

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

TIM CUPPLES  
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

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.

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

TIM CUPPLES  
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

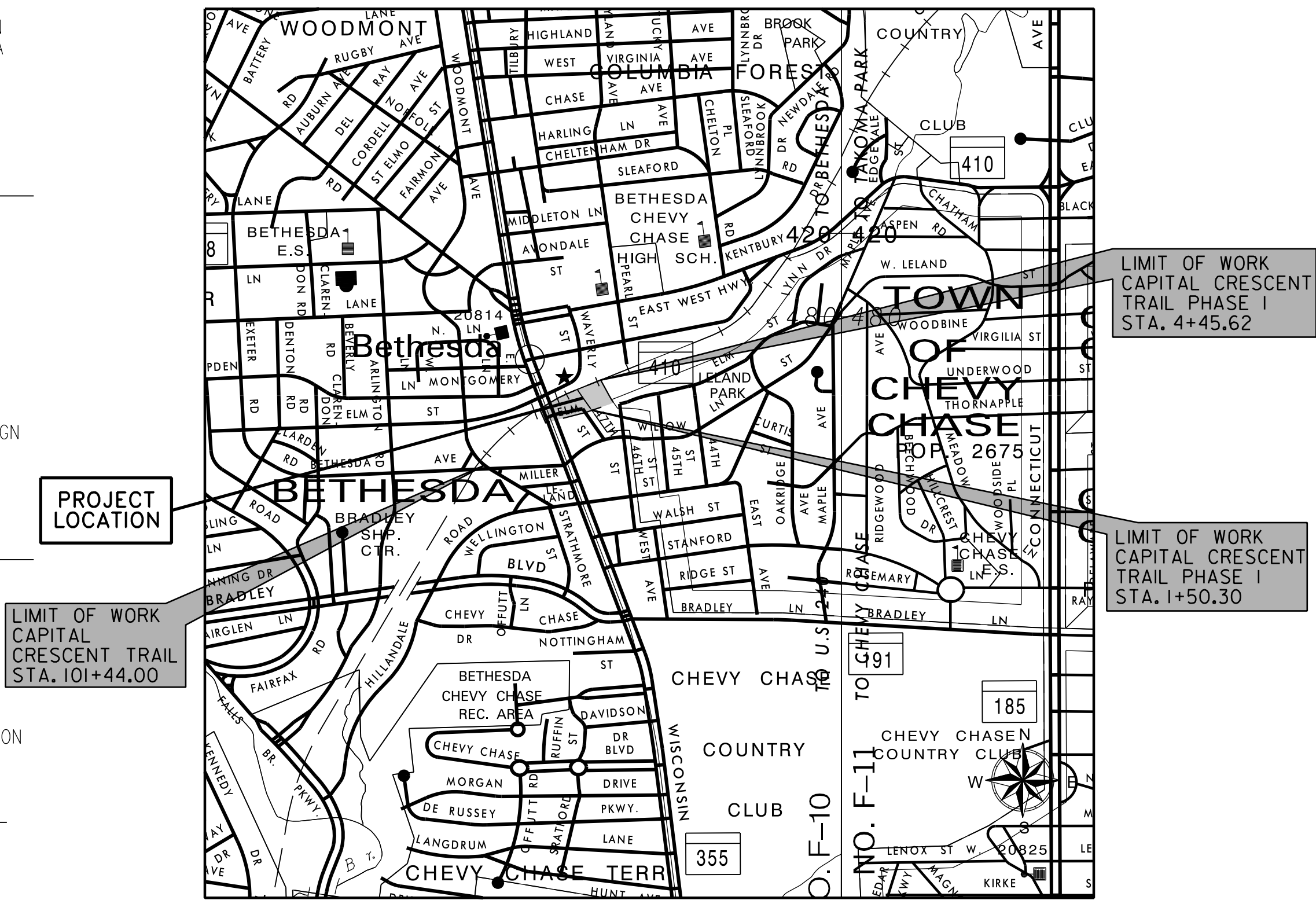
I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE X,XXX CUBIC YARDS OF EXCAVATION AND XXX CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE A MAXIMUM OF XX,XXX SQUARE FEET OR X.XX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

DATE

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

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
CAPITAL CRESCENT TRAIL  
PHASE 1

C. I. P. PROJECT 501316



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

OWNER/CONTACT/ADDRESS  
MR. JON HUTCHINGS  
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878  
240-777-7224



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: \_\_\_\_\_

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			
WATERWAY(S)/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 #:	APPROVAL DATE	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 2019, 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. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
4. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
5. ALL STORM DRAIN PIPES SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
6. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
7. 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.
8. 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.
9. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
10. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
11. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
12. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
13. 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
14. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
15. PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".
16. WORK ALONG THE CAPITAL CRESCENT SURFACE TRAIL FROM STA. 0+00 TO STA. 1+50.30 WILL BE DONE BY OTHERS.
17. 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.

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	
		0	
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 FORMULAE:			
(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;		existing access road, if the person performing the maintenance has obtained all required permits;	
55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A;		55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits;	
55-5(f) any activity conducted by the County Parks Department		55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams;	
55-5(g) routine or emergency maintenance of an existing stormwater management facility, including		OTHER: Specify per Section 55-5 of the Code.	

MCDPS-SC/SWM SHEET NO. OF

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS	ADMINISTRATIVE REQUIREMENTS
FULL WAIVER		
Reviewed	Date	Reviewed
Approved	Date	SEDIMENT CONTROL PERMIT NO.
S.M. FILE NO.		
DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES		

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section

Chief, Division of Transportation Engineering

Designed by: DTR

Drawn by: SAZ

Checked by: JAG

TITLE SHEET

CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : N/A

MAY 2021

Project No. : 501316

SHEET 1 of 31

INDEX OF SHEETS – PHASE 1

SHEET NO.	SC/SWM NO.	DRAWING DESCRIPTION
1		TITLE SHEET
2		INDEX OF SHEETS
3		LEGEND AND ABBREVIATIONS
4		GEOMETRY SHEET
5		TRAIL TYPICAL SECTION AND DETAILS
6		TRAIL AND ROADWAY PLAN – PHASE 1 SURFACE TRAIL
7		TRAIL AND ROADWAY PLAN – WOODMONT PLAZA
8		TRAIL PROFILE – PHASE 1 SURFACE TRAIL
9		TRAIL PROFILE – WOODMONT PLAZA
10		EROSION AND SEDIMENT PLAN
11		LIGHTING PLAN
12		LIGHTING PLAN
13		LIGHTING PLAN
14		LIGHTING PLAN
15		LIGHTING PLAN
16		LIGHTING PLAN
17		SIGNING AND PAVEMENT MARKING PLAN
18		LANDSCAPE PLAN
19		LANDSCAPE NOTES & DETAILS
20		RETAINING WALL A PLAN AND ELEVATION
21		RETAINING WALL A MISCELLANEOUS DETAILS 1
22		RETAINING WALL A MISCELLANEOUS DETAILS 2
23		RETAINING WALL B PLAN AND ELEVATION
24		RETAINING WALL B TYPICAL SECTION
25		FENCE DETAILS
26		STRUCTURAL DETAILS – 1
27		STRUCTURAL DETAILS – 2
28		STRUCTURAL DETAILS – 3
29		FLOOR PLANS – BIKE RACK LAYOUT
30		ELEVATION – BIKE RACK AREA
31		PLAN DETAILS AT WESTERN PORTAL

INDEX OF SHEETS FOR WSSC RELOCATION PLANS – PHASE 1


WSSC SHEET NO.	DRAWING DESCRIPTION
1	TITLE SHEET, LOCATION, & VICINITY MAPS
2	GENERAL NOTES & STAKEOUT DATA
3	WATER MAIN RELOCATION PLAN
4	WATER MAIN RELOCATION PROFILES
5	WATER MAIN RELOCATION PROFILES
6	SEQUENCE OF CONSTRUCTION
7	WATER DETAILS
8	SEWER RELOCATION PLAN
9	SEWER RELOCATION PROFILES

INDEX OF SHEETS FOR ELM STREET PARK PHASE 1 PLANS

PARK SHEET NO.	DRAWING DESCRIPTION
1	LANDSCAPE PLAN
2	LANDSCAPE GRADING PLAN
3	PLANTING PLAN
4	LANDSCAPE DETAILS
5	LANDSCAPE DETAILS
6	LANDSCAPE DETAILS
7	PLANTING DETAILS
8	SITE FURNISHING DETAILS
9	PLAY EQUIPMENT DETAILS
10	FITNESS EQUIPMENT DETAILS

N:\31951-018\CADD\G04-001\_31951018\_Phase 1.dgn  
5/14/2021 – 11:02 AM

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 APPROVED	Date
				Chief, Division of Transportation Engineering	Date
NO.	REVISION	DATE	BY	Designed by: <u>DTB</u> Drawn by: <u>DTB</u> Checked by: <u>JAG</u>	
				Project No. : <u>501316</u> SHEET <u>2</u> of <u>31</u>	

INDEX OF SHEETS

CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : NONE MAY 2021

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

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:

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

	TELEPHONE MANHOLE		PROPOSED FENCE
	WATER METER		EXISTING CHAINLINK FENCE
	WATER VALVE		PROPOSED HANDRAIL
	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		FILL(MADE GROUND)
	BORING		USCS HIGH PLASTICITY CLAY
	INLET		USCS LOW PLASTICITY CLAY
	MANHOLE		USCS LOW PLASTICITY SILTY CLAY
	EXISTING WBEAM		USCS LOW PLASTICITY SANDY CLAY
	PROPOSED WBEAM		USCS HIGH PLASTICITY SILT
	WETLAND BUFFER		USCS LOW PLASTICITY SILT
	WETLAND		USCS CLAYEY SAND
			USCS SILTY SAND
			USCS SAND
			BEDROCK

HP	High Point
HMA	Hot Mix Asphalt
HT	Height
IN	Inch
INV	Invert
L	Length
LANDSC	Landscaped
L.F.	Linear Feet
LP	Low Point
LT	Left
MAX	Maximum
MBT	Metropolitan Branch Trail
MC	Montgomery County
MOD	Modified
MIN	Minimum
N	North
NB	Northbound
NE	Northeast
NTS	Not To Scale
O.C.	On Center
OH	Overhead
P.C.	Point of Curvature
P.C.C.	Point of Compound Curve
P/C	Point of Crown
P/CE	Profile Grade Elevation
P.G.E.	Profile Ground Elevation
P.G.L.	Profile Grade Line
P/GL	Profile Ground Line
P/R	Point of Rotation
PE	Perpetual Easement
P.I.	Point of Intersection
P.O.B.	Point of Beginning
P.O.C.	Point on Curve
P.O.E.	Point of Ending
P.O.T.	Point on Tangent
PROP.	Proposed
PT	Point

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: \_\_\_\_\_



INLET.....	I 1
MANHOLE.....	MH 1
JUNCTION BOX .....	JB 1
FIELD CONNECTION .....	C 1
BEND.....	B 1
END SECTION .....	ES 1
END WALL.....	EW 1
ADJUST EX. STRUCTURE .....	A 1

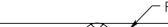
MANHOLE



GRATE OR COMBINATION ROADWAY INLET



TYPE COSCOG INLET



END SECTION



JUNCTION BOX OR MEDIAN INLET



SHALLOW COSCOG/ COS SCUPPER



X DENOTES LOCATION OF STATION/OFFSET POINT FOR INLETS OTHER AND STRUCTURES.

DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPER WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES.

SCALE : NONE MAY 2021

---

Project No. : 501316 SHEET 3 of 31

RECOMMENDED FOR APPROVAL

---

Chief, Transportation Planning and Design Section

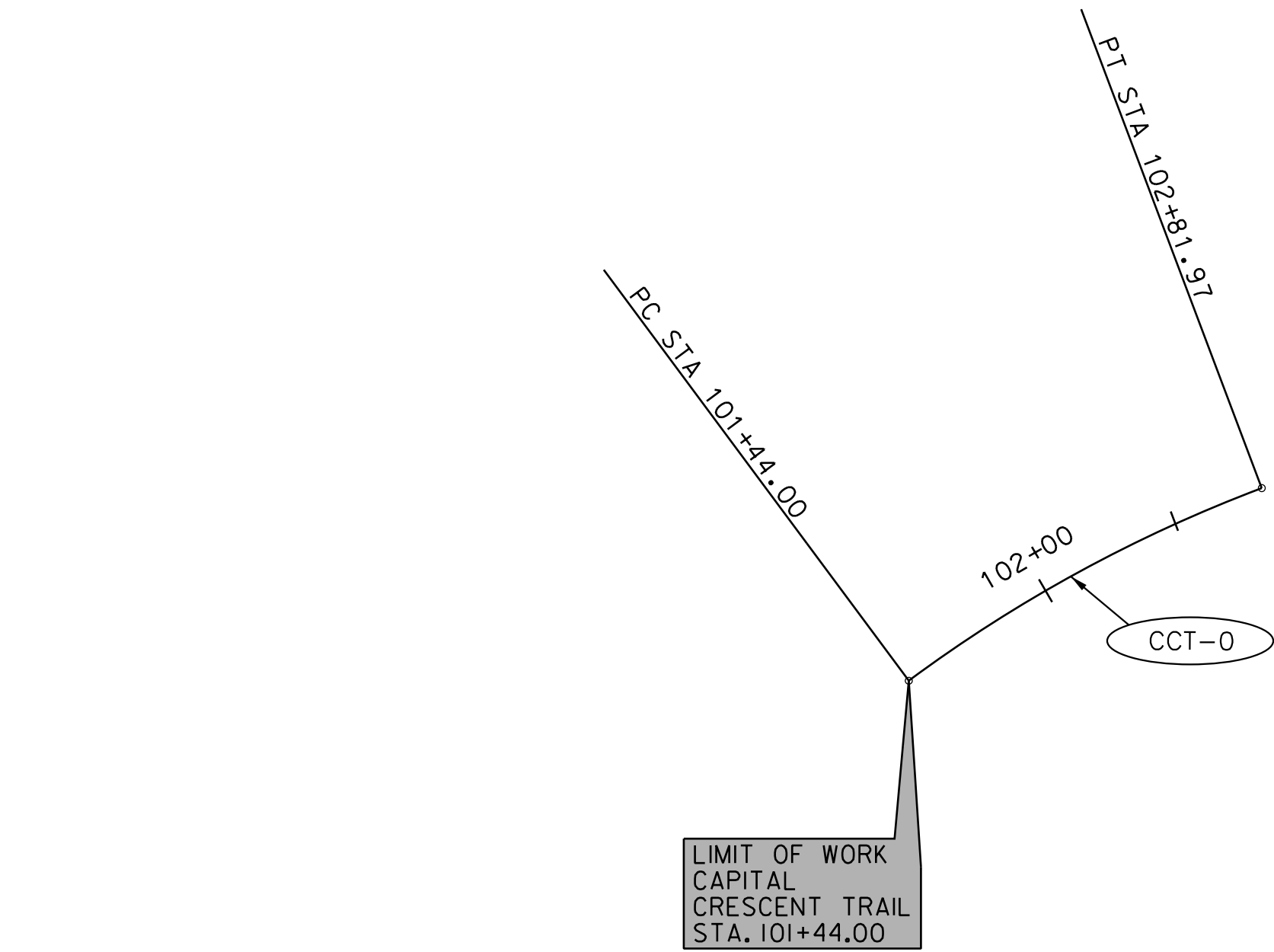
APPROVED

Date

NO	REVISION	DATE	BY
----	----------	------	----

CONSTRUCTION CONTROL COORDINATES				
CURVE	DESCRIPTION	STATION	NORTH	EAST
CONSTRUCTION CAPITAL CRESCENT TRAIL (CCT)				
CCT-0	POB	101+44.00	478,884.5470	1,285,330.6700
	PC	101+44.00	478,884.5470	1,285,330.6700
	PI	102+13.43	478,936.6469	1,285,376.5661
	PT	102+81.97	478,974.1583	1,285,434.9934
CONSTRUCTION CAPITAL CRESCENT TRAIL SURFACE TRAIL (CCST)				
CCST-1	POB	0+00.00	479,016.6056	1,286,253.9869
	PC	01+50.30	479,150.7581	1,286,186.2217
	PI	01+63.89	479,162.8920	1,286,180.0925
	PT	01+77.41	479,175.9488	1,286,176.3087
CCST-2	PC	02+27.54	479,224.1030	1,286,162.3542
	PI	02+29.27	479,225.7630	1,286,161.8731
	PT	02+31.00	479,227.4339	1,286,161.4315
CCST-5	PC	02+39.69	479,235.8404	1,286,159.2097
	PI	02+91.18	479,285.6192	1,286,146.0533
	PT	03+21.94	479,301.1301	1,286,195.1495
CCST-6	PC	03+77.42	479,317.8426	1,286,248.0494
	PI	04+04.97	479,326.1412	1,286,274.3167
	PT	04+29.07	479,351.4709	1,286,285.1447
*CCST-7	PC	9+60.58	479,381.8381	1,286,298.1262
	PI	9+65.91	479,386.7399	1,286,300.2216
	PT	9+70.61	479,388.4710	1,286,305.2636
	POE	10+78.29	479,423.4365	1,286,407.1064

\*CONSTRUCTED BY OTHERS



CURVE DATA									
CURVE	PI STATION	DELTA	Dc	R	L	T	E	PI NORTH	PI EAST
CONSTRUCTION CCT									
CCT-0	102+13.43	15° 55'16.11" RT	11' 32'22.44"	496.52'	137.97'	69.43'	4.83'	478,936.6469	1,285,376.5661
CONSTRUCTION CAPITAL CRESCENT SURFACE TRAIL (CCST)									
CCST-1	01+63.89	10° 38'20.22" RT	39' 14'37.26"	146.00'	27.11'	13.59'	0.63'	479,162.8920	1,286,180.0925
CCST-2	02+29.27	1° 21'23.16" RT	39' 14'37.26"	146.00'	3.46'	1.73'	0.01'	479,225.7630	1,286,161.8731
CCST-5	02+91.18	87° 16'18.46" RT	106° 06'11.86"	54.00'	82.25'	51.49'	20.61'	479,285.6192	1,286,146.0533
CCST-6	04+04.97	49° 19'16.90" LT	95° 29'34.68"	60.00'	51.65'	27.55'	6.02'	479,326.1412	1,286,274.3167
*CCST-7	09+65.91	47° 54'19.27" RT	477° 27'53.39"	12.00'	10.03'	5.33'	1.13'	479,386.7399	1,286,300.2216

\*CONSTRUCTED BY OTHERS

NOTES

1. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88.

LEGEND	
X-A	HORIZONTAL LINE ID NUMBER
X-1	HORIZONTAL CURVE ID NUMBER

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: \_\_\_\_\_

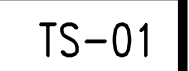
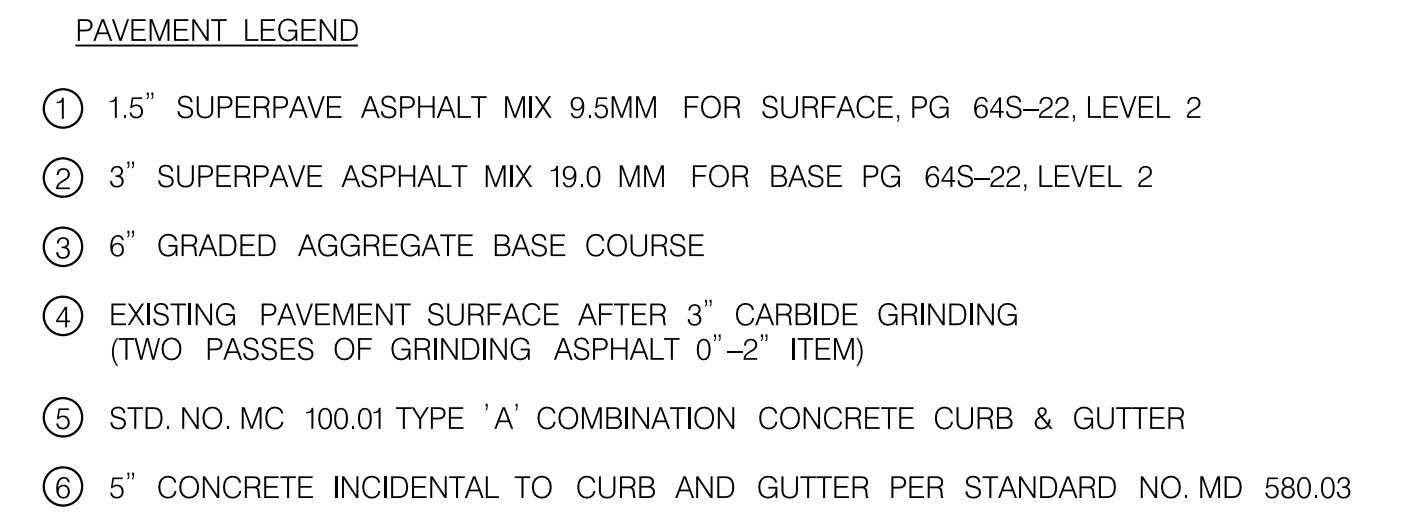
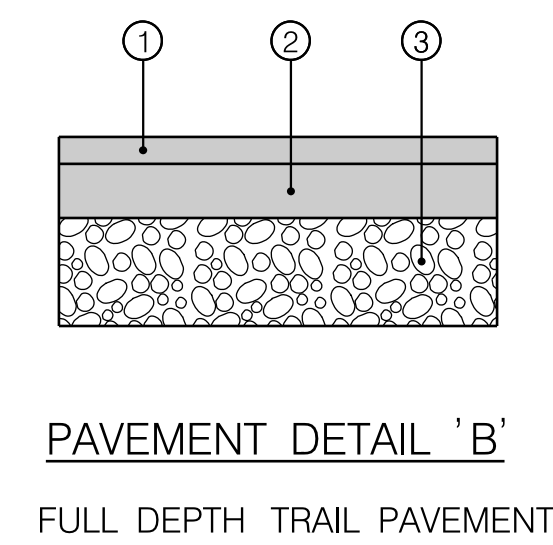
**WRA**  
**Whitman, Requardt & Associates, LLP**  
801 South Caroline Street, Baltimore, Maryland 21231

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	1286641.0241
MER305	337.39'	479210.4102	1286325.4389
PN2	341.72'	479424.8361	1286134.2157
PN3	350.73'	479690.3228	1286098.4358

LINE DATA		
LINE	LENGTH	BEARING
CCST-K	150.30'	N 26° 47'59.84" W
CCST-L	50.14'	N 16° 09'39.62" W
CCST-M	8.70'	N 14° 48'16.47" W
CCST-Q	55.48'	N 72° 28'02.00" E
CCST-R	33.03'	N 23° 08'45.10" E
*CCST-J	107.68'	N 71° 03'04.37" E

\*CONSTRUCTED BY OTHERS

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		GEOMETRY SHEET	
				RECOMMENDED FOR APPROVAL		CAPITAL CRESCENT TRAIL PHASE 1 BETHESDA, MARYLAND	
				Chief, Transportation Planning and Design Section APPROVED		SCALE : 1" = 50'	
				Chief, Division of Transportation Engineering		MAY 2021	
				Designed by: <u>DTB</u> Drawn by: <u>SAZ</u> Checked by: <u>RHD</u>		Project No. : <u>501316</u> SHEET <u>4</u> of <u>31</u>	
NO.	REVISION	DATE	BY				



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

[illegible]





5" WIDE X 2.25" HIGH X 0.25" THICK  
SOLID ALUMINUM BIKE ACCESS RAMP  
SEE NOTES 1 AND 2 FOR DETAILS

INSTALL 36" HIGH STAINLESS STEEL  
HANDRAILS ALONG BOTH SIDES OF  
STAIRS - SEE DETAIL THIS SHEET

MATCH EXISTING SIDEWALK  
ELEVATION AND GRADE

- FACE OF EXISTING WALL

- TIE INTO CCT UNDER  
7272 WISCONSIN AVE

5" CONCRETE SIDEWALK		
STATION	SF	REMARKS
101+44 TO 102+52	1227	LEFT / RIGHT
101+68 TO 101+78	153	LEFT

STORM DRAIN PIPE SCHEDULE					
STRUCTURE	STRUCTURE	SIZE	TYPE	CLASS	LENGTH
I-1-1	FXMH-1-1	4"	RCP	-	4'

MODIFICATIONS TO EXISTING STRUCTURES					
STRUCTURE NO.	STATION	OFFSET	TOP ELEV.	TOP ELEV. REMARKS	REMARKS
FXMH-1-1	102+41	1' 0" RT	321.94	TS	MODIFY TOP OF STRUCTURE TO PROPOSED GRADE

STORM DRAIN STRUCTURE SCHEDULE								
STRUCTURE NO.	STATION	OFFSET	INV. IN	INV. OUT	TOP ELEV.	TOP ELEV. REMARKS	TYPE	STD. REF.
1-1-1	102+47	0.8' RT	-	320.90	321.79	TG	TRENCH DRAIN	-

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, LLC**  
801 South Caroline Street, Baltimore, Maryland 2123

## NOTES

1. PLACE THE EDGE OF THE RAMP ASSEMBLY 6" FROM THE ADJACENT WALL OR EDGE OF STAIRWAY
2. CUT 8' RAMP TO PROPER LENGTH AND INSTALL RAMP, END CAPS AND BRACKETS PER MANUFACTURER'S INSTRUCTIONS

PS-02

### LEGEND



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section  
APPROVED

Chief, Division of Transportation Engineering

Drawn by: D

Drawn by: D

Checked by: PHD

## TRAIL AND ROADWAY PLAN WOODMONT PLAZA

CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

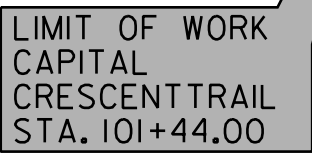
SCALE : AS SHOWN

MAY 2021

Project No. :	501316
---------------	--------

SHEET 07 of 31





**VERTICAL SCALE**

2.5' 0 2.5' 5'

SCALE: 1" = 2.5"

**HORIZONTAL SCALE**

10' 0 10' 20'

SCALE: 1" = 10"

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: \_\_\_\_\_

[illegible]

<h1 style="margin: 0;">MONTGOMERY COUNTY</h1> <h2 style="margin: 0;">DEPARTMENT OF TRANSPORTATION</h2> <h3 style="margin: 0;">GAITHERSBURG, MARYLAND</h3>	
<p>RECOMMENDED FOR APPROVAL</p>	
<p>Chief, Transportation Planning and Design Section</p>	<p>Date</p>
<p>APPROVED</p>	
<p>Chief, Division of Transportation Engineering</p>	<p>Date</p>
<p>Designed by: <u>DTB</u></p>	<p>Drawn by: <u>SAZ</u></p>
<p>Checked by: <u>PHD</u></p>	

TRAIL PROFILE - WOODMONT PLAZA

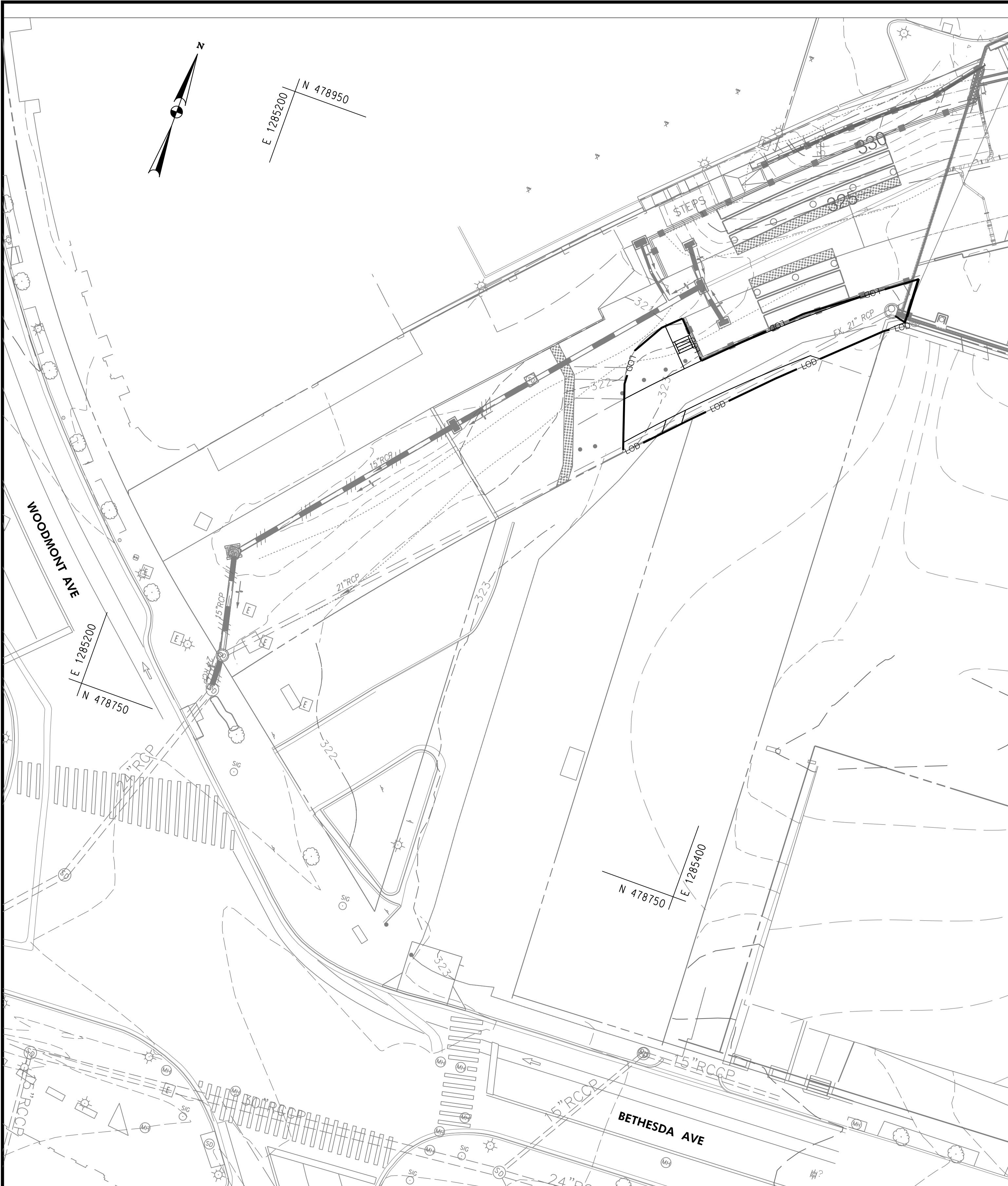
CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : AS SHOWN

Project No. : 501316

SHEET 09 of 31

MAY 2021

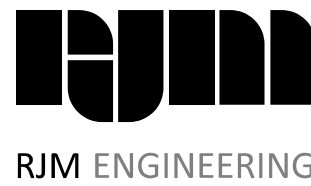


GENERAL NOTES:

1. 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.
2. WHERE NO SCE IS PROVIDED, THE CONTRACTOR SHALL EITHER CONDUCT ALL WORK FROM EXISTING PAVEMENT REACHING INTO THE WORK AREA OR DESIGNATE PIECES OF CONSTRUCTION EQUIPMENT THAT SHALL BE ALLOWED WITHIN THE LOD. THIS EQUIPMENT SHALL BE KEPT WITHIN THE LOD UNTIL THE PROPOSED WORK IS COMPLETE AND SHALL HAVE TREADS/TIRES CLEANED PRIOR TO LEAVING THE LOD. ALL MATERIAL REMOVAL/LOAD OUT SHALL BE LIFTED FROM THE LOD.
3. EROSION AND SEDIMENT CONTROL DEVICES AND/OR MEASURES ARE TO REMAIN IN PLACE UNTIL THEIR REMOVAL IS APPROVED BY THE MCDPS INSPECTION. STABILIZE THE DISTURBED AREA.

LEGEND:

— LOD — LIMIT OF DISTURBANCE



RJM ENGINEERING

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

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



EP-01

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section  
APPROVED \_\_\_\_\_ Date \_\_\_\_\_

Chief, Division of Transportation Engineering  
APPROVED \_\_\_\_\_ Date \_\_\_\_\_

Designed by: WJ Drawn by: WJ Checked by: DZ

PHASE 1 EROSION AND  
SEDIMENT CONTROL PLAN

CAPITAL CRESCENT TRAIL  
UNDER MD 355  
BETHESDA, MARYLAND

SCALE : 1"=20'-0" FEBRUARY 2020  
Project No. : 501316 SHEET 21 of 169

GENERAL LIGHTING NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.

LIGHTING LEGEND

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

POLE/LUMINAIRE SCHEDULE

POLE/ LUMINAIRE NUMBER	STATION	OFFSET	MOUNTING HEIGHT (FEET)	TYPE
P-11	2+29.1	8.5' LT.	13'-0"	70 WATT BETHESDA LED GLOBE HARD-TOP ON WASHINGTON CAST IRON DECORATIVE POLE
P-12	3+89.1	8.5' LT.	13'-0"	70 WATT BETHESDA LED GLOBE HARD-TOP ON WASHINGTON CAST IRON DECORATIVE POLE
P-13	3+52.0	8.5' LT.	13'-0"	70 WATT BETHESDA LED GLOBE HARD-TOP ON WASHINGTON CAST IRON DECORATIVE POLE
P-14	112+59.7	10.6' LT.	13'-0"	70 WATT BETHESDA LED GLOBE HARD-TOP ON WASHINGTON CAST IRON DECORATIVE POLE
P-15	112+93.6	7.0' RT.	13'-0"	70 WATT BETHESDA LED GLOBE HARD-TOP ON WASHINGTON CAST IRON DECORATIVE POLE

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: \_\_\_\_\_

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

CONSTRUCTION DETAILS:

1. INSTALL (1) 2 INCH SCHEDULE 40 PVC CONCRETE ENCASED CONDUIT.
2. INSTALL (2) 4 INCH SCHEDULE 40 PVC CONCRETE ENCASED CONDUITS.
3. INSTALL PEPCO APPROVED SECONDARY STREET LIGHT SPLICE BOX (17"x30"x30") 9718-8065.
4. 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.
5. INSTALL BETHESDA LED GLOBE LUMINAIRE AND WASHINGTON CAST IRON DECORATIVE POLE.

LT-01

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section  
APPROVED

Chief, Division of Transportation Engineering

Designed by: WRA Drawn by: WRA Checked by: WRA

LIGHTING PLAN - PHASE 1

CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : 1" = 20'  
Project No. : 501316

SHEET 11 of 31

MAY 2021

MONTGOMERY COUNTY, MARYLAND  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC ENGINEERING AND OPERATIONS

## BETHESDA LED GLOBE LUMINAIRE

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.

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:

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

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.

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

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.

- 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.

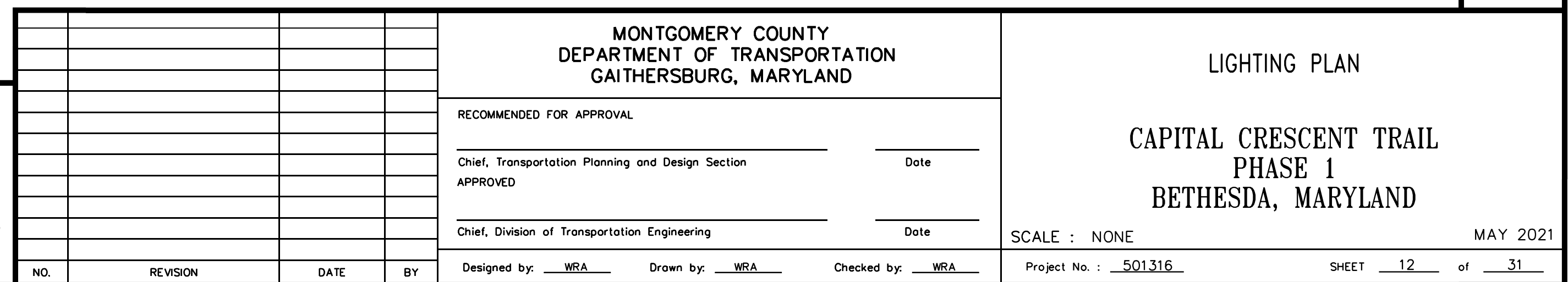
The driver shall be mounted to facilitate easy removal for maintenance operations. The driver shall be equipped with a 10KV Surge Protection and suppression system. All electrical connections shall be polarized and of plug-in design. The driver shall be wired to receive 120 volt AC current. The driver 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.

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

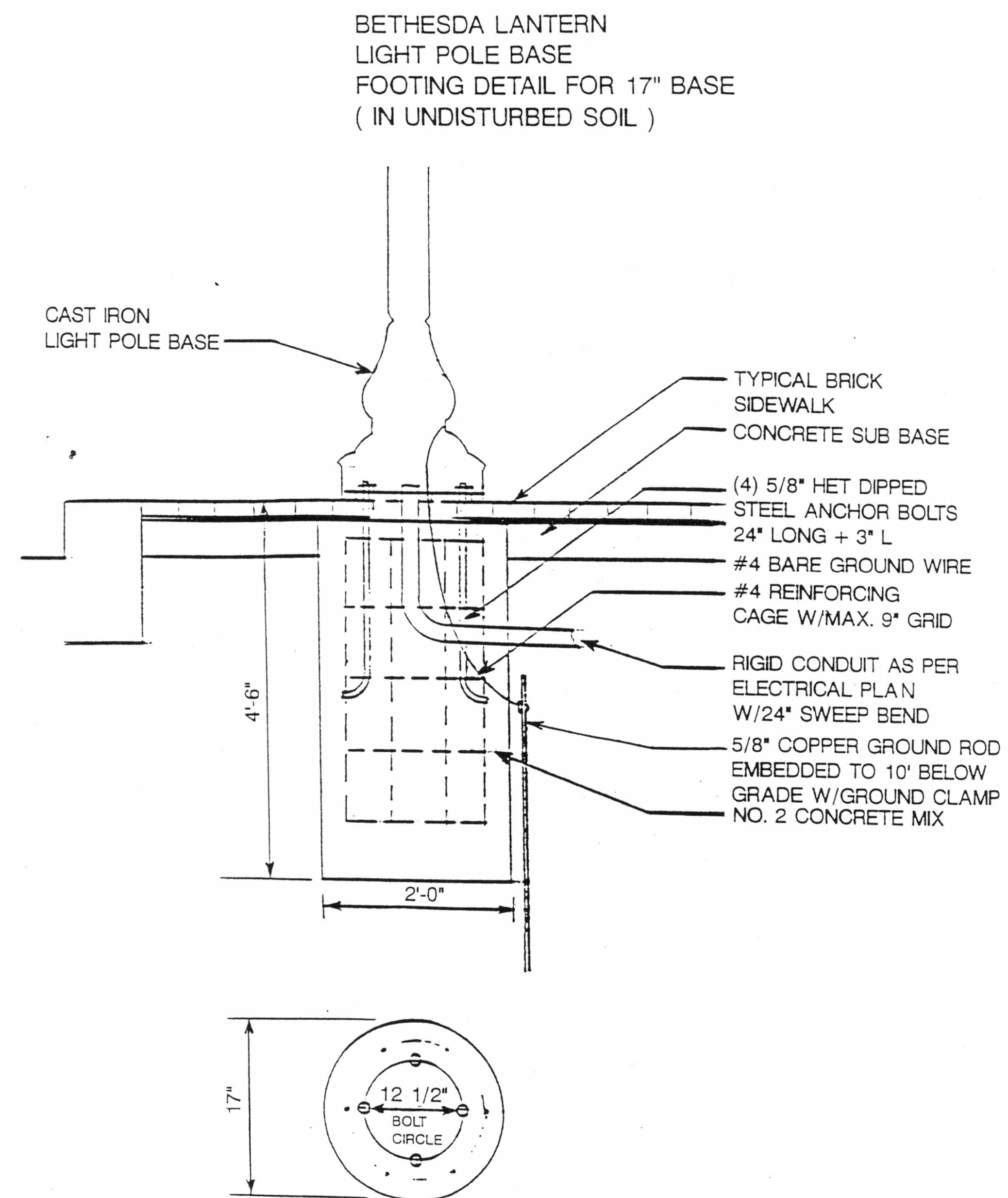
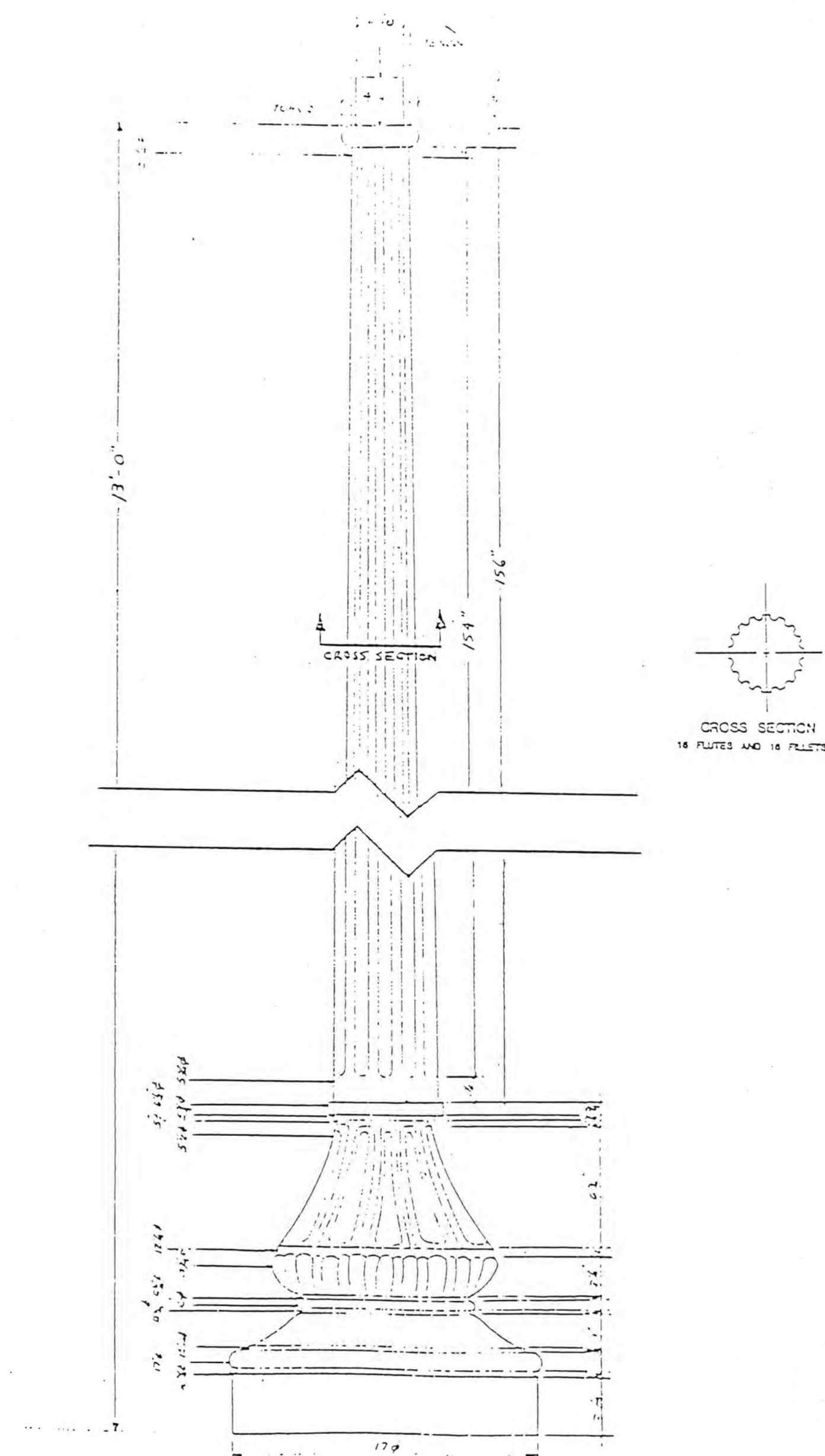
The photocell shall be a twist-lock and shall be mounted inside the fixture.

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

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







MAY 2010

STREETLIGHT POST NUMBERING TAGS

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.

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.

- 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

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.

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

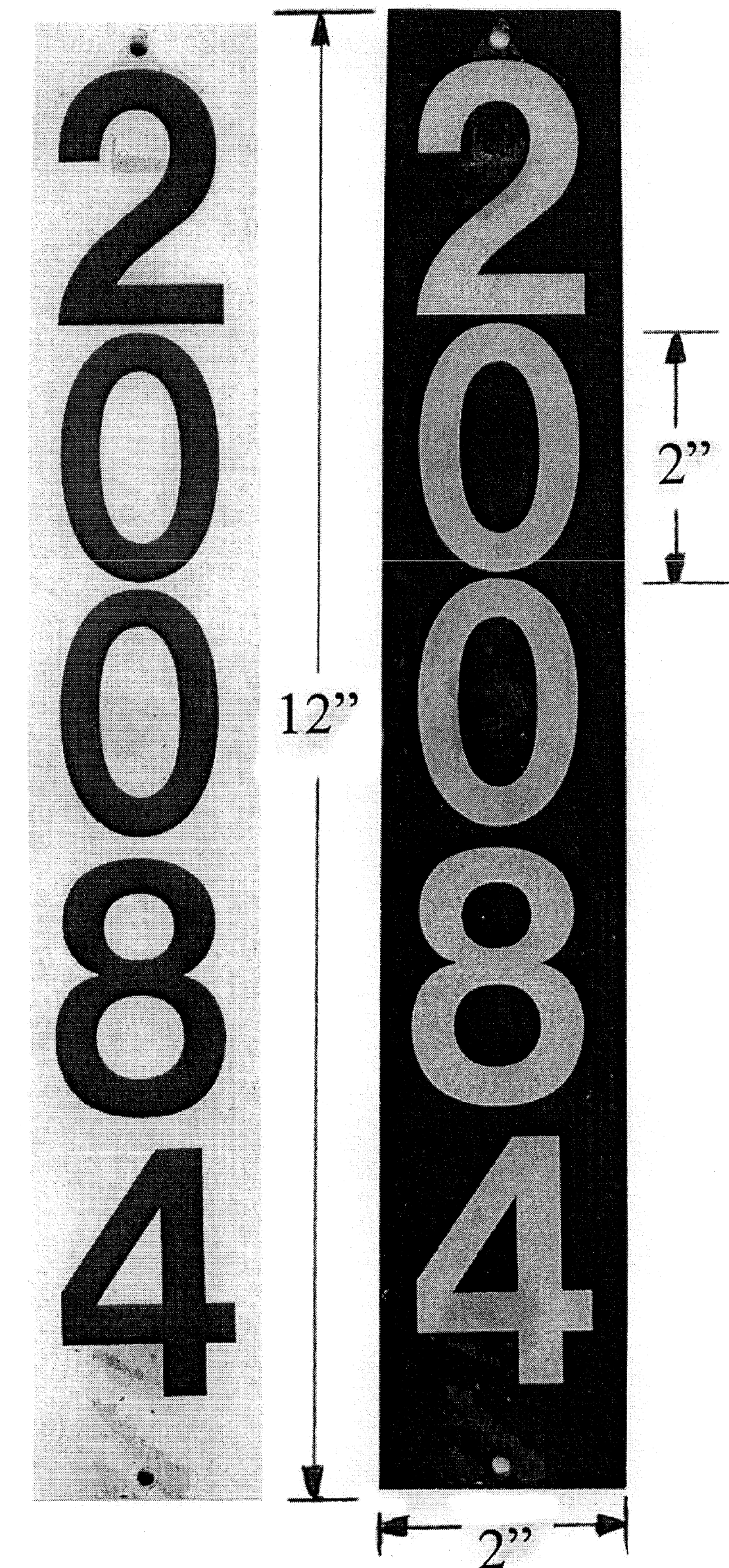
- Numbers on white/silver reflective post tag
- Backing on all other streetlight post tags

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.

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.

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.

The streetlight post numbering tag numbers shall be a minimum of 2 inch high with a minimum of a ¼ inch stroke width.



## STREETLIGHT CONDUIT INSTALLATION CHECKLIST

- 1) 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 36 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 180 DEGREES OF BENDS IN A CONDUIT RUN.
- 10) CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM)] OF COVER OVER IT.
- 11) INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL 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 MCPWTF 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).

## BANNER PLACEMENT ON STREETLIGHTS POLES

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.

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 PEPSCO

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](http://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/](http://www.pepco.com/business/) for the most up to date Pepco standards drawings and construction details and specifications.

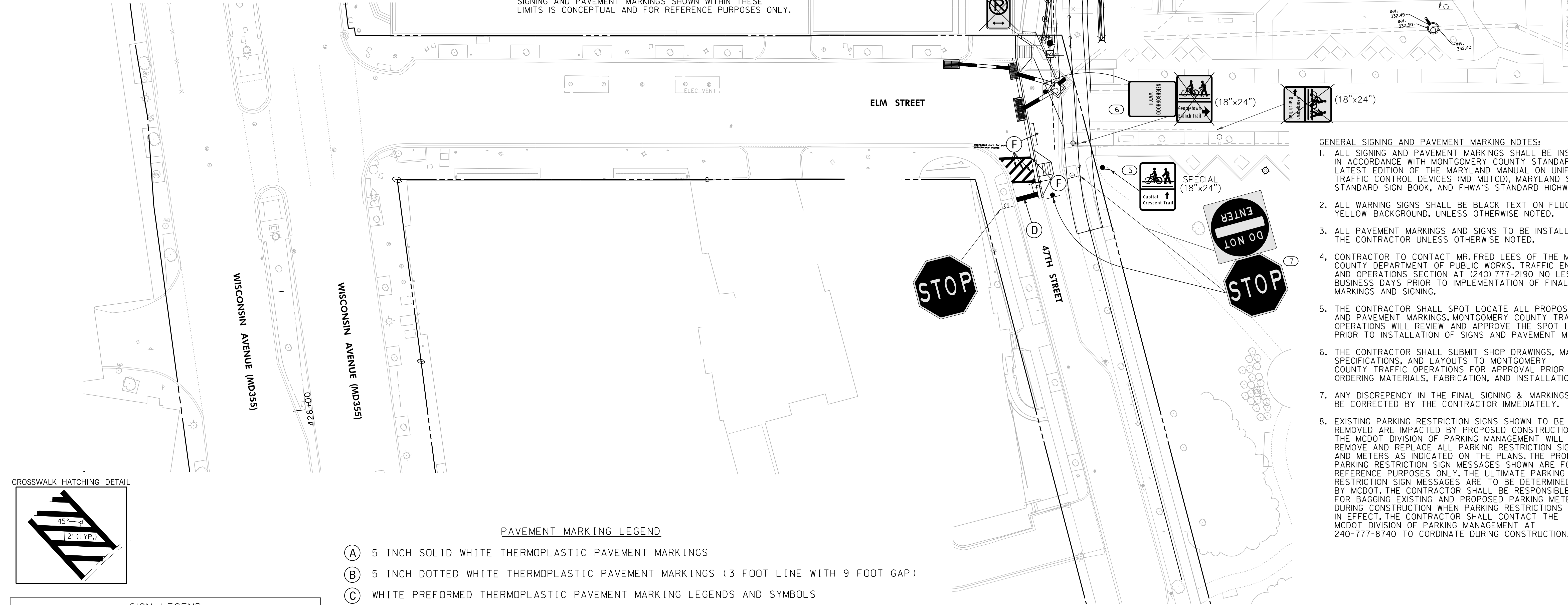
CUSTOMER IS TO BUILD, OWN, AND MAINTAIN ALL STRUCTURAL FACILITIES ON PRIVATE PROPERTY.

SHEET NO.	SIGN NO.	REMARKS	CODE NUMBERS •														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SNO1	5	SPECIAL (18"x24")	3	1		4											
	6	RELOCATE "NEIGHBORHOOD WATCH" SIGN		1		3											
	7	RELOCATE R5-1 AND R1-1		1		12.5											
		REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS			9												
		PAVEMENT MARKING QUANTITIES							9			60					
		PROPOSED QUANTITIES	3	3	9	15.5			9			60					

• CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SQUARE PERFORATED TUBULAR STEEL SIGN POST AND ANCHOR BASE	EA
3	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	BAND SIGN TO SIGN SUPPORT	EA
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS	LF
7	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
9	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS	LF
10	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF

GENERAL NOTE:

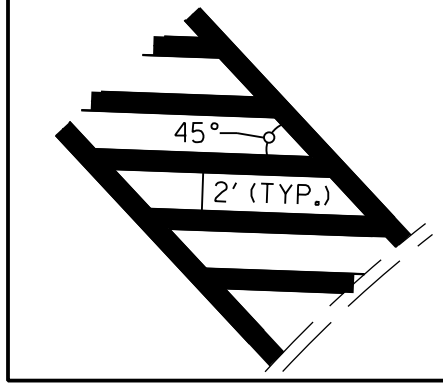
1. PROPOSED SIGNING AND PAVEMENT MARKINGS SHOWN ALONG 47TH STREET BETWEEN STA. 0+00 AND STA. 1+75 IS TO BE TO BE REMOVED AND REPLACED BY OTHERS AS PART OF A DIFFERENT PROJECT. THE SIGNING AND PAVEMENT MARKINGS SHOWN WITHIN THESE LIMITS IS CONCEPTUAL AND FOR REFERENCE PURPOSES ONLY.



GENERAL SIGNING AND PAVEMENT MARKING NOTES:

- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MONTGOMERY COUNTY STANDARDS, THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD), MARYLAND SHA'S STANDARD SIGN BOOK, AND FHWA'S STANDARD HIGHWAY SIGNS.
- ALL WARNING SIGNS SHALL BE BLACK TEXT ON FLUORESCENT YELLOW BACKGROUND, UNLESS OTHERWISE NOTED.
- ALL PAVEMENT MARKINGS AND SIGNS TO BE INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR TO CONTACT MR. FRED LEES OF THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS, TRAFFIC ENGINEERING AND OPERATIONS SECTION AT (240) 777-2190 NO LESS THAN 10 BUSINESS DAYS PRIOR TO IMPLEMENTATION OF FINAL PAVEMENT MARKINGS AND SIGNING.
- THE CONTRACTOR SHALL SPOT LOCATE ALL PROPOSED SIGNS AND PAVEMENT MARKINGS. MONTGOMERY COUNTY TRAFFIC OPERATIONS WILL REVIEW AND APPROVE THE SPOT LOCATIONS PRIOR TO INSTALLATION OF SIGNS AND PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MATERIAL SPECIFICATIONS, AND LAYOUTS TO MONTGOMERY COUNTY TRAFFIC OPERATIONS FOR APPROVAL PRIOR TO ORDERING MATERIALS, FABRICATION, AND INSTALLATION.
- ANY DISCREPANCY IN THE FINAL SIGNING & MARKINGS SHOULD BE CORRECTED BY THE CONTRACTOR IMMEDIATELY.
- EXISTING PARKING RESTRICTION SIGNS SHOWN TO BE REMOVED ARE IMPACTED BY PROPOSED CONSTRUCTION. THE MCDOT DIVISION OF PARKING MANAGEMENT WILL REMOVE AND REPLACE ALL PARKING RESTRICTION SIGNS AND METERS AS INDICATED ON THE PLANS. THE PROPOSED PARKING RESTRICTION SIGN MESSAGES SHOWN ARE FOR REFERENCE PURPOSES ONLY. THE ULTIMATE PARKING RESTRICTION SIGN MESSAGES ARE TO BE DETERMINED BY MCDOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BAGGING EXISTING AND PROPOSED PARKING METERS DURING CONSTRUCTION WHEN PARKING RESTRICTIONS ARE IN EFFECT. THE CONTRACTOR SHALL CONTACT THE MCDOT DIVISION OF PARKING MANAGEMENT AT 240-777-8740 TO CORDINATE DURING CONSTRUCTION.

CROSSWALK HATCHING DETAIL



SIGN LEGEND

	EXISTING GROUND MOUNTED SIGN AND SUPPORT(S)
	PROPOSED GROUND MOUNTED SIGN AND SUPPORT(S)
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN
	TRAFFIC FLOW ARROWS
	PAVEMENT MARKING ARROW

PAVEMENT MARKING LEGEND

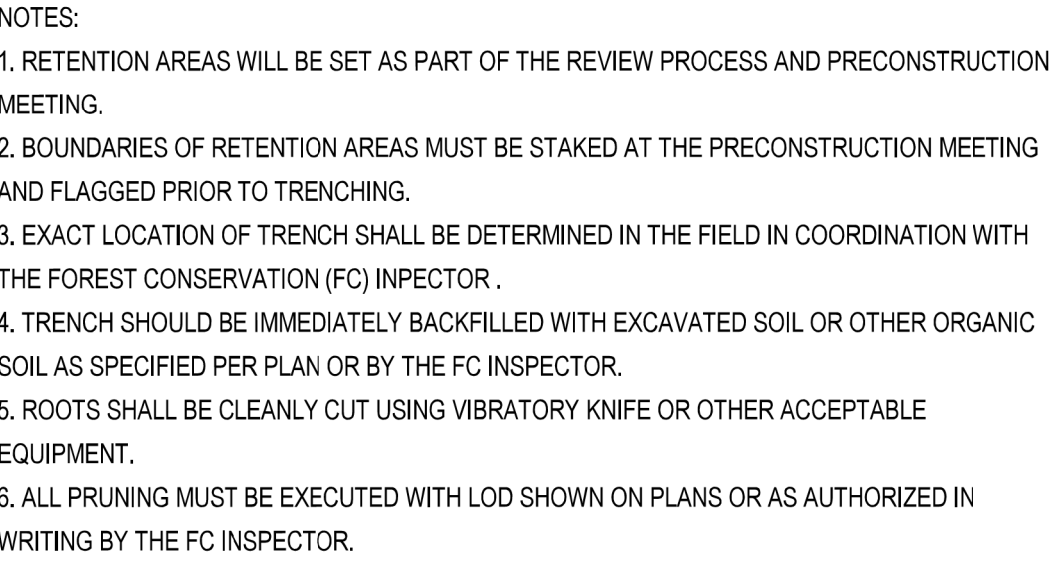
- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH DOTTED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3 FOOT LINE WITH 9 FOOT GAP)
- (C) WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- (D) 24 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- (E) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (F) 12 INCH SOLID WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
- (G) 5 INCH BROKEN WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT GAP)

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: \_\_\_\_\_

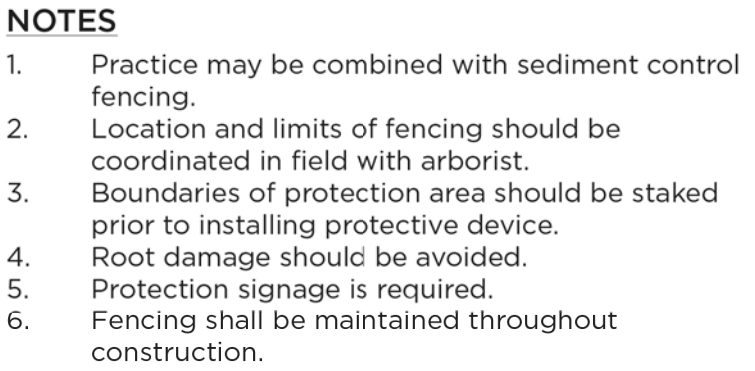
**WRA**  
**Whitman, Requardt & Associates, LLP**  
801 South Caroline Street, Baltimore, Maryland 21231

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				SIGNING AND PAVEMENT MARKING PLAN	
RECOMMENDED FOR APPROVAL				CAPITAL CRESCENT TRAIL PHASE 1 BETHESDA, MARYLAND	
Chief, Transportation Planning and Design Section				SCALE : 1" = 20'	
APPROVED				Project No. : 501316	
Chief, Division of Transportation Engineering				SHEET 17 of 31	
Designed by: WRA				MAY 2021	
Drawn by: WRA					
Checked by: XXX					
NO.	REVISION	DATE	BY		



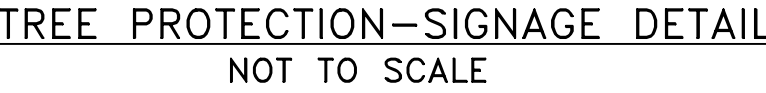


TREE ROOT PRUNING DETAIL  
NOT TO SCALE



Montgomery County Planning Department ▪  M-NCPPC  
MontgomeryPlanning.org

TREE PROTECTION FENCE DETAIL  
NOT TO SCALE



The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. FCP-SC201600, including financial bonding forest planting, maintenance, and all other applicable agreements.

Signature: \_\_\_\_\_

4. Before the start of any required reforestation and afforestation planting.
5. After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.
6. At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond.

PROFESSIONAL CERTIFICATION.  
I HEREBY CERTIFY THAT THESE DOCUMENTS  
WERE PREPARED OR APPROVED BY ME, AND  
THAT I AM A DULY LICENSED PROFESSIONAL  
LANDSCAPE ARCHITECT UNDER THE LAWS OF  
THE STATE OF MARYLAND, LICENSE NO. 935  
EXPIRATION DATE: 03/22/2022

**MAHAN RYKIEL**  
ASSOCIATES INC.  
Whitehall Mill 3300 Clipper Mill Road  
Suite 200 Baltimore, MD 21211 410.235.6001

[illegible]

Chief, Division of Transportation Engineering \_\_\_\_\_ Date \_\_\_\_\_

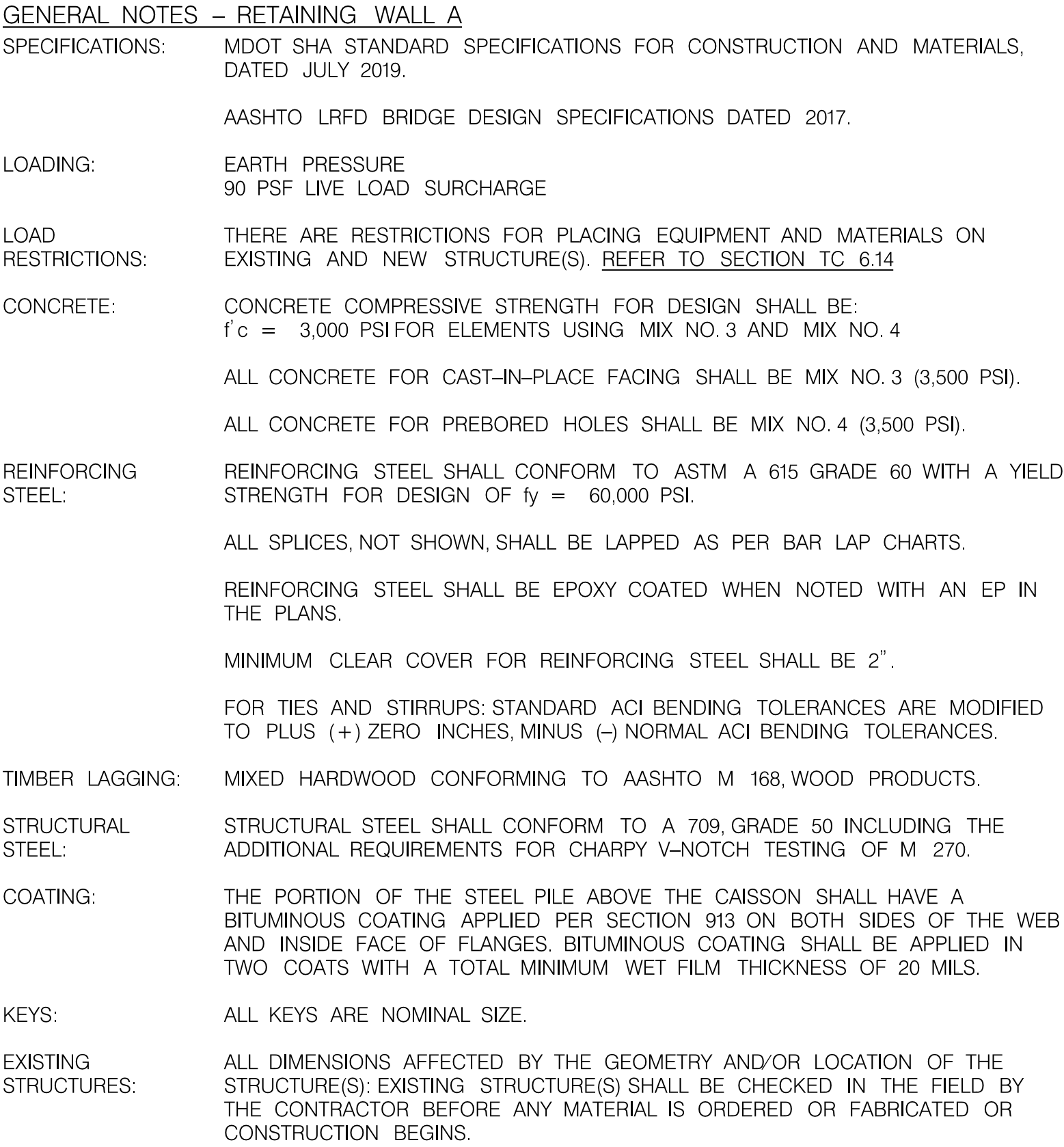
Designed by: JTT Drawn by: MAB Checked by: JKS

CAPITAL CRESCENT TRAIL  
UNDER MD 355  
BETHESDA, MARYLAND

SCALE : 1" = 20' MAY 2021

---

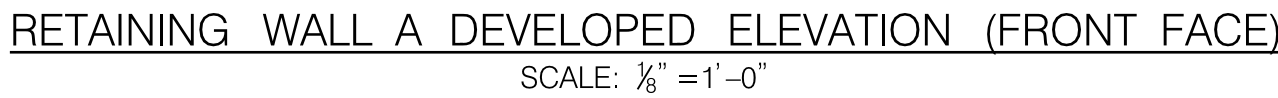
Project No. : 501316 SHEET 19 of 31



RETAINING WALL A PILE SCHEDULE					
PILE NO.	PILE SECTION	PREBORED HOLE DIA.	MINIMUM TIP ELEV.	COORDINATES	
				NORTHING	EASTING
1A	HP12x53	2' -6"	329.25	479224.9401	1286150.3225
2A	HP12x53	2' -6"	329.25	479232.9139	1286149.6754
3A	HP12x53	2' -6"	329.25	479240.8876	1286149.0284
4A	HP12x53	2' -6"	328.25	479248.8614	1286148.3814
5A	HP12x53	2' -6"	328.25	479256.8352	1286147.7343
6A	HP12x53	2' -6"	328.25	479264.8090	1286147.0873
7A	HP12x53	2' -6"	325.25	479272.7902	1286147.6360
8A	HP12x53	2' -6"	325.25	479280.5548	1286149.5622
9A	HP12x53	2' -6"	325.25	479287.7493	1286153.0607
10A	HP14x89	2' -6"	321.25	479293.8837	1286158.1958
11A	HP14x89	2' -6"	321.25	479298.5935	1286164.6625
12A	HP14x89	2' -6"	321.25	479302.1089	1286171.8487
13A	W14x109	2' -6"	318.75	479305.6244	1286179.0349
14A	W14x109	2' -6"	318.75	479309.1398	1286186.2212
15A	W14x109	2' -6"	318.75	479313.8496	1286192.6878
16A	HP12x53	2' -6"	322.25	479315.8737	1286195.6466
17A	HP12x53	2' -6"	324.25	479319.9949	1286201.3049
18A	HP12x53	2' -6"	324.25	479324.1160	1286206.9631

NOTES

1. ACCESS TO THE AIR RIGHTS BUILDING USING THE PEDESTRIAN SIDEWALK AND LOADING DOCK SHALL BE MAINTAINED AT ALL TIMES.
2. STATION AND OFFSETS TAKEN FROM R CONSTRUCTION PHASE 1 CCT SURFACE TRAIL.
3. JOINT SHALL BE 1" CLOSED CELL NEOPRENE IN CONFORMANCE WITH SECTION 911.10.
4. FOR RETAINING WALL A MISCELLANEOUS DETAILS, SEE DRAWINGS RW-02 AND RW-03.
5. FOR PHASE 1 RETAINING WALL B, SEE DRAWINGS RW-04 AND RW-05.
6. FOR FENCE DETAILS, SEE DRAWING RW-06.



LEGEND:

Ⓒ = CONTRACTION JOINT

Ⓔ = EXPANSION JOINT

NOTE: FENCE ON TOP OF RETAINING  
WALL NOT SHOWN FOR CLARITY.

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

[illegible]

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

# RETAINING WALL A PLAN AND ELEVATION

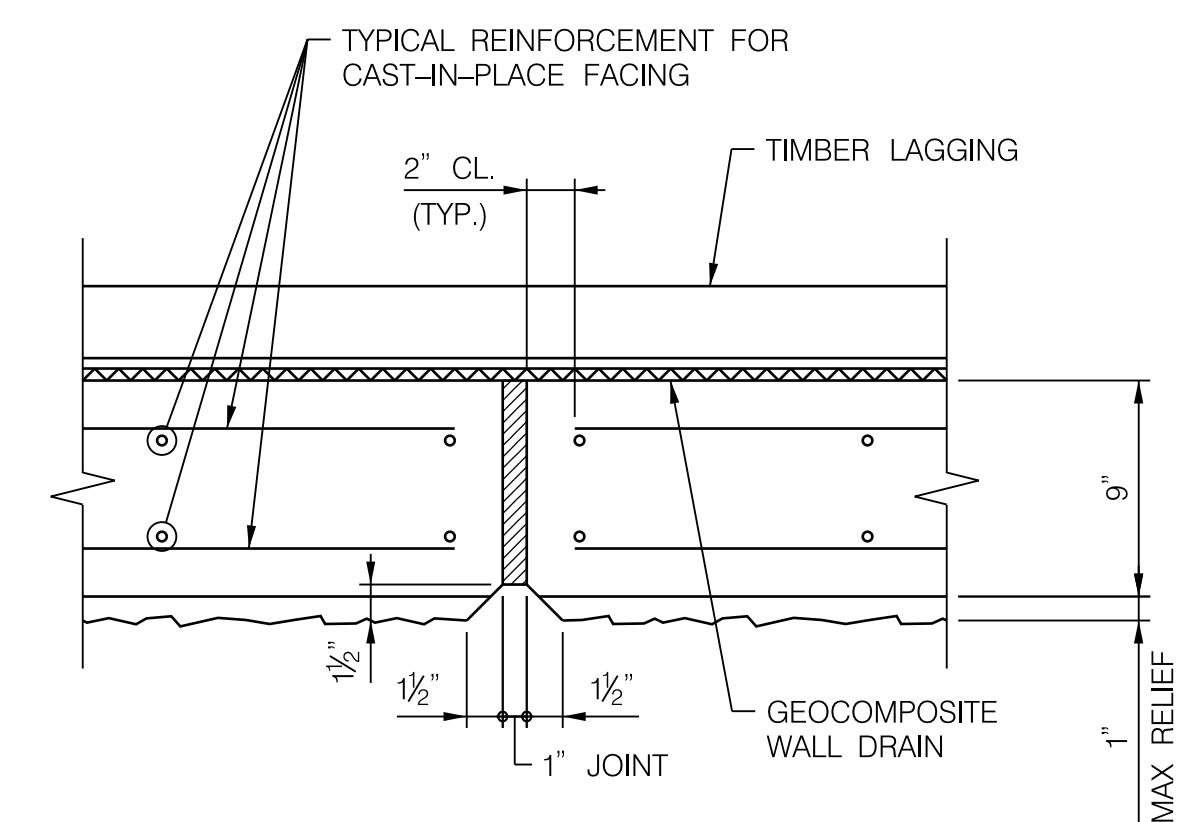
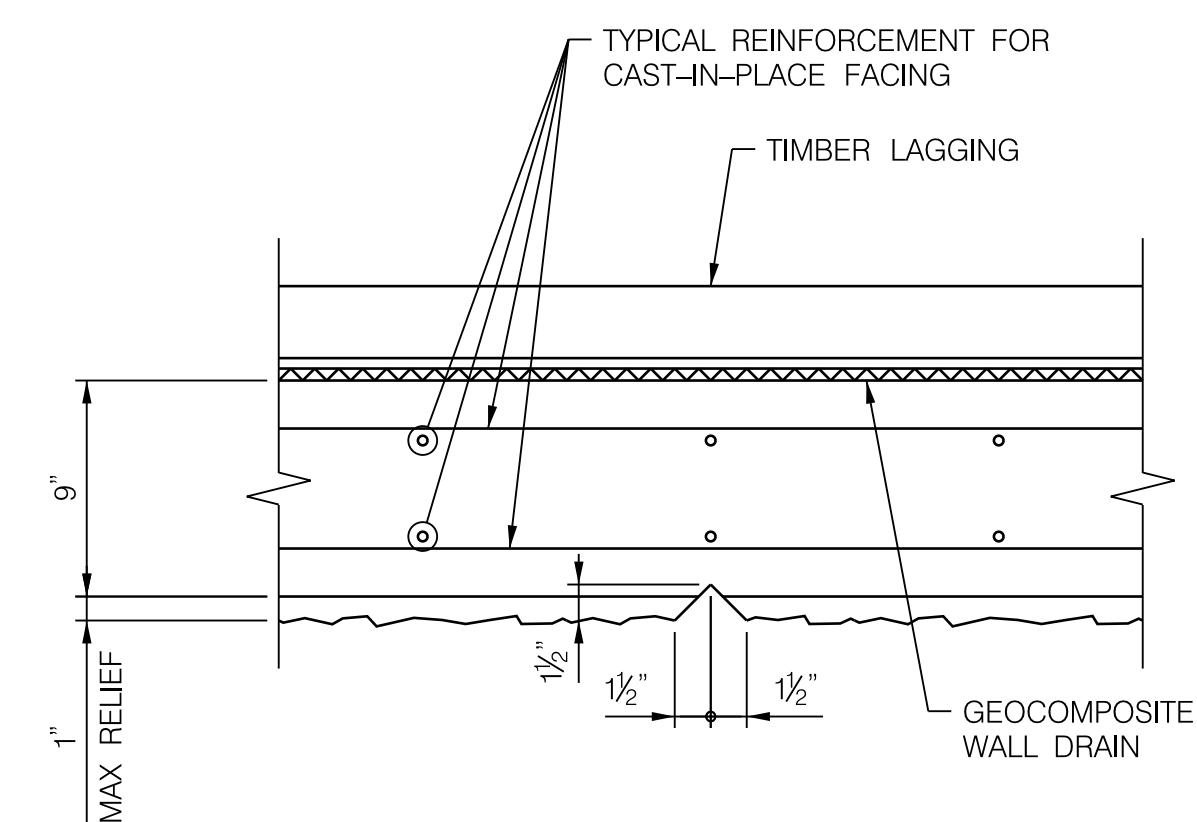
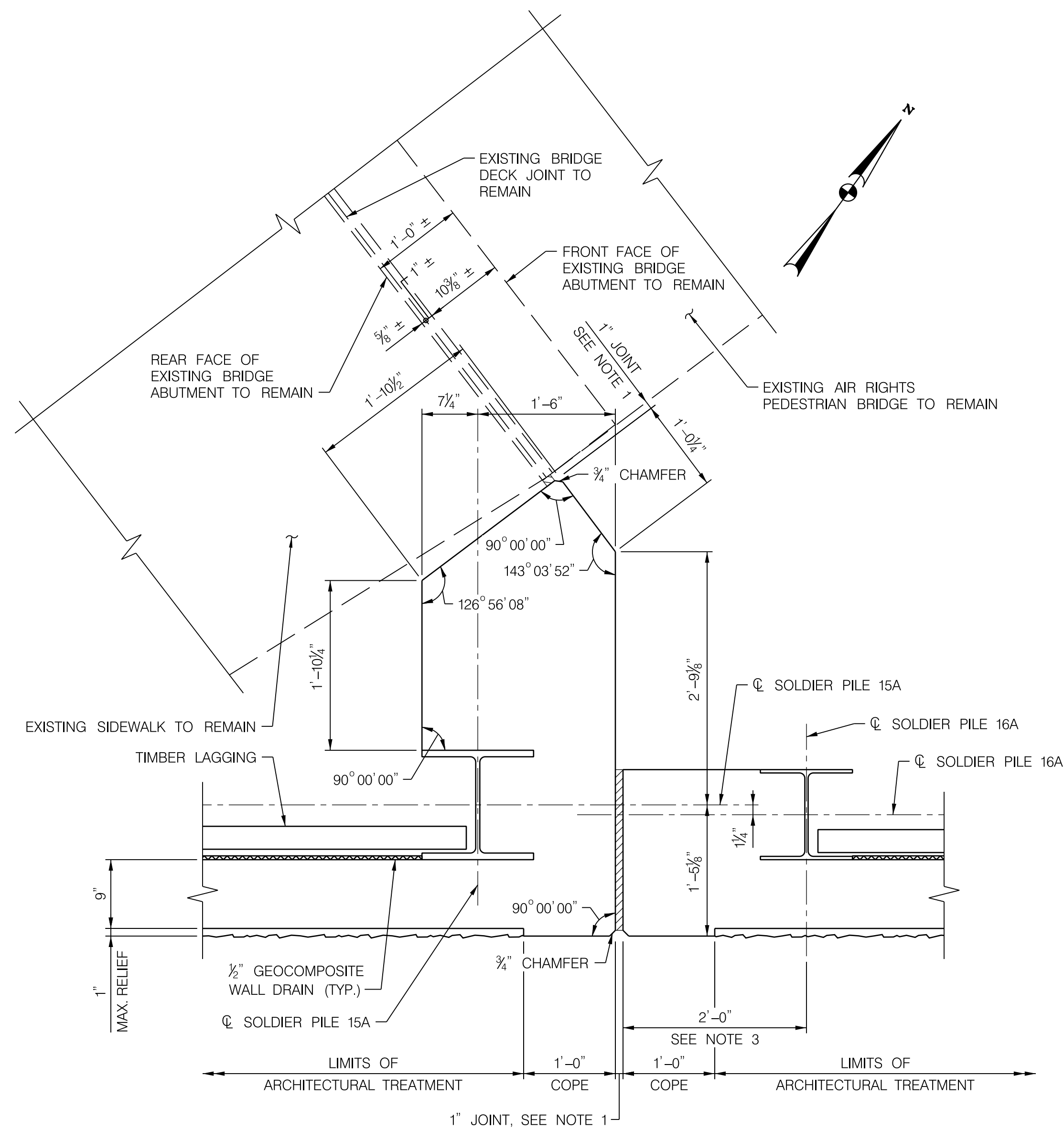
## CAPITAL CRESCENT TRAIL PHASE 1 BETHESDA, MARYLAND

---

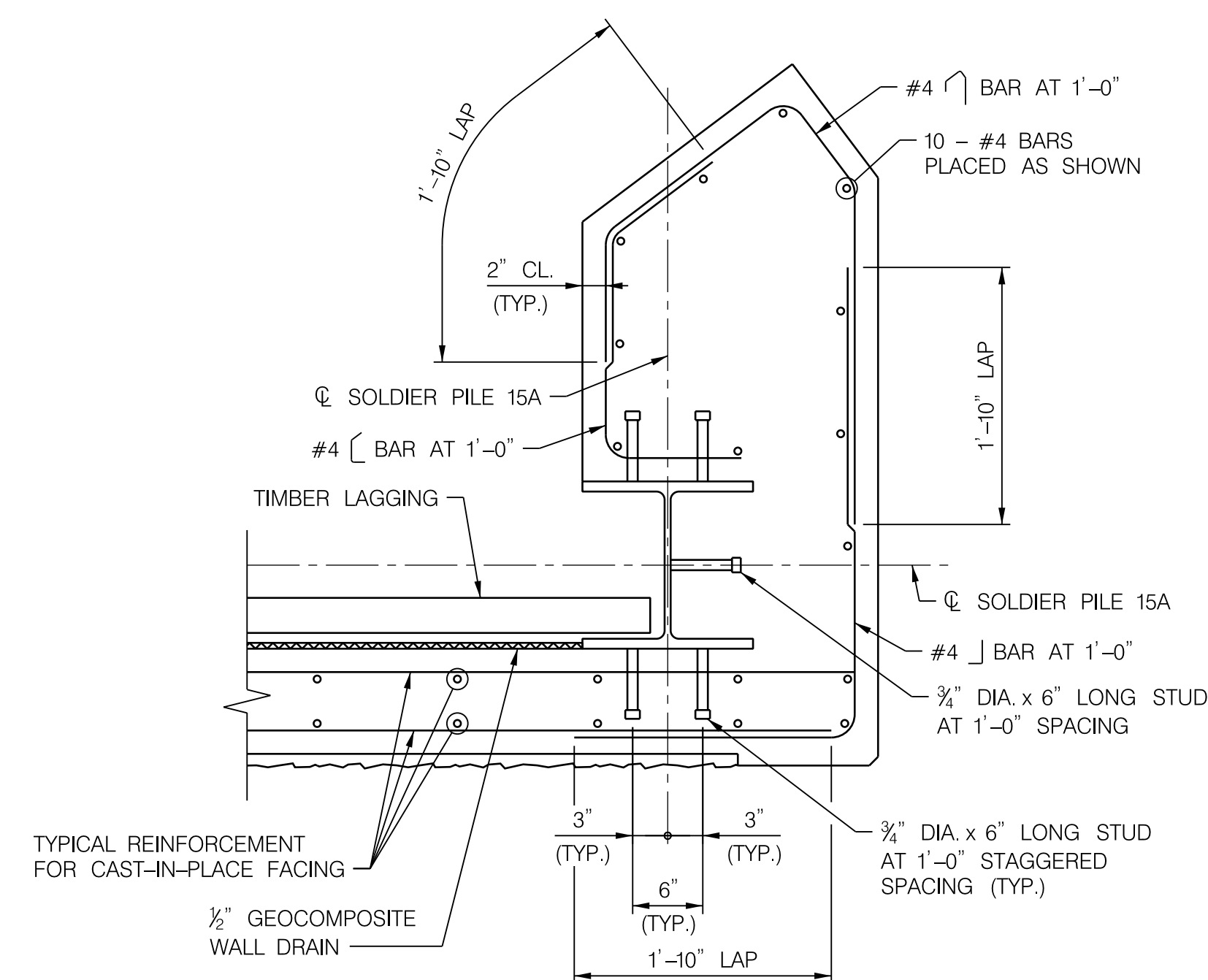
SCALE : 1/8" = 1'-0" MAY 2021

Project No. : 501316 SHEET 20 of 31





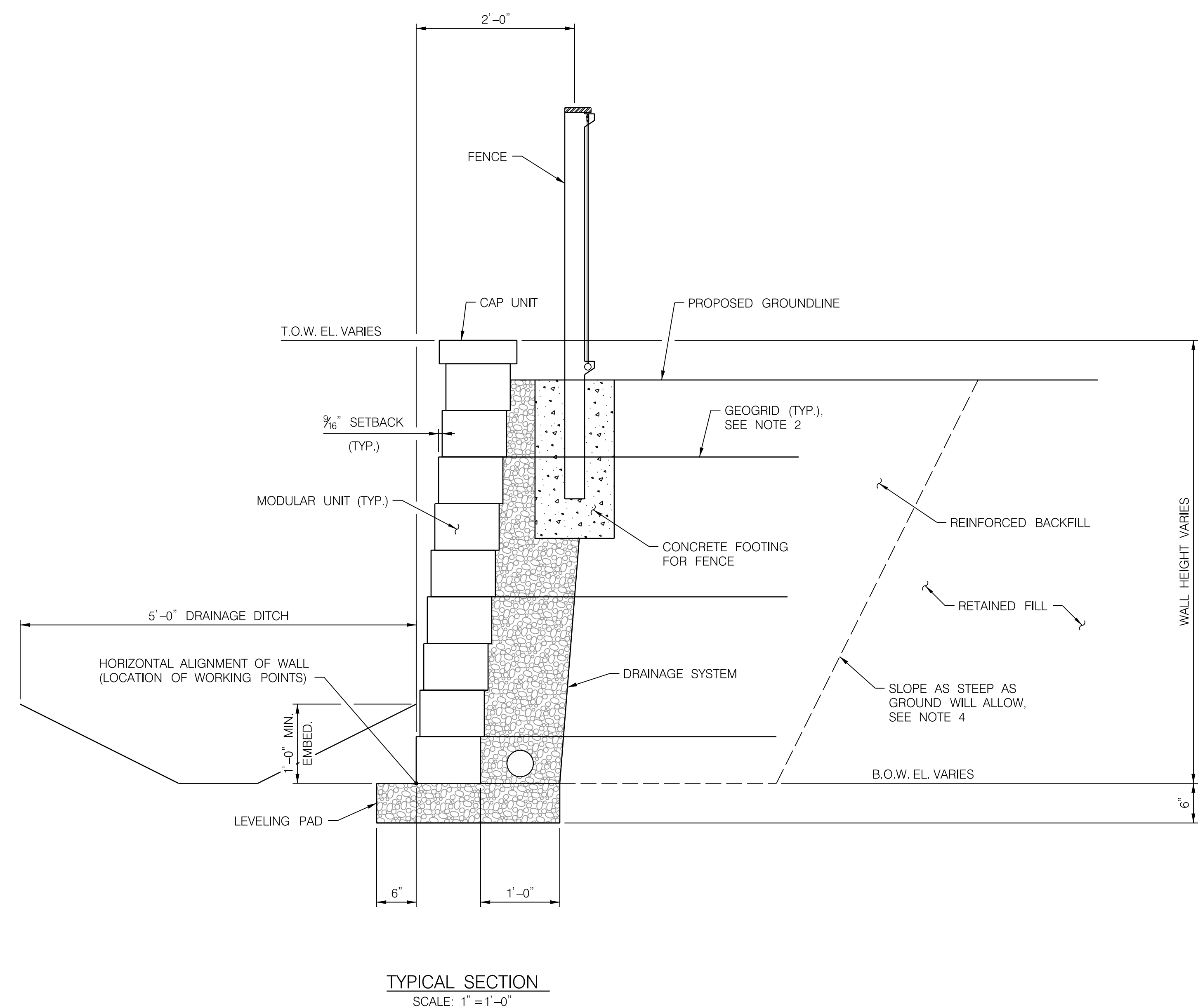
TYPICAL CAST-IN-PLACE FACING JOINT DETAILS  
SCALE: 1½" = 1'-0"



## NOTES

1. JOINT SHALL BE 1" CLOSED CELL NEOPRENE IN CONFORMANCE WITH SECTION 911.10.
2. FOR LOCATION OF DETAIL A, SEE DRAWING RW-01.
3. FOR DETAILS AT SOLDIER PILE 16A, SEE TYPICAL RETAINING WALL END DETAIL ON DRAWING RW-02.





N:\31951-018\CADD\Bridge\Phase 1\pBR-RW05\_31951018\_Phase 1.dgn  
5/14/2021 - 10:35 AM






LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	2'-5"	3'-1"	2'-5"	2'-10"	2'-5"	2'-10"	2'-5"	2'-10"	
#5	3'-1"	4'-0"	3'-0"	3'-10"	3'-0"	3'-7"	3'-0"	3'-7"	
#6	4'-5"	5'-9"	3'-7"	4'-8"	3'-7"	4'-8"	3'-7"	4'-8"	
#7	6'-0"	7'-10"	4'-6"	5'-11"	4'-2"	5'-5"	4'-2"	5'-5"	
#8	7'-10"	10'-3"	5'-11"	7'-8"	4'-9"	6'-2"	4'-9"	6'-2"	
#9	10'-0"	13'-0"	7'-6"	9'-9"	6'-0"	7'-10"	5'-10"	7'-8"	
#10	-	-	9'-6"	12'-5"	7'-7"	9'-11"	7'-2"	9'-5"	
#11	-	-	11'-8"	15'-3"	9'-4"	12'-3"	8'-8"	11'-4"	

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-10"	2'-9"	1'-10"	2'-2"	1'-10"	2'-2"	1'-10"	2'-2"	
#5	2'-5"	3'-7"	2'-4"	3'-5"	2'-4"	2'-9"	2'-4"	2'-9"	
#6	3'-5"	5'-1"	2'-9"	4'-1"	2'-9"	4'-1"	2'-9"	4'-1"	
#7	4'-8"	6'-11"	3'-6"	5'-3"	3'-2"	4'-9"	3'-2"	4'-9"	
#8	6'-11"	9'-1"	4'-7"	6'-10"	3'-8"	5'-5"	3'-8"	5'-5"	
#9	7'-8"	11'-6"	5'-9"	8'-8"	4'-8"	6'-11"	4'-6"	6'-9"	
#10	-	-	7'-4"	10'-11"	5'-10"	8'-9"	5'-7"	8'-4"	
#11	-	-	9'-0"	13'-6"	7'-2"	10'-9"	6'-8"	10'-0"	

Location Category B - All bars not in Location Category A.

 = Non-epoxy coated  = Epoxy coated

#### Notes

- When bar lap is not specified on the Plans, the above dimensions shall be used.
- These bar laps do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
- These bar laps only apply where the General Notes indicate Reinforcing Steel Design,  $f_y = 60$  ksi, and Concrete Design,  $f'_c = 3000$  psi.
- These bar laps assume cover of 2". Greater lap lengths will be required for cover less than 2".
- These bar laps are Class B splices based on the development length in Det. No. REBAR-DL-10, Class B splices are 1.3 times the development length.
- Class A splices may be used when the area of reinforcement provided is at least twice that required by analysis over the entire length of the lap splice and (b) one-half or less of the total reinforcement is spliced within the required lap splice length. Class A splices are 1.0 times the development length.

APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
DATE: 03/21/2007	DATE: 03/21/2007
VERSION	VERSION
I, O	I, O

BAR LAP DIMENSIONS FOR  
GRADE 60 REINFORCING STEEL  
IN MIX NO.3 (3500 P.S.I.) CONCRETE

DETAIL NO. REBAR-DL-101

SHEET 1 OF 1

LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	2'-11"	2'-8"	2'-11"	2'-6"	2'-11"	2'-6"	2'-11"	2'-6"	
#5	2'-8"	3'-6"	2'-7"	3'-4"	2'-7"	3'-1"	2'-7"	3'-1"	
#6	3'-10"	5'-0"	3'-11"	4'-0"	3'-11"	4'-0"	3'-11"	4'-0"	
#7	5'-3"	6'-10"	3'-11"	5'-11"	3'-7"	4'-8"	3'-7"	4'-8"	
#8	6'-10"	8'-11"	5'-11"	6'-8"	4'-11"	5'-4"	4'-11"	5'-4"	
#9	8'-8"	11'-3"	6'-6"	8'-6"	5'-2"	6'-9"	5'-11"	6'-7"	
#10	-	-	8'-3"	10'-9"	6'-7"	8'-7"	6'-3"	8'-2"	
#11	-	-	10'-1"	13'-3"	8'-1"	10'-7"	7'-6"	9'-9"	

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-7"	2'-5"	1'-7"	1'-11"	1'-7"	1'-11"	1'-7"	1'-11"	
#5	2'-11"	3'-11"	2'-0"	3'-0"	2'-5"	2'-0"	2'-5"		
#6	3'-0"	4'-5"	2'-5"	3'-7"	2'-5"	3'-7"	2'-5"	3'-7"	
#7	4'-0"	6'-0"	3'-0"	4'-6"	2'-9"	4'-2"	2'-9"	4'-2"	
#8	5'-3"	7'-10"	3'-11"	5'-11"	3'-2"	4'-9"	3'-2"	4'-9"	
#9	6'-8"	10'-0"	5'-0"	7'-6"	4'-0"	6'-0"	3'-11"	5'-10"	
#10	-	-	6'-4"	9'-6"	5'-11"	7'-7"	4'-10"	7'-2"	
#11	-	-	7'-10"	11'-8"	6'-3"	9'-4"	5'-9"	8'-8"	

Location Category B - All bars not in Location Category A.

 = Non-epoxy coated  = Epoxy coated

#### Notes

- When bar lap is not specified on the Plans, the above dimensions shall be used.
- These bar laps do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
- These bar laps only apply where the General Notes indicate Reinforcing Steel Design,  $f_y = 60$  ksi, and Concrete Design,  $f'_c = 4000$  psi.
- These bar laps assume cover of 2". Greater lap lengths will be required for cover less than 2".
- These bar laps are Class B splices based on the development length in Det. No. REBAR-DL-103, Class B splices are 1.3 times the development length.
- Class A splices may be used when the area of reinforcement provided is at least twice that required by analysis over the entire length of the lap splice and (b) one-half or less of the total reinforcement is spliced within the required lap splice length. Class A splices are 1.0 times the development length.

APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
DATE: 03/21/2007	DATE: 03/21/2007
VERSION	VERSION
I, O	I, O

BAR LAP DIMENSIONS FOR  
GRADE 60 REINFORCING STEEL  
IN MIX NO.6 (4500 P.S.I.) CONCRETE

DETAIL NO. REBAR-DL-103

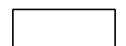

SHEET 1 OF 1

LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-10"	2'-5"	1'-10"	2'-2"	1'-10"	2'-2"	1'-10"	2'-2"	
#5	2'-5"	3'-11"	2'-4"	3'-0"	2'-4"	2'-9"	2'-4"	2'-9"	
#6	3'-5"	4'-5"	2'-9"	3'-7"	2'-9"	3'-7"	2'-9"	3'-7"	
#7	4'-8"	6'-11"	3'-6"	4'-7"	3'-2"	4'-2"	3'-2"	4'-2"	
#8	6'-11"	7'-11"	4'-7"	5'-11"	3'-8"	4'-9"	3'-8"	4'-9"	
#9	7'-8"	10'-0"	5'-9"	7'-6"	4'-8"	6'-0"	4'-6"	5'-11"	
#10	-	-	7'-4"	9'-6"	5'-10"	7'-8"	5'-7"	7'-3"	
#11	-	-	9'-0"	11'-9"	7'-2"	9'-5"	6'-8"	8'-8"	

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-5"	2'-11"	1'-5"	1'-8"	1'-5"	1'-8"	1'-5"	1'-8"	
#5	1'-10"	2'-9"	1'-9"	2'-8"	1'-9"	2'-11"	1'-9"	2'-11"	
#6	2'-8"	3'-11"	2'-11"	3'-2"	2'-11"	3'-2"	2'-11"	3'-2"	
#7	3'-7"	5'-4"	2'-11"	4'-0"	2'-6"	3'-8"	2'-6"	3'-8"	
#8	4'-8"	7'-0"	3'-6"	5'-3"	2'-10"	4'-2"	2'-10"	4'-2"	
#9	5'-11"	8'-10"	4'-5"	6'-8"	3'-7"	5'-4"	3'-6"	5'-2"	
#10	-	-	5'-8"	8'-5"	4'-6"	6'-9"	4'-3"	6'-5"	
#11	-	-	6'-11"	10'-4"	5'-7"	8'-4"	5'-2"	7'-8"	

Location Category B - All bars not in Location Category A.

 = Non-epoxy coated  = Epoxy coated

#### Notes

- When development length is not specified on the Plans, the above dimensions shall be used.
- These development lengths do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
- These development lengths only apply where the General Notes indicate Reinforcing Steel Design,  $f_y = 60$  ksi, and Concrete Design,  $f'_c = 3000$  psi.
- These development lengths assume cover of 2". Greater development lengths will be required for cover less than 2".
- The Excess Reinforcement Factor was assumed to be 1.0 when calculating these dimensions.
- $A_{tr}$  was assumed to be 0 when calculating the Reinforcement Confinement Factor.
- If depth of member does not allow bar development length indicated in Location Categories A and B, then hooks shall be added to all bars not conforming, as per D, E, and F per Det. No. REBAR-DL-201.

APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
DATE: 03/21/2007	DATE: 03/21/2007
VERSION	VERSION
I, O	I, O

DEVELOPMENT LENGTH DIMENSIONS FOR  
GRADE 60 REINFORCING STEEL  
IN MIX NO.3 (3500 P.S.I.) CONCRETE

DETAIL NO. REBAR-DL-101

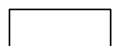
SHEET 1 OF 1

LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-7"	2'-11"	1'-7"	1'-11"	1'-7"	1'-11"	1'-7"	1'-11"	
#5	2'-11"	2'-8"	2'-0"	2'-7"	2'-0"	2'-5"	2'-0"	2'-5"	
#6	3'-0"	3'-10"	2'-5"	3'-11"	2'-5"	3'-11"	2'-5"	3'-11"	
#7	4'-0"	5'-3"	3'-0"	3'-11"	2'-9"	3'-7"	2'-9"	3'-7"	
#8	5'-3"	6'-10"	3'-11"	5'-2"	3'-2"	4'-11"	3'-2"	4'-11"	
#9	6'-8"	8'-8"	5'-0"	6'-6"	4'-0"	5'-3"	3'-11"	5'-4"	
#10	-	-	6'-4"	8'-3"	5'-11"	6'-7"	4'-10"	6'-3"	
#11	-	-	7'-10"	10'-2"	6'-3"	8'-2"	5'-9"	7'-6"	

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-3"	1'-10"	1'-3"	1'-6"	1'-3"	1'-6"	1'-3"	1'-6"	
#5	1'-7"	2'-5"	1'-6"	2'-3"	1'-6"	1'-10"	1'-6"	1'-10"	
#6	2'-3"	3'-5"	1'-10"	2'-9"	1'-10"	2'-9"	1'-10"	2'-9"	
#7	3'-1"	3'-6"	2'-4"	3'-6"	2'-2"	3'-2"	2'-2"	3'-2"	
#8	4'-0"	6'-0"	3'-0"	4'-6"	2'-5"	3'-8"	2'-5"	3'-8"	
#9	5'-2"	7'-8"	3'-10"	5'-4"	3'-11"	4'-7"	3'-0"	4'-6"	
#10	-	-	4'-11"	7'-4"	3'-11"	5'-10"	3'-9"	5'-7"	
#11	-	-	6'-0"	9'-0"	4'-10"	7'-2"	4'-5"	6'-8"	

Location Category B - All bars not in Location Category A.

 = Non-epoxy coated  = Epoxy coated

#### Notes

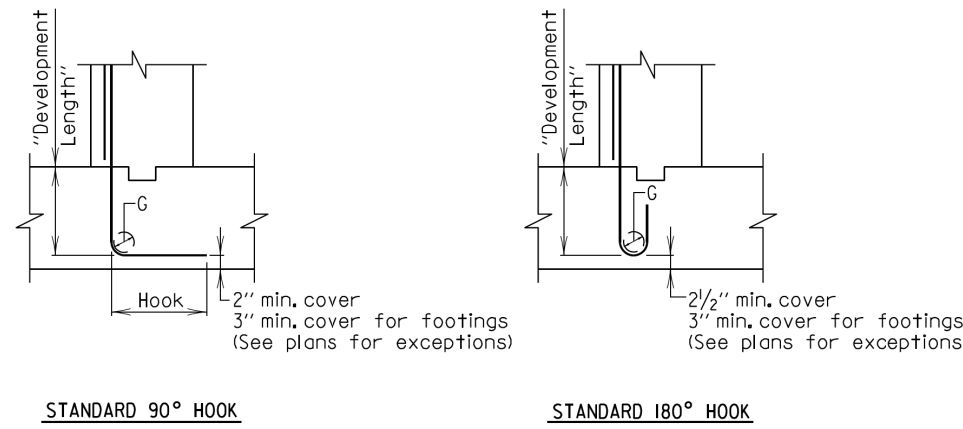
- When development length is not specified on the Plans, the above dimensions shall be used.
- These development lengths do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
- These development lengths only apply where the General Notes indicate Reinforcing Steel Design,  $f_y = 60$  ksi, and Concrete Design,  $f'_c = 4000$  psi.
- These development lengths assume cover of 2". Greater development lengths will be required for cover less than 2".
- The Excess Reinforcement Factor was assumed to be 1.0 when calculating these dimensions.
- $A_{tr}$  was assumed to be 0 when calculating the Reinforcement Confinement Factor.
- If depth of member does not allow bar development length indicated in Location Categories A and B, then hooks shall be added to all bars not conforming, as per D, E, and F per Det. No. REBAR-DL-203.

APPROVAL	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
DATE: 03/21/2007	DATE: 03/21/2007
VERSION	VERSION
I, O	I, O

DEVELOPMENT LENGTH DIMENSIONS FOR  
GRADE 60 REINFORCING STEEL  
IN MIX NO.6 (4500 P.S.I.) CONCRETE

DETAIL NO. REBAR-DL-103

SHEET 1 OF 1



BAR SIZE	LOCATION CATEGORY			
	D	E	F	
#4	8"	11"	9"	
#5	10"	1'-2"	11"	
#6	1'-0"	1'-5"	1'-2"	
#7	1'-2"	1'-8"	1'-4"	
#8	1'-4"	1'-10"	1'-6"	
#9	1'-6"	2'-11"	1'-8"	
#10	1'-8"	2'-4"	1'-11"	
#11	1'-10"	2'-7"	2'-1"	

Notes:  
For Hook Dimensions and Bends,  
see Detail No. REBAR-BB-102.

#### \* LOCATION CATEGORY:

- D- All bars terminating with a standard 180° hook with side cover (normal to plane of hook) not less than 2d/4 and for 90° hook, cover on bar extension beyond hook not less than 2".  
E- All bars not in Category D.  
F- All bars with hook enclosed vertically or horizontally within ties or stirrup-ties spaced along the full development length not greater than 3d where d is the diameter of the hooked bar.

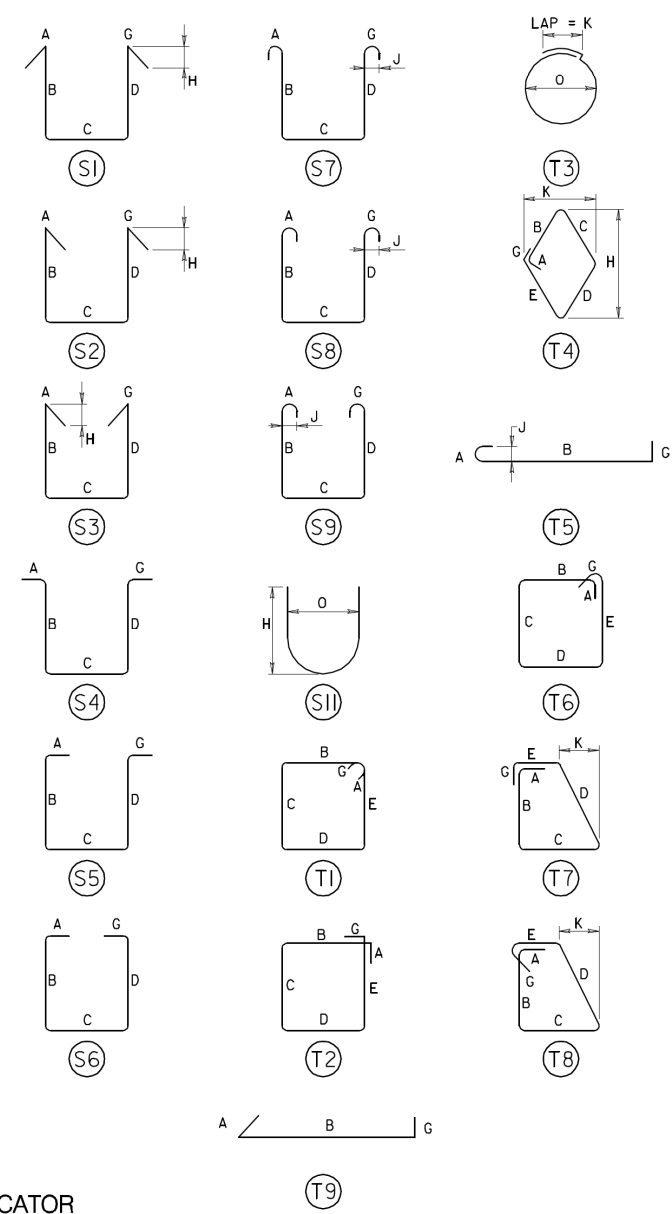
#### Notes

- When development length is not specified on the Plans, the above dimensions shall be used.
- These development lengths do not apply when bar is in lightweight concrete or any other strength of concrete.
- These development lengths only apply where the General Notes indicate Reinforcing Steel Design,  $f_y = 60$  ksi, and Concrete Design,  $f'_c = 3000$  psi.
- If depth of member does not allow bar development length indicated in Categories A, B, and C, Detail No. REBAR-DL-101; then hook shall be added to all bars not conforming, as per D, E & F.

APPROVAL</
------------

## ACI TYPICAL BAR BENDS

### TIES AND STIRRUPS



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

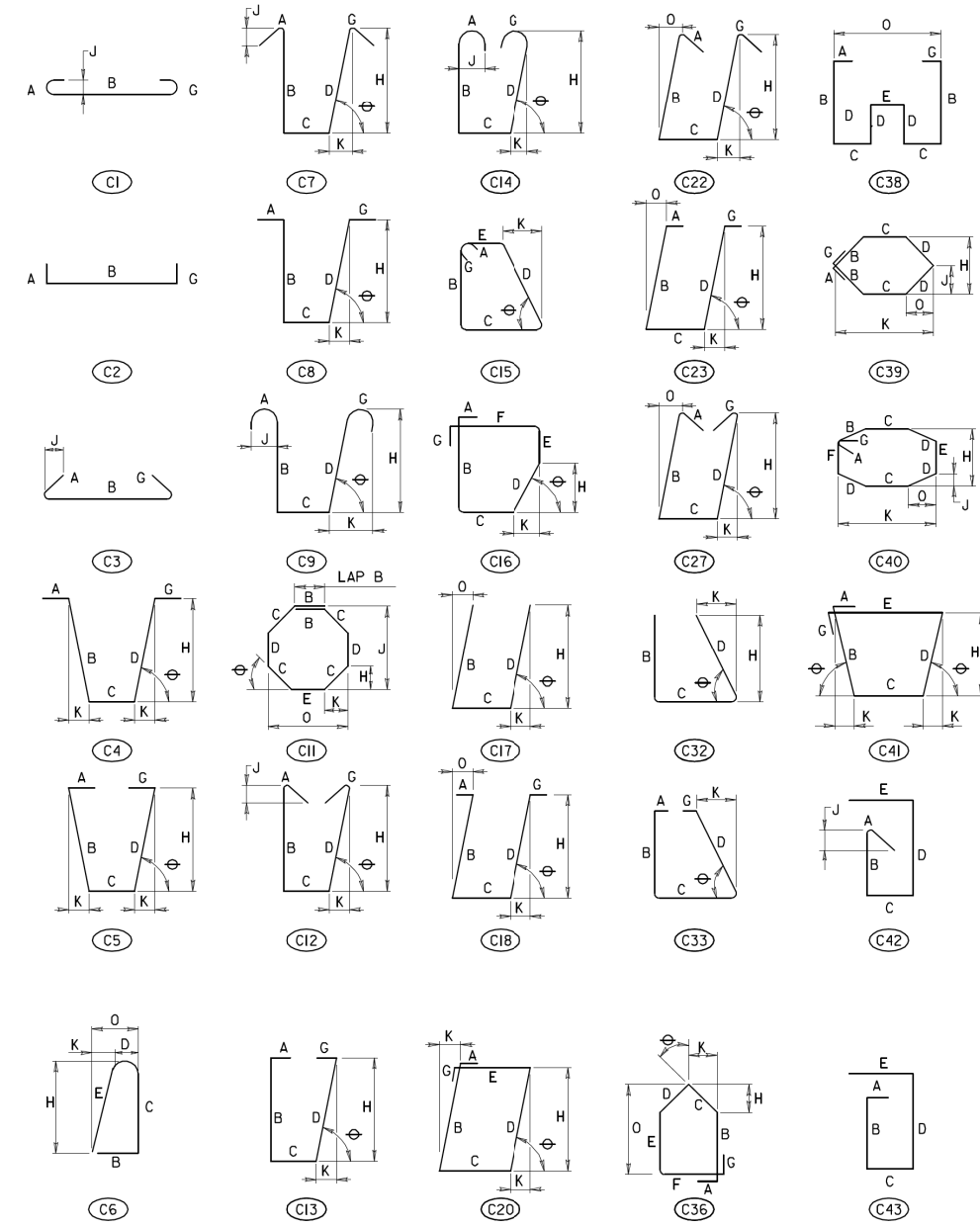
BAR BEND TYPES  
ACI - TIES A

DETAIL NO. REBAR-BB-101

SHEET 1 OF 8

## SHA TYPICAL BAR BENDS

### TIES AND STIRRUPS



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

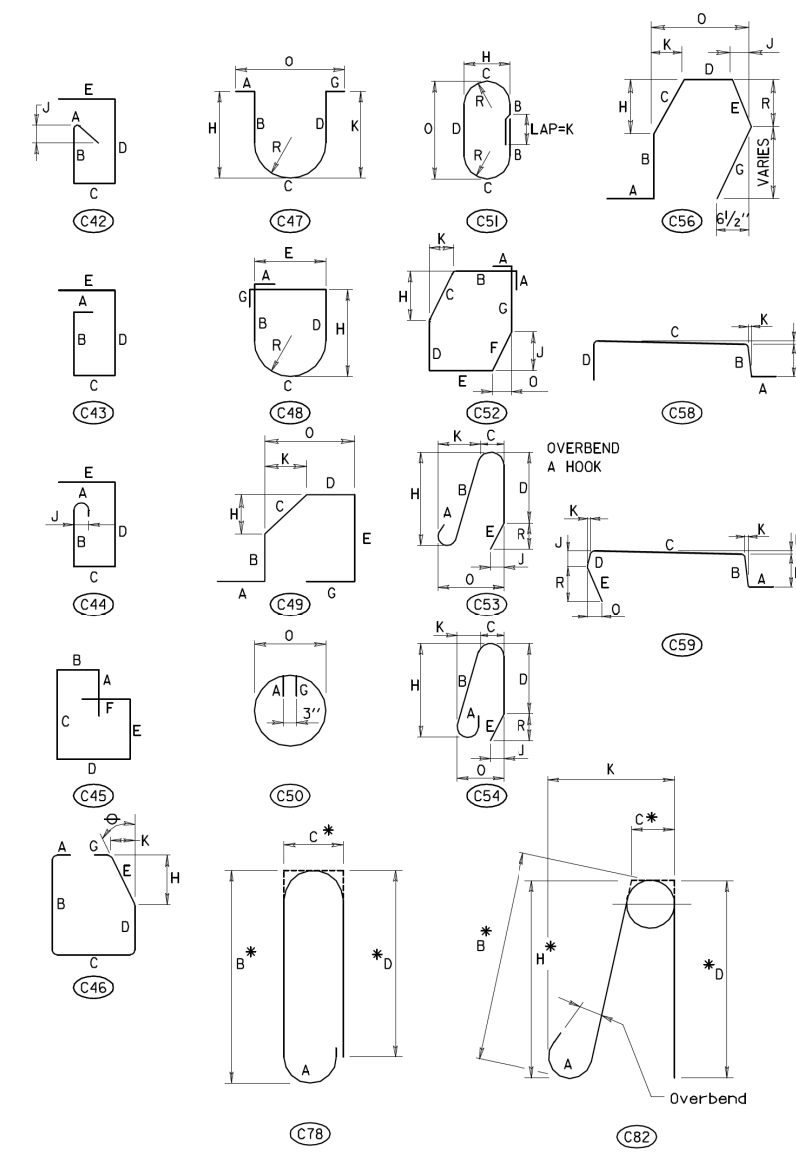
BAR BEND TYPES  
SHA - TIES AND STIRRUPS

DETAIL NO. REBAR-BB-101

SHEET 4 OF 8

## SHA TYPICAL BAR BENDS

### TIES AND STIRRUPS



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

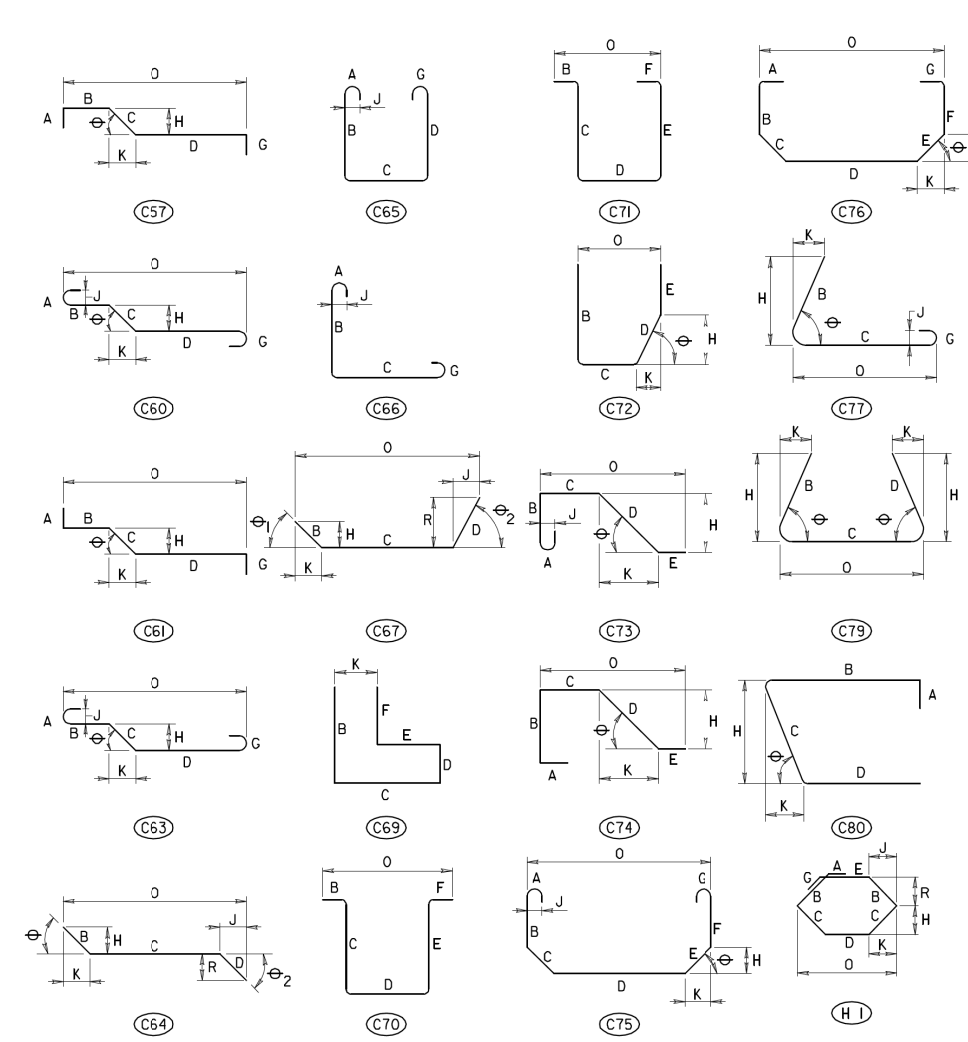
BAR BEND TYPES  
SHA - TIES AND STIRRUPS

DETAIL NO. REBAR-BB-101

SHEET 5 OF 8

## SHA TYPICAL BAR BENDS

### STANDARD PIN BENDING



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

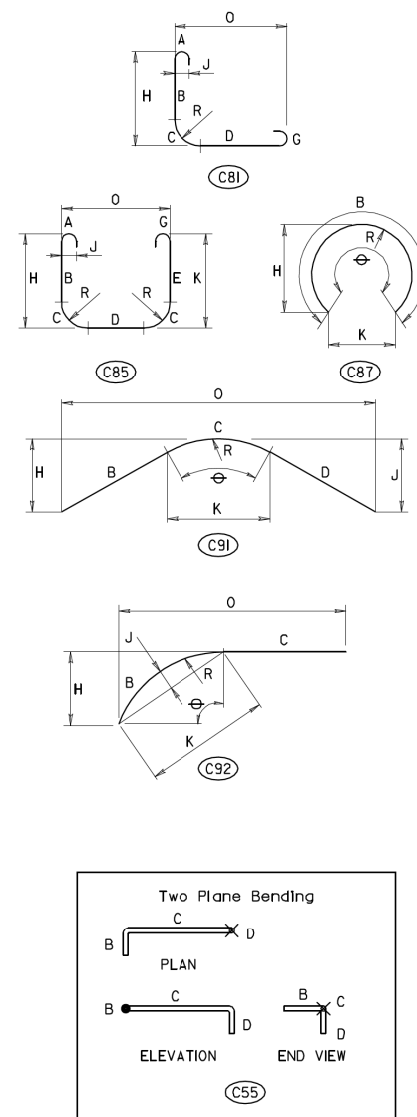
BAR BEND TYPES  
SHA - STANDARD PIN BENDING

DETAIL NO. REBAR-BB-101

SHEET 6 OF 8

## SHA TYPICAL BAR BENDS

### RADIUS BENDING



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

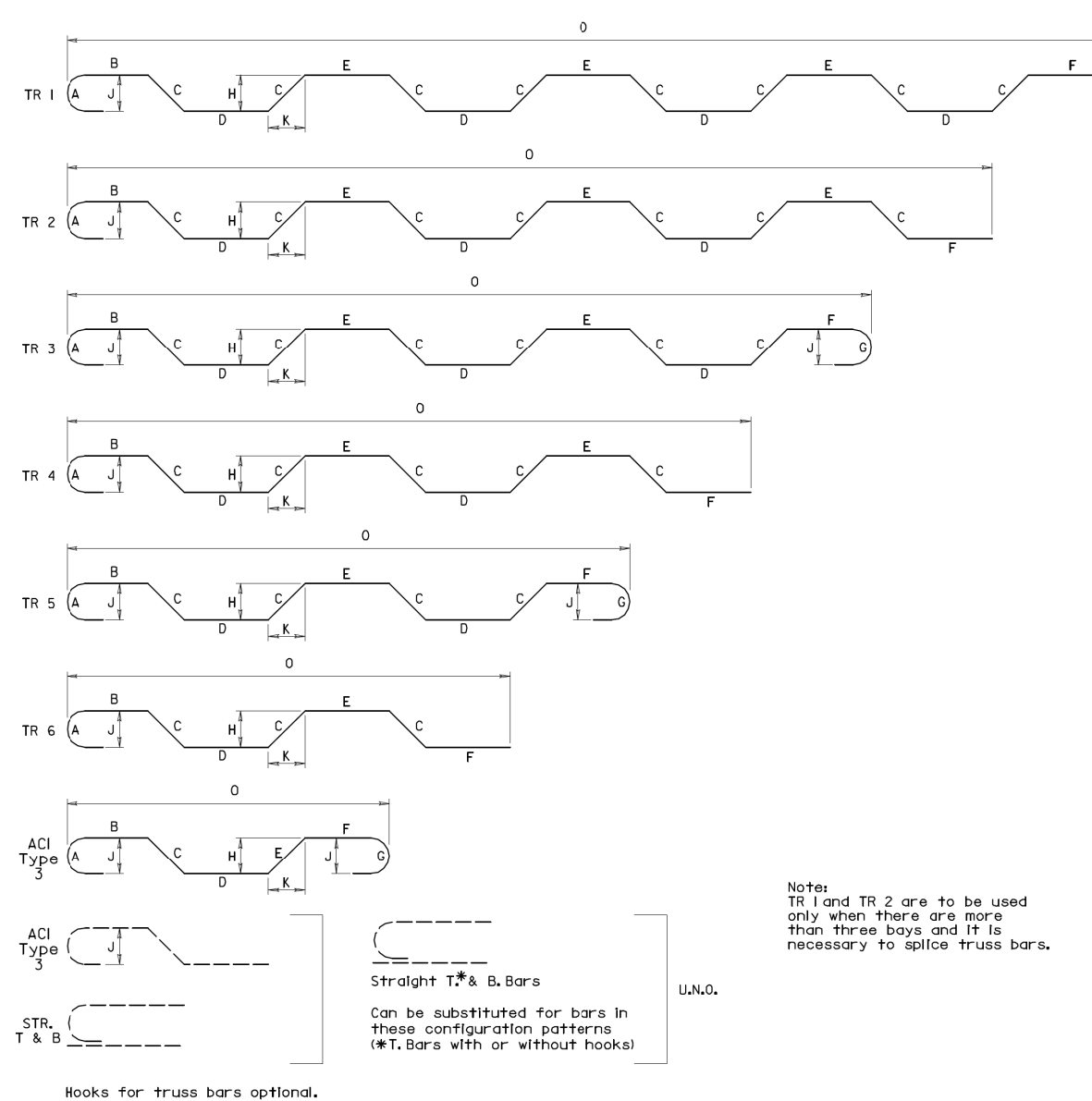
BAR BEND TYPES  
SHA - RADIUS BENDING

DETAIL NO. REBAR-BB-101

SHEET 7 OF 8

## SHA TYPICAL BAR BENDS

### TRUSS BAR CONFIGURATIONS



#### NOTE TO FABRICATOR

BENDING TOLERANCE NOTE  
TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (3) NORMAL ACI BENDING TOLERANCES

APPROVAL	DATE: 02/10/1994
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

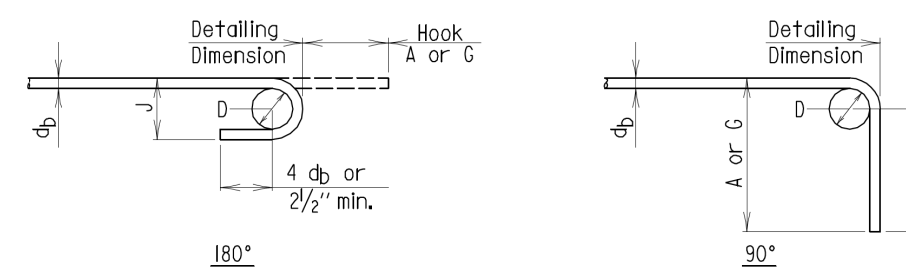
BAR BEND TYPES  
TRUSS BAR CONFIGURATIONS

DETAIL NO. REBAR-BB-101

SHEET 8 OF 8

#### HOOKS TABLE I REFERENCES

- ACI Types I thru 26
- SHA Standard Pin Bending
- SHA Radius Bending



BAR SIZE	Finished bend diameter	180 - deg hook	90 - deg hook
#3	2 1/4	5	3
#4	3	6	4
#5	3 3/4	7	5
#6	4 1/2	8	6
#7	5 1/4	10	7
#8	6	11	8
#9	6 3/4	12	9
#10	7 1/4	13	10
#11	8	14	11
#12	9	15	12
#14	11 1/4	17 1/2	14
#16	13 1/4	20 1/2	16

APPROVAL	DATE: 11/17/1997
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

REINFORCING STEEL HOOK TABLES AND DIAGRAM

DETAIL NO. REBAR-BB-102

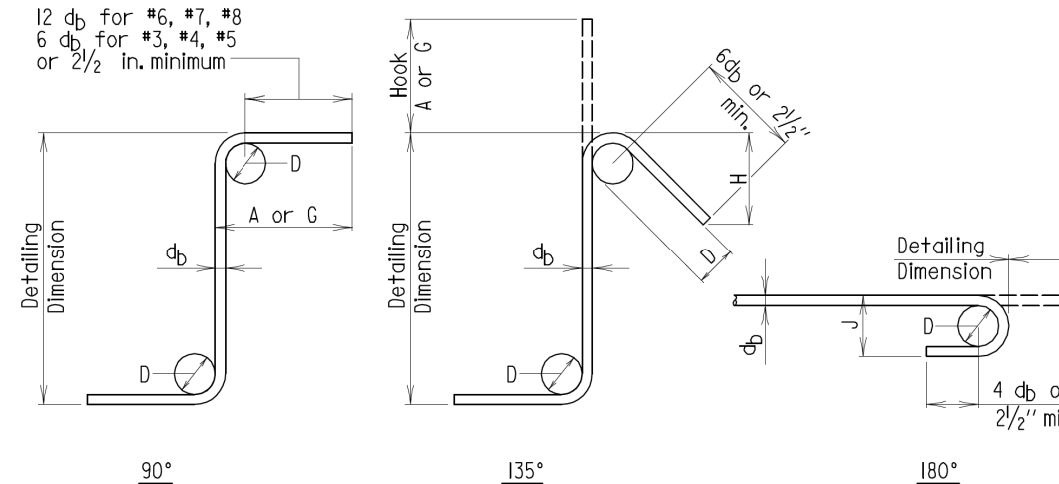
SHEET 1 OF 2

#### HOOKS TABLE II REFERENCES

- ACI Types SI thru S11
- ACI Types SI thru T8
- SHA Ties and Stirrups

(Notes: Tie and stirrup types supplied in sizes #3-#8)

#### STIRRUP AND TIE HOOKS



BAR SIZE	D, in.	90 - deg hook	135 - deg hook
#3	1/2	A or G	A or G
#4	3/4	4 1/2	4 1/2
#5	1	5	5
#6	1 1/4	6	6
#7	1 3/4	7	7
#8	2	8	8

BAR SIZE	D, in.	180 - deg hook
#3	1/2	5
#4	3/4	6
#5	1	7
#6	1 1/4	8
#7	1 3/4	9
#8	2	10

APPROVAL	DATE: 11/17/1997
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES	
VERSION	1.0

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

REINFORCING STEEL HOOK TABLES AND DIAGRAM

DETAIL NO. REBAR-BB-102

SHEET 2 OF 2

RW-09

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
GAITHERSBURG, MARYLAND

#### RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section  
APPROVED

Chief, Division of Transportation Engineering

Designed by: GSC Drawn by: GSC Checked by: AC

STRUCTURAL DETAILS - 3

CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : AS SHOWN

Project No. : 501316

SHEET 28 of 31

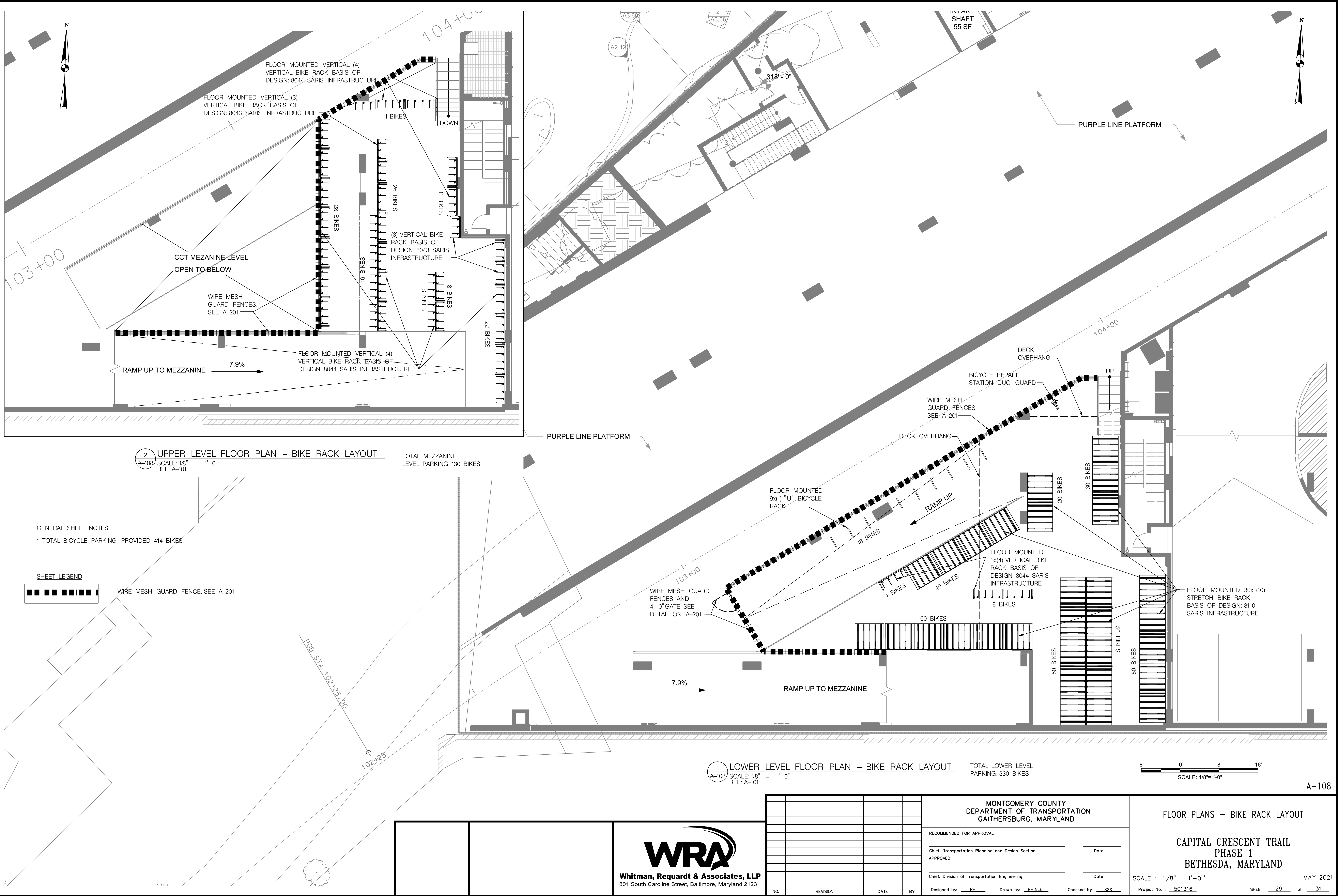
MAY 2021

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: \_\_\_\_\_

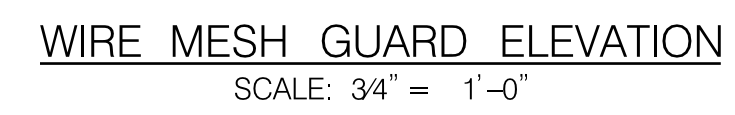


Whitman, Requardt & Associates, LLP  
801 South Caroline Street, Baltimore, Maryland 21231

NO. REVISION DATE BY



N:\31951-018\CADD\Draw-P108\_31951018.dgn  
5/14/2021 10:51 AM



SCALE:  $3/4" = 1'-0"$



CAPITAL CRESCENT TRAIL  
PHASE 1  
BETHESDA, MARYLAND

SCALE : AS SHOWN		MAY 2021	
Project No. : <u>501316</u>		SHEET <u>30</u> of <u>31</u>	

N: \\31951-018\CADD\pAR-V201\_31951018.dgn  
5/14/2021 - 10:53 AM

PROFESSIONAL CERTIFICATION.  
I HEREBY CERTIFY THAT THESE DOCUMENTS  
WERE PREPARED OR APPROVED BY ME, AND  
THAT I AM A DULY LICENSED PROFESSIONAL  
ARCHITECT 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	ELEVATION - BIKE RACK AREA
					RECOMMENDED FOR APPROVAL	CAPITAL CRESCENT TRAIL PHASE I BETHESDA, MARYLAND
					_____ Chief, Transportation Planning and Design Section  APPROVED	
					_____ Date	
					_____ Chief, Division of Transportation Engineering	
					_____ Date	
					SCALE : AS SHOWN	MAY 2021
NO.	REVISION	DATE	BY		Designed by: <u>RH</u> Drawn by: <u>NLE</u> Checked by: <u>XXX</u>	Project No.: <u>501316</u> SHEET <u>30</u> of <u>31</u>

