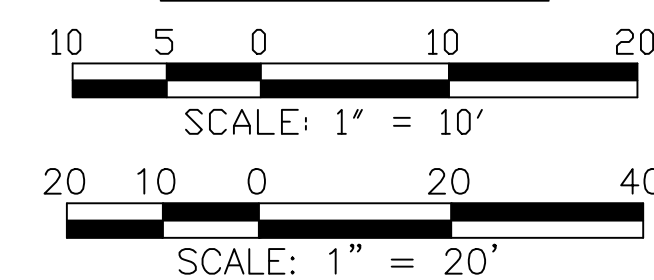
SCALE: 1"=20'



8" SEWER PROFILE - 47TH ST. AND ELM ST. PARK

HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

GRAPHIC SCALES



PROFESSIONAL CERTIFICATION

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RELOCATIONS SECTION

DATE _____ PROJECT MANAGER _____

CONTRACT 1038749 - CF

WSSC SHEET NUMBER	
SEWER RELOCATION PLAN AND PROFILE	NO 03
200'S 209NW04	OF 03

PRESSURE ZONE= 495A
HHG: 540
LHG: 460

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