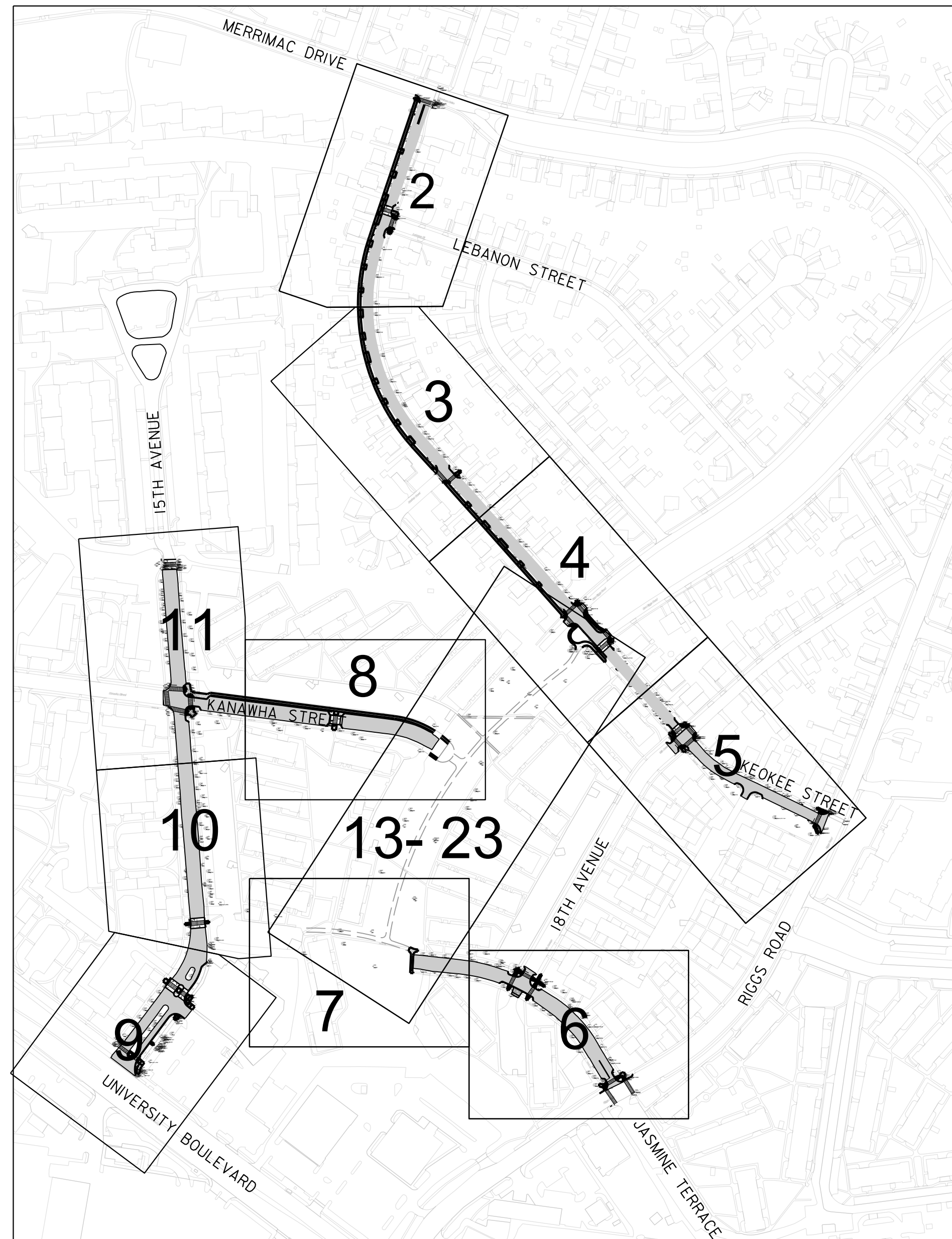


# LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS



**PREPARED FOR:**

THE MARYLAND - NATIONAL CAPITAL PARK AND PLANNING COMMISSION (M-NCPPC)  
 PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT  
 14741 GOVERNOR ODEN BOWIE DRIVE UPPER MARLBORO, MD 20772

PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION (DPW&T)  
 9400 PEPPERCORN PLACESUITE 300 LARGO, MD 20774

THIS PROJECT IS SUPPORTED BY THE MFCOG, NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD AND TRANSPORTATION LAND USE CONNECTIONS (TLC) PROGRAM

**NOTES:**

ALL ROADWAY AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES, PRINCE GEORGE'S COUNTY, MARYLAND, THE CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, MDOT SHA, WITH CURRENT REVISIONS AND THE SPECIAL PROVISIONS.

EXISTING TOPOGRAPHICAL INFORMATION SHOWN IS BASED ON PRINCE GEORGE'S COUNTY GIS VECTOR LAYER DATA AND HAS NOT BEEN SURVEYED.

PRIOR TO STARTING ANY WORK ON THESE PLANS, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE DPW&T INSPECTOR.

PROVIDE SIDEWALK RAMPS AT LOCATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH ADA REQUIREMENTS.

REPAIRS TO UTILITIES OR PRIVATE PROPERTY DAMAGE AS A RESULT OF CONTRACTOR NEGLIGENCE OR METHOD OF OPERATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

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

**PROJECT KEY MAP**  
 NTS

**PREPARED BY:**

KITTELSON AND ASSOCIATES, INC.  
 100 M STREET SE, SUITE 910, WASHINGTON, DC 20003

**IN COLLABORATION WITH**

RHODESIDE & HARWELL, INC. (RHI)  
 510 KING STREET, SUITE 300, ALEXANDRIA, VA 22314

AB CONSULTANTS INC.  
 9450 ANNAPOLIS ROAD, LANHAM, MD 20706

ALL LAND DISTURBED BY THIS PROJECT WHICH IS NOT BUILT UPON OR SURFACED SHALL BE ADEQUATELY STABILIZED WITH SEED AND MULCH, UNLESS OTHERWISE NOTED, TO CONTROL EROSION AND SEDIMENTATION.

THE CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREAS OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING HOMES DURING PERMIT ACTIVITY.

CONTRACTOR SHALL LOCATE HOUSE CONNECTION FOR WATER, GAS, AND SEWER PRIOR TO START OF CONSTRUCTION

SAW CUT WILL NOT BE MEASURED BUT IT WILL BE INCIDENTAL TO EXCAVATION.

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT LEAST 72 HOURS IN ADVANCE OF ANY EXCAVATION WORK AT 1-800-257-7777.

WHERE IMPROVEMENTS ARE SHOWN ON PRIVATE PROPERTY OUTSIDE OF THE COUNTY PUBLIC RIGHT-OF-WAY AND NO EASEMENTS OR OTHER RIGHT-OF-WAY ACQUISITIONS ARE SHOWN, THEN A RIGHT-OF-ENTRY AGREEMENT MUST BE SIGNED BY THE PROPERTY OWNER BEFORE WORK MAY BE PERFORMED ON SAID PROPERTY.

**INDEX OF SHEETS**

1	AT-01	TITLE SHEET
2 TO 11	SN-01 TO SN-10	SIGNING & MARKING PLANS
12	SN-11	GENERAL DETAILS
13	LS-01	GENERAL NOTES, LEGENDS AND SHEET INDEX
14	LS-02	OVERALL SITE PLAN
15	LS-03	EXISTING CONDITIONS, DEMO PLAN
16	LS-04	SITE FEATURES & MATERIALS PLAN
17	LS-05	MATERIALS PLAN - ENLARGEMENT
18	LS-06	PLANTING PLAN
19	LS-07	PAVING DETAILS
20	LS-08	FURNISHINGS DETAILS
21	LS-09	SITE WALL DETAILS
22	LS-10	PLANTING DETAILS
23	LS-11	PLANTING SCHEDULE



100 M ST SE, SUITE 910,  
 WASHINGTON DC 20003  
 P 202.450.3710

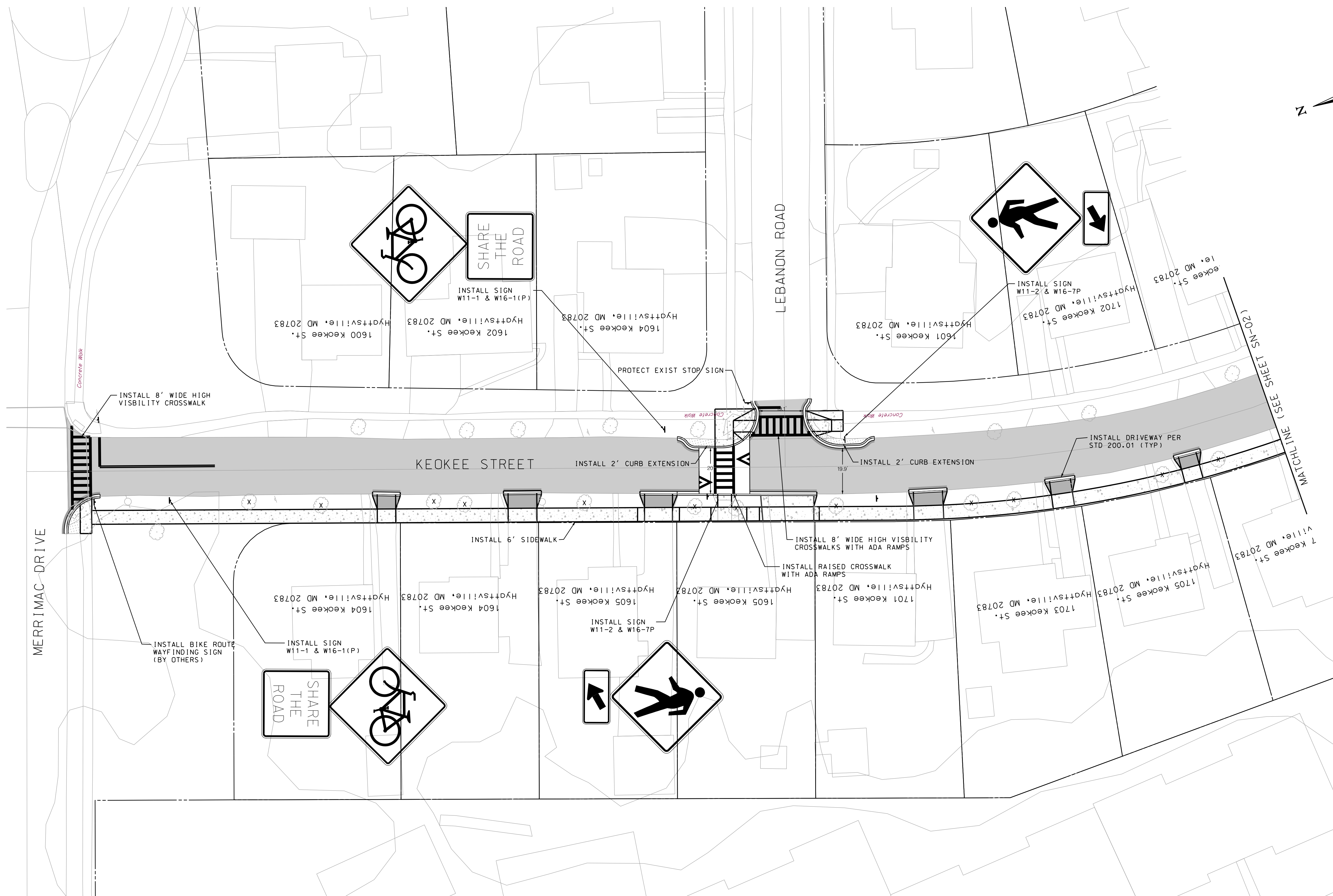
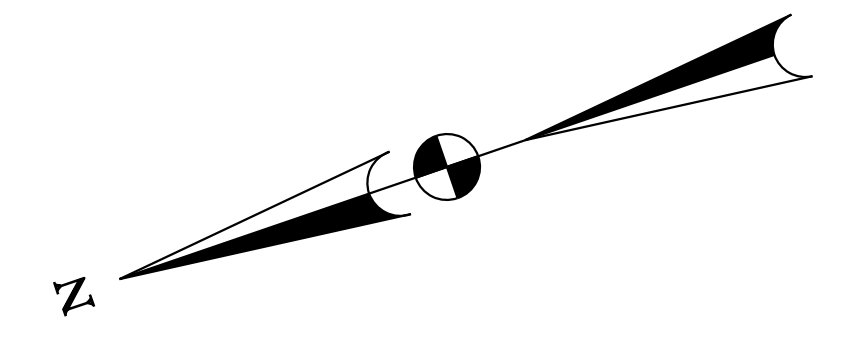


DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND

LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS TITLE SHEET		AT-01
SCALE: N/A	DWG. 1 OF 23	
APPROVED FOR TERRY BELLAMY, DIRECTOR		
DESIGNED: JXD	DATE	
DRAWN: JXD	CONTRACT NO. XXX	
CHECKED: WRW	ROAD NO.	JOB NO. XXX
APPROVED: Erv T. Becker, P.E., CHEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE	FILE NO.

DATE: 6/24/2021 FILE: H:\25\25449 - Riggs Road Neighborhood Bike Boulevards\Task 3.Design and Cost Estimates\design\CD\p0N-T001-Riggs Road.dgn



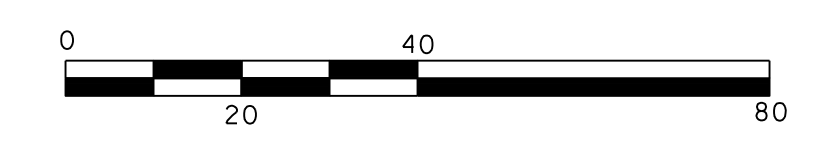


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 WASHINGTON DC 20003  
 P 202.450.3710

**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



**DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION**  
 PRINCE GEORGE'S COUNTY, MARYLAND

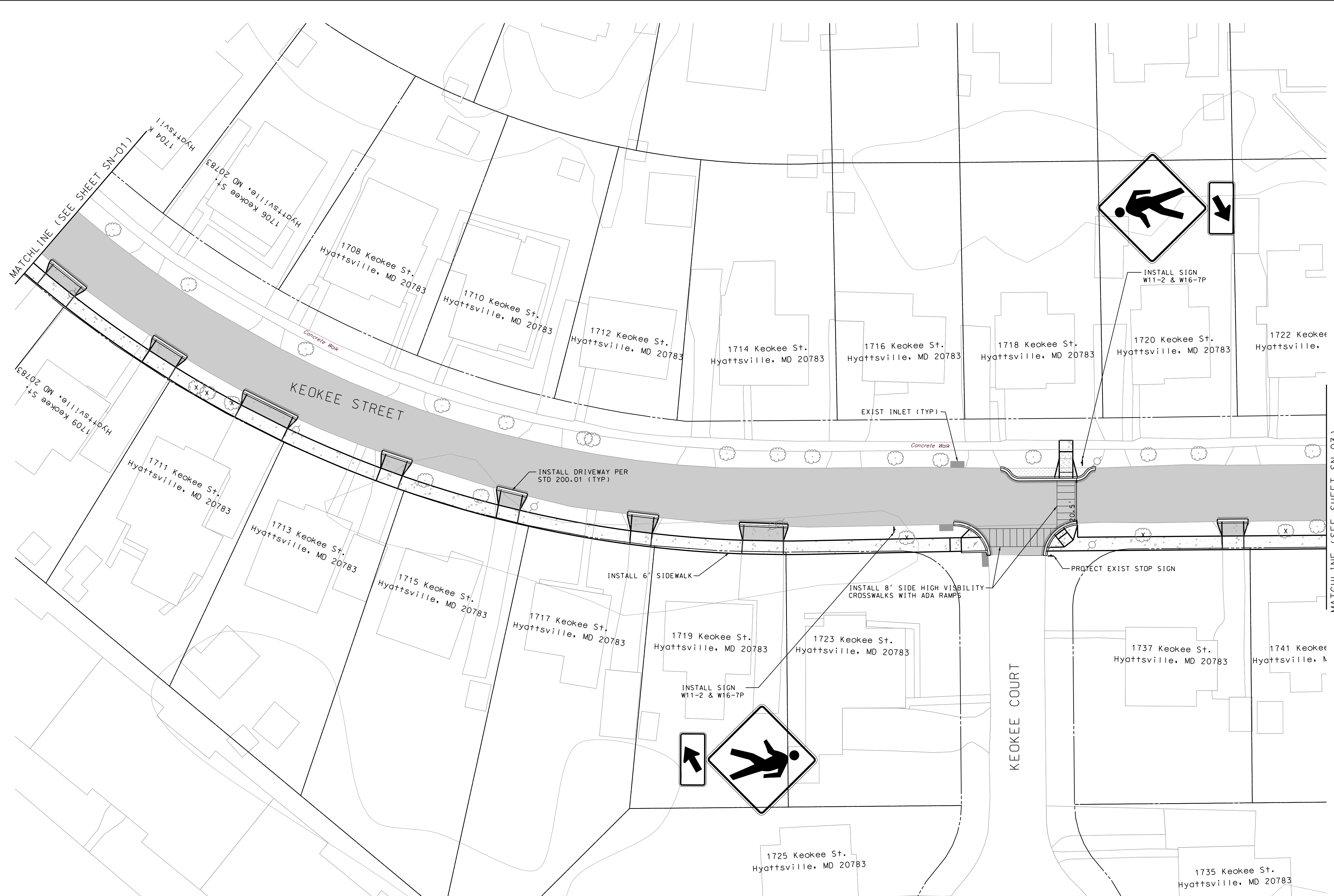
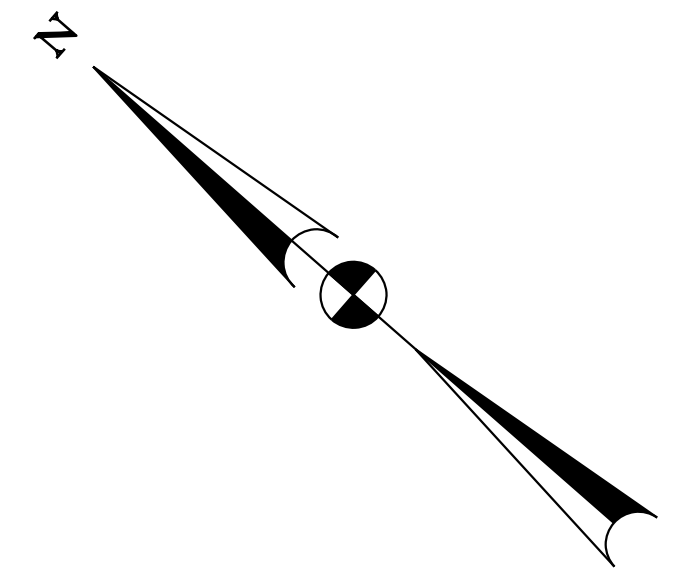
SN-01

**LANGLEY PARK  
 NEIGHBORHOOD BIKE BOULEVARDS  
 SIGNING & MARKING PLAN**

SCALE: 1" = 20' DWG. 2 OF 23

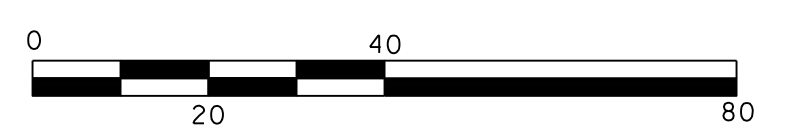
APPROVED		DATE
FOR TERRY BELLAMY, DIRECTOR		DATE
DESIGNED: JXD	DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	APPROVED:	ROAD NO. - JOB NO. XXX
Erv T. Becker, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION		FILE NO. -





**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



SN-02

<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SIGNING &amp; MARKING PLAN</b>	
SCALE: 1" = 20'	DWG. 3 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. -
APPROVED:	JOB NO. XXX
Ervin T. Beckert, P.E., CHEF, HIGHWAY AND BRIDGE DESIGN DIVISION	FILE NO. -

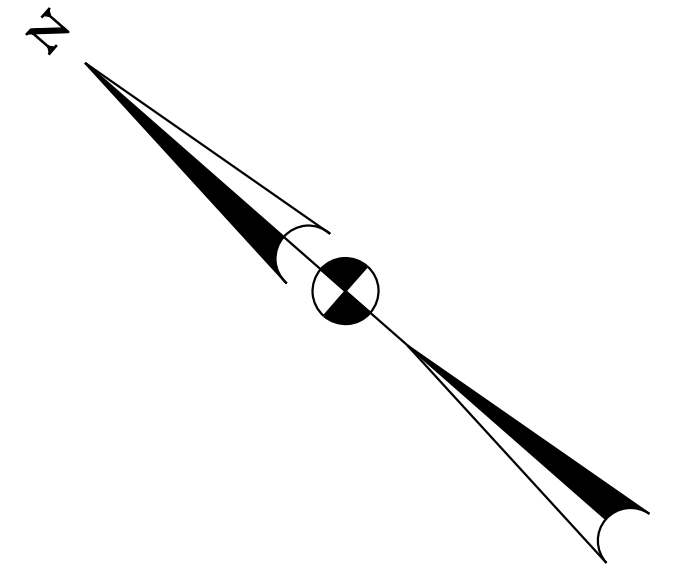


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AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND**

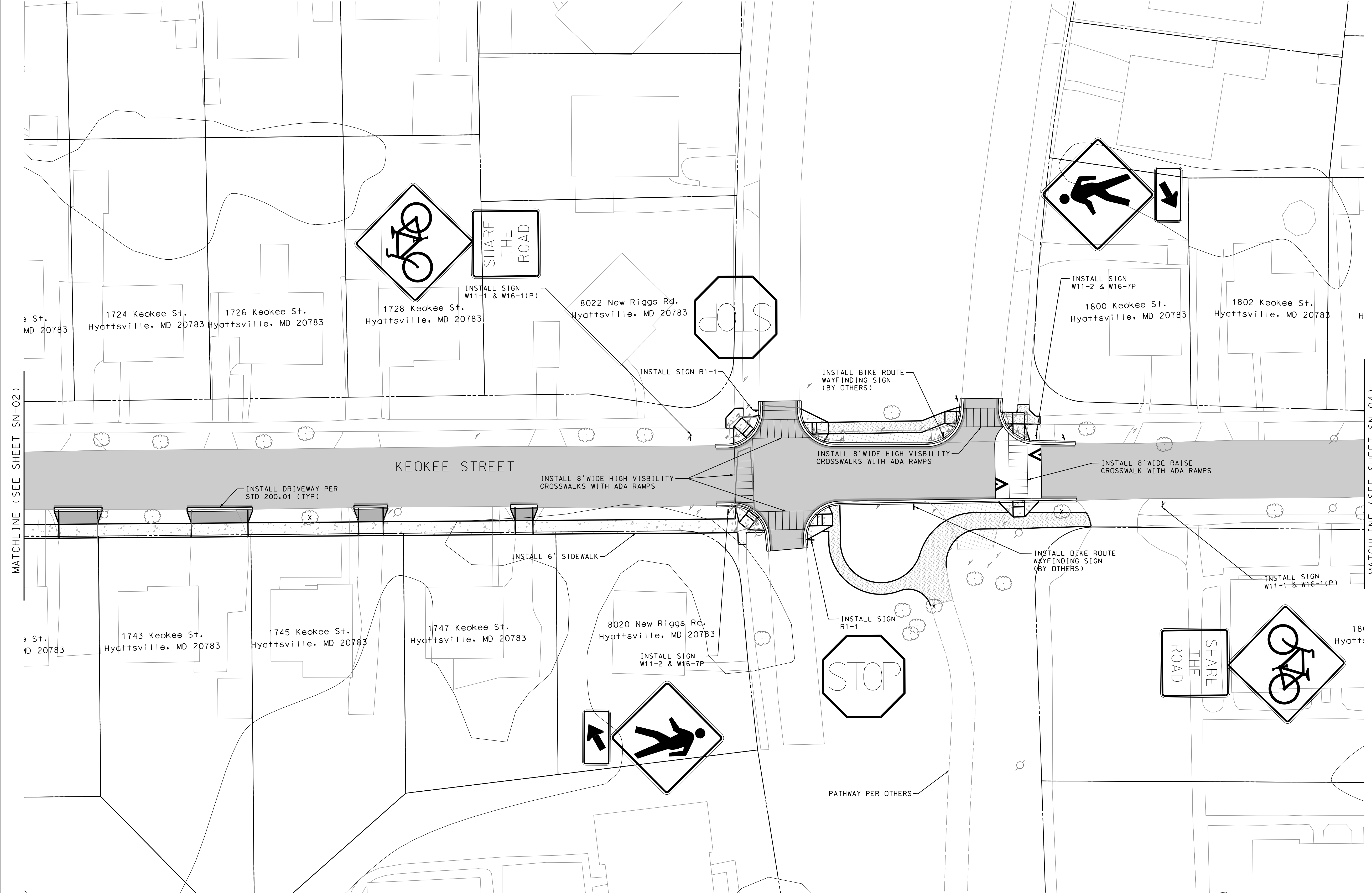
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WASHINGTON DC 20003  
P 202.450.3710





DATE: 6/24/2021  
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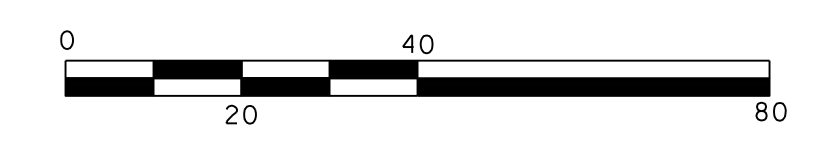
MATCHLINE (SEE SHEET SN-02)

MATCHLINE (SEE SHEET SN-04)

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 WASHINGTON DC 20003  
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**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPING / GREEN INFRASTRUCTURE
- X POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND

SN-03

**LANGLEY PARK  
 NEIGHBORHOOD BIKE BOULEVARDS**

SCALE: 1" = 20' DWG. 4 OF 23

APPROVED FOR TERRY BELLAMY, DIRECTOR DATE

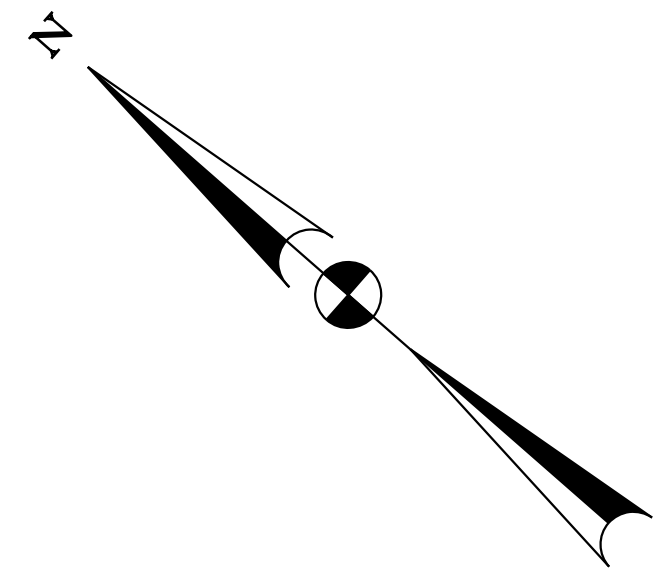
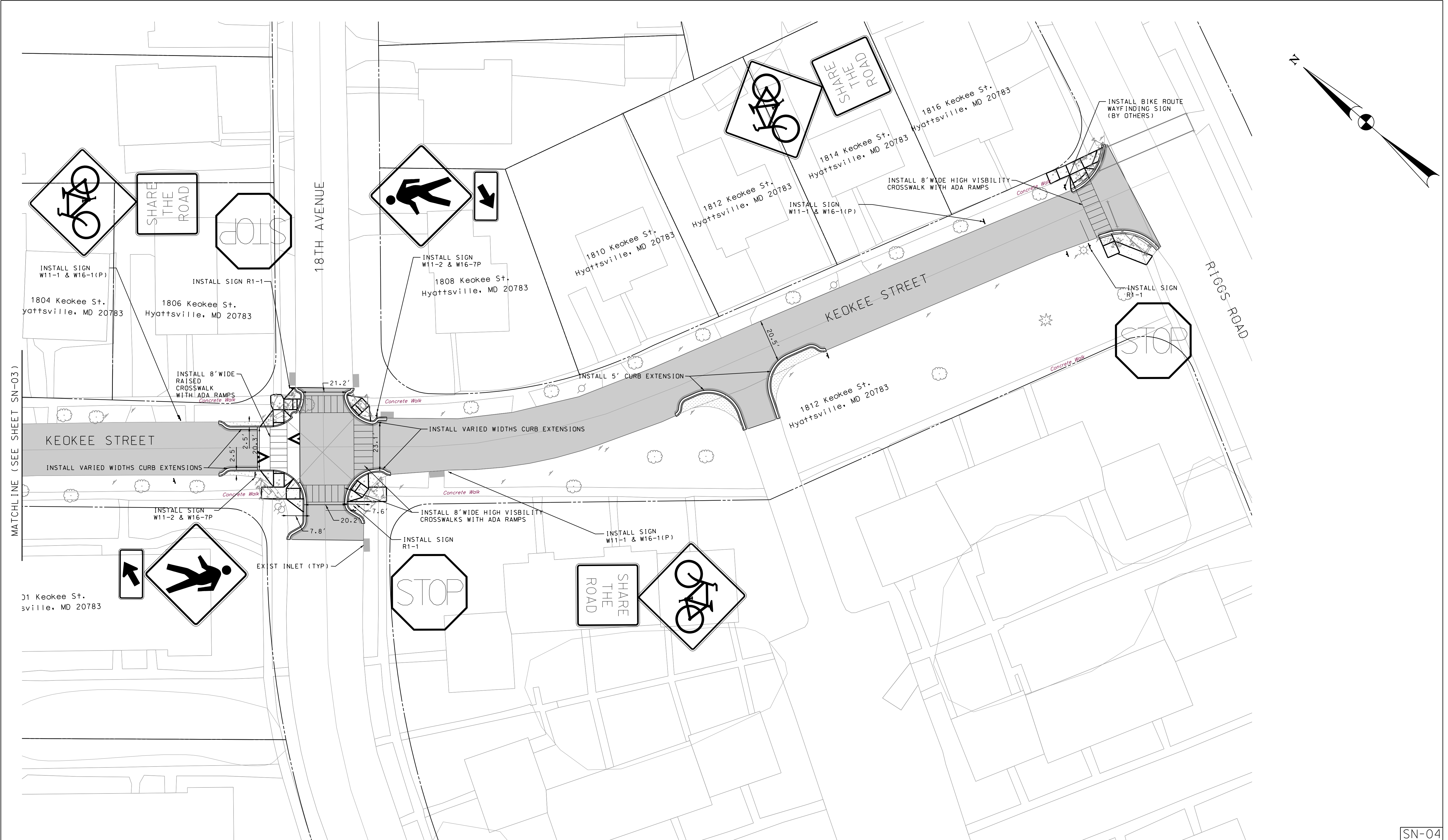
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Ery T. Becker, P.E., CHEF,  
 HIGHWAY AND BRIDGE DESIGN DIVISION



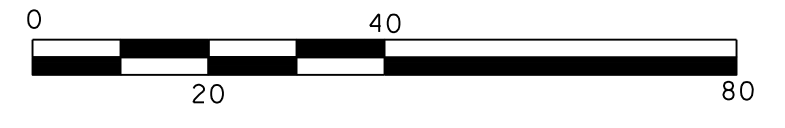
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**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



**DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION**  
 PRINCE GEORGE'S COUNTY, MARYLAND

SN-04

**LANGLEY PARK  
 NEIGHBORHOOD BIKE BOULEVARDS  
 SIGNING & MARKING PLAN**

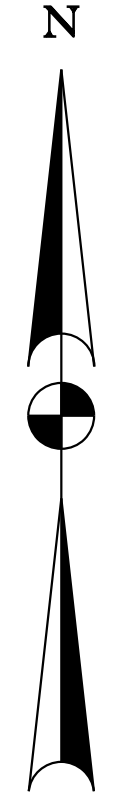
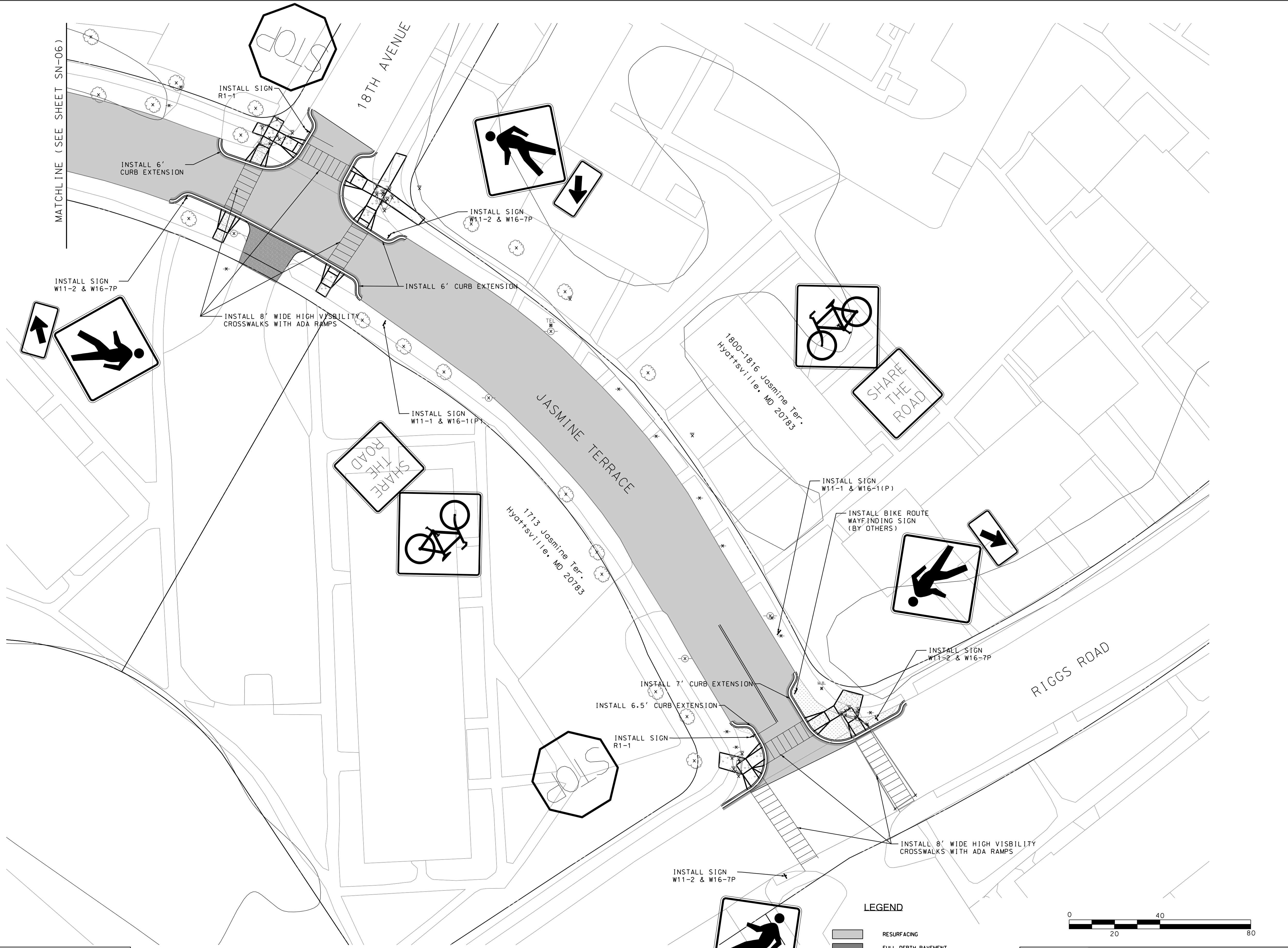
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APPROVED		DATE
FOR TERRY BELLAMY, DIRECTOR		DATE
DESIGNED: JXD	CONTRACT NO. XXX	
DRAWN: JXD	ROAD NO. - JOB NO. XXX	
CHECKED: WRW	FILE NO. -	
APPROVED: Ery T. Becker, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE	DATE



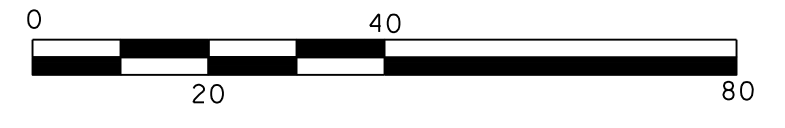
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 WASHINGTON DC 20003  
 P 202.450.3710



**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY

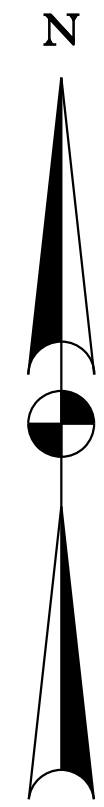


**DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND**

SN-05

<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SIGNING &amp; MARKING PLAN</b>	
SCALE: 1" = 20'	DWG. 6 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. -
APPROVED:	JOB NO. XXX
Eric T. Beckert, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE
	FILE NO. -



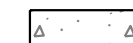


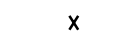
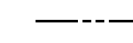


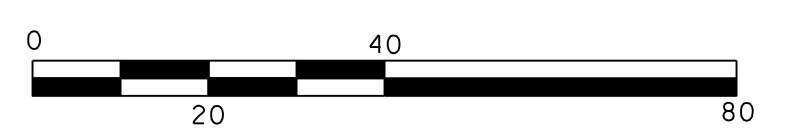


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 WASHINGTON DC 20003  
 P 202.450.3710

**LEGEND**

-  RESURFACING
-  FULL DEPTH PAVEMENT
-  CONCRETE SIDEWALK
-  CONCRETE DRIVEWAY
-  LANDSCAPIN / GREEN INFRASTRUCTURE
-  POTENTIAL TREE REMOVAL
-  EXISTING RIGHT OF WAY

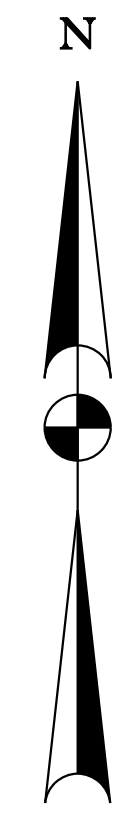


**DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION**  
PRINCE GEORGE'S COUNTY, MARYLAND

SN-06

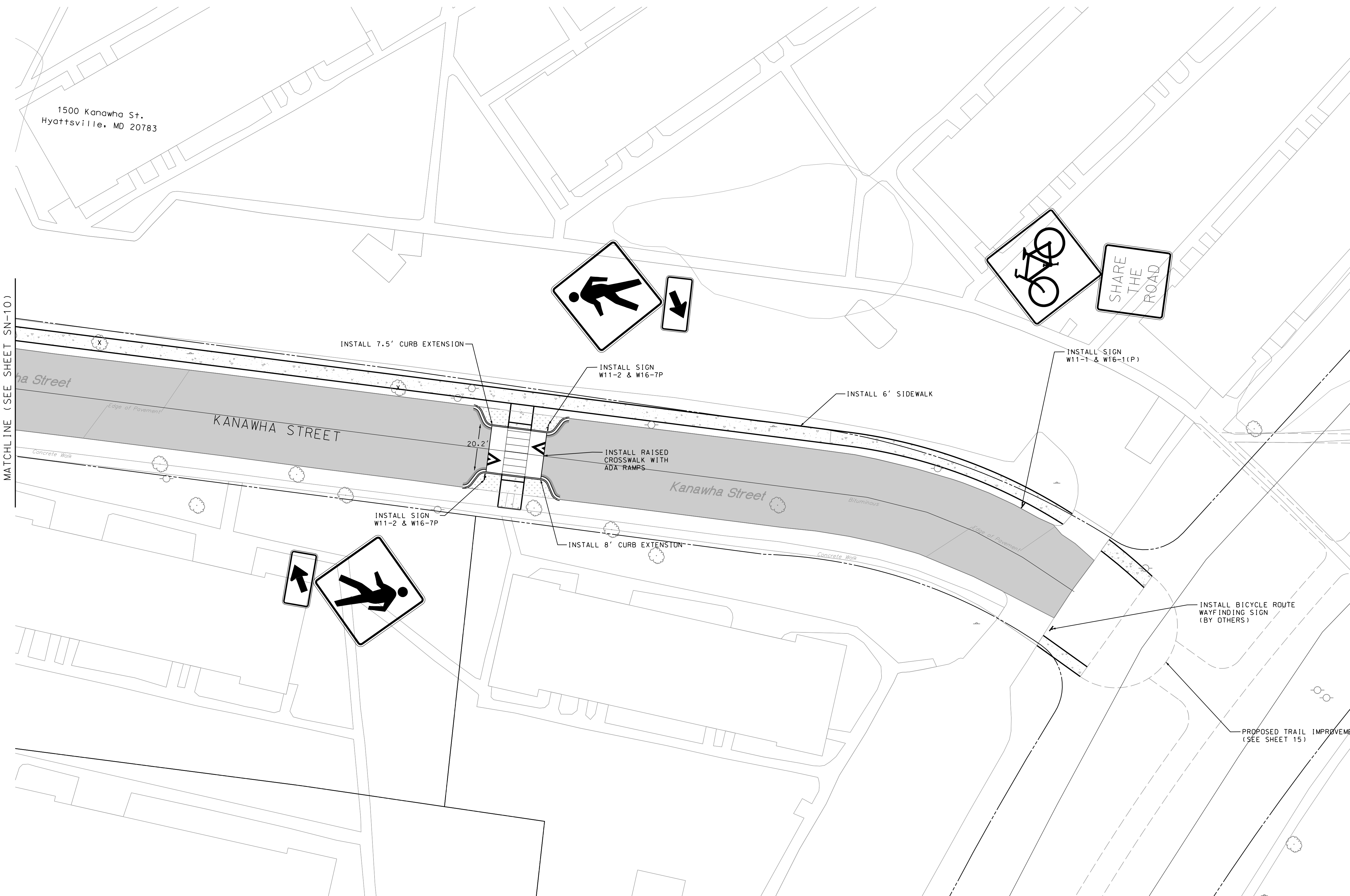
<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SIGNING &amp; MARKING PLAN</b>	
SCALE: 1" = 20'	DWG. 7 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. -
APPROVED:	JOB NO. XXX
Erv T. Beckert, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	FILE NO. -





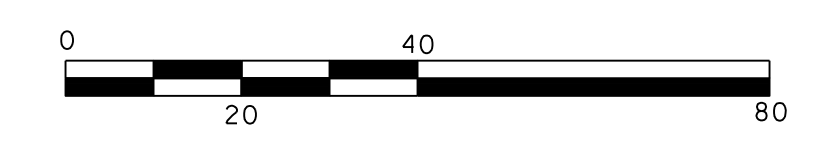
1500 Kanawha St.  
Hyattsville, MD 20783

MATCH LINE (SEE SHEET SN-10)



LEGEND

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

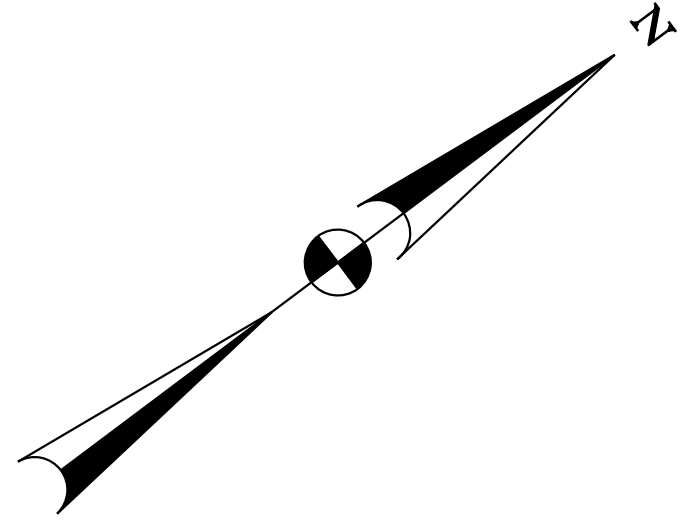
SN-07

<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SIGNING &amp; MARKING PLAN</b>	
SCALE: 1" = 20'	DWG. 8 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. -
APPROVED:	JOB NO. XXX
Erv T. Becker, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	FILE NO. -

DATE: 6/24/2021  
FILE: H:\25\25449 - Riggs Road Neighborhood Bike Boulevards\Task 3.Design and Cost Estimates\design\_CD\p10-007-Riggs Road.dgn

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WASHINGTON DC 20003  
P 202.450.3710

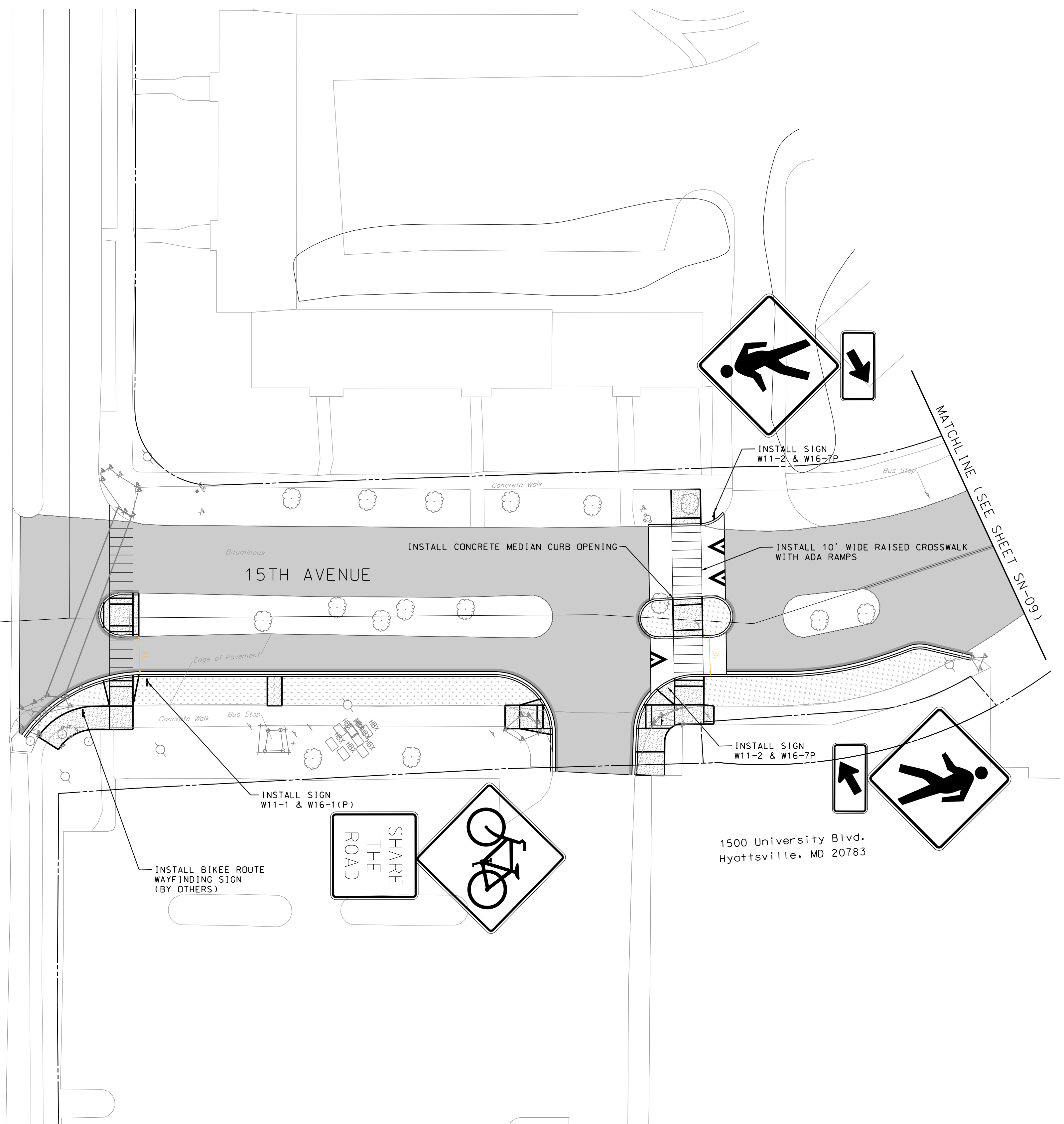




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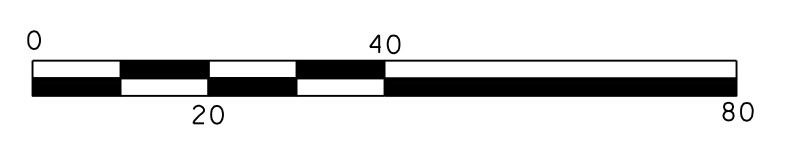
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 WASHINGTON DC 20003  
 P 202.450.3710

UNIVERSITY BOULEVARD E



LEGEND

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND

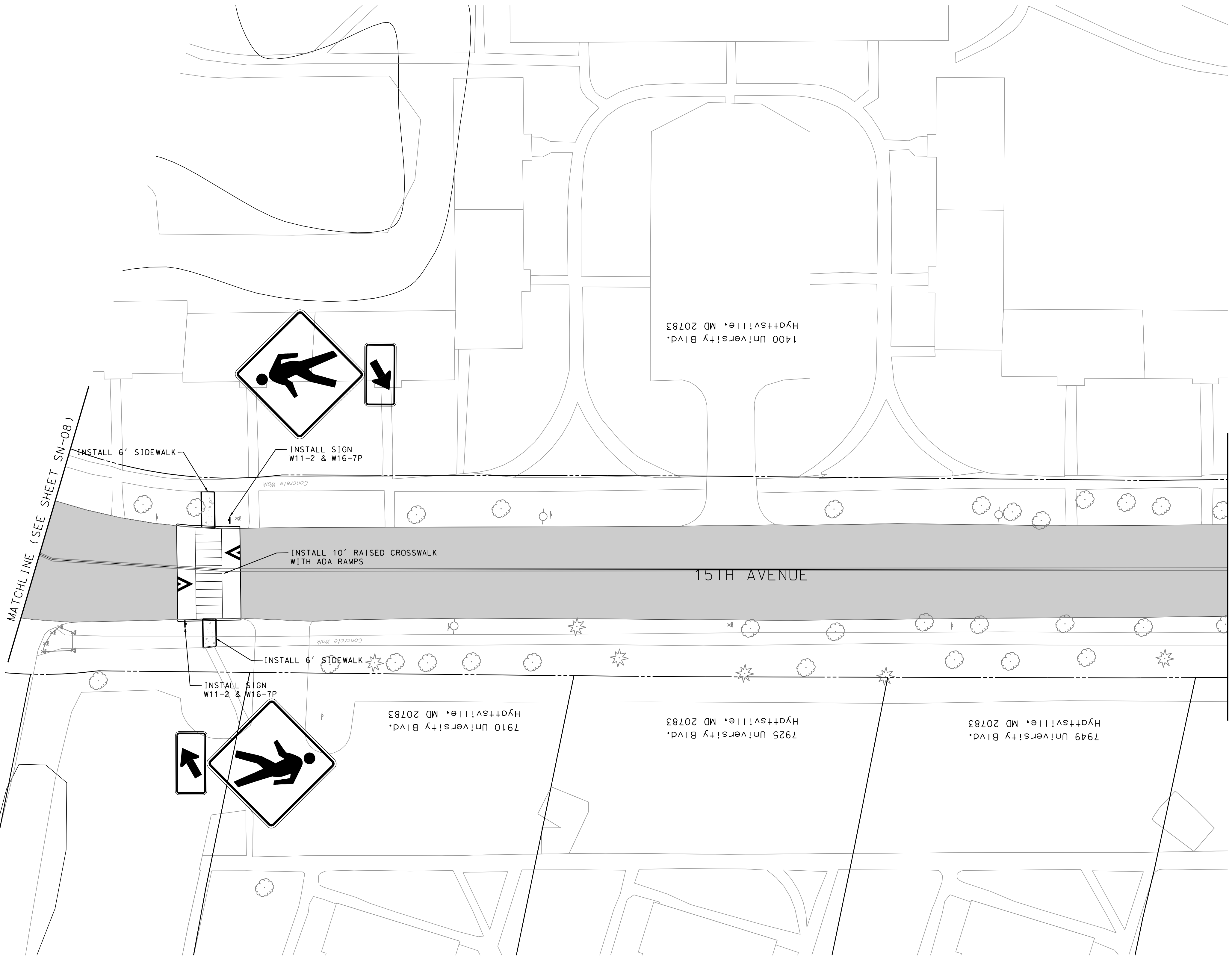
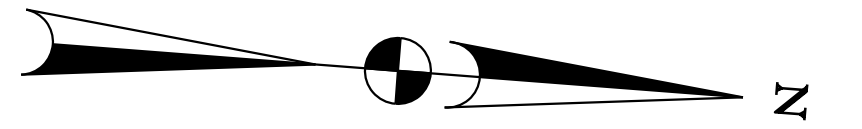
SN-08

LANGLEY PARK  
 NEIGHBORHOOD BIKE BOULEVARDS  
 SIGNING & MARKING PLAN

SCALE: 1" = 20' DWG. 9 OF 23

APPROVED		DATE
FOR TERRY BELLAMY, DIRECTOR		
DESIGNED: JXD	CONTRACT NO. XXX	
DRAWN: JXD	ROAD NO. -	JOB NO. XXX
CHECKED: WRW	FILE NO. -	
APPROVED:	DATE	
Ery T. Becker, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION		



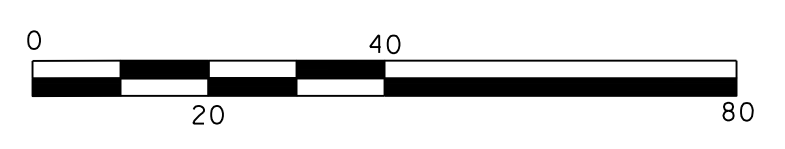


DATE: 6/24/2021  
 FILE: H:\25\25449 - Riggs Road Neighborhood Bike Boulevards\Task 3\_Design and Cost\_Estimates\design\_CD\p10-009-Riggs Road.dgn

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 WASHINGTON DC 20003  
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**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



**DEPARTMENT OF PUBLIC WORKS  
 AND TRANSPORTATION**  
 PRINCE GEORGE'S COUNTY, MARYLAND

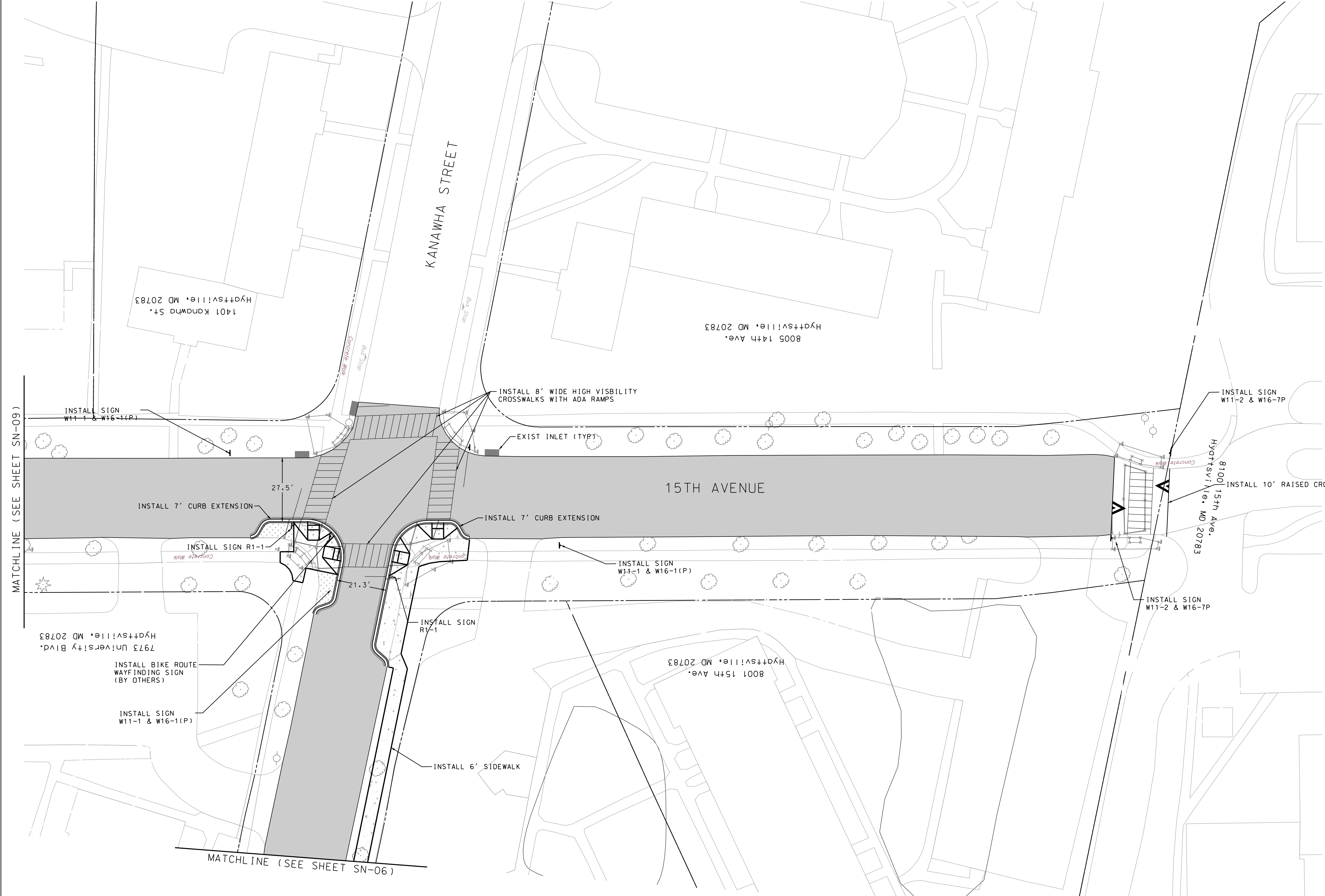
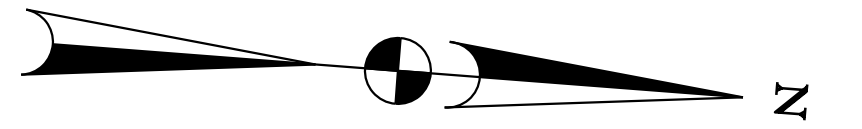
SN-09

**LANGLEY PARK  
 NEIGHBORHOOD BIKE BOULEVARDS  
 SIGNING & MARKING PLAN**

SCALE: 1" = 20' DWG. 10 OF 23

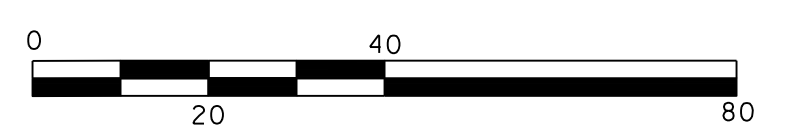
APPROVED		DATE
FOR TERRY BELLAMY, DIRECTOR		DATE
DESIGNED: JXD	CONTRACT NO. XXX	
DRAWN: JXD	ROAD NO. -	JOB NO. XXX
CHECKED: WRW	FILE NO. -	
APPROVED: Erv T. Becker, P.E., CHEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE	DATE





MATCHLINE (SEE SHEET SN-09)

MATCHLINE (SEE SHEET SN-06)



SN-10

<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SIGNING &amp; MARKING PLAN</b>			
SCALE: 1" = 20'		DWG. 11 OF 23	
APPROVED FOR TERRY BELLAMY, DIRECTOR			
DESIGNED: JXD	CONTRACT NO. XXX		DATE
DRAWN: JXD	ROAD NO. -		JOB NO. XXX
CHECKED: WRW	FILE NO. -		
APPROVED: Erv T. Becker, P.E., CHEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE		



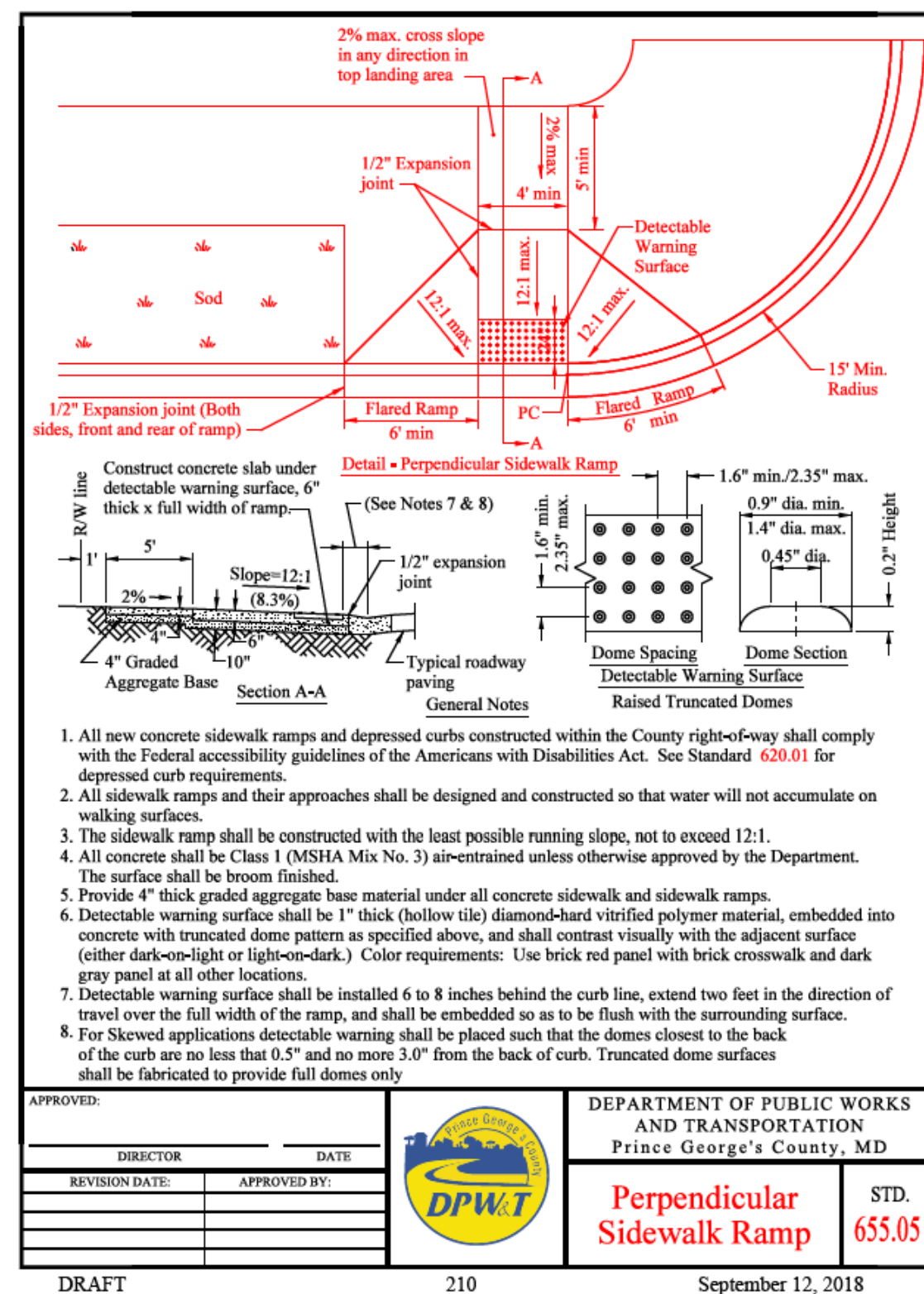
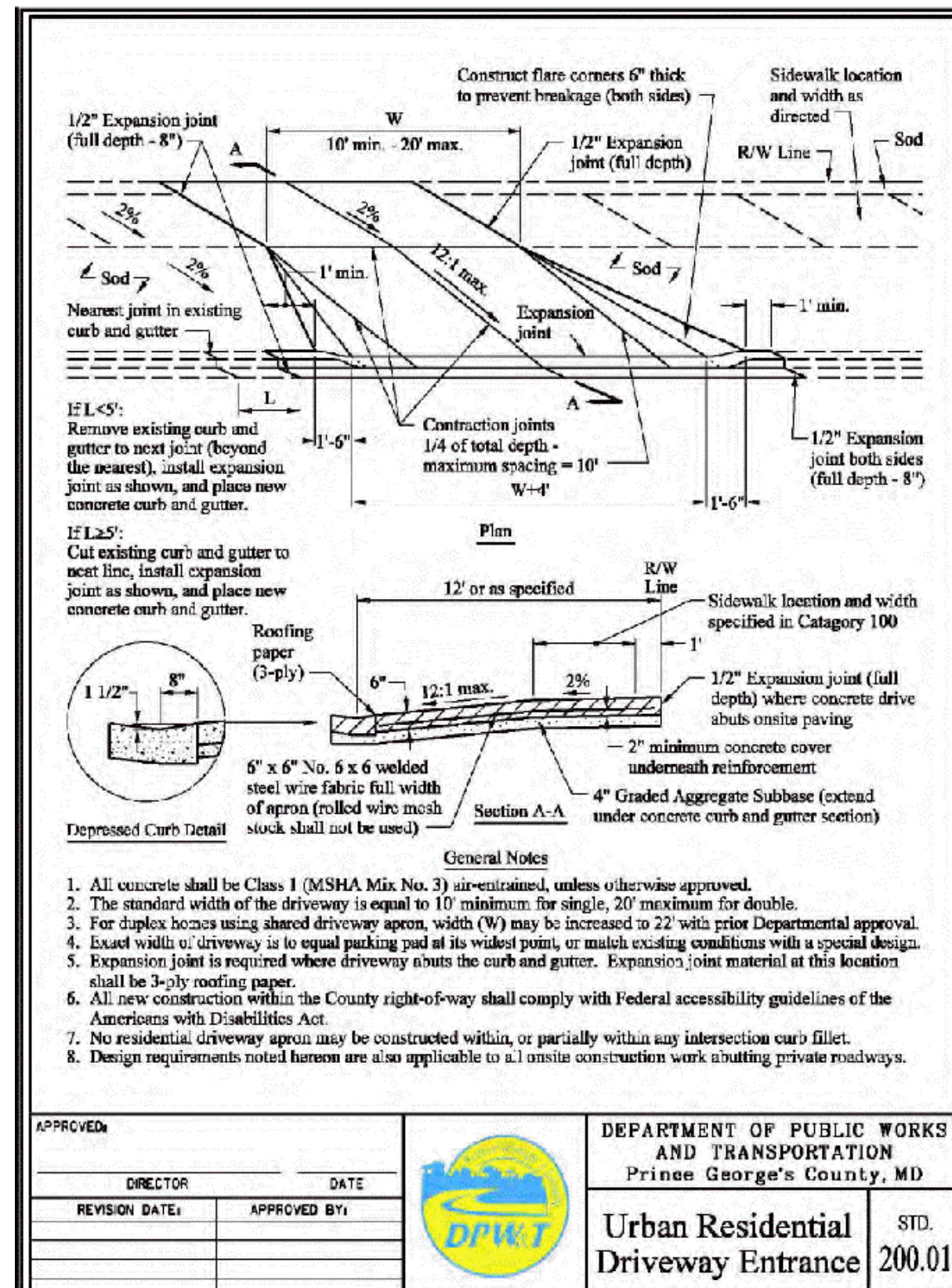
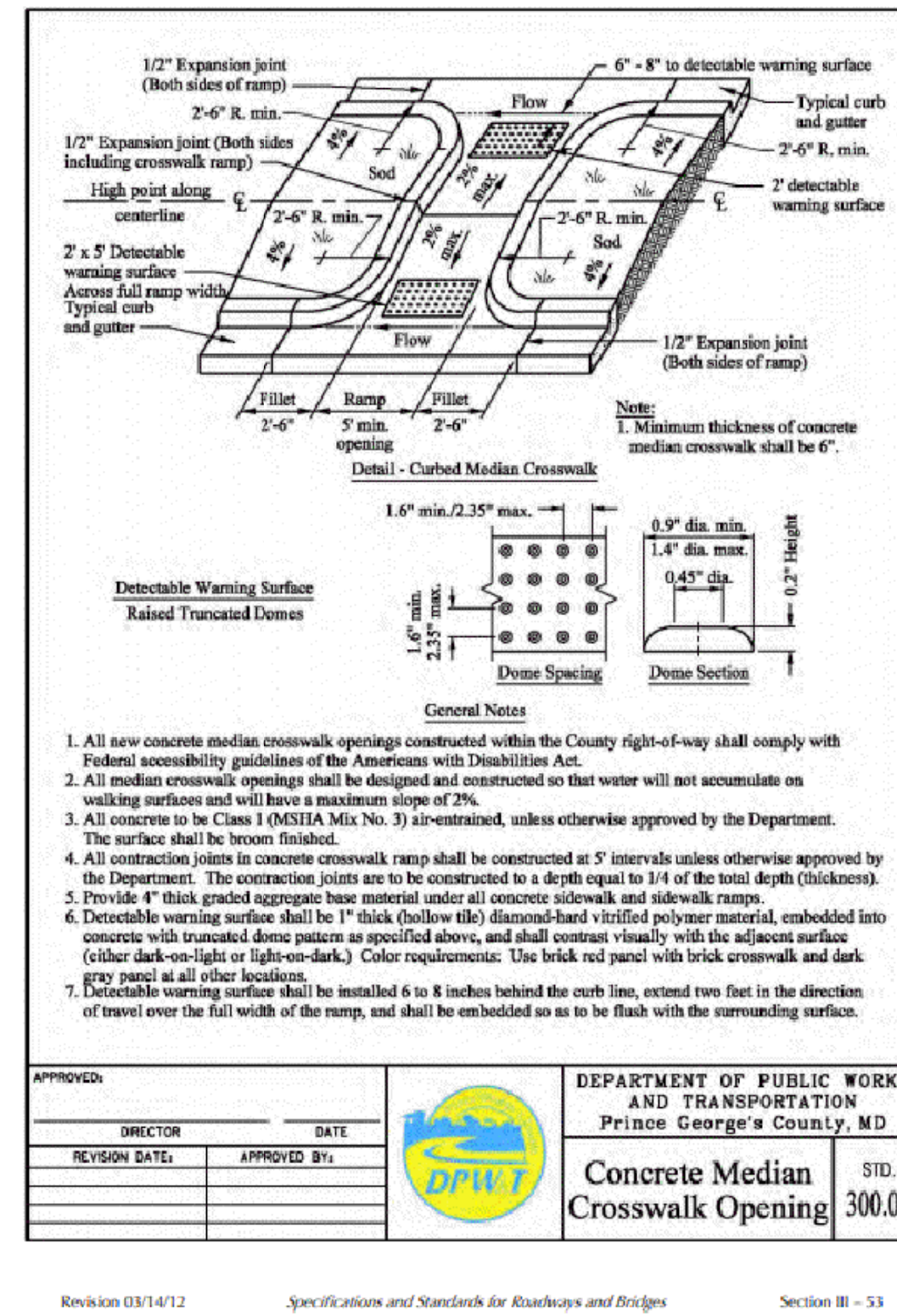
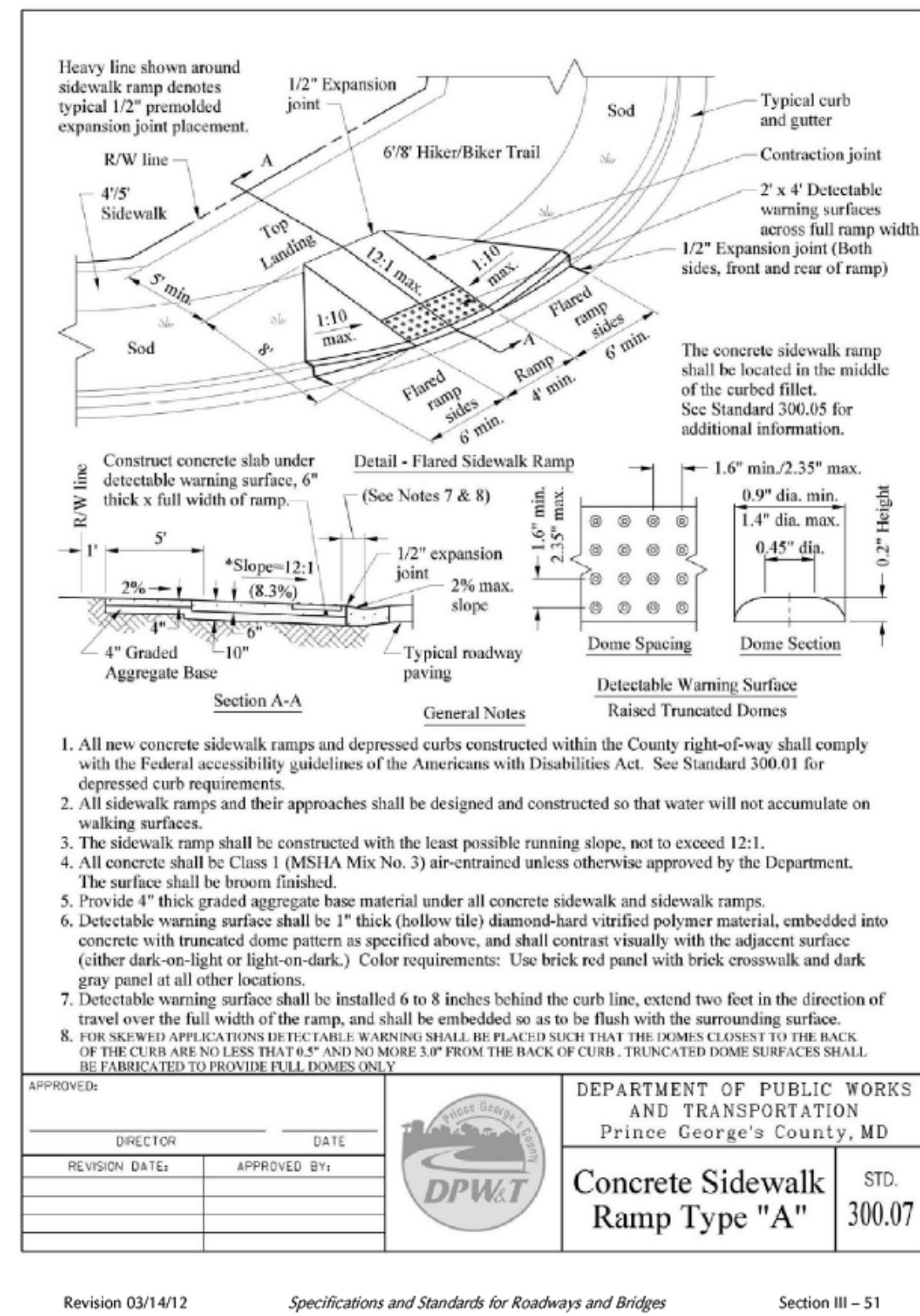
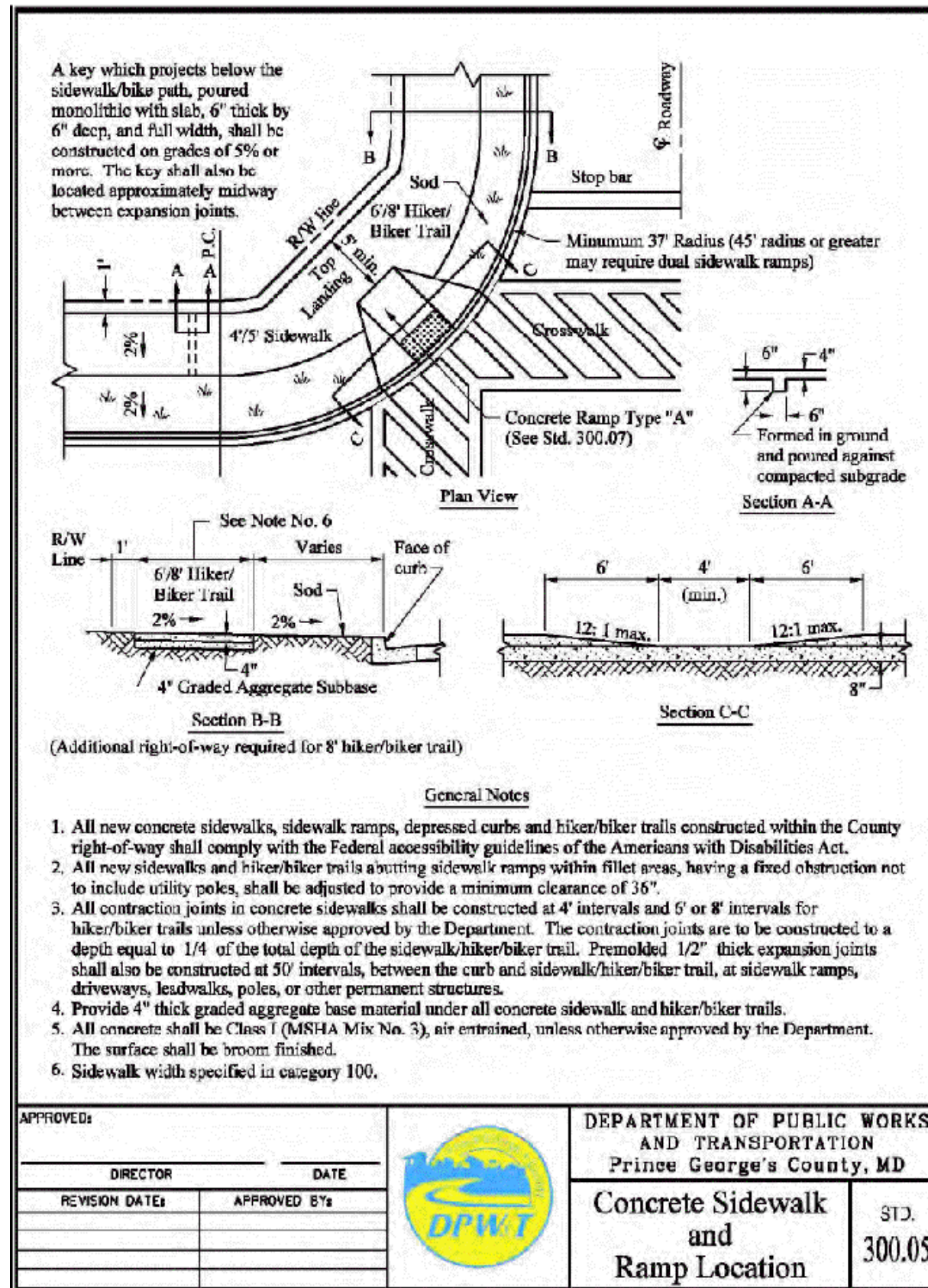
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

**KITTELSON & ASSOCIATES**  
100 M ST SE, SUITE 910,  
WASHINGTON DC 20003  
P 202.450.3710

DATE: 6/24/2021  
FILE: H:\25\25449 - Riggs Road Neighborhood Bike Boulevar ds\Task 3\_Design and Cost Estimates\design\CD\p10-010-Riggs\_Road.dgn



DATE: 6/24/2021  
FILE: H:\25\2549 - Riggs Road Neighborhood Bike Boulevards\Task 3\_Design and Cost\_Estimates\Design\_CD\PHD-001-Riggs Road.dgn



**LEGEND**

- RESURFACING
- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- LANDSCAPIN / GREEN INFRASTRUCTURE
- POTENTIAL TREE REMOVAL
- EXISTING RIGHT OF WAY



100 M ST SE, SUITE 910,  
WASHINGTON DC 20003  
P 202.450.3710



**DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION**  
PRINCE GEORGE'S COUNTY, MARYLAND

LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS GENERAL DETAILS	
SCALE: N/A	DWG. 12 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO.      JOB NO. XXX
APPROVED:	FILE NO.      -
Erv T. Becker, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	DATE

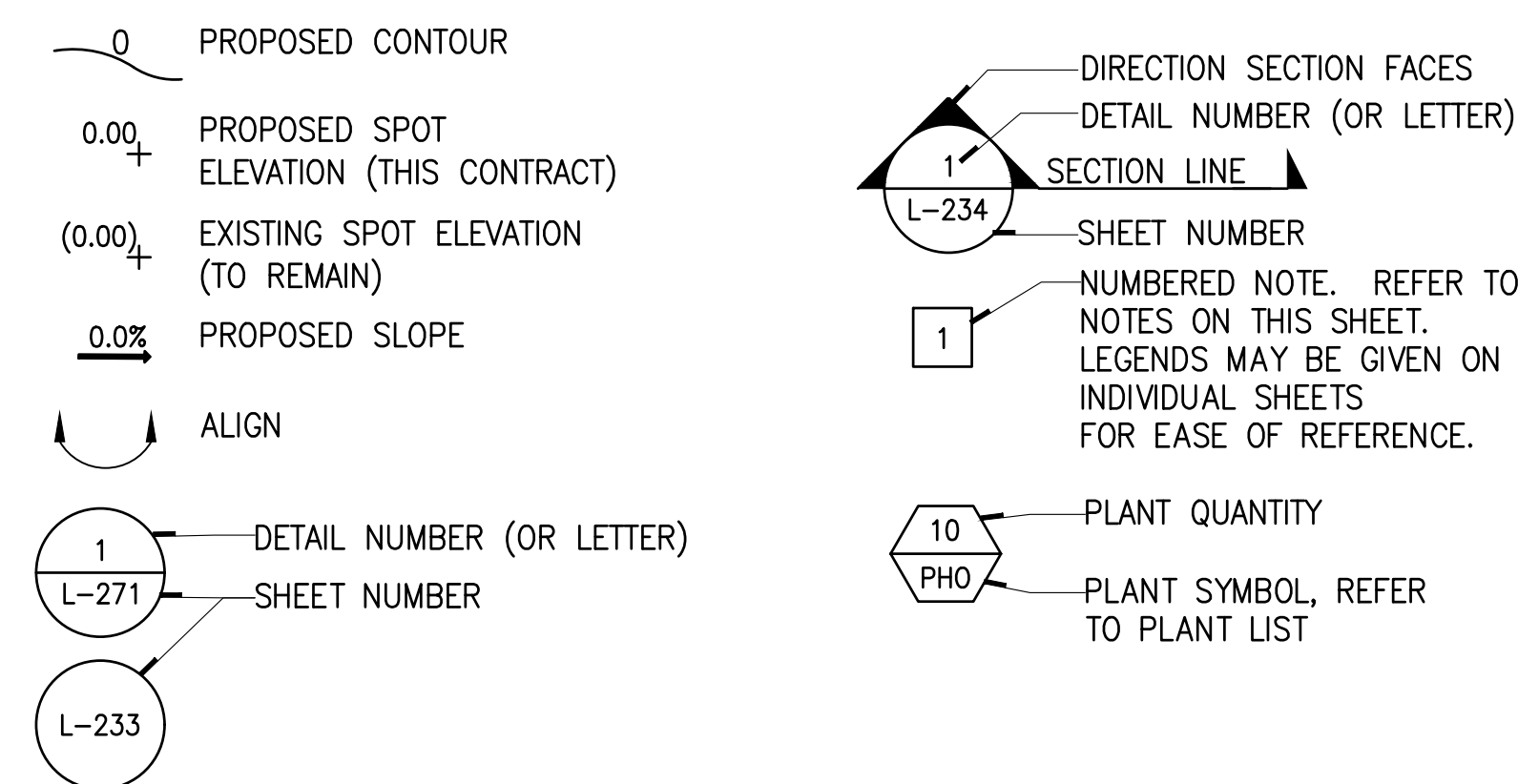
SN-II



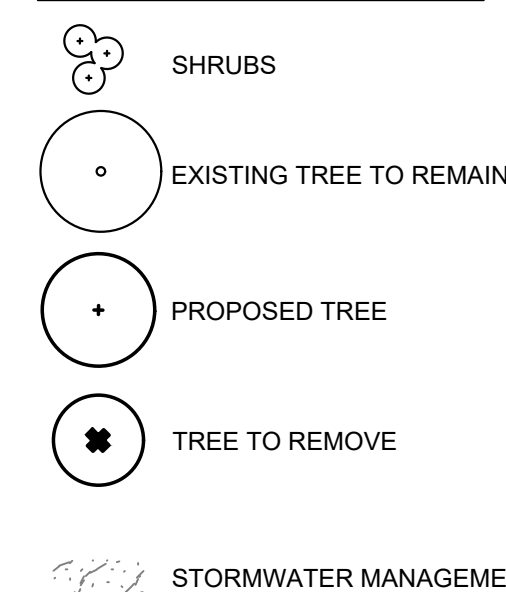
LIST OF LANDSCAPE ARCHITECTURAL ABBREVIATIONS

APPROX ARCH ASSOC	APPROXIMATE ARCHITECT/ARCHITECTURAL ASSOCIATED	MAX MFR MIN MISC	MAXIMUM MANUFACTURER MINIMUM MISCELLANEOUS
B&B BOC BOR BOS BW/BOW	BALLED AND BURLAPPED BOTTOM OF CURB BOTTOM OF RAMP BOTTOM OF STAIR BOTTOM OF WALL	NOM NTS OC	NOMINAL/NOMINAL DIMENSION NOT TO SCALE ON CENTER
CAL CL COL CONC CONT	CALIPER CENTERLINE CLEAN OUT CONCRETE CONTINUOUS	PA PH POB POC PROP PVC	PLANTING AREA PHASE POINT OF BEGINNING POINT OF CURVE PROPOSED POLYVINYL CHLORIDE
DET DEMO DIA DIM DWG	DETAIL DEMOLISH/DEMOLITION DIAMETER DIMENSION DRAWING	R REINF ROW	RADIUS REINFORCED RIGHT-OF-WAY
EJ EL/ELEV ENGR EOP EQ EX EXIST	EXPANSION JOINT ELEVATION ENGINEER EDGE OF PAVE EQUAL EXISTING EXISTING	SAN SD SF SH/SHTSHEET SIM SPEC SQ SS ST STRUC	SANITARY/SANITARY SEWER STORM DRAIN SQUARE FEET SHEET SIMILAR SPECIFICATIONS/SPECIFIED SQUARE STAINLESS STEEL STORM STRUCTURE/STRUCTURAL
FC/FOC FF/FFE FG FH FOB FOW FT	FACE OF CURB FINISHED FLOOR ELEVATION FINISHED GRADE (PAVED AREA) FIREHYDRANT FACE OF BUILDING FACE OF WALL FOOT/FEET	TOC TEMP TOR TOS TO SLAB TW/TOW TYP	TOP OF CURB TEMPORARY TOP OF RAMP TOP OF STAIR TOP OF SLAB TOP OF WALL TYPICAL
GALV	GALVANIZED	UTIL	UTILITY
HC HT	HANDICAP HEIGHT	VAR VIF	VARIES/VARIABLE VERIFY IN FIELD
IN INV	INSIDE DIAMETER INVERT	W/ W/O WWF WWM	WITH WITHOUT WELDED WIRE FABRIC WOVEN WIRE MESH
LA LF LOD LOW LP	LANDSCAPE ARCHITECT LINEAR FEET LIMIT OF DISTURBANCE LIMIT OF WORK LOW POINT	MISCELLANEOUS: @ ' " #	AT FEET INCHES NUMBER

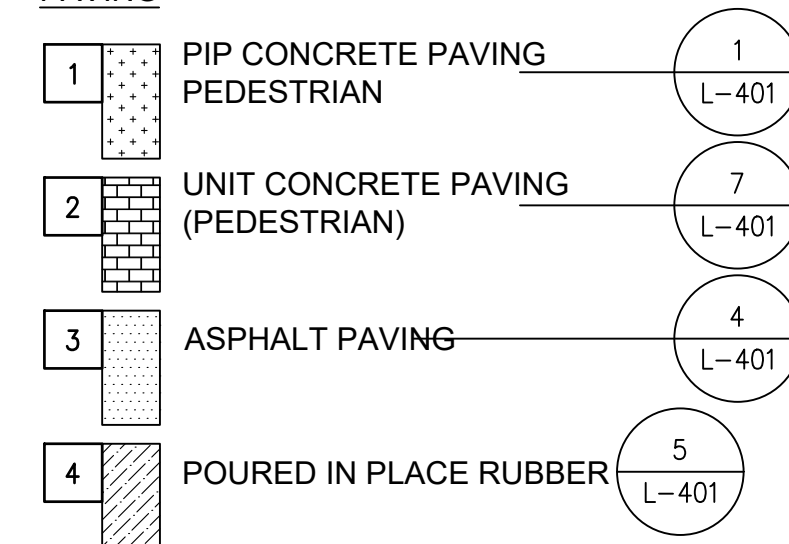
SYMBOLS



SYMBOLS LEGEND



PAVING



GENERAL NOTES:

- THE DRAWINGS AND SPECIFICATIONS, TAKEN TOGETHER, DESCRIBE THE DESIGN FOR THIS PROJECT. THE DRAWINGS AND SPECIFICATIONS ARE MEANT TO BE COMPLIMENTARY TO EACH OTHER.
- THAT WHICH IS SHOWN ON THE DRAWINGS BUT NOT IN THE SPECIFICATIONS, OR SHOWN IN THE SPECIFICATIONS BUT NOT ON THE DRAWINGS, SHALL BE PROVIDED AS IF SHOWN IN BOTH PLACES AND TO THE SAME STANDARD OF QUALITY FOR SIMILAR ITEMS.
- DRAWINGS SHOW EXTENT, LOCATION, DIMENSIONS, RELATIONSHIPS AMONG VARIOUS PART, AND QUANTITY OF ITEMS. IN CASE OF CONFLICT WITH THE SPECIFICATIONS IN THESE MATTERS, THE DRAWINGS SHALL GOVERN.
- SPECIFICATIONS SHOW QUALITY, TRADE NAME, GENERIC NAMES, AND WORKMANSHIP. IN CASE OF CONFLICT WITH THE DRAWINGS IN THESE MATTERS, THE SPECIFICATIONS SHALL GOVERN.
- THE LARGER THE SCALE OF THE DRAWINGS, THE MORE PRECEDENCE: i.e. A 1 INCH PER FOOT SCALE DRAWING GOVERNS OVER A 10 FEET PER INCH DRAWING.
- CONTRACTOR SHALL PROTECT FROM ALL DAMAGE EXISTING TREES TO REMAIN AND THEIR ROOT STRUCTURES.
- CONTRACT INCLUDES ALL DEMOLITION REQUIRED TO COMPLETE JOB AND TO REMOVE AND TO DISPOSE OF ITEMS FROM SITE COMPLETELY IN ACCORDANCE WITH LOCAL LAWS. DO NOT BURN OR BURY ANY DEMOLITION ITEMS ON SITE. CONTRACTOR IS RESPONSIBLE FOR MAKING SITE VISIT TO DETERMINE AND VERIFY ALL DEMOLITION REQUIREMENTS PRIOR TO BIDDING.
- PERMITS AND FEES REQUIRED FOR ANY DEMOLITION DISPOSAL WORK MUST BE OBTAINED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE EXISTING ADJACENT FACILITIES AND STRUCTURES THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION (UNLESS OTHERWISE INDICATED) TO THE SATISFACTION OF THE CONTRACTING REPRESENTATIVE AND OWNER. ADJACENT STREETS AND SIDEWALKS SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE. ADEQUATE MEANS AND FACILITIES SHALL BE PROVIDED BY THE CONTRACTOR TO CLEAN TRUCKS AND OTHER EQUIPMENT LEAVING THE SITE.
- THE EXISTING SURROUNDING FACILITIES ARE TO REMAIN IN OPERATION WHILE CONSTRUCTION WORK IS BEING DONE. ALL UTILITY WORK SHALL BE COORDINATED WITH THE OWNER AND LOCAL UTILITY COMPANIES AND SHALL BE PERFORMED IN AN EXPEDITIOUS MANNER.
- UTILITIES SHOWN ON DRAWINGS ARE BASED ON PUBLISHED DATA AND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR MUST LOCATE AND VERIFY ALL SUCH INFORMATION, INCLUDING INFORMATION NOT SHOWN ON PLANS, BY CONTACTING THE INDIVIDUAL UTILITY COMPANY AND INVESTIGATING THE SITE TO DETERMINE THE EXACT LOCATION OF RESPECTIVE UTILITY LINES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE PROJECT OWNER & THE UTILITY OWNER, DAMAGE TO ANY UTILITY CAUSED BY HIS WORK. HE SHALL IMMEDIATELY NOTIFY THE OWNER AND THE UTILITY OWNER OF ANY DAMAGE TO ANY UTILITY BY REASON OF HIS OPERATION.
- BEFORE BEGINNING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 3 WORKING DAYS PRIOR TO STARTING WORK SO THAT THEY CAN ARRANGE TO MARK THE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO VERTICAL AND HORIZONTAL START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY THE PROJECT REPRESENTATIVE IMMEDIATELY FOR CLARIFICATION.
- FOR ALL PAVEMENT REMOVAL AREAS, NEATLY SAWCUT ALL EDGES. TIES TO EXISTING PAVEMENT AREAS SHALL BE SMOOTH CONSISTENT TRANSITIONS. NO ABRUPT CHANGE IN LINE AND/OR GRADE WILL BE PERMITTED.
- IN AREAS OF FORMER PAVED SURFACES (ROADBEDS, WALKWAYS, ETC.), REMOVE ALL EXISTING PAVING MATERIAL, INCLUDING BASE MATERIALS. EXCAVATE EXISTING SUBGRADE TO A TOTAL DEPTH OF 18" BELOW FINISHED GRADE. SCARIFY BOTTOM OF EXCAVATION TO A DEPTH OF 4". IF FINISHED GRADE IS GREATER THAN 14" ABOVE EXISTING SUBGRADE, SCARIFY EXISTING SUBGRADE TO MINIMUM DEPTH OF 4". FILL AREA WITH APPROVED EARTH FILL TO A TOTAL DEPTH OF 4" BELOW FINISHED GRADE. PLACE SOIL IN MAXIMUM 8" LIFTS, AND COMPACT EACH LIFT TO MINIMUM 50%, MAXIMUM 75% DENSITY. SPREAD TOPSOIL OVER ENTIRE DISTURBED AREA TO DEPTH OF 4". LIGHTLY COMPACT TOPSOIL. BLEND EDGES OF TOPSOIL TO MATCH GRADES OF ADJACENT [EXISTING OR PROPOSED] CONDITIONS.
- POSITIVE DRAINAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PONDING OR STANDING WATER WILL NOT BE PERMITTED.
- CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE PROJECT REPRESENTATIVE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND CORRECTIONS SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
- PROVIDE SAMPLES AND/OR SAMPLE PANELS / MOCK-UPS AS SPECIFIED FOR ALL CAST STONE, STONE, PRECAST CONCRETE, MASONRY, STONE, WOOD AND/OR METAL FABRICATIONS WORK AS SHOWN ON THESE DRAWINGS. OBTAIN APPROVAL OF SAMPLES PRIOR TO ORDERING MATERIALS. OBTAIN APPROVAL OF SAMPLE PANELS / MOCK-UPS PRIOR TO INSTALLATION.
- PROVIDE SUBMITTALS AND SHOP DRAWINGS AS SPECIFIED FOR ALL PRECAST CONCRETE, STONE, WOOD, AND/OR METAL FABRICATIONS WORK AS SHOWN ON THESE DRAWINGS. OBTAIN APPROVAL OF SUBMITTALS AND SHOP DRAWINGS PRIOR TO START OF FABRICATION.
- FIELD VERIFY AS-BUILT DIMENSIONS PRIOR TO FABRICATION OF PRECAST CONCRETE, STONE, WOOD AND/OR METAL FABRICATIONS WORK AS SHOWN ON THESE DRAWINGS.
- FOR ALL METAL FABRICATIONS, WELD ALL CONNECTIONS, UNLESS SPECIFICALLY NOTED OTHERWISE. GRIND ALL WELDS TO SMOOTH BARE METAL WITHOUT MARRING ADJOINING MEMBERS. GRIND SMOOTH AND TRUE ALL SHARP CORNERS.

LANDSCAPE SHEET INDEX:

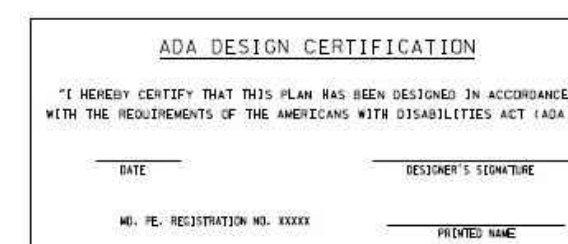
L000	GENERAL NOTES, LEGENDS, AND SHEET INDEX
L001	OVERALL SITE PLAN
L101	EXISTING CONDITIONS, DEMO PLAN
L201	SITE FEATURES & MATERIALS PLAN
L202	MATERIALS PLAN- ENLARGEMENT
L301	PLANTING PLAN
L401	PAVING DETAILS
L402	FURNISHING DETAILS
L403	SITE WALL DETAILS
L601	PLANTING DETAILS
L602	PLANTING SCHEDULE

SITE FEATURES

- 150 ADA ACCESSIBLE RAMP
- 151 STAIRS
- 153 SEAT WALL
- 154 ENTRY COURT
- 155 SEATING NODE

SITE FURNISHINGS

- 300 BENCH L-402
- 301 BICYCLE RACK L-402
- 302 LITTER RECEPTACLE L-402
- 303 LIGHT STANDARD L-402
- 304 GRILL STATION L-402
- 305 PICNIC TABLE L-402
- 306 NATURE BASED PLAY EQUIPMENT L-402
- 307 BOLLARD L-402



DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

L-000

**LANGLEY PARK  
NEIGHBORHOOD BIKE BOULEVARDS**  
GENERAL NOTES

SCALE: N/A DWG. 13 OF 23

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
FOR TERRY BELLAMY, DIRECTOR

DESIGNED: JXD	CONTRACT NO. XXXX
DRAWN: JXD	ROAD NO. _____ JOB NO. XXXX
CHECKED: WRW	FILE NO. _____
APPROVED: _____	DATE _____

Erin T. Beckert, P.E., CHIEF  
HIGHWAY AND BRIDGE DESIGN DIVISION





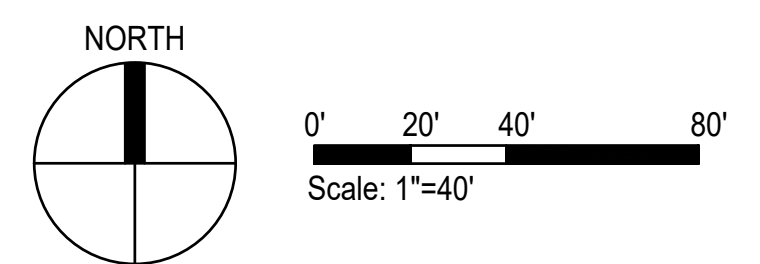


**SYMBOLS LEGEND**

○ EXISTING TREE TO REMAIN

**PAVING**

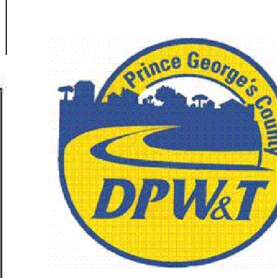
- 1 PIP CONCRETE PAVING PEDESTRIAN (1 L-401)
- 2 UNIT CONCRETE PAVING (PEDESTRIAN) (7 L-401)
- 3 ASPHALT PAVING (4 L-401)
- 4 POURED IN PLACE RUBBER (5 L-401)



L-001

<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS OVERALL PLAN</b>			
SCALE: 1"=40'	DWG.	14	OF 23
APPROVED		DATE	
FOR TERRY BELLAMY, DIRECTOR			
DESIGNED: JXD		CONTRACT NO.	
DRAWN: JXD		XXX	
CHECKED: WRW		ROAD NO.	JOB NO.
APPROVED:		-	XXX
FILE NO.		-	
EPA T. BASKIN, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION		DATE	

**ADA DESIGN CERTIFICATION**  
 "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA)."  
 DATE: \_\_\_\_\_ DESIGNER'S SIGNATURE: \_\_\_\_\_  
 M.D. NO. REGISTRATION NO. BODY: \_\_\_\_\_ PROJECT NAME: \_\_\_\_\_



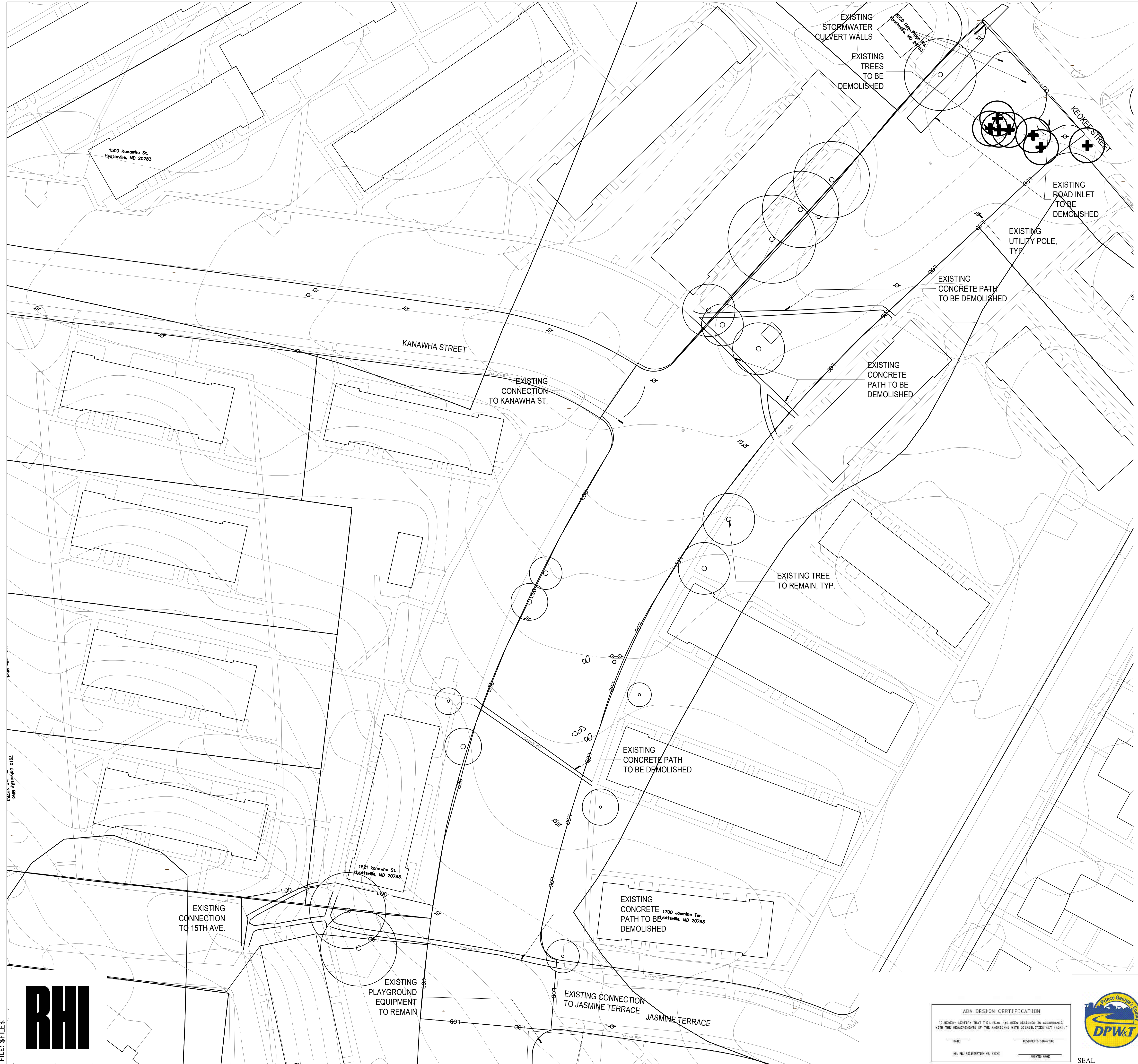
**DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION**  
 PRINCE GEORGE'S COUNTY, MARYLAND

SEAL

DATE: \$DATE\$  
FILE: \$FILE\$





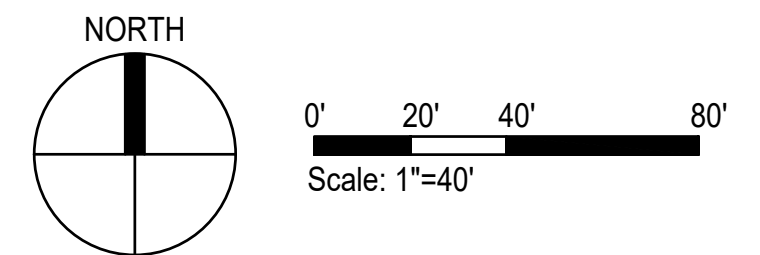


**SYMBOLS LEGEND**

LOD/LOW LIMITS OF DISTURBANCE  
LIMITS OF WORK

○ EXISTING TREE TO REMAIN

⊕ TREE TO REMOVE



DATE: \$DATE\$  
FILE: \$FILES\$



ADA DESIGN CERTIFICATION  
 "I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)."  
 DATE: \_\_\_\_\_ DESIGNER'S SIGNATURE: \_\_\_\_\_  
 M.D. NO. REGISTRATION NO. 0000 PROJECT NAME: \_\_\_\_\_



DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

L-101

**LANGLEY PARK  
NEIGHBORHOOD BIKE BOULEVARDS  
EXISTING CONDITIONS**

SCALE: 1"=40' DWG. 15 OF 23

APPROVED		FOR TERRY BELLAMY, DIRECTOR	DATE
DESIGNED: JXD			CONTRACT NO.
DRAWN: JXD			XXX
CHECKED: WRW	ROAD NO.	JOB NO.	
APPROVED:	---	XXX	
Erin T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION	DATE	FILE NO.	
		---	





**SYMBOLS LEGEND**

- LOD/LOW LIMITS OF DISTURBANCE
- LIMITS OF WORK
- EXISTING TREE TO REMAIN

**PAVING**

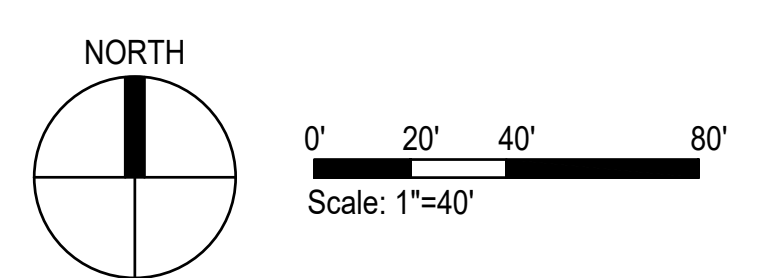
- 1 PIP CONCRETE PAVING PEDESTRIAN (L-401)
- 2 UNIT CONCRETE PAVING (PEDESTRIAN) (L-401)
- 3 ASPHALT PAVING (L-401)
- 4 POURED IN PLACE RUBBER (L-401)

**SITE FEATURES**

- 150 ADA ACCESSIBLE RAMP
- 151 STAIRS
- 153 SEAT WALL
- 154 ENTRY COURT
- 155 SEATING NODE

**SITE FURNISHINGS**

- 300 BENCH (L-402)
- 301 BICYCLE RACK (L-402)
- 302 LITTER RECEPTACLE (L-402)
- 303 LIGHT STANDARD (L-402)
- 304 GRILL STATION (L-402)
- 305 PICNIC TABLE (L-402)
- 306 NATURE BASED PLAY EQUIPMENT (L-402)
- 307 BOLLARD (L-402)



DATE: \$DATE\$ FILE: \$FILES\$



ADA DESIGN CERTIFICATION  
 "I HEREBY CERTIFY THAT THIS PLAN WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)."  
 DATE: \_\_\_\_\_ DESIGNER'S SIGNATURE: \_\_\_\_\_  
 NO. OF REGISTRATION: 000000 PROJECT NAME: \_\_\_\_\_



DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND

L-201

**LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS MATERIALS PLAN**

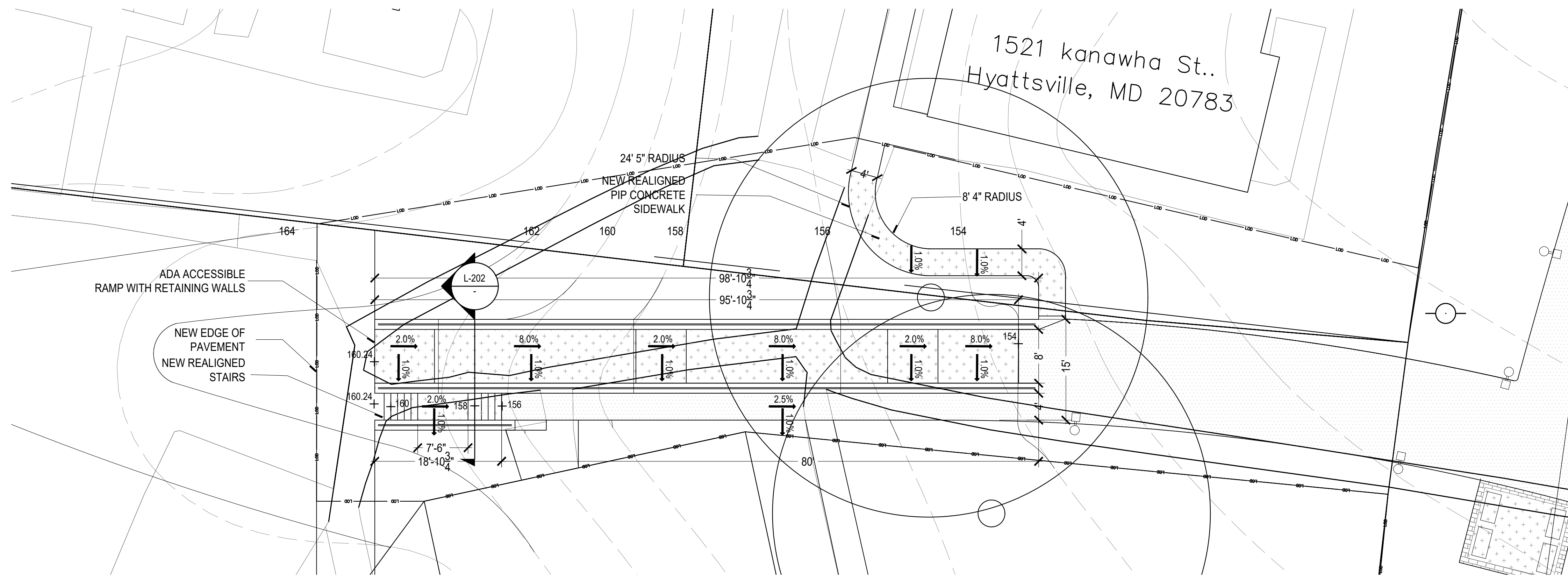
SCALE: 1"=40' DWG. 16 OF 23

APPROVED FOR TERRY BELLAMY, DIRECTOR DATE \_\_\_\_\_

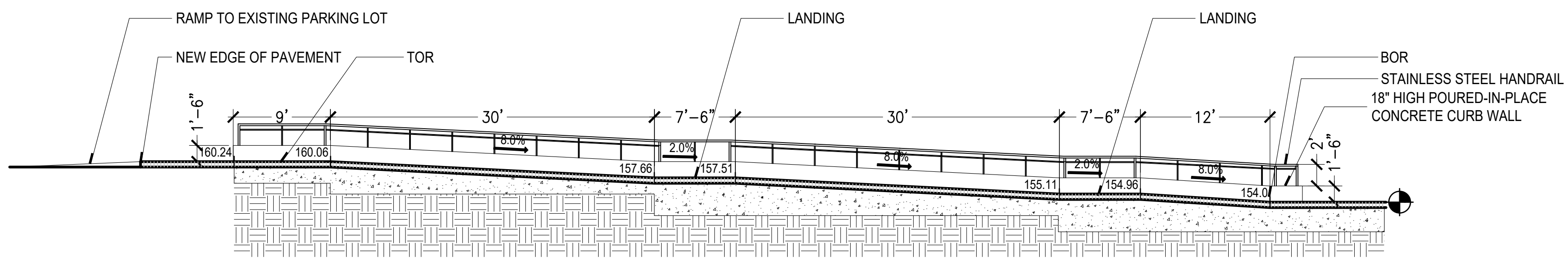
DESIGNED: JXD	CONTRACT NO. XXX
DRAWN: JXD	JOB NO. XXX
CHECKED: WRW	FILE NO. -
APPROVED: Ery T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION	DATE _____



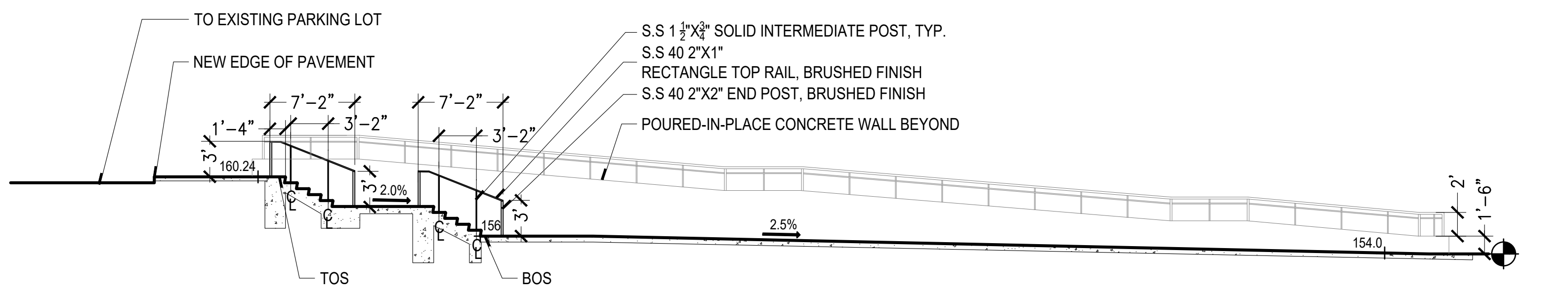
1521 Kanawha St.  
Hyattsville, MD 20783



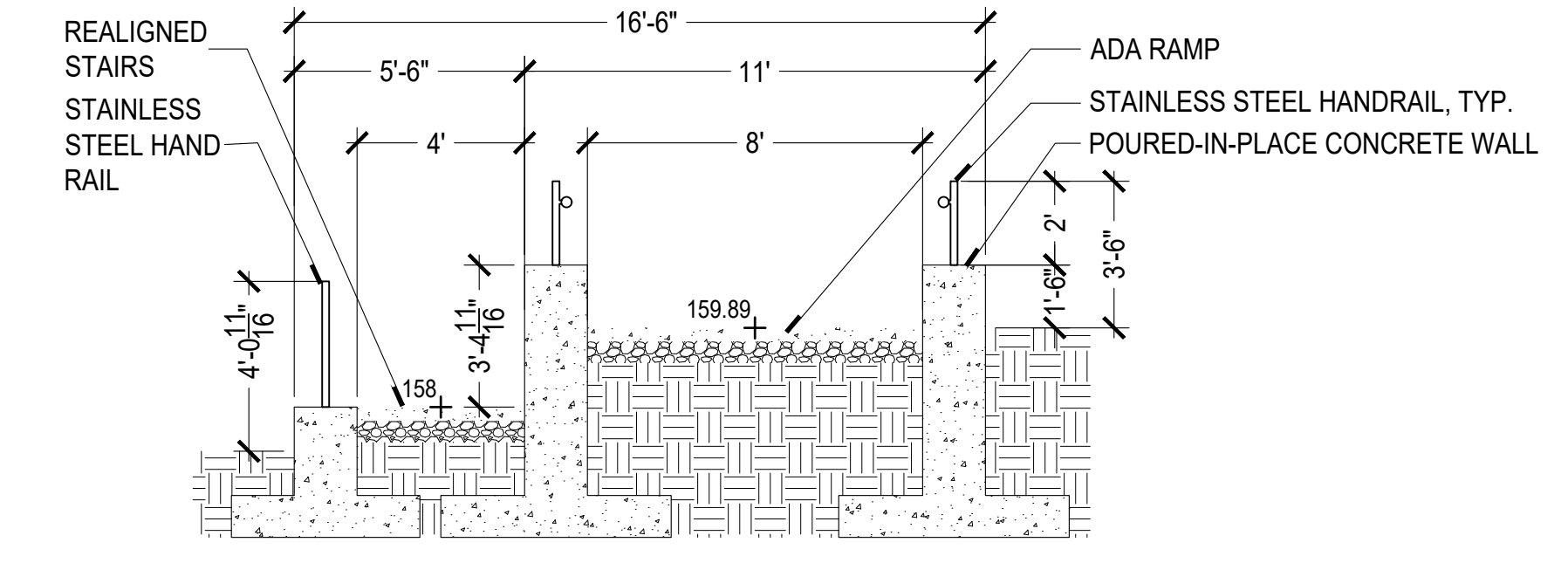
1 ADA ACCESSIBLE RAMP AND STAIRS ENLARGEMENT  
1"=10'



2 ADA ACCESSIBLE RAMP SECTION  
1/8"=1'



3 STAIRS AT ADA RAMP SECTION  
1/8"=1'



4 ADA RAMP AND STAIR SECTION  
12"=1'

L-202

LANGLEY PARK  
NEIGHBORHOOD BIKE BOULEVARDS  
MATERIALS PLAN ENLARGEMENT

SCALE: DWG. 170F2.3

APPROVED		DATE
FOR TERRY BELLAMY, DIRECTOR		
DESIGNED: JXD	CONTRACT NO. XXX	
DRAWN: JXD	ROAD NO.	JOB NO. XXX
CHECKED: WRW		
APPROVED:	FILE NO.	
Ery T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION		



DATE: \$DATE\$  
FILE: \$FILE\$

ADA DESIGN CERTIFICATION  
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).  
DATE: \_\_\_\_\_ DESIGNER'S SIGNATURE: \_\_\_\_\_  
NO. PE. REGISTRATION NO. 0000 PROJECT NAME: \_\_\_\_\_



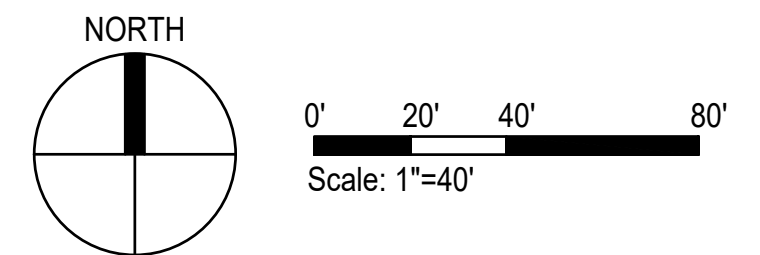
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

SEAL





- SYMBOLS LEGEND**
- LOD/LOW LIMITS OF DISTURBANCE
  - LIMITS OF WORK
  - GROUNDCOVER
  - SHRUBS
  - EXISTING TREE TO REMAIN
  - PROPOSED TREE
  - TREE TO REMOVE
  - STORMWATER MANAGEMENT AREA



DATE: \$DATE\$ FILE: \$FILES\$



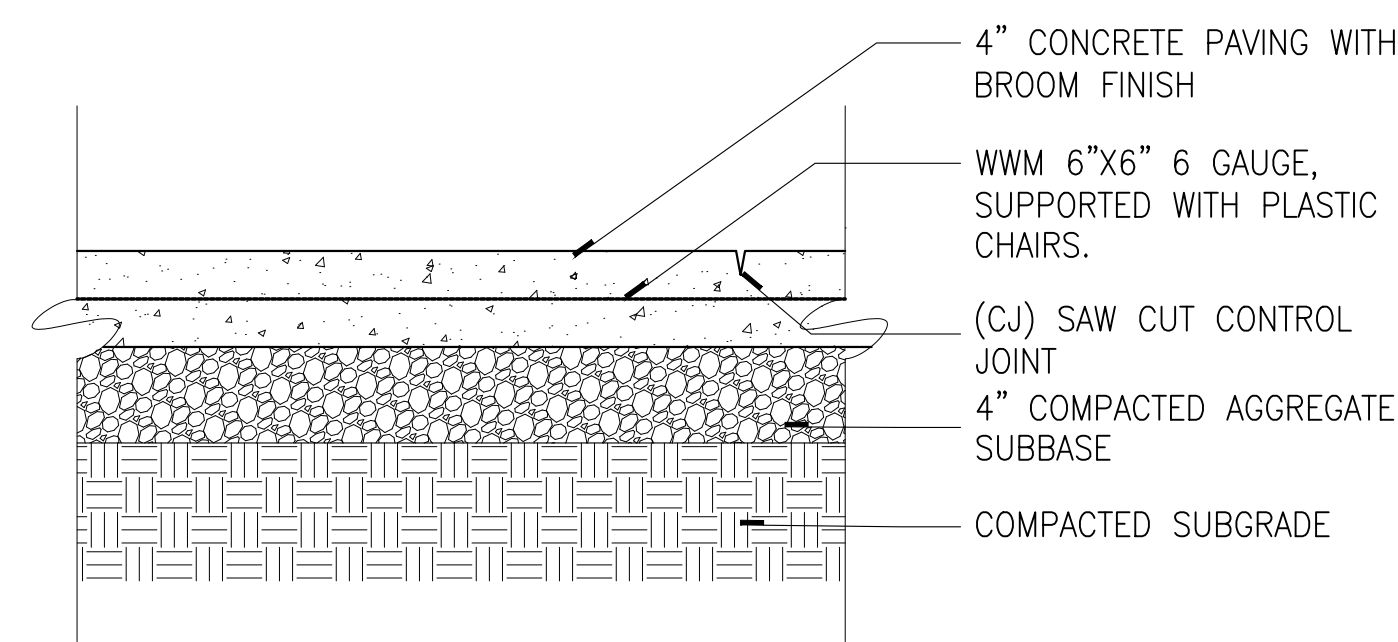
ADA DESIGN CERTIFICATION  
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).  
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 M.D. NO. REGISTRATION NO. XXXX PROJECT NAME: \_\_\_\_\_



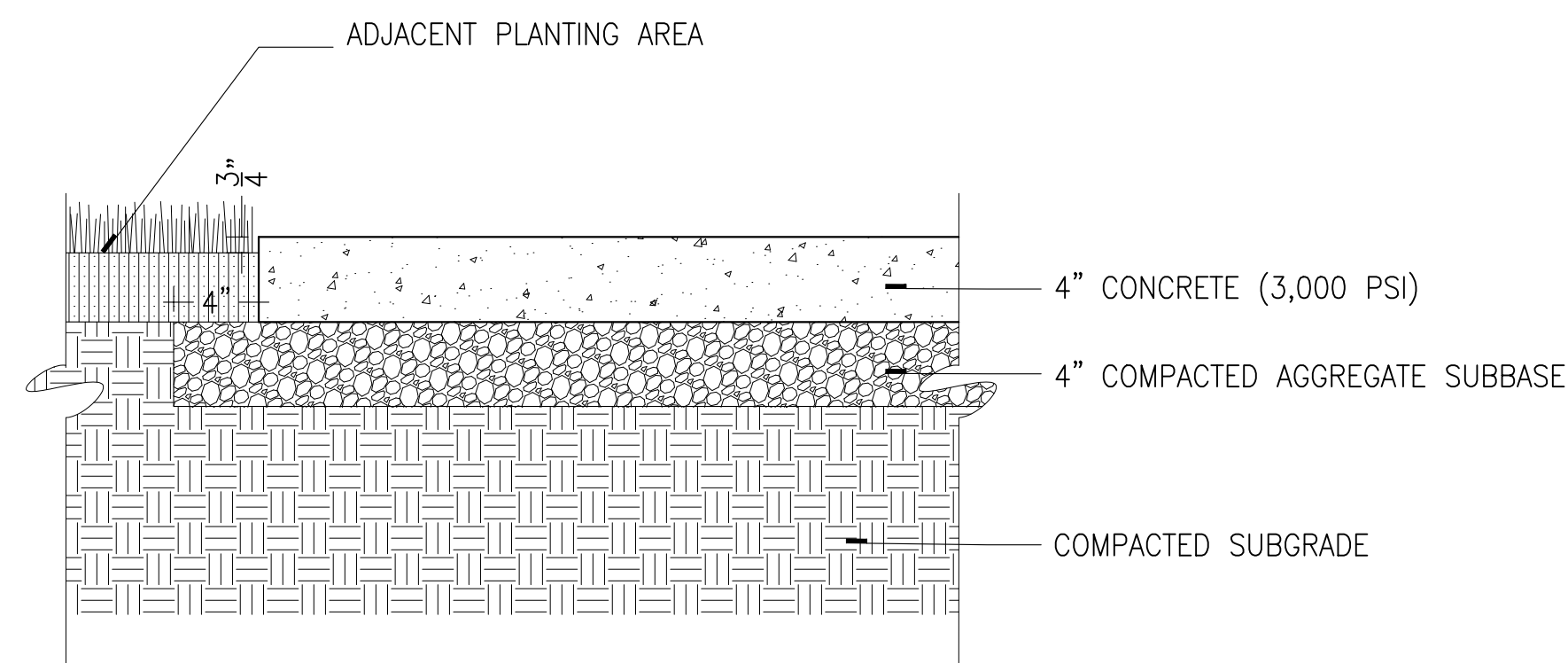
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
 PRINCE GEORGE'S COUNTY, MARYLAND

LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS PLANTING PLAN		L-301
SCALE: 1"=40'	DWG.	18 OF 23
APPROVED		
FOR TERRY BELLAMY, DIRECTOR		DATE
DESIGNED: JXD	CONTRACT NO. XXX	
DRAWN: JXD	JOB NO. XXX	
CHECKED: WRW	FILE NO. -	
APPROVED: _____	DATE	
Erv T. Becker, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION		

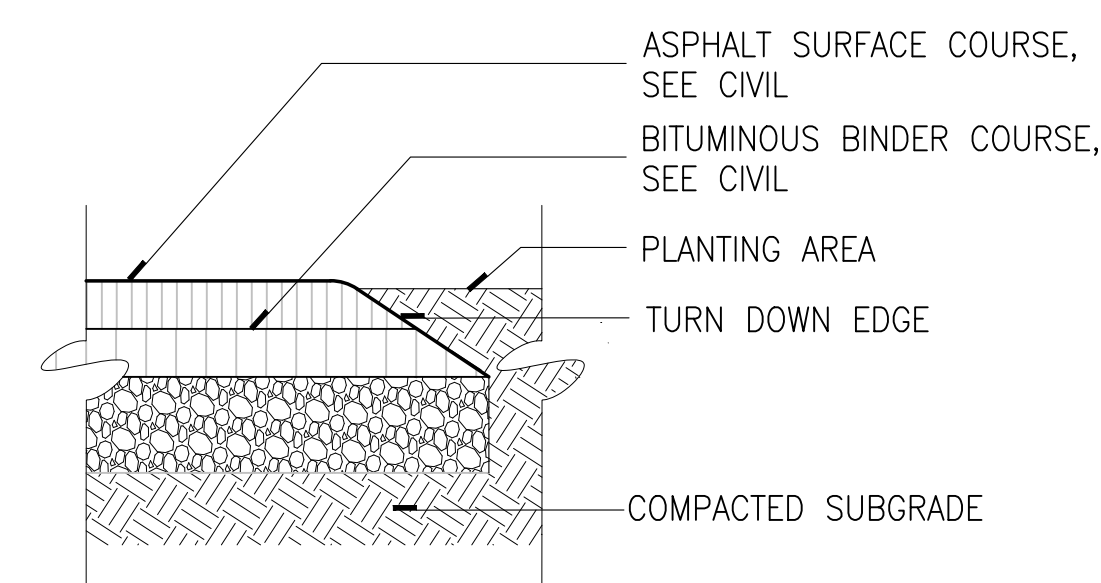




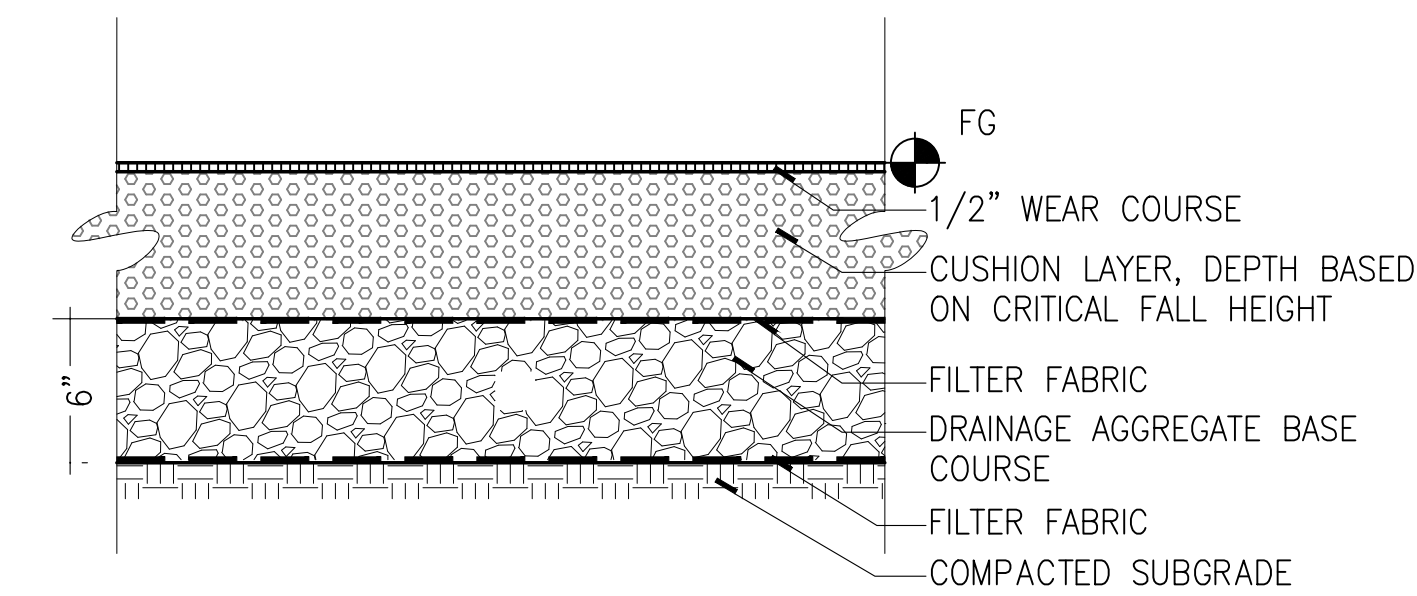
① CONCRETE PAVING— TYPICAL SECTION  
1-1/2"=1'



② CONCRETE PAVING AT PLANTING— TYPICAL SECTION  
1-1/2"=1'

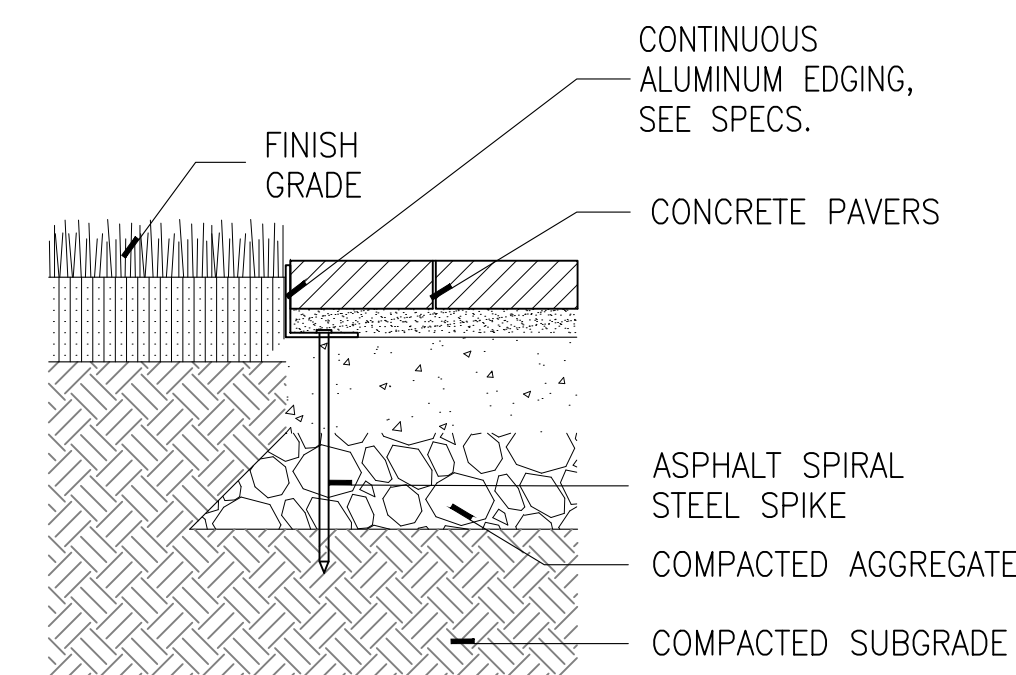


③ ASPHALT PAVING — PEDESTRIAN CONDITION  
1-1/2"=1'

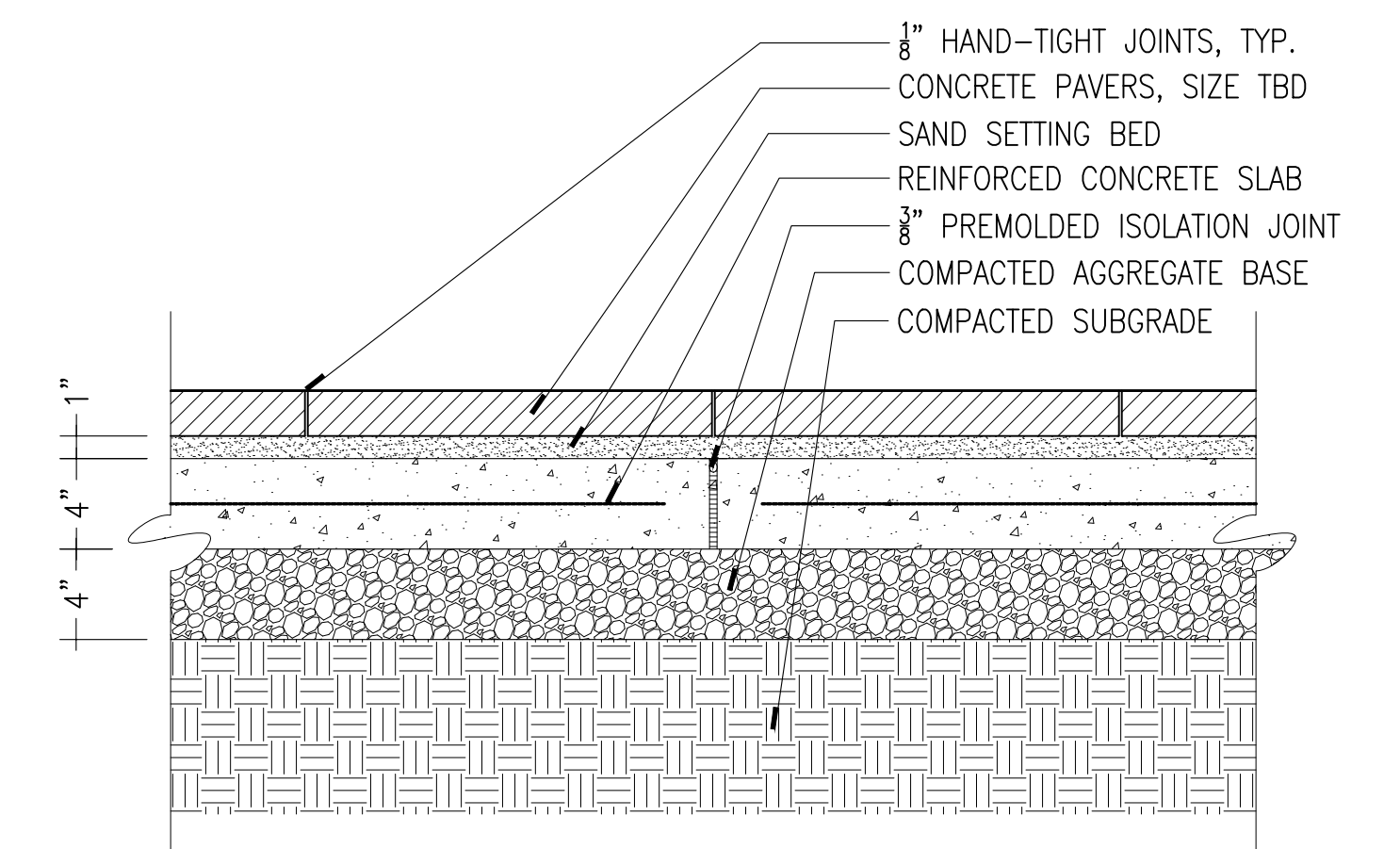


NOTE: SECTION SHALL MEET ALL APPLICABLE REQUIREMENTS OF ASTM F1292. MANUFACTURER/CONTRACTOR MUST PROVIDE APPROPRIATE THICKNESS OF SURFACING BASED ON THE FALL HEIGHTS OF THE PROPOSED EQUIPMENT. CONTRACTOR TO PROVIDE SHOP DWGS. SHOWING DEPTH OF CUSHION LAYER BASED ON FALL HEIGHTS.

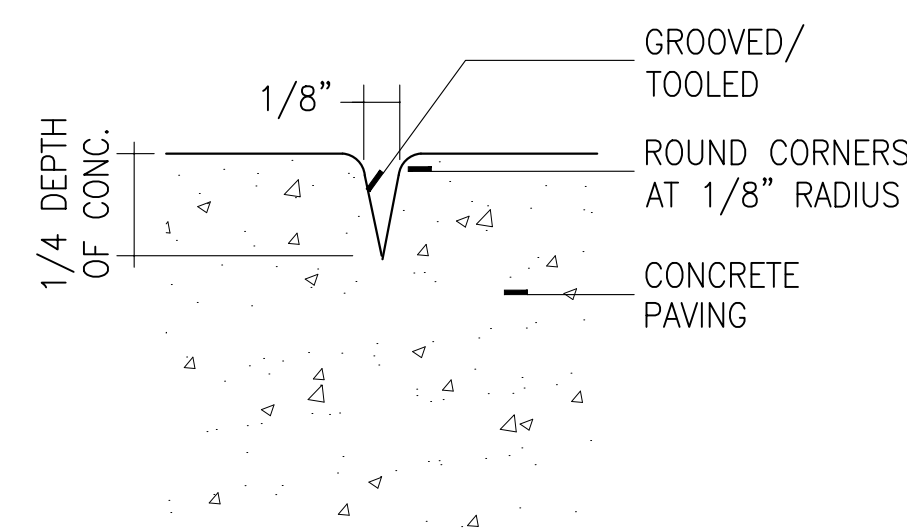
④ POURED IN PLACE RUBBER — TYPICAL SECTION  
1 1/2"=1'



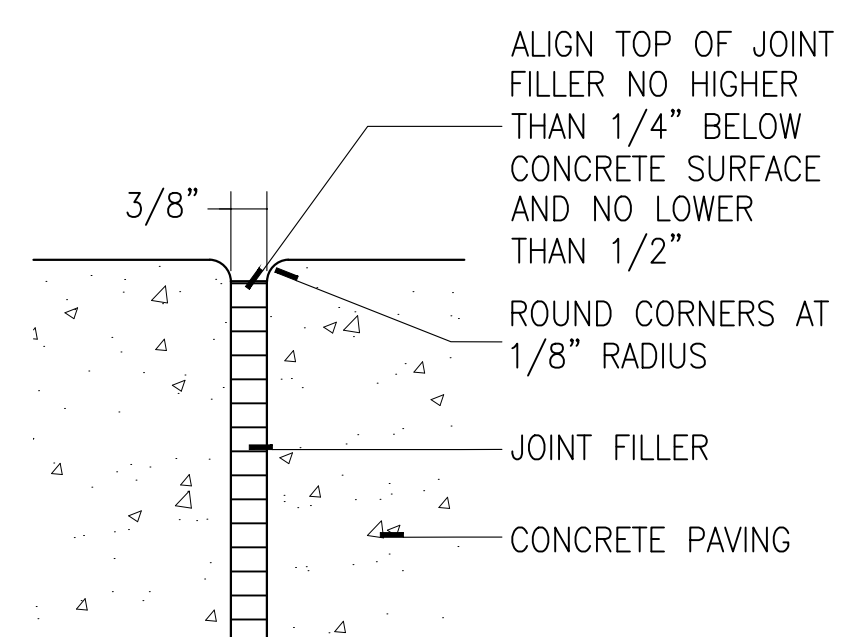
⑤ ALUMINUM EDGING CONCRETE UNIT PAVERS (ASPHALT BASE)  
1-1/2"=1'-0"



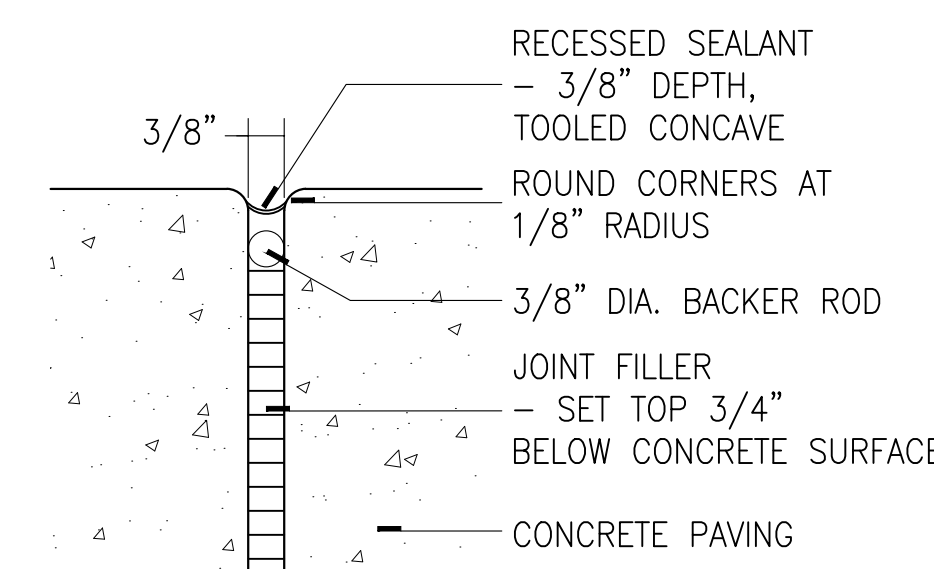
⑥ CONCRETE PAVER — TYPICAL SECTION  
1-1/2"=1'-0"



⑦ CONTRACTION JOINT (CJG)  
3"=1'

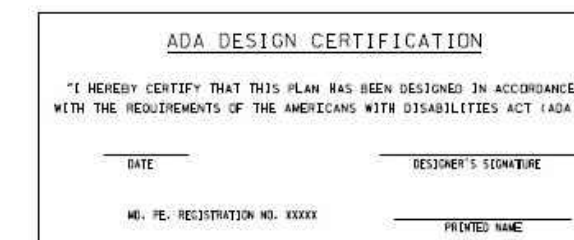


⑧ ISOLATION JOINT (IJ)  
3"=1'



⑨ ISOLATION JOINT (IJS)  
3"=1'

DATE: \$DATE\$  
FILE: \$FILE\$



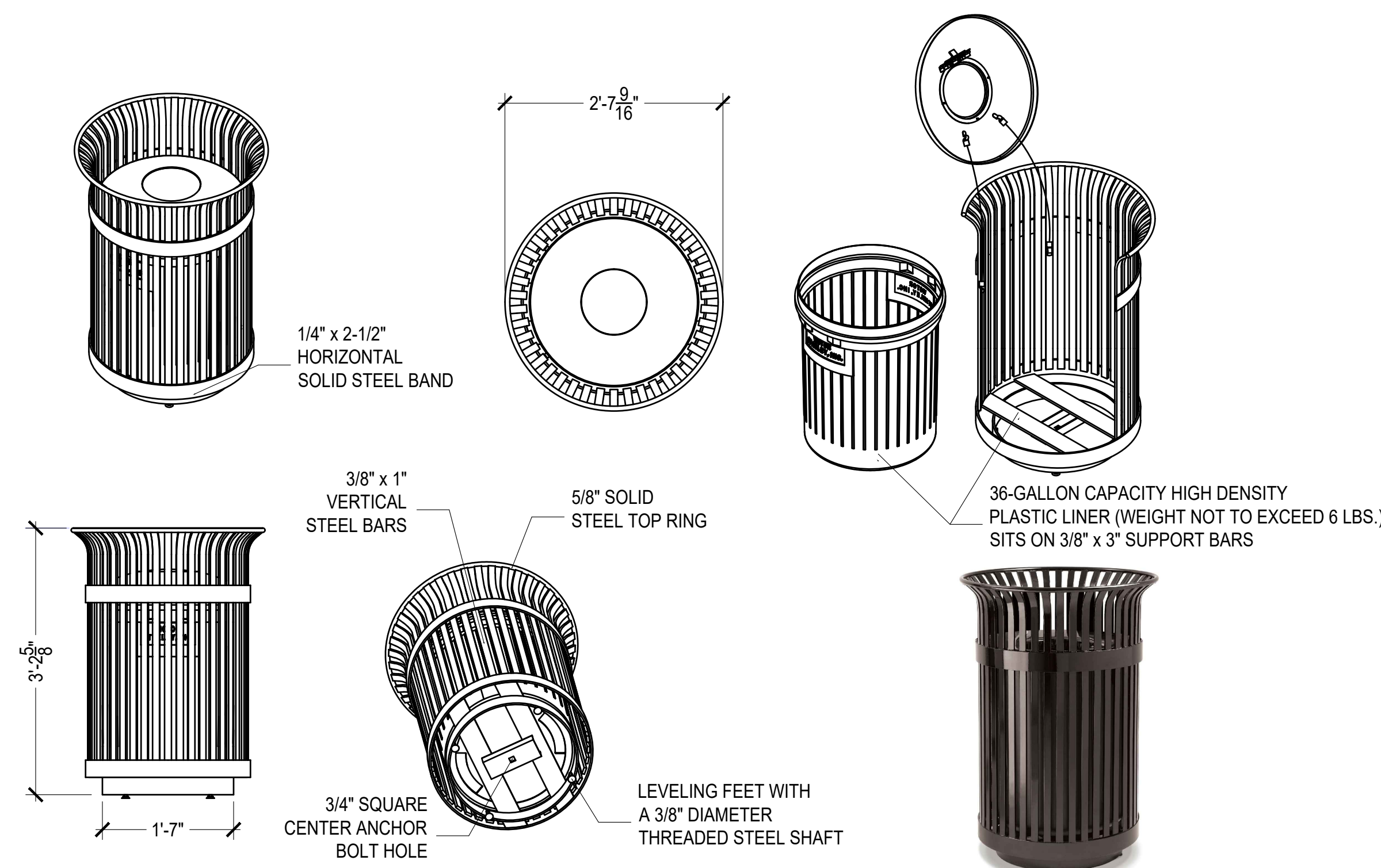
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

SEAL

LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS PAVING DETAILS			
N/A			
SCALE:	DWG.	190P2.3	
APPROVED			
FOR TERRY BELLAMY, DIRECTOR		DATE	
DESIGNED: JXD			CONTRACT NO. XXX
DRAWN: JXD			ROAD NO. —
CHECKED: WRW			JOB NO. XXX
APPROVED:			FILE NO. —
Eric T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION			DATE

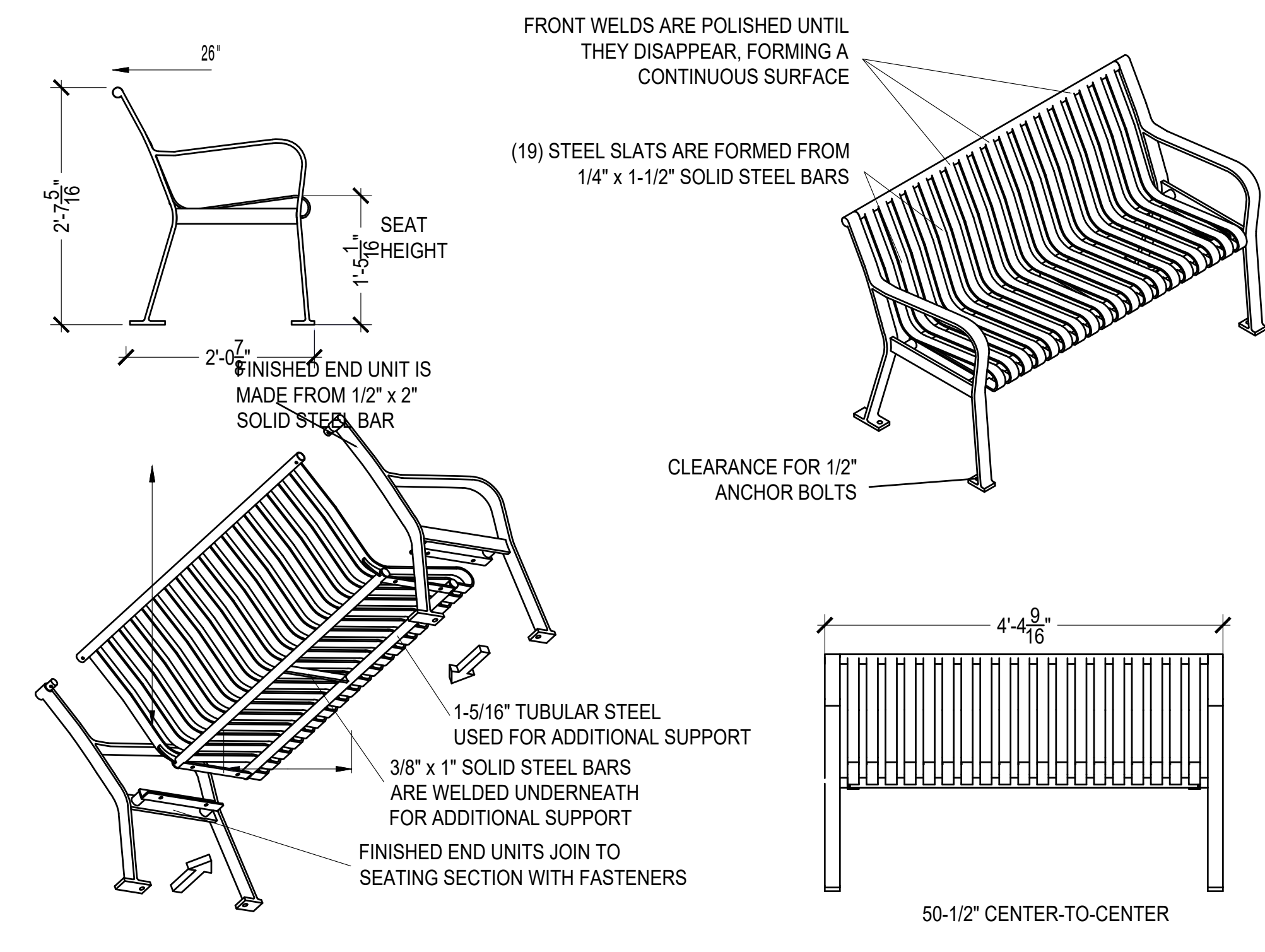
L-401





1 WASTE RECEPTACLE  
VICTOR STANLEY, S-42  
3/4"=1'

CHARACTER IMAGE

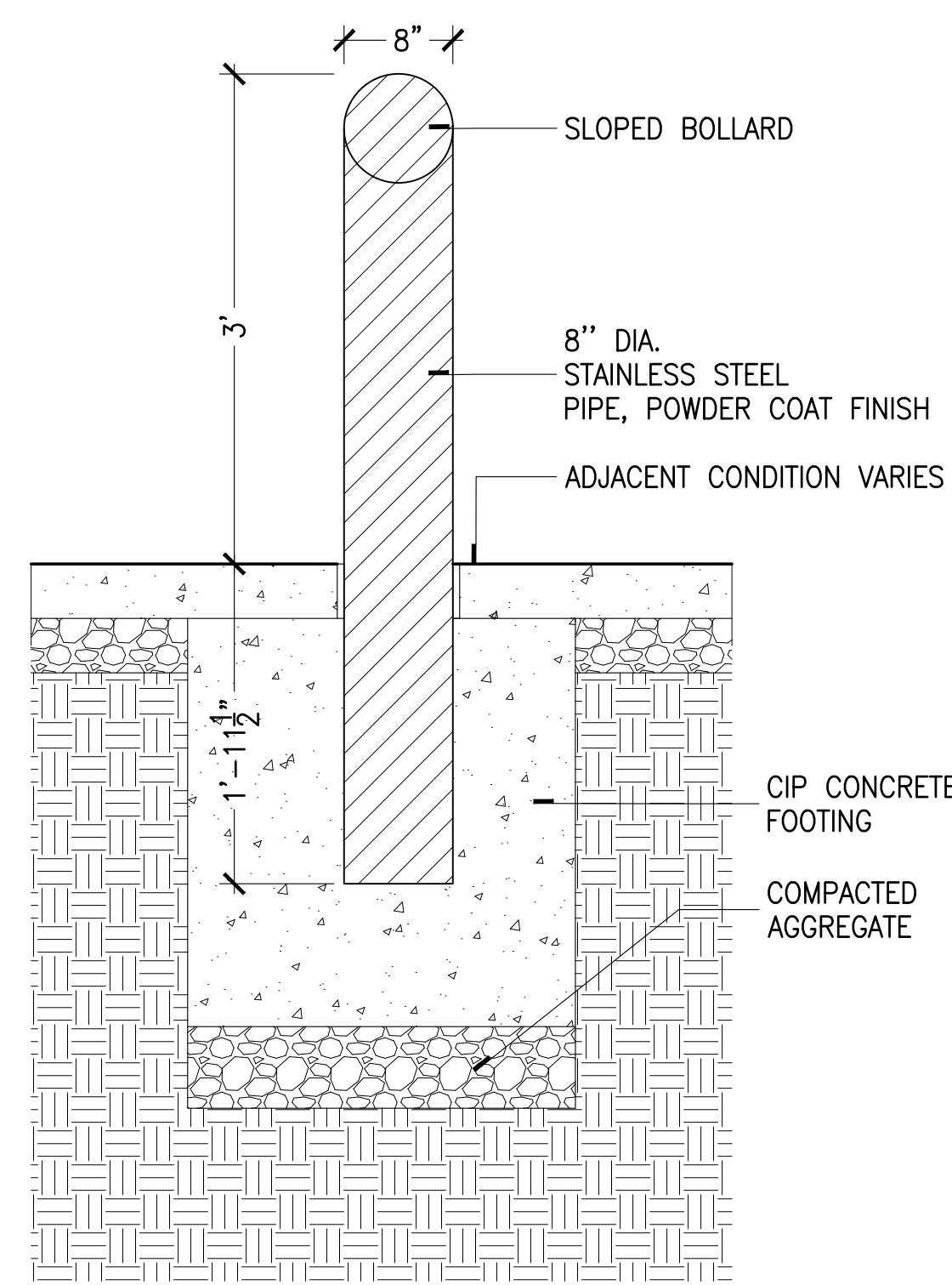


2 BENCH  
VICTOR STANLEY, RB-28  
3/4"=1'

CHARACTER IMAGE



3 LED SHOE-BOX LIGHT FIXTURE - FYTLED  
NTS



4 BOLLARD  
1"=1'-0"



6 PICNIC TABLE - LANDSCAPE FORMS  
NTS



7 ADA ACCESSIBLE GRILL STATION  
NTS



8 NATURALIZED PLAY AREA  
NTS

DATE: \$DATE\$  
FILE: \$FILES\$



ADA DESIGN CERTIFICATION  
"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)."  
DATE: \_\_\_\_\_ DESIGNER'S SIGNATURE: \_\_\_\_\_  
NO. P.E. REGISTRATION NO. XXXX PROJECT TITLE: \_\_\_\_\_



DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

SEAL

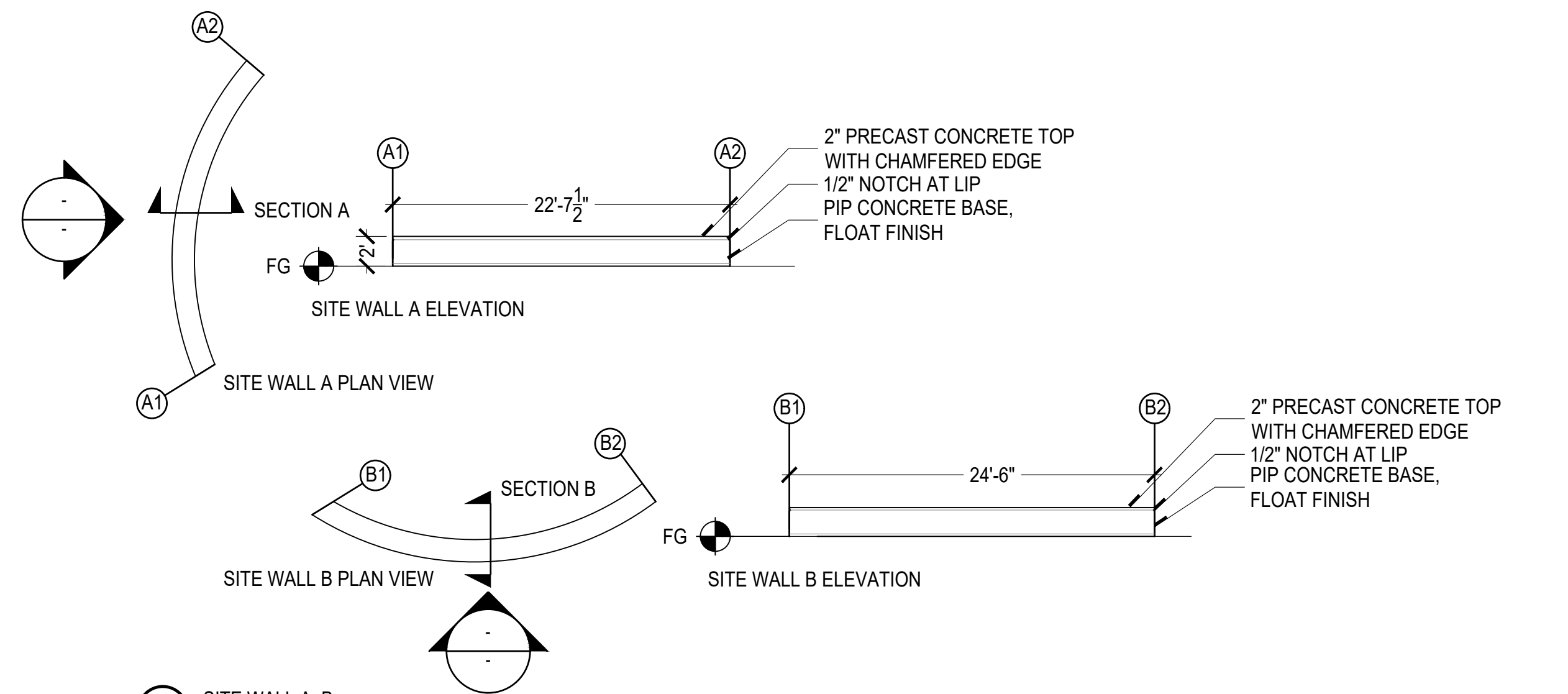
LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS FURNISHING DETAILS	
SCALE: N/A	DWG. 20 OF 23
APPROVED _____ FOR TERRY BELLAMY, DIRECTOR	DATE _____
DESIGNED: JXD	CONTRACT NO. XXXX
DRAWN: JXD	ROAD NO. XXX
CHECKED: WRW	JOB NO. XXX
APPROVED: _____	FILE NO. _____
Ervin T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION	DATE _____

L-402

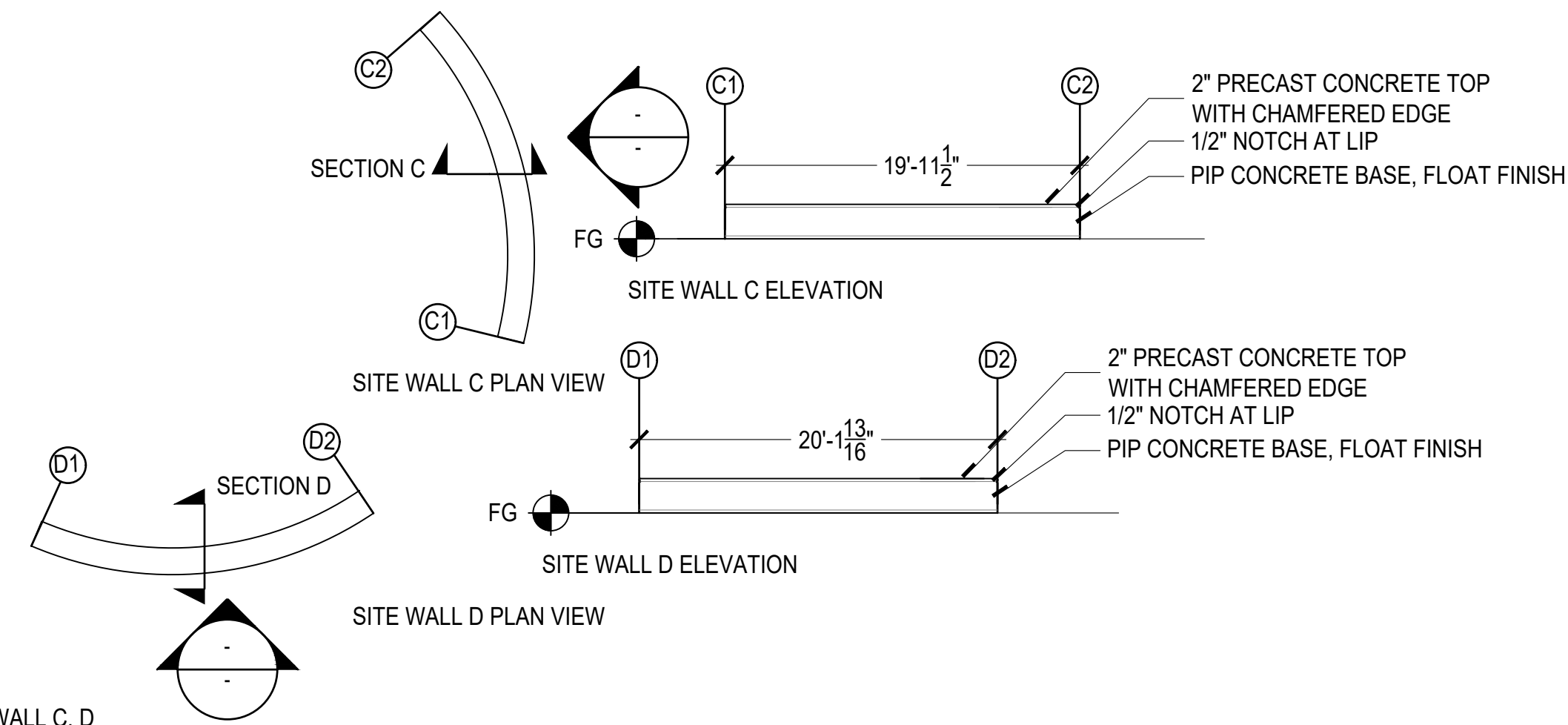




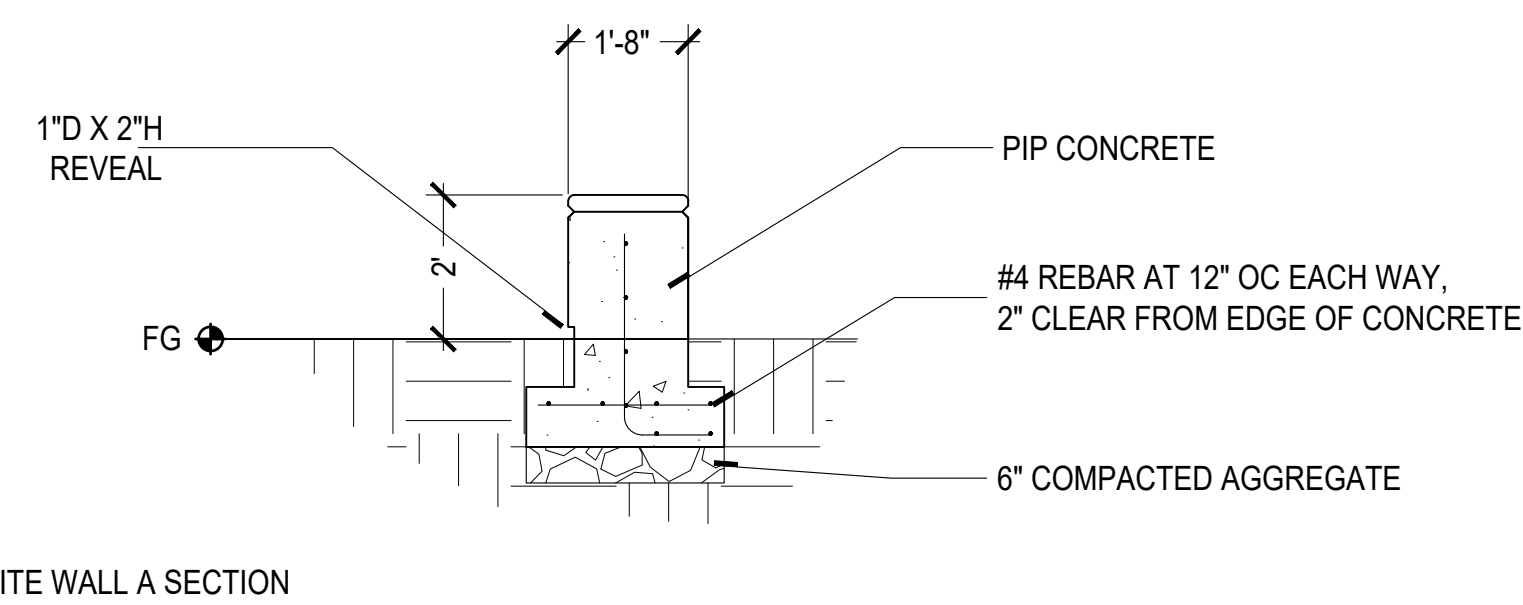
CHARACTER IMAGE



1 SITE WALL A, B  
1/8"=1'

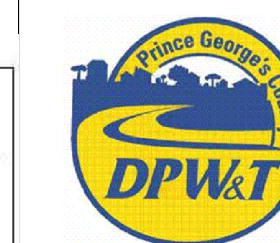


2 SITE WALL C, D  
1/8"=1'



3 SITE WALL SECTION - TYP.  
3/8"=1'

DATE: \$DATE\$  
FILE: \$FILE\$



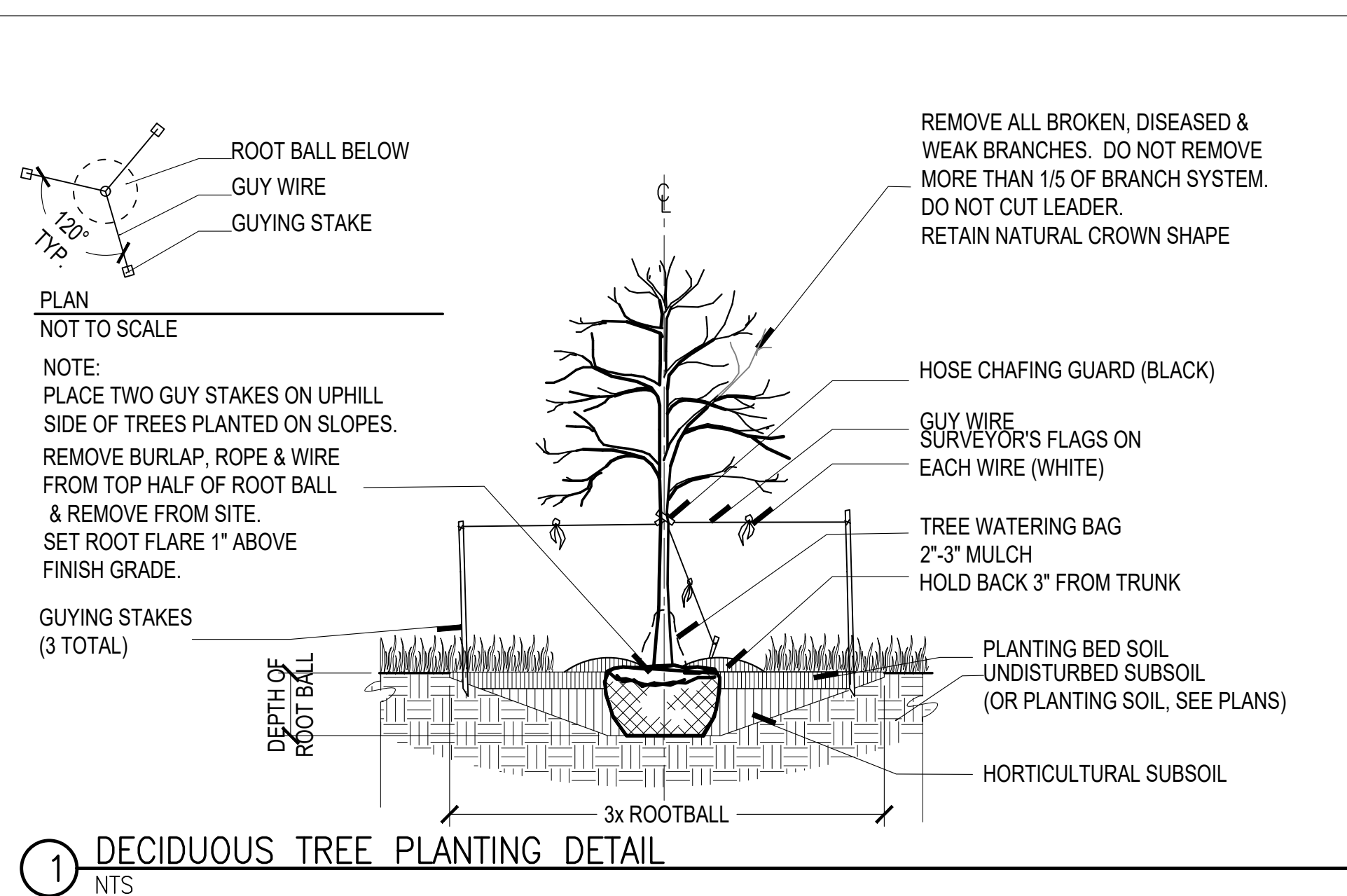
DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

SEAL

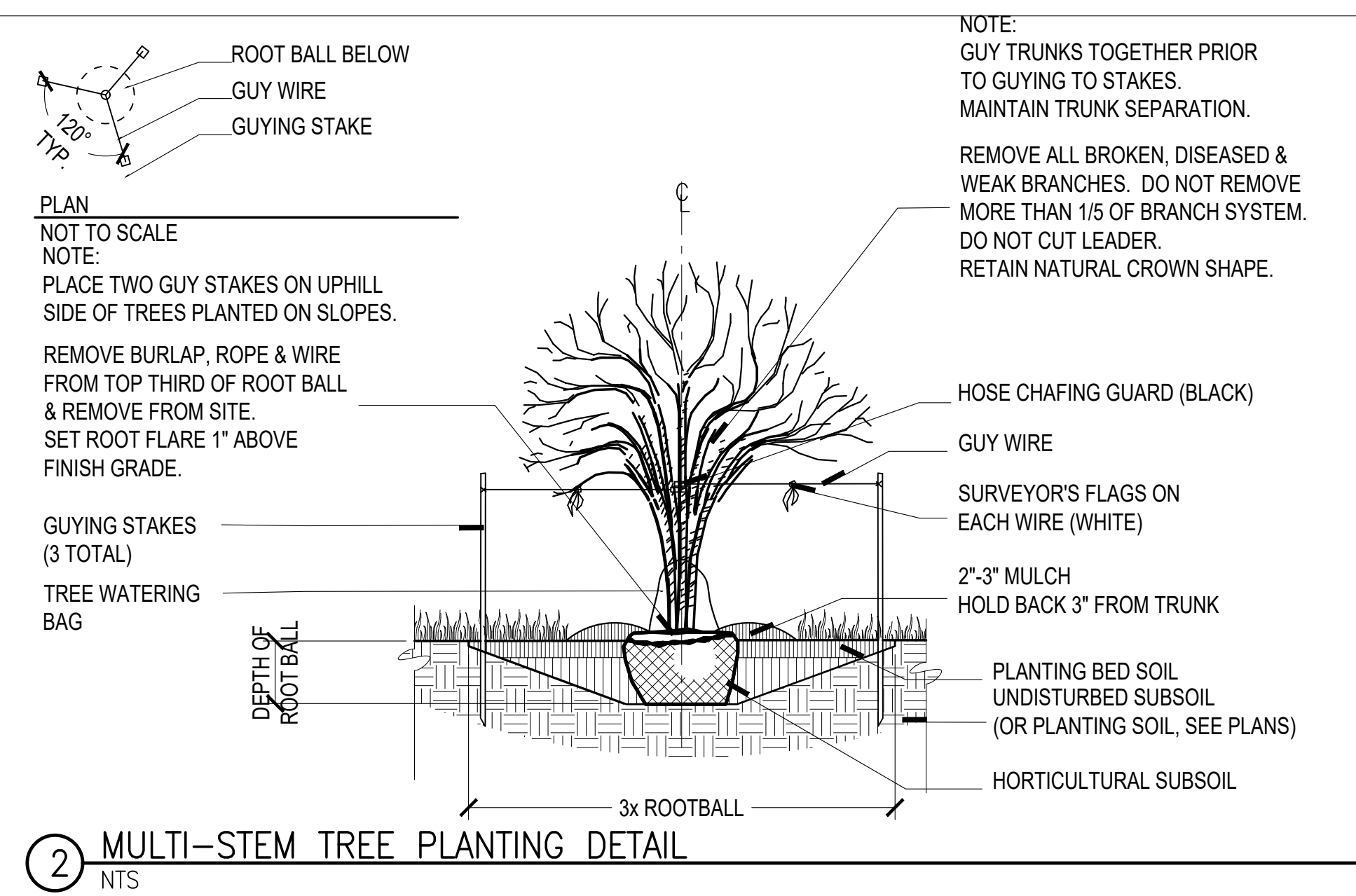
LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS SITE WALL DETAILS	
SCALE: N/A	DWG. 210F23
APPROVED _____ FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE _____
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. _____
APPROVED: _____	JOB NO. XXX
Ervin T. Beckert, P.E., CHIEF, HIGHWAY AND BRIDGE DESIGN DIVISION	FILE NO. _____

L-403

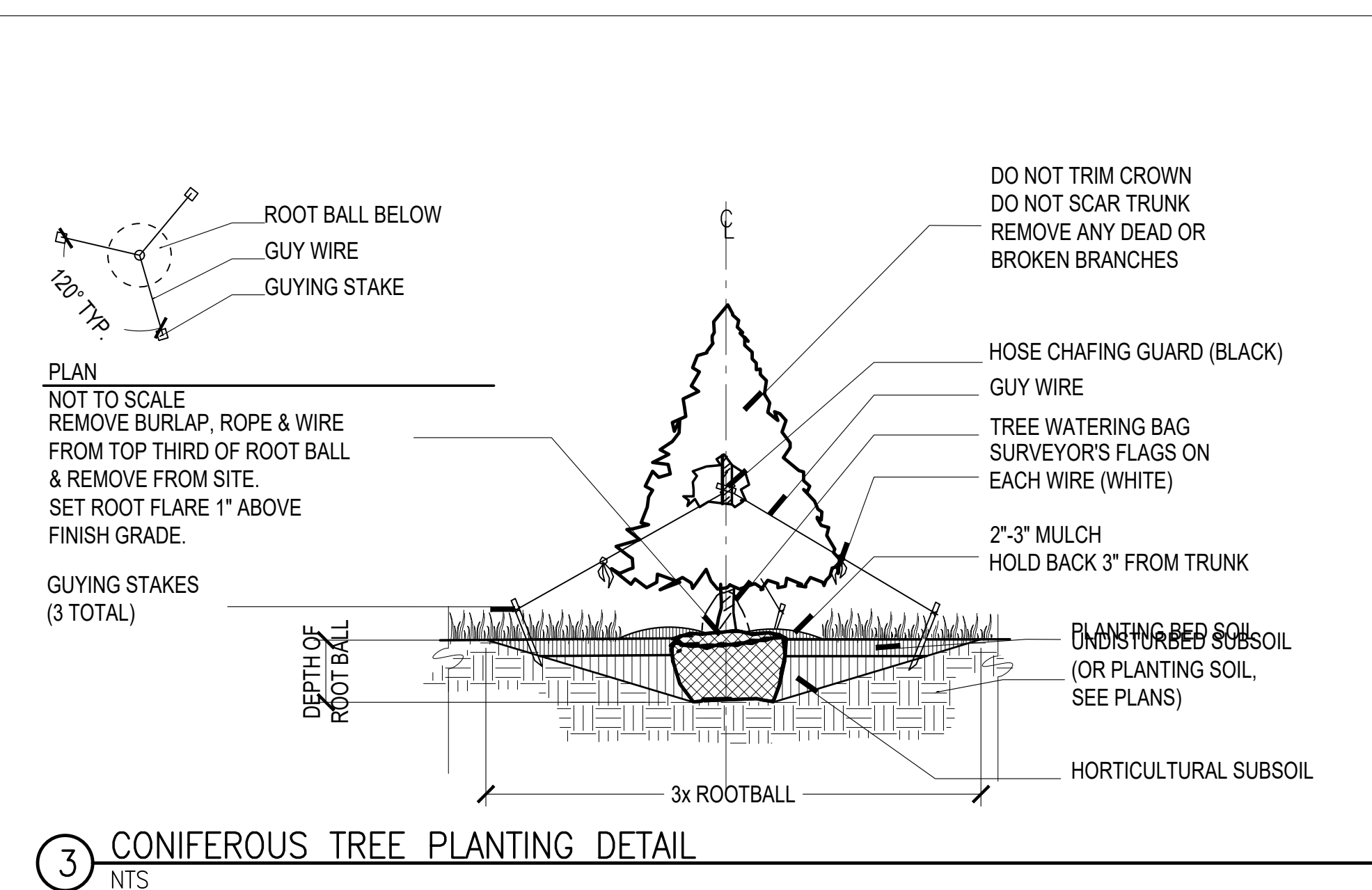




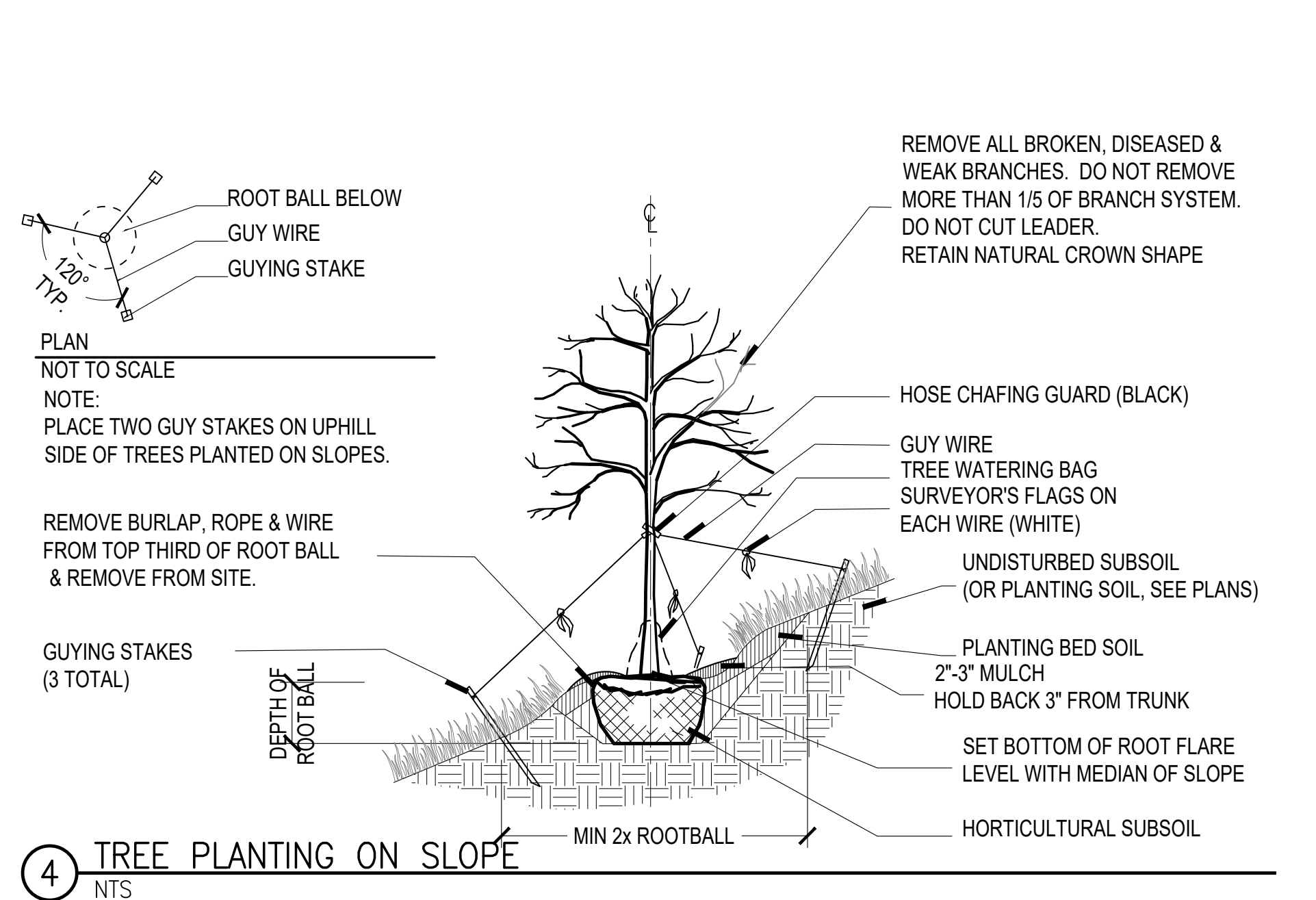
1 DECIDUOUS TREE PLANTING DETAIL  
NTS



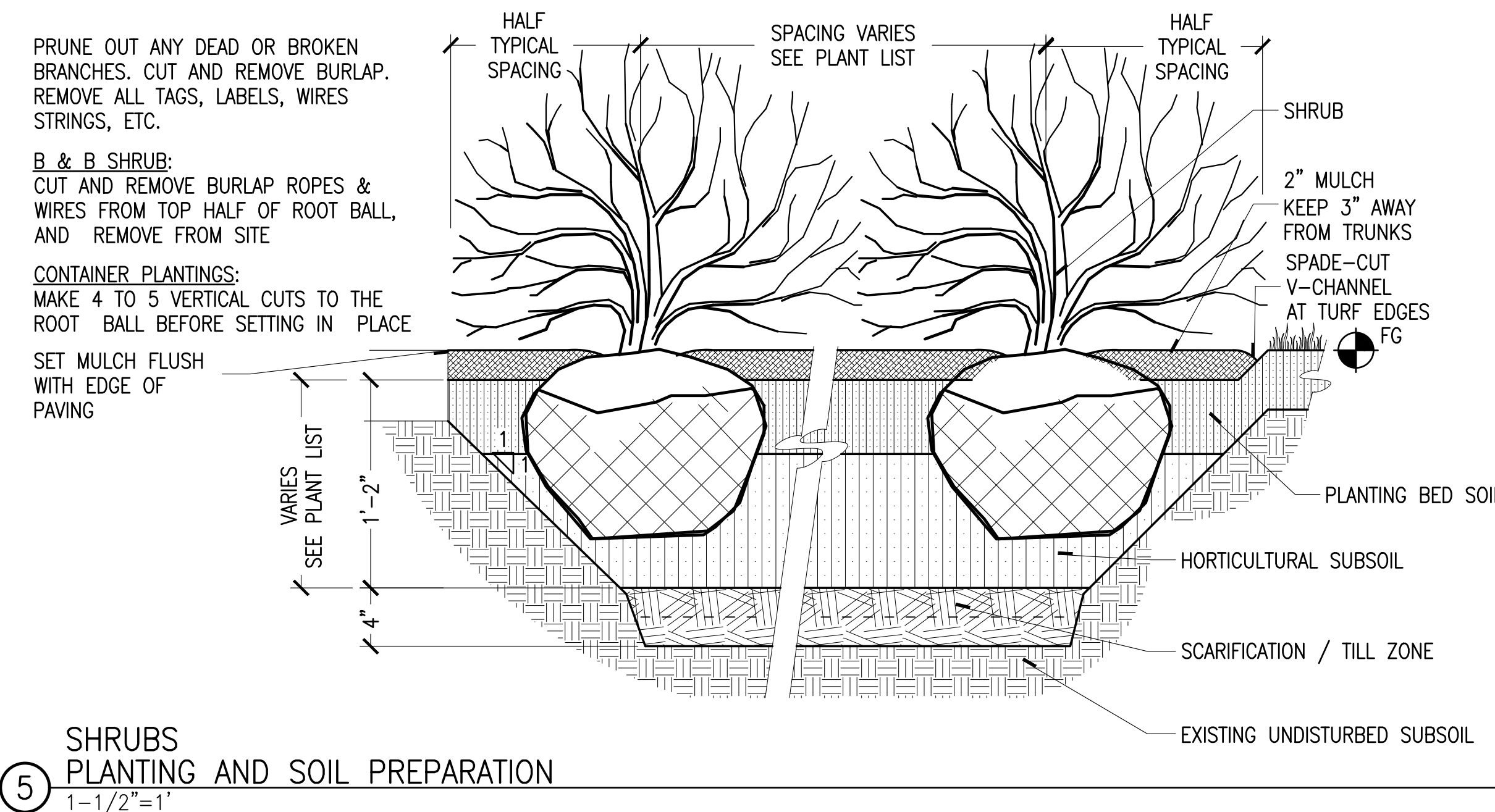
2 MULTI-STEM TREE PLANTING DETAIL  
NTS



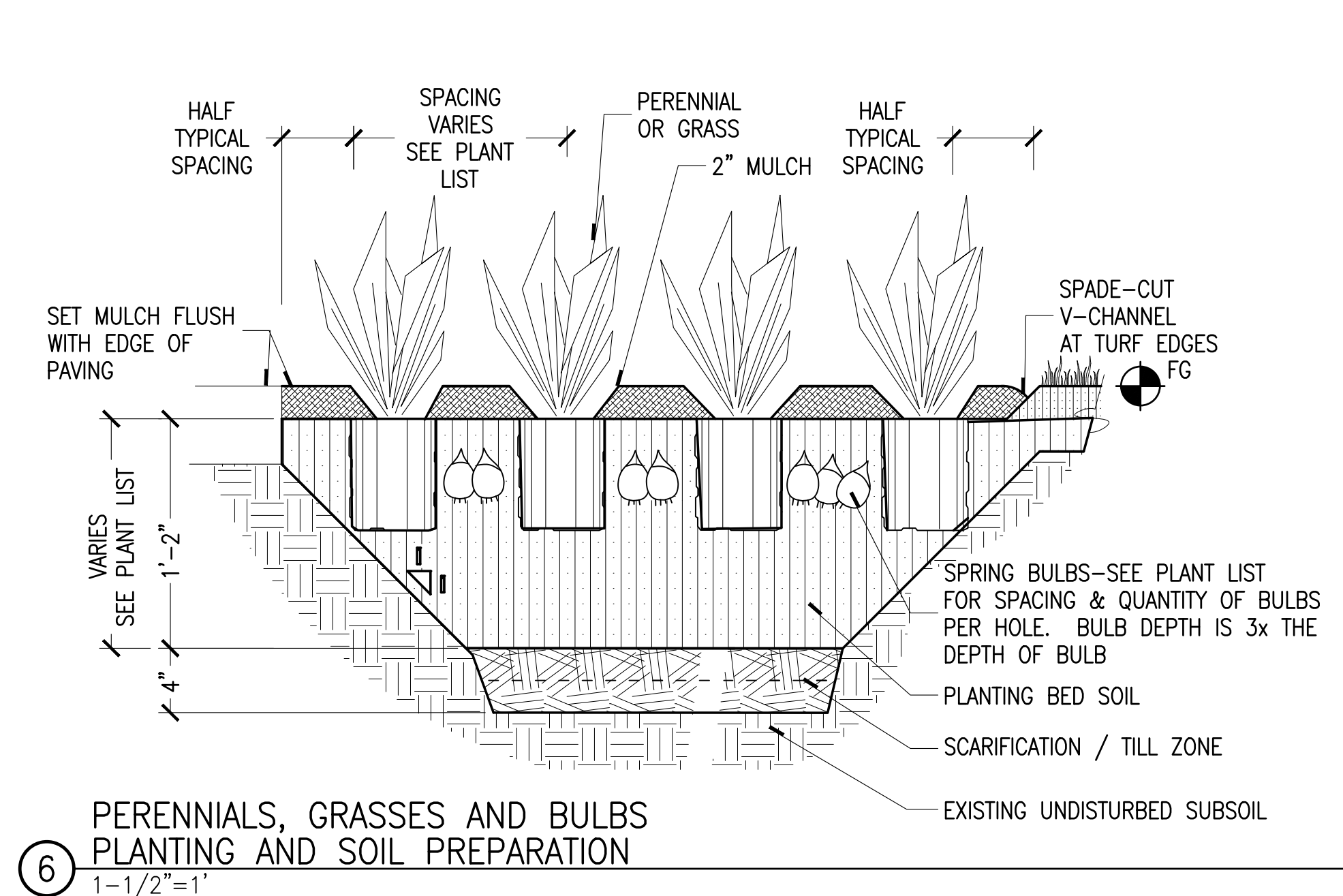
3 CONIFEROUS TREE PLANTING DETAIL  
NTS



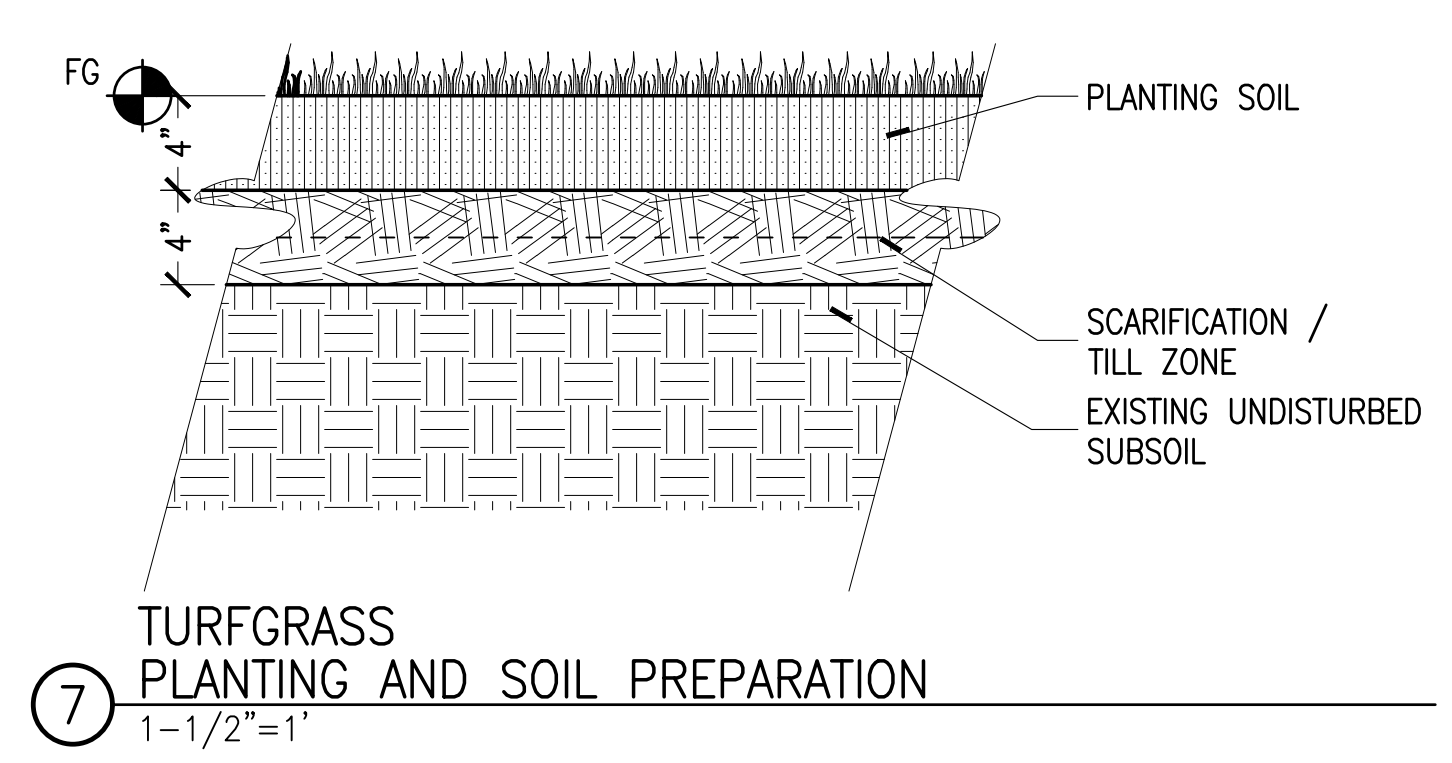
4 TREE PLANTING ON SLOPE  
NTS



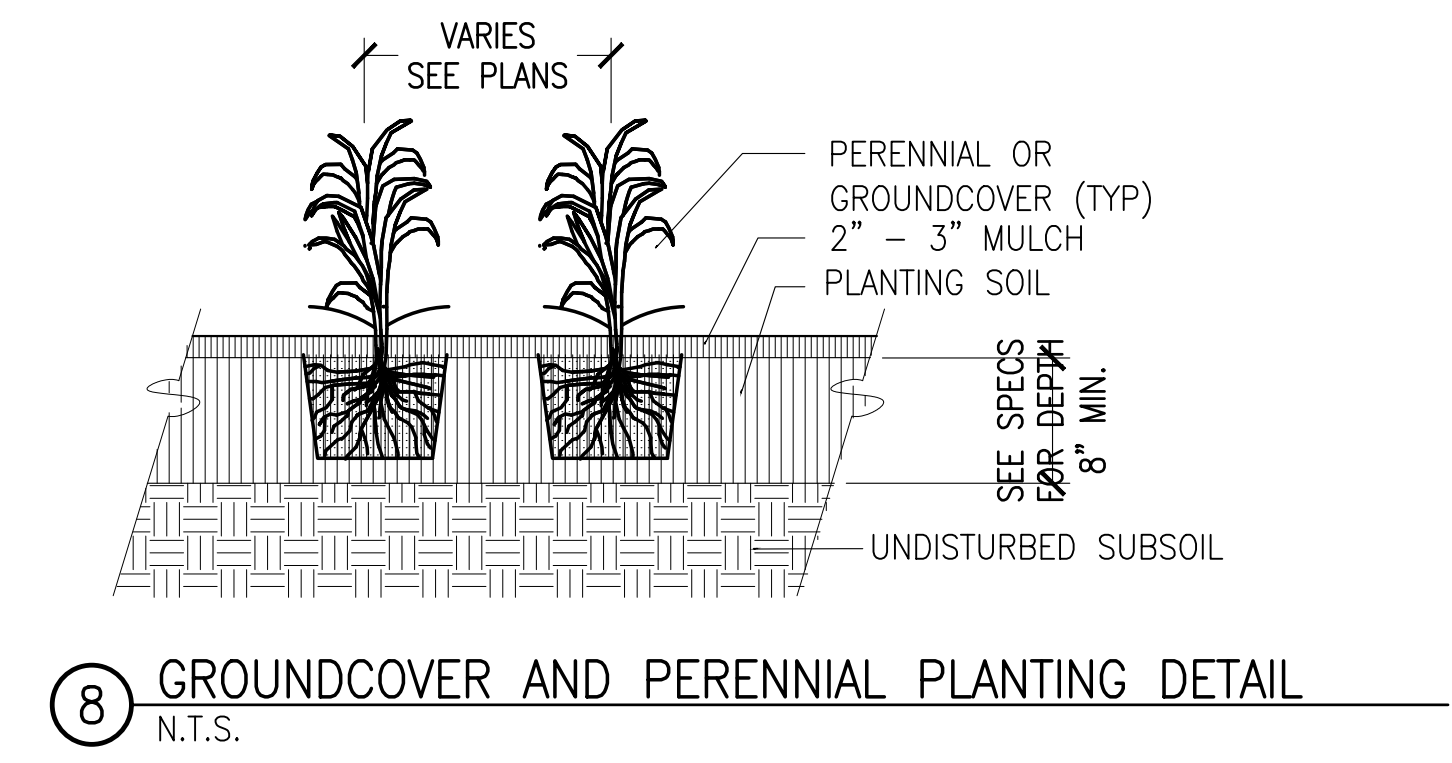
5 SHRUBS PLANTING AND SOIL PREPARATION  
1-1/2"=1'



6 PERENNIALS, GRASSES AND BULBS PLANTING AND SOIL PREPARATION  
1-1/2"=1'



7 TURFGRASS PLANTING AND SOIL PREPARATION  
1-1/2"=1'



8 GROUNDCOVER AND PERENNIAL PLANTING DETAIL  
N.T.S.

DATE: \$DATE\$  
FILE: \$FILE\$



DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS PLANTING DETAILS	
SCALE: N/A	DWG. 22 OF 23
APPROVED FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. JOB NO. XXX
APPROVED:	FILE NO. XXX
Erin T. Beckert, P.E., CHIEF HIGHWAY AND BRIDGE DESIGN DIVISION	DATE

L-601

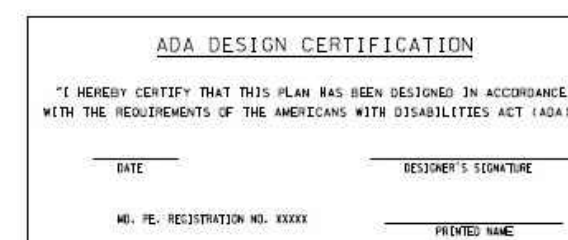
SEAL



Riggs Road Shared Use Path Bike Boulevard Planting Schedule

Category	Scientific Name	Common Name	Size	Type	Notes
Large Shade Tree	Acer rubrum	Red Maple	3" Cal.	B&B	Regional Native
	Quercus palustris	Pin Oak	3" Cal.	B&B	Regional Native
Ornamental Tree	Amelanchier canadensis	Serviceberry	8' Ht.	B&B	Regional Native
	Cercis canadensis	Eastern Redbud	8' Ht.	B&B	Regional Native
	Chionanthus virginicus	Fringe Tree	8' Ht.	B&B	Regional Native
Shrubs	Caryopteris x clandonensis	Bluebeard	5 Gal.	Cont.	Regional Native
	Hamamelis virginiana	Common Witch Hazel	5 Gal.	Cont.	Regional Native
	Ilex verticillata	Winterberry	5 Gal.	Cont.	
	Lindera benzoin	Spicebush	5 Gal.	Cont.	Regional Native
	Rhododendron maximum	Rosebay Rhododendron	7 Gal.	Cont.	Regional Native
	Viburnum plicatum tomentosum `Summer Snowflake`	Summer Snowflake Japanese Snowball	5 Gal.	Cont.	
	Viburnum rhytidophyllum	Leatherleaf Viburnum	5 Gal.	Cont.	
Stormwater Planting	Acorus calamus	Sweet Flag	Plug	Flat	Regional Native
	Asclepias incarnata	Swamp Milkweed	1 Qt.	Cont.	Regional Native
	Carex secta	Sedge	Plug	Flat	Regional Native
	Cephalanthus occidentalis	Buttonbush	5 Gal.	Cont.	Regional Native
	Echinacea pallida	Pale Coneflower	1 Qt.	Cont.	Regional Native
	Helianthus angustifolius	Swamp Sunflower	1 Qt.	Cont.	Regional Native
	Peltandra virginica	Arrow Arum	1 Qt.	Cont.	Regional Native
	Pontederia cordata	Pickerel Weed	1 Qt.	Cont.	Regional Native
	Sagittaria latifolia	Lance-Leafed Arrowhead	1 Qt.	Cont.	Regional Native

DATE: \$DATE\$  
FILE: \$FILE\$



DEPARTMENT OF PUBLIC WORKS  
AND TRANSPORTATION  
PRINCE GEORGE'S COUNTY, MARYLAND

SEAL

L-602	
<b>LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS PLANTING SCHEDULE</b>	
N/A	
SCALE:	DWG. 23 OF 23
APPROVED	
FOR TERRY BELLAMY, DIRECTOR	
DESIGNED: JXD	DATE
DRAWN: JXD	CONTRACT NO. XXX
CHECKED: WRW	ROAD NO. XXX
APPROVED:	JOB NO. XXX
Erin T. Beckert, P.E., CHIEF	FILE NO. --
HIGHWAY AND BRIDGE DESIGN DIVISION	DATE



**Prince George's County Government**  
**Department of Public Works and Transportation**  
**Office of Engineering and Project Management**  
**Highway and Bridge Design Division**  
**LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS**  
**Cost Estimate - Order of Magnitude**

SCOPE OF WORK  
 ON-STREET SECTIONS (KEOKEE ST, JASMINE TER., KANAWHA ST., & 15TH AVE.)  
 OFF-STREET SECTIONS (NEW RIGGS ROAD SHARED USE PATH)

ID	Item Description	Quantity	Unit	Cost	Total
	ON-STREET SECTIONS (KEOKEE ST, JASMINE TER., KANAWHA ST., & 15TH AVE.)	1	LS	\$ 2,227,144.70	\$ 2,227,144.70
	OFF-STREET SECTIONS (NEW RIGGS ROAD SHARED USE PATH)	1	LS	\$ 2,808,816.86	\$ 2,808,816.86
				<b>Cost Estimate:</b>	<b>\$ 5,035,961.56</b>



**Prince George's County Government**  
**Department of Public Works and Transportation**  
**Office of Engineering and Project Management**  
**Highway and Bridge Design Division**  
**LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS**  
**Cost Estimate - Order of Magnitude**

SCOPE OF WORK  
LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS  
ON-STREET SECTIONS (KEOKEE ST, JASMINE TER., KANAWHA ST., & 15TH AVE.)

ID	Item Description	Quantity	Unit	Cost	Total
CAT 1	PRELIM.ITEMS (50% Cat. 2,4,5,6)	1	LS	\$ 404,165.17	\$ 404,165.17
				<b>Subtotal CAT 1</b>	<b>\$ 404,165.17</b>
CAT 2	EARTHWORK				
	CLASS I EXCAVATION	1050	CY	\$ 25.00	\$ 26,250.00
	COMMON BORROW (10%)	403	CY	\$ 30.00	\$ 12,090.00
	TEST PIT EXCAVATION (10%)	21	CY	\$ 75.00	\$ 1,575.00
				<b>Subtotal CAT 2</b>	<b>\$ 39,915.00</b>
					\$ -
CAT 3	DRAINAGE (30% Cat 2,4,5,6)	1	LS	\$ 209,050.95	\$ 209,050.95
				<b>Subtotal CAT 3</b>	<b>\$ 209,050.95</b>
CAT 5	PAVING (30%)				
	BASE REPAIR	1760	SY	\$ 50.00	\$ 88,000.00
	HMA SUPERPAVE 9.5mm for SURFACE, (2 Inch course)	2071	TON	\$ 100.00	\$ 207,100.00
	MILLING HOT MIX ASPHALT PAVEMENT 0 INCH TO 2 INCH	17,600	SY	\$2.00	\$ 35,200
	PAVEMENT MARKINGS (10% Cat, 2, 4,5 6)	1	LS	\$ 33,321.50	\$ 33,321.50
				<b>Subtotal CAT 5</b>	<b>\$ 363,621.50</b>
CAT 6	CONCRETE (20%)				
	STANDARD CURB 8 INCH X 16 INCH MINIMUM	400	LF	\$25.00	\$ 10,000.00
	COMBINATION CONCRETE CURB & GUTTER (12 INCH GUTTER PAN 8.5 INCH DEPTH)	2,250	LF	\$ 30.00	\$ 67,500.00
	5" CONCRETE SIDEWALK	20,100	SF	\$ 8.00	\$ 160,800.00
	6" CONCRETE SIDEWALK	3,400	SF	\$ 10.00	\$ 34,000.00
	DETECTABLE WARNING SURFACE - RAISED TRUNCATED DOMES	600	SF	\$ 35.00	\$ 21,000.00
				<b>Subtotal CAT 6</b>	<b>\$ 293,300.00</b>
CAT 7	LANDSCAPING (7% Cat 2,4,5,6)				
	TEMPORARY SEED	5	LB	\$ 12.00	\$ 60.00
	TEMPORARY MULCH	525	SY	\$ 0.75	\$ 393.75
	TURFGRASS SOD ESTABLISHMENT	525	SY	\$ 3.00	\$ 1,575.00
				<b>Subtotal CAT 7</b>	<b>\$ 2,028.75</b>
CAT 8	TRAFFIC (10%)				\$ -
	GALVANIZED U-CHANNEL STEEL SIGN POSTS & SIGNS	36	EA	\$ 100.00	\$ 3,600.00
				<b>Subtotal CAT 8</b>	<b>\$ 3,600.00</b>
CAT 9	MISCELLANEOUS (5%)				
	REMOVE AND RESET FENCE	500	LF	\$ 20.00	\$ 10,000
				<b>Subtotal CAT 9</b>	<b>\$ 10,000.00</b>

**Subtotal (CAT 1-9)** \$ 1,325,681.37

**Contingency (Poles, SWM) (40%)** \$ 530,272.55

Neat Construction Cost \$ 1,855,953.92

**Admin and Overhead (20%)** \$ 371,190.78

**Right-of-Way** T.B.D.

**Cost Estimate:** \$ **2,227,144.70**



**Prince George's County Government**  
**Department of Public Works and Transportation**  
**Office of Engineering and Project Management**  
**Highway and Bridge Design Division**  
**LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS**  
**Cost Estimate - Order of Magnitude**

**SCOPE OF WORK**  
**LANGLEY PARK NEIGHBORHOOD BIKE BOULEVARDS**  
**OFF-STREET SECTION (NEW RIGGS ROAD SHARED USE PATH)**

ID	Item Description	Quantity	Unit	Cost	Total
CAT 1	PRELIM.ITEMS (50% Cat. 2,4,5,6)				
	REMOVE TREE AND STUMP UP TO 6" DIA.	6	EA	\$ 45.00	\$ 270
	TREE PROTECTION	9	EA	\$ 250.00	\$ 2,250
				<b>Subtotal CAT 1</b>	<b>\$ 2,520.00</b>
CAT 2	EARTHWORK				
					<b>Subtotal CAT 2</b>
CAT 3	DRAINAGE (30% Cat 2,4,5,6)				
					<b>Subtotal CAT 3</b>
CAT 4	STRUCTURES (10%)				
					<b>Subtotal CAT 4</b>
CAT 5	PAVING (30%)				
	PAVEMENT REMOVAL	3,984	SY	\$ 5.00	\$ 19,917.80
	BASE REPAIR	500	SY	\$ 50.00	\$ 25,000.00
	MILLING HOT MIX ASPHALT PAVEMENT 0 INCH TO 2 INCH	1,545	SY	\$ 2.00	\$ 3,090.00
				<b>Subtotal CAT 5</b>	<b>\$ 48,007.80</b>
CAT 6	CONCRETE (20%)				
	5" CONCRETE SIDEWALK	8,222	SF	\$ 8.00	\$ 65,776.00
	CONCRETE PAVERS AND SETTING BEDS	1,331	SF	\$ 6.00	\$ 7,986
	SEAT WALL	75	LF	\$ 650.00	\$ 48,750
				<b>Subtotal CAT 6</b>	<b>\$ 115,857.00</b>
CAT 7	LANDSCAPING (7% Cat 2,4,5,6)				
	TURFGRASS SOD ESTABLISHMENT	11,120	SY	\$ 3.00	\$ 33,360.00
	DECIDUOUS TREE, 8' HT.	29	EA	\$ 500.00	\$ 14,500
	DECIDUOUS TREE, 3" CAL.	18	EA	\$ 750.00	\$ 13,500
	DECIDUOUS SHRUB, 5 GAL	106	EA	\$ 50.00	\$ 5,300
	EVERGREEN SHRUB, 5 GAL	66	EA	\$ 50.00	\$ 3,300
	STORMWATER PLANTINGS	7,618	SF	\$ 15.00	\$ 114,270
				<b>Subtotal CAT 7</b>	<b>\$ 184,230.00</b>
CAT 8	TRAFFIC (10%)				
					<b>Subtotal CAT 8</b>
CAT 9	MISCELLANEOUS (5%)				
	NATURE-BASED PLAYGROUND	1	EA	\$500,000.00	\$ 500,000.00
	ADA RAMP AND STAIRS	1	EA	\$800,000.00	\$ 800,000
	GRILL STATIONS	6	EA	\$300.00	\$ 1,800
	PARK BENCH	20	EA	\$750.00	\$ 15,000
	PICNIC TABLE	6	EA	\$750.00	\$ 4,500
				<b>Subtotal CAT 9</b>	<b>\$ 1,321,300.00</b>
				<b>Subtotal (CAT 1-9)</b>	<b>\$ 1,671,914.80</b>
				<b>Contingency (Poles, SWM) (40%)</b>	<b>\$ 668,765.92</b>
				Neat Construction Cost	\$ 2,340,680.72
				<b>Admin and Overhead (20%)</b>	<b>\$ 468,136.14</b>
				<b>Right-of-Way</b>	

**Cost Estimate: \$ 2,808,816.86**