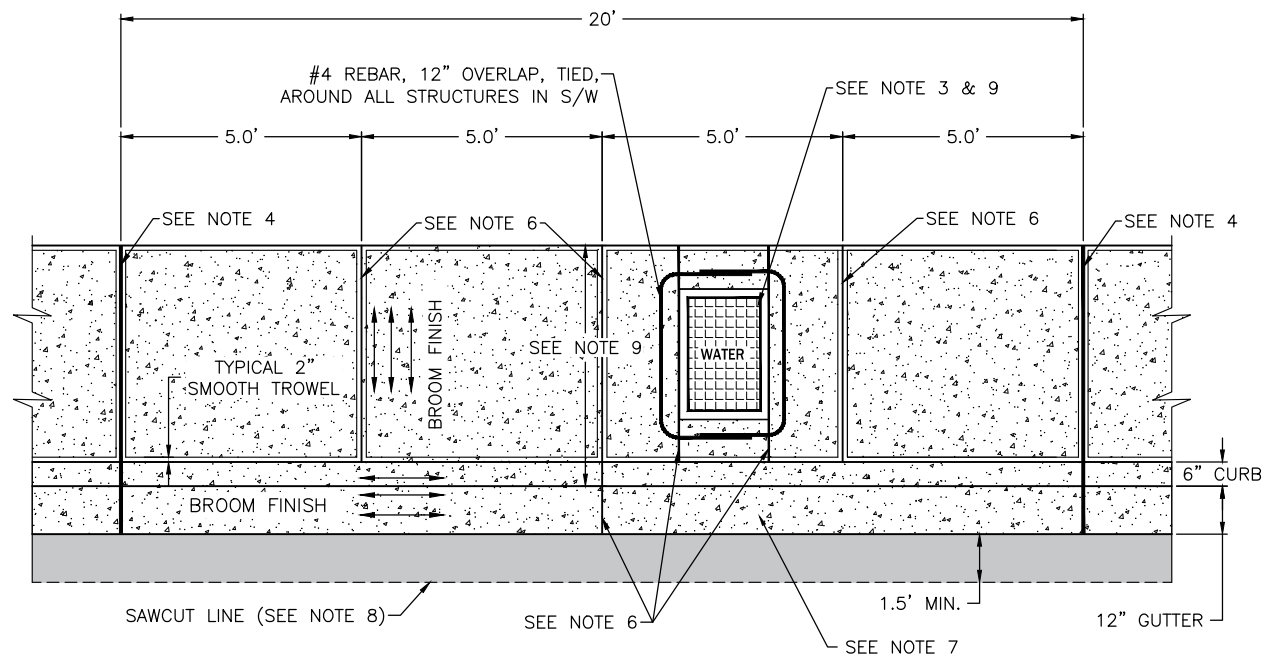
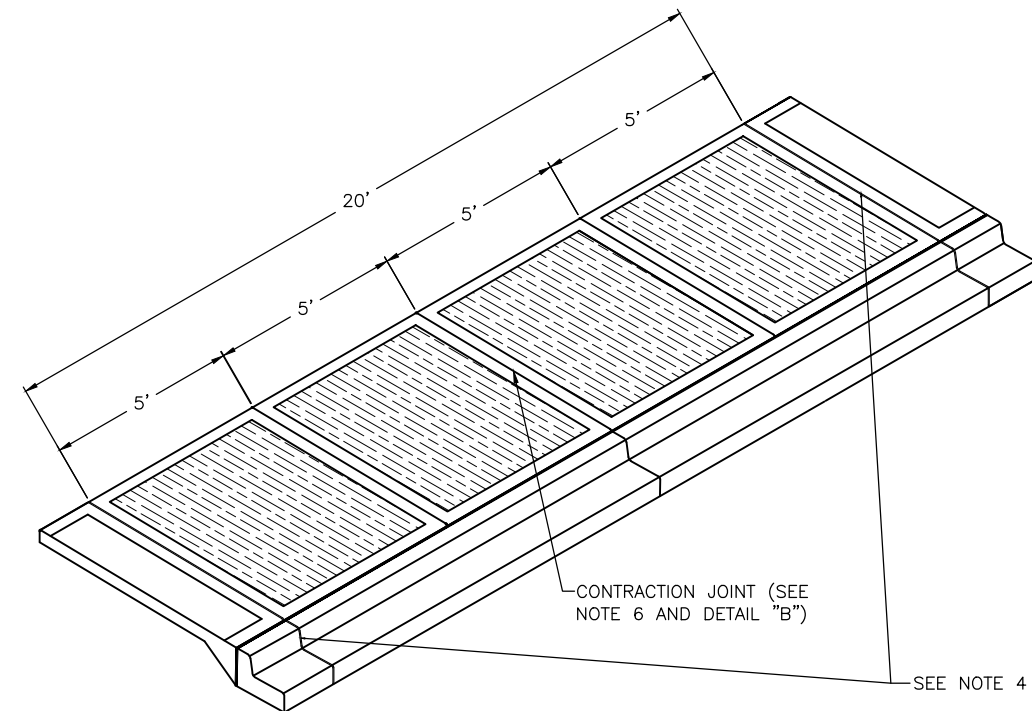


Right of Way (ROW) Standard Plans



TYPICAL CONCRETE CURB, GUTTER & SIDEWALK

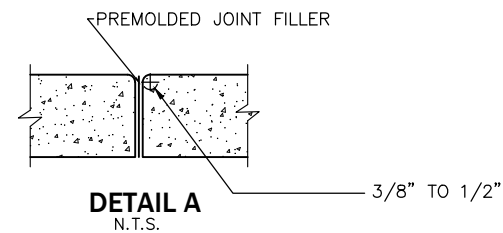


JOINT SPACING IN SIDEWALK ADJACENT TO CURB AND GUTTER

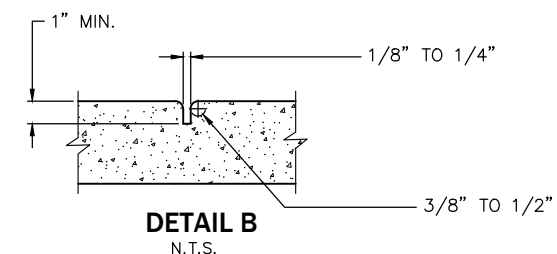
JOINT SPACING

NOTES:

1. SIDEWALK SLAB DEPTH: 4-INCH.
2. DRIVEWAY SECTION DEPTH: 6-INCH.
3. WATER METER LIDS LOCATED IN DRIVEWAY APPROACHES SHALL BE BE "IFCO": No. 2019, No. 2020 WITH DROP HANDLES TO BE USED IN SIDEWALK AREAS.
4. THROUGH 3/8-INCH EXPANSION JOINT IN BOTH CURB AND SIDEWALK, FULL DEPTH (SEE DETAIL A).
5. WATER METER LID SHALL BE PLACED NO CLOSER THAN 6-INCH FROM THE BACK OF THE SIDEWALK.
6. 1/8-INCH TO 1/4-INCH CONSTRUCTION JOINTS IN SIDEWALK ONLY. (SEE DETAIL B). THE CONSTRUCTION JOINT FROM NOTE 5 MAY BE MOVED TO BE ON ONE SIDE OF THE WATER METER LID WITH INSPECTOR'S APPROVAL.
7. FOR CURB & GUTTER REPLACEMENT, ASPHALT PAVEMENT REMOVAL BY SAW CUTTING FOR FORMS PLACEMENT (OR EXTRUDER MACHINE) IS REQUIRED. THE WIDTH OF 18-INCH MINIMUM TRANSVERSE SAW CUT IS BASED ON MULTIPLE COMPACTED LIFTS OF CRUSHED ROCK AND HOT MIX ASPHALT (H.M.A.) BY ITS ASSOCIATED COMPACTION EQUIPMENT, WIDER PAVEMENT REMOVAL MAY BE NECESSARY. SUBSEQUENT STREET PATCH TO MATCH EXISTING STREET SURFACING THICKNESS OR 3-INCH H.M.A. WHICHEVER IS GREATER.
8. TACK COAT MUST BE PLACED ALONG THE CUT FACE OF THE EXISTING ASPHALT PRIOR TO PATCHING WITH H.M.A.
9. LID ADJUSTMENTS SHALL BE DONE USING BRICK OR CONCRETE.
10. SIDEWALK WIDTH (5'-0" MIN.) AS SPECIFIED ON DRAWINGS OR IN CONTRACT.
11. SEE DETAIL R-100B FOR SECTIONS.



DETAIL A
N.T.S.



DETAIL B
N.T.S.

**STANDARD DETAIL
CURB, GUTTER,
AND SIDEWALK**

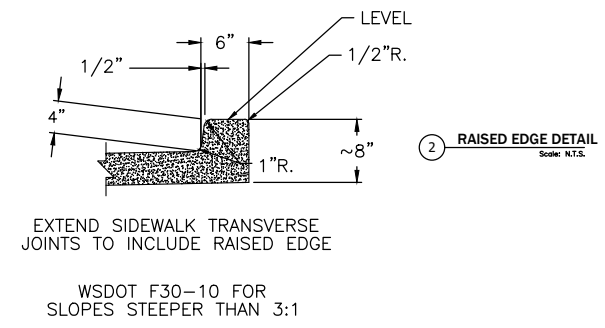
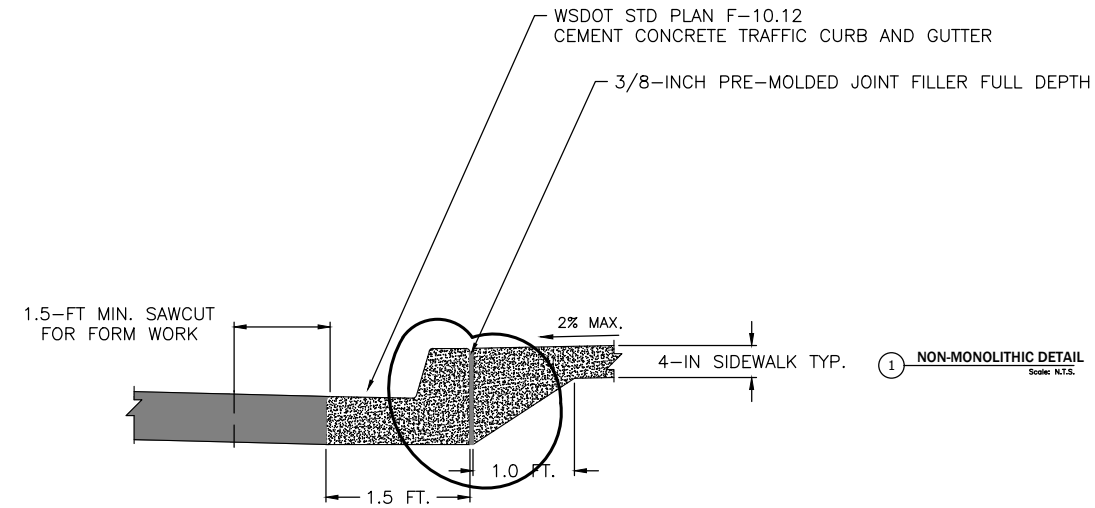
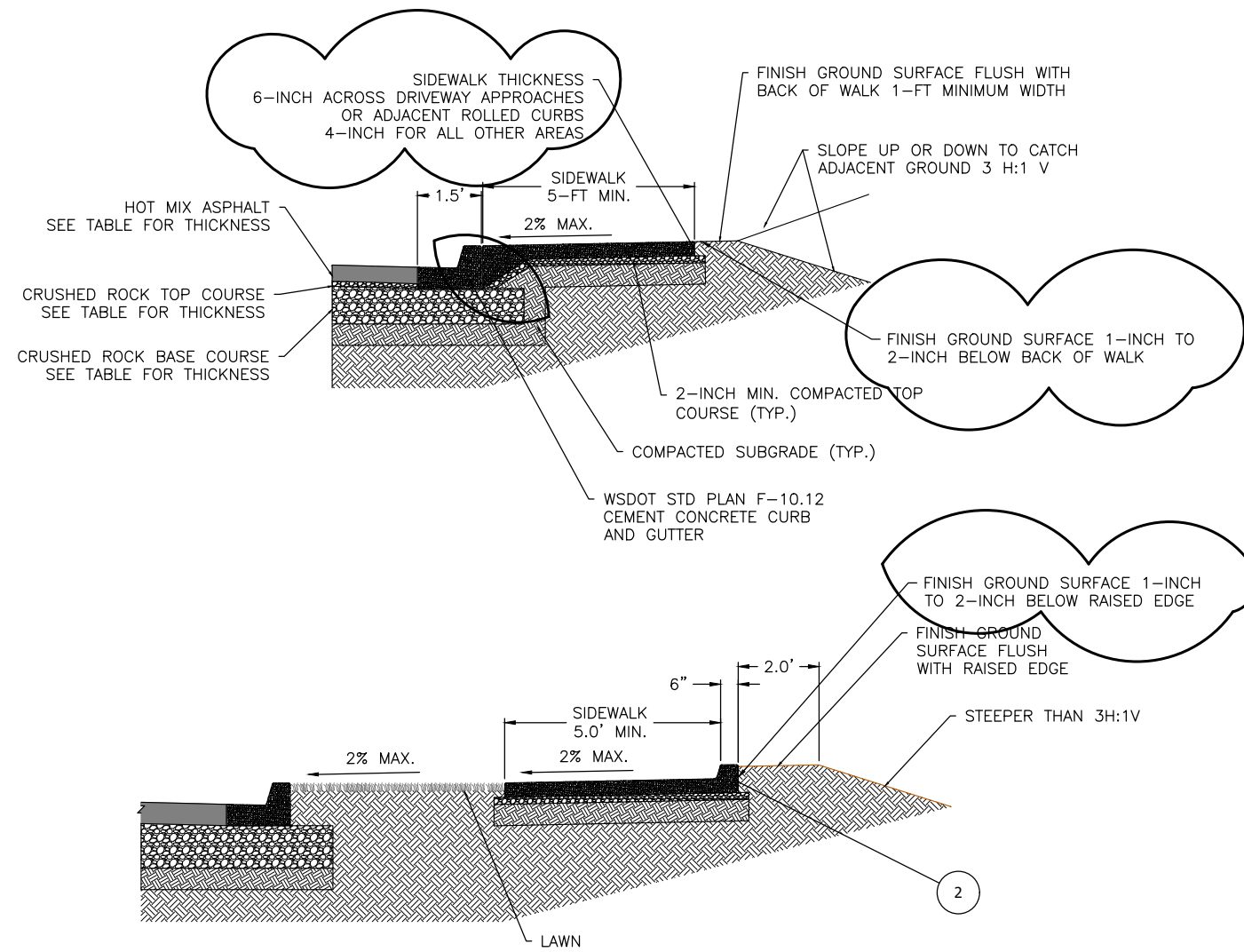


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				09/20	CAW			
				01/22	AJS			
				03/31/2023	JTB			

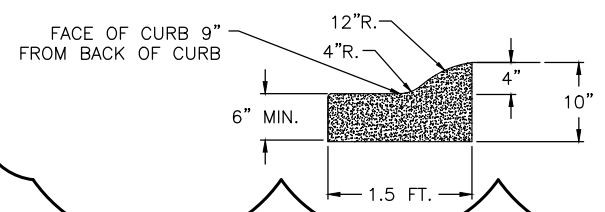
DETAIL NO.
R-100A

PAGE
1 OF 2

STANDARD SPECIFICATIONS
8-04 CURBS & GUTTER
8-06 DRIVEWAY
8-14 SIDEWALK



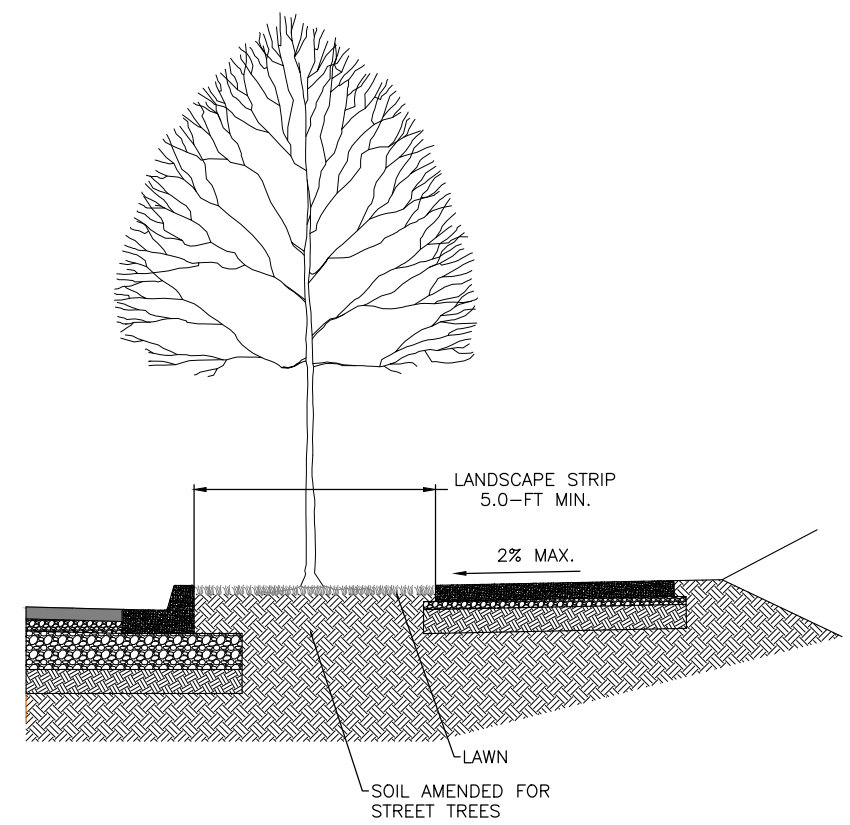
NOTE:
FOUR FEET OF THE SIDEWALK WIDTH SHALL BE THE MINIMUM PEDESTRIAN ACCESSIBLE ROUTE FREE OF VERTICAL AND HORIZONTAL OBSTRUCTIONS. GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK MUST HAVE SLIP RESISTANT SURFACES, BE FLUSH WITH SURFACE, AND MATCH GRADE OF THE SIDEWALK. RAISED EDGE AT BACK OF SIDEWALK REQUIRED WHEN THE ADJACENT SLOPE DROPS GREATER THAN 3H:1V.
(HMA) HOT MIX ASPHALT IS CLASS 1/2" PG 64-28.



ROLLED CURB DETAIL
FOR USE AS ALLOWED BY CITY ENGINEER

* TRUCK ROUTES ARE CALLED FREIGHT ROUTE DESIGNATIONS IN THE CITY'S COMPREHENSIVE PLAN, THEY CONSIST OF PRINCIPLE ARTERIALS AND OTHER SUPPORTING ROUTES PER FIGURE 48 IN THE FINAL FREIGHT MAP PREPARED BY WUTC.

	LOCAL/PRIVATE LN	COLLECTOR	ARTERIAL	TRUCK ROUTE*
HMA	3 INCHES	4 INCHES	4 INCHES	6 INCHES
TOP COURSE	3 INCHES	2 INCHES	2 INCHES	2 INCHES
BASE COURSE	9 INCHES	10 INCHES	10 INCHES	10 INCHES



**STANDARD DETAIL
CURB, GUTTER,
AND SIDEWALK**



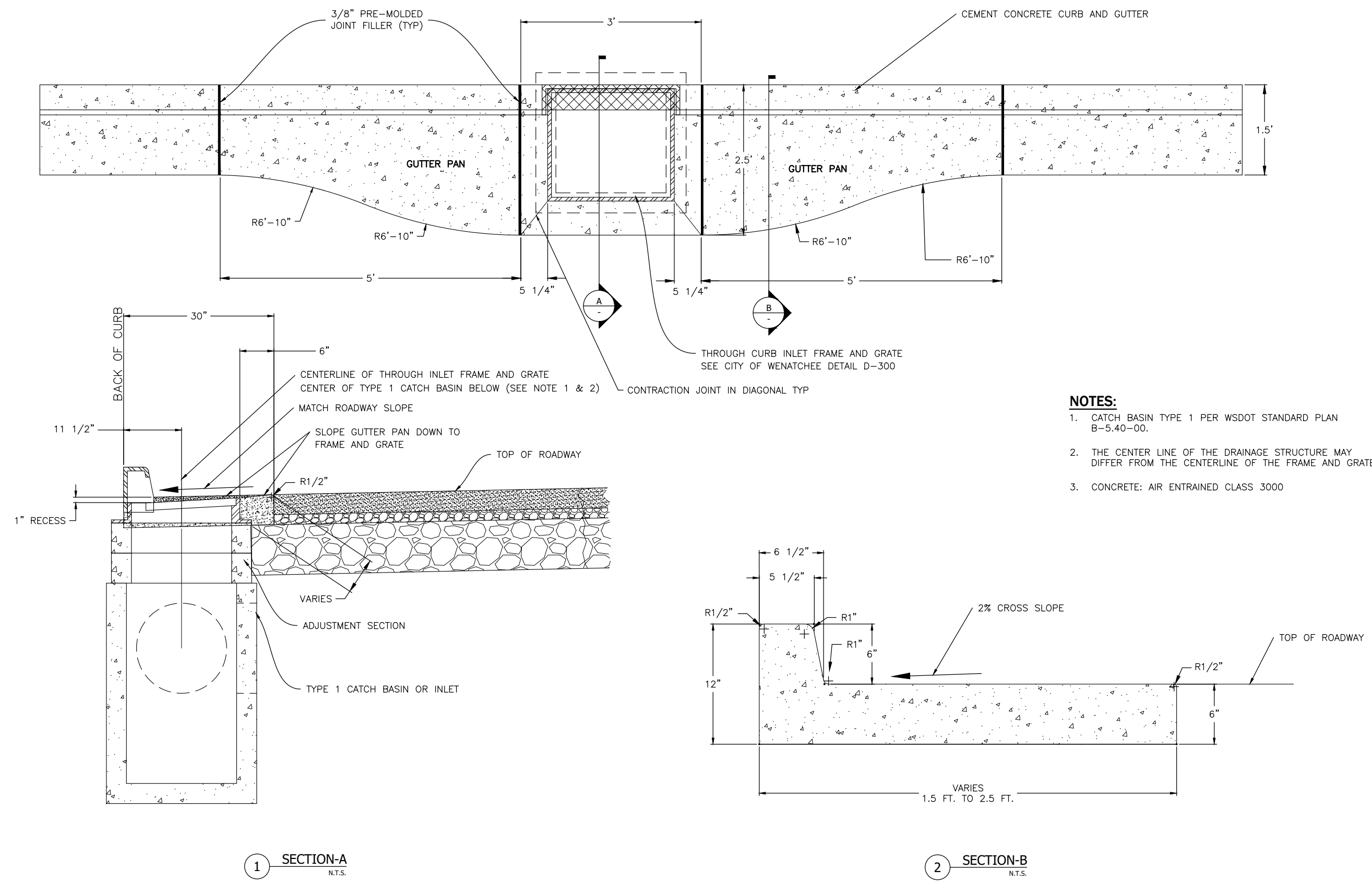
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REVISIONS	INITIAL	RDH	CAW	A/S	JTB																										

**STANDARD DETAIL
GUTTER PAN AT
THROUGH CURB INLET**

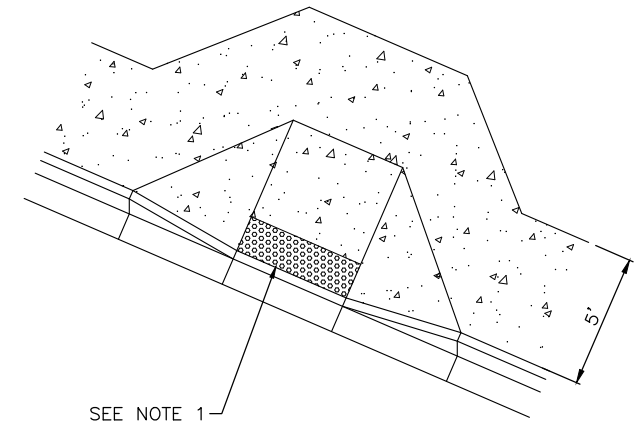
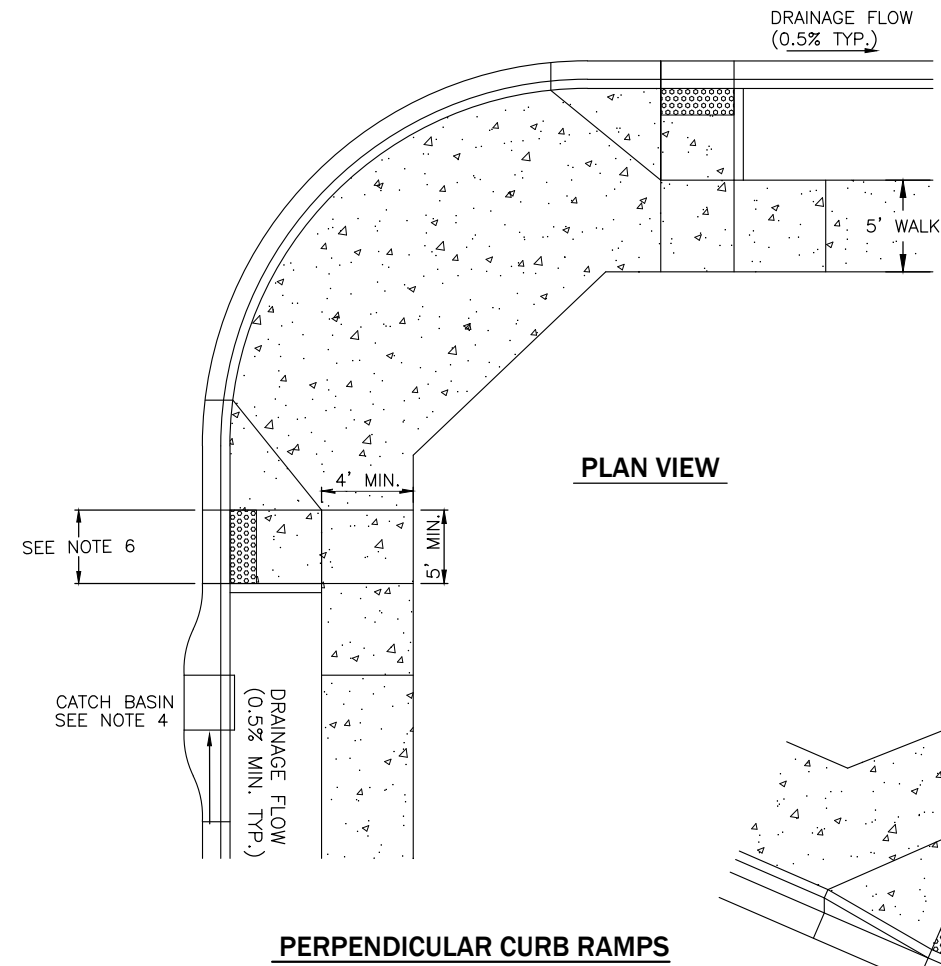
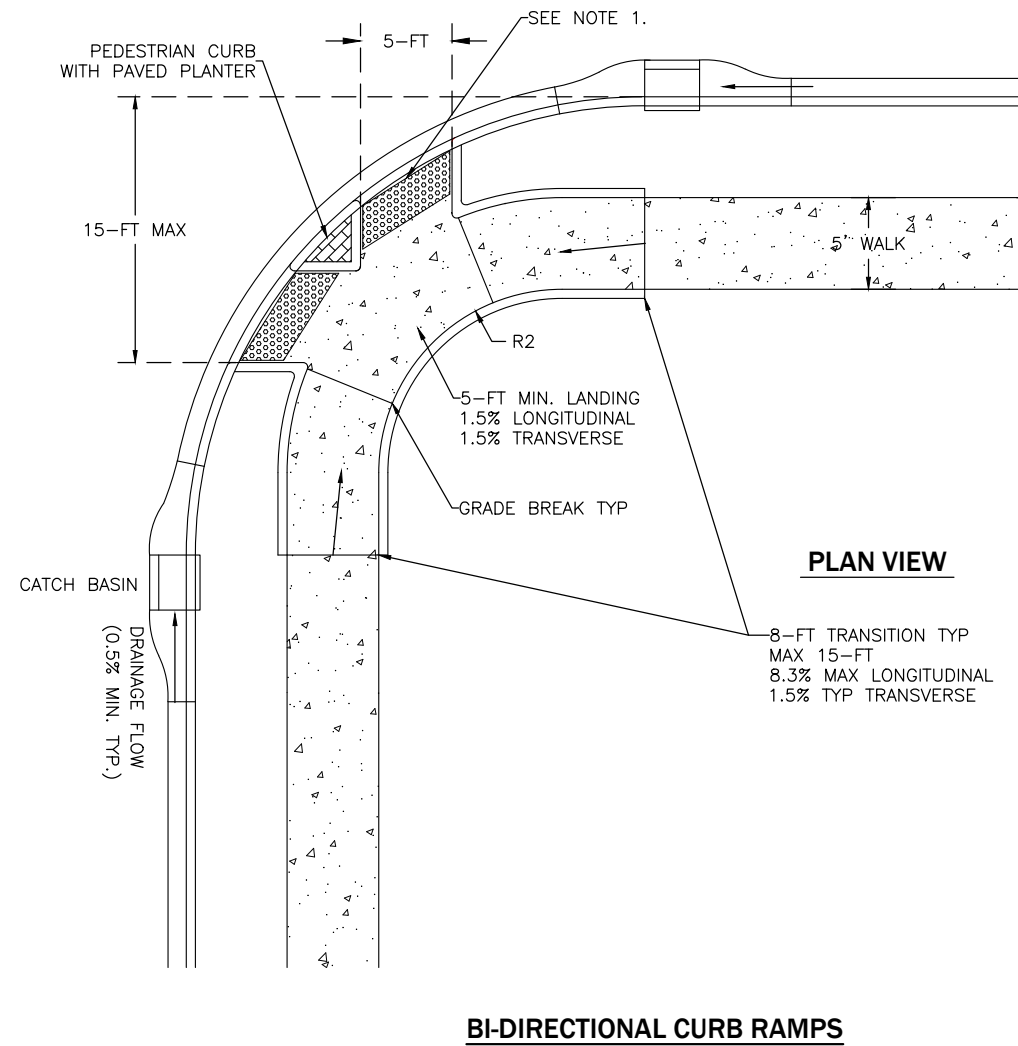


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	CHECKED					10/19/2012	DMN	RDH								
						4/9/2015	DMN	RDH	CAW							
						12/21/2020	DMN	RDH	CAW							
						01/01/2022	DMN	RDH	CAW							
						03/31/2023	DMN	RDH	CAW							

DETAIL NO.
R-110
PAGE
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- NOTES:**
- CATCH BASIN TYPE 1 PER WSDOT STANDARD PLAN B-5.40-00.
 - THE CENTER LINE OF THE DRAINAGE STRUCTURE MAY DIFFER FROM THE CENTERLINE OF THE FRAME AND GRATE.
 - CONCRETE: AIR ENTRAINED CLASS 3000



NOTES:

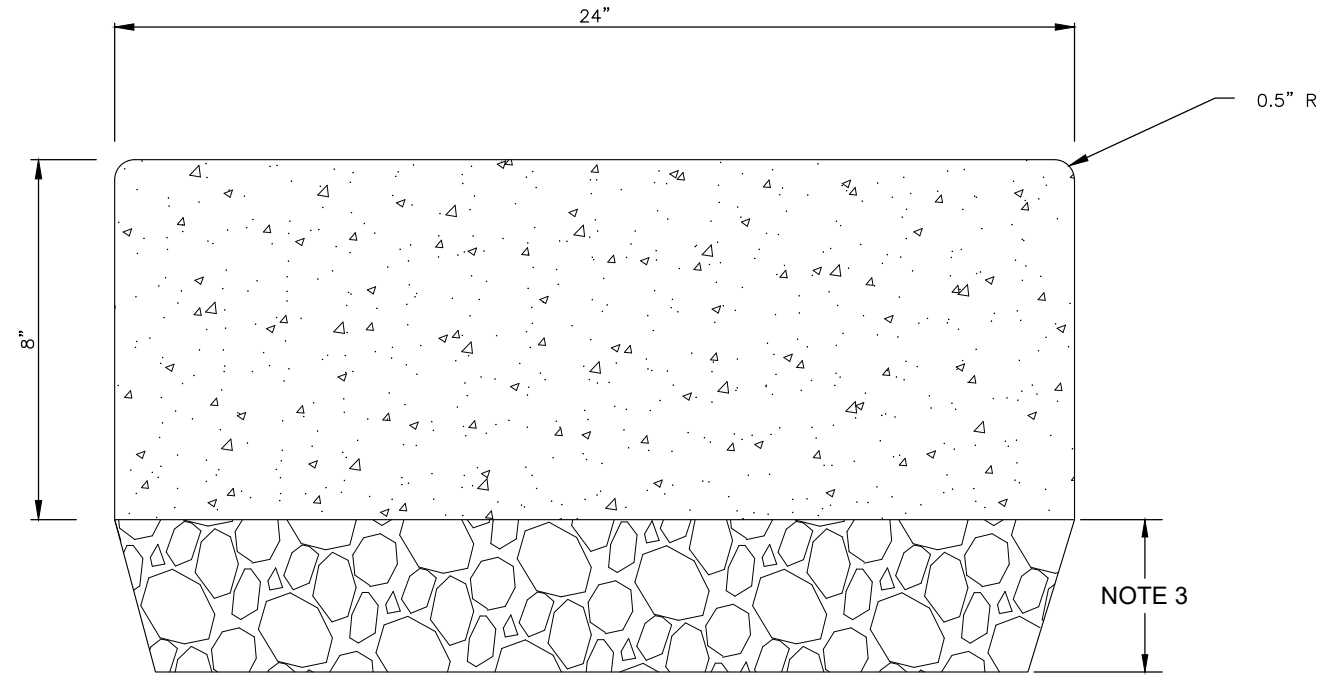
1. DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10
2. RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCLUDING HYDRANTS, POLES, AND INLETS.
3. RAMP CENTER LINE SHALL BE PERPENDICULAR TO THE RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
4. CATCH BASINS SHALL BE PLACED UPSTREAM FROM PEDESTRIAN RAMPS, AS REQUIRED BY PROJECT DRAINAGE PLANS.
5. CURB SLOPE SHOULD NOT EXCEED 2% ACROSS RAMP. MAY BE INCREASED TO 5% AT NON-STOP CONTROLLED INTSECTIONS.
6. RAMP TO BE 4-FT WIDE WHEN CORNER IS PAVED OR 5-FT WIDE WHEN CORNER IS LANDSCAPED.

**STANDARD DETAIL
DIRECTIONAL
CURB RAMPS**

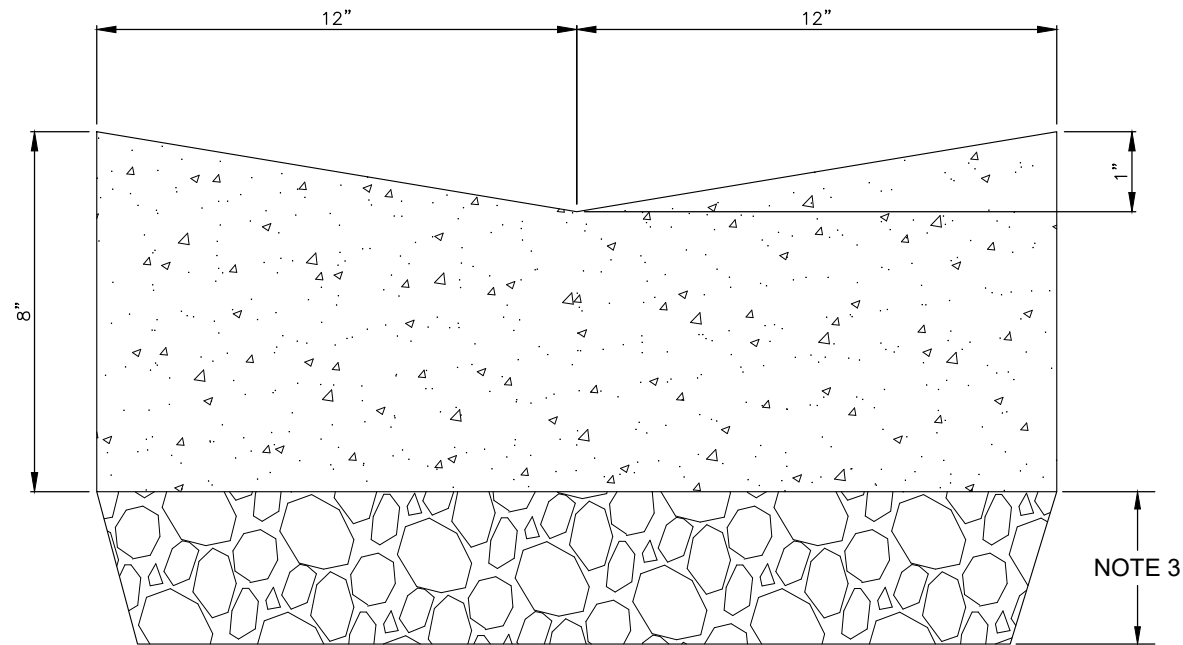


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					DATE	INITIAL
01/28/21	CHECKED		DATE APPROVED			

DETAIL NO.
R-120
PAGE
1 OF 1



FLAT CURB



VALLEY GUTTER

NOTES:

1. THIS DETAIL IS FOR SPECIAL USE ONLY WITH APPROVAL FROM PUBLIC WORKS INSPECTOR OR ENGINEER.
2. FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE).
3. BASE COURSE SHALL BE 4-INCH COMPACTED DEPTH CRUSHED SURFACING TOP COURSE.
4. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
5. FOR CURB EXPANSION JOINT 20-FT OC WITH 10-FT CONTRACTION JOINT.
6. BROOM FINISH ONLY.

**STANDARD DETAIL
FLAT CURB AND
VALLEY GUTTER**

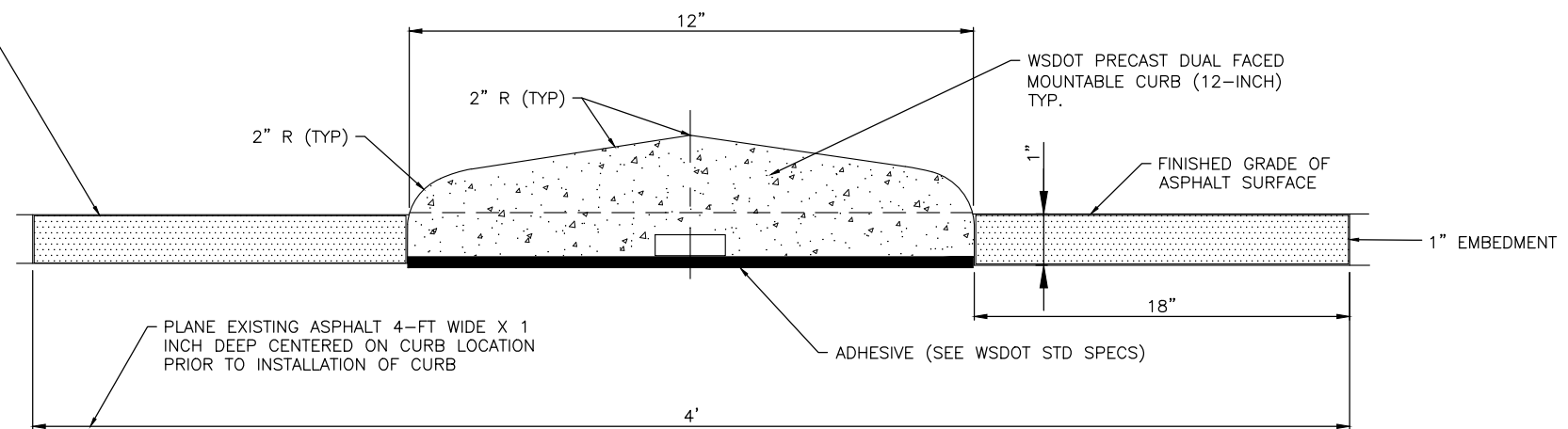


SCALE: AS SHOWN	DATE DRAWN	CHECKED	REVISIONS	
			DATE	INITIAL
DESIGNED	10/02/2020		01/01/2022	AJS
DRAWN			03/31/2023	JTB
APPROVED BY				

DETAIL NO.
R-130

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1 OF 1

ENSURE POSITIVE DRAINAGE AWAY FROM CURB AND PAVE HMA TO MEET ROADWAY SURFACE ELEVATION AFTER INSTALLATION OF CURB



MOUNTABLE MEDIAN CURB
N.T.S.

NOTES:

1. ALL ASPHALT JOINTS AND TAPERED TRANSITIONS SHALL BE SEALED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-03.
2. SEE R-305.

STANDARD DETAIL
MOUNTABLE
MEDIAN CURB

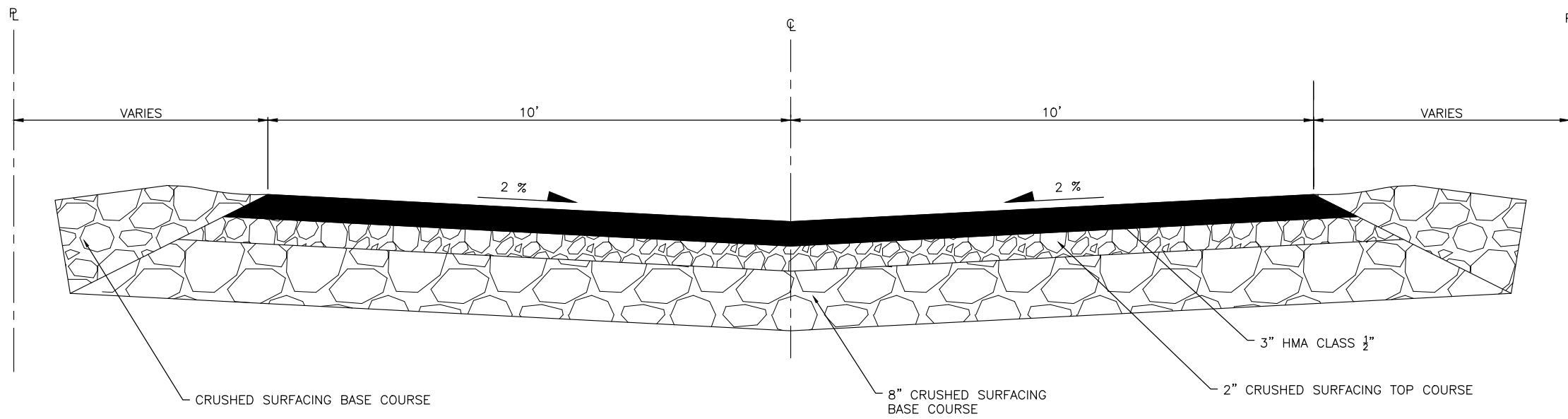


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DRAWN	CHECKED	03/31/2023	JTB
APPROVED BY	DATE APPROVED		

DETAIL NO.
R-140

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1 OF 1

STANDARD SPECIFICATIONS
9.26.2 EPOXY ADHESIVE FOR LANE MARKERS
9.34.2 PAINT



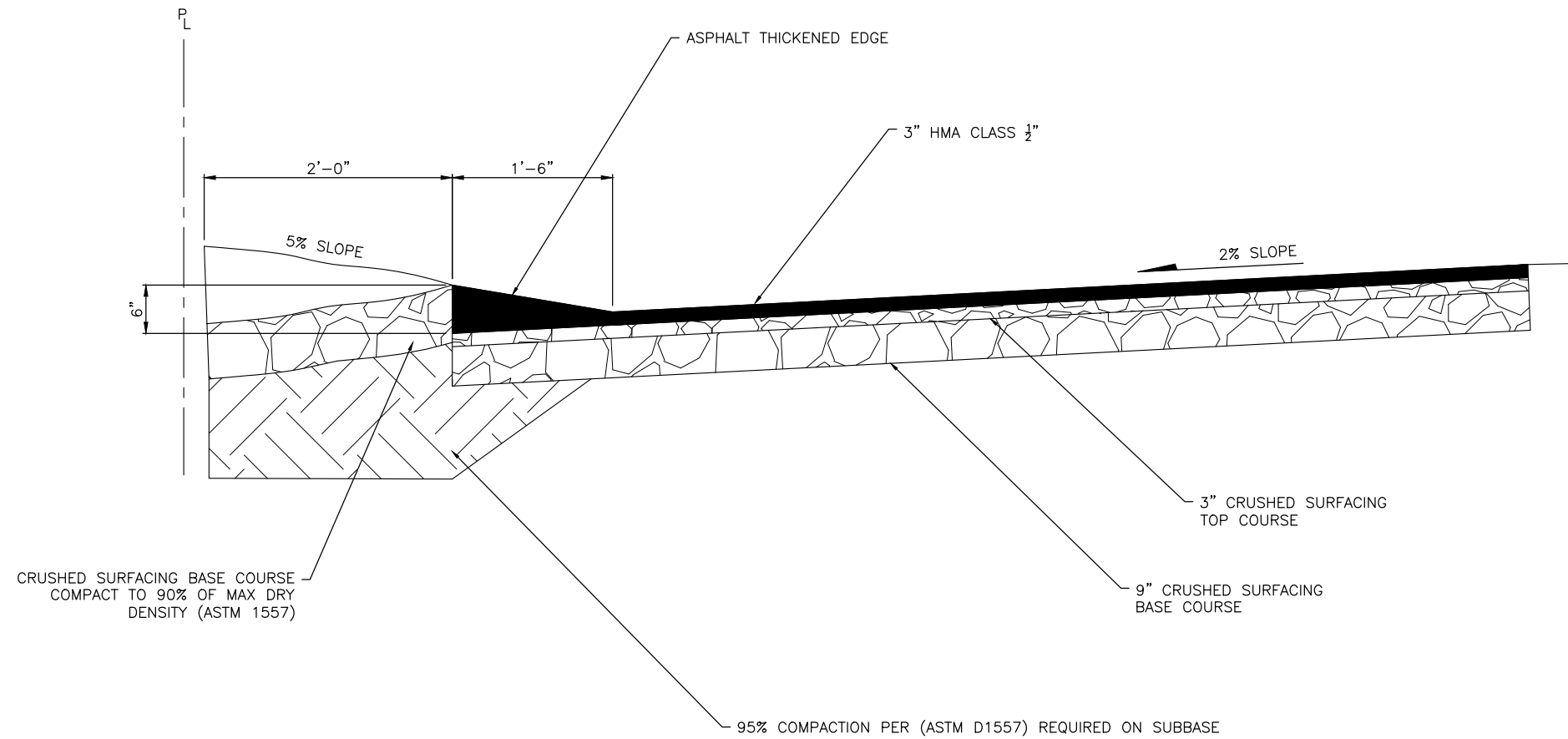
NOTES:

1. ALL EXISTING ALLEYS SHALL HAVE A MINIMUM PAVEMENT WIDTH OF 12--FEET UNLESS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
2. NEW ALLEYS SHALL HAVE A MINIMUM PAVEMENT WIDTH OF 20--FEET.
3. INVERT DRAINAGE TO BE COLLECTED AT LOW END OF IMPROVED SECTION WITH CATCH BASIN INSTALLATION AND TIGHTLINED TO STORM DRAIN SYSTEM.
4. COMPACTION TESTS ON SUBGRADE AND ROCK GRADE SHALL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY INSPECTOR. ALL TESTS, AS REQUIRED, SHALL BE AT THE EXPENSE OF THE CONTRACTOR OR DEVELOPER THROUGH ANY LICENSED TESTING LAB OF THEIR CHOICE. THE MINIMUM COMPACTION SHALL BE 95 % OF MAXIMUM DRY DENSITY (PER ASTM D1557) ON BOTH SUBGRADE AND ROCK SURFACES.
5. ADJUSTMENT OF CATCH BASIN LIDS OR GRATES, MANHOLE LIDS, MONUMENT CASES, VALVE BOXES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER AS REQUIRED AND SHALL BE ADJUSTED PER WSD R-330 AFTER THE FINAL LIFT OF ASPHALT HAS BEEN PLACED.

**STANDARD DETAIL
PAVED ALLEY
CROSS-SECTION**



SCALE: AS SHOWN	DATE DRAWN	REVISIONS	
		DATE	INITIAL
DESIGNED	10/01/2020	9/2/2021	CAW
DRAWN	CHECKED	03/31/2023	JTB
APPROVED BY	DATE APPROVED		



NOTES:

- MAY BE USED FOR SPECIAL APPLICATIONS IN ALLEYS AS DETERMINED BY THE CITY ENGINEER.

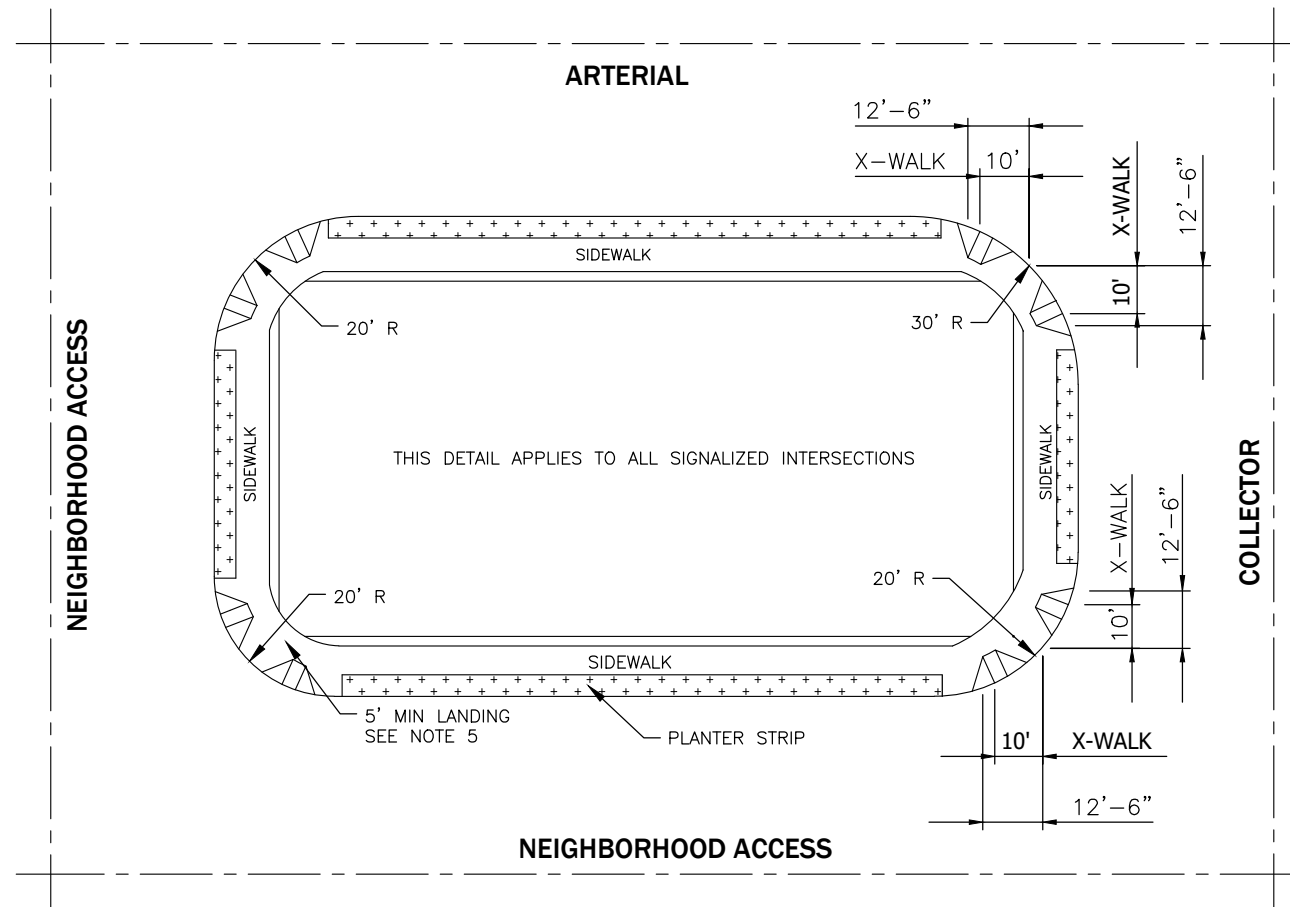
**STANDARD DETAIL
SINGLE SLOPE
PRIVATE ROADWAY**



SCALE: AS SHOWN	DATE DRAWN 10/02/2020	REVISIONS	
		DATE	INITIAL
DESIGNED	CHECKED	9/2/2021	CAW
APPROVED BY	DATE APPROVED	03/31/2023	JTB
STANDARD SPECIFICATIONS			

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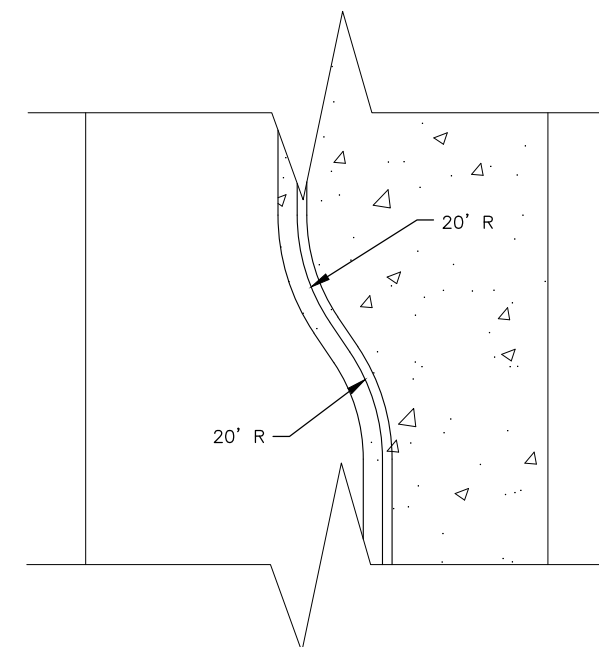


CURB RADIUS AT INTERSECTIONS

	ARTERIAL	COLLECTOR	NEIGHBORHOOD ACCESS
ARTERIAL	25-FT	25-FT	20-FT
COLLECTOR	25-FT	20-FT	20-FT
NEIGHBORHOOD ACCESS	20-FT	20-FT	20-FT

NOTES:

1. THE CITY OF WENATCHEE EVALUATES CURB RADII BASED ON THE TYPE AND VOLUME OF ACTIVITY AT THE INTERSECTION. IN ALL CASES, THE CITY WILL EVALUATE THE CURB RADII BASED ON A SINGLE UNIT (SU) VEHICLE WITH A 42 FOOT TURNING RADIUS. AN APPLICANT MAY PROPOSE TIGHTER CURB RADII, AND WILL NEED TO PROVIDE SUPPORTING DOCUMENTATION AND HAVE THE REQUEST APPROVED BY THE CITY ENGINEER.
2. STORM DRAINAGE INLETS SHALL BE OUTSIDE THE CURB RAMP.
3. THE CURB RAMP MAY BE MOVED AWAY FROM THE CROSSWALK TO AVOID CONFLICTS WITH HYDRANTS, POLES, INLETS, OR OTHER UTILITIES. EXCEPT WHERE THE STREET GRADE EXCEEDS 4%.
4. FOR SWEEPING EFFICIENCY, WHEN CURB BULBS (PARKING SETBACKS) ARE USED, REVERSE CURVE RADIUS SHALL NOT BE LESS THAN 20 FEET. REFER TO DETAIL A.
5. FOR STAKING PURPOSES, RAMPS MAY BE LOCATED PER QUARTER DELTA AND PUBLIC WORKS APPROVAL.
6. REFER TO WSDOT STANDARDS.



DETAIL A - MINIMUM RADIUS FOR CURB BULB/PARKING SETBACK

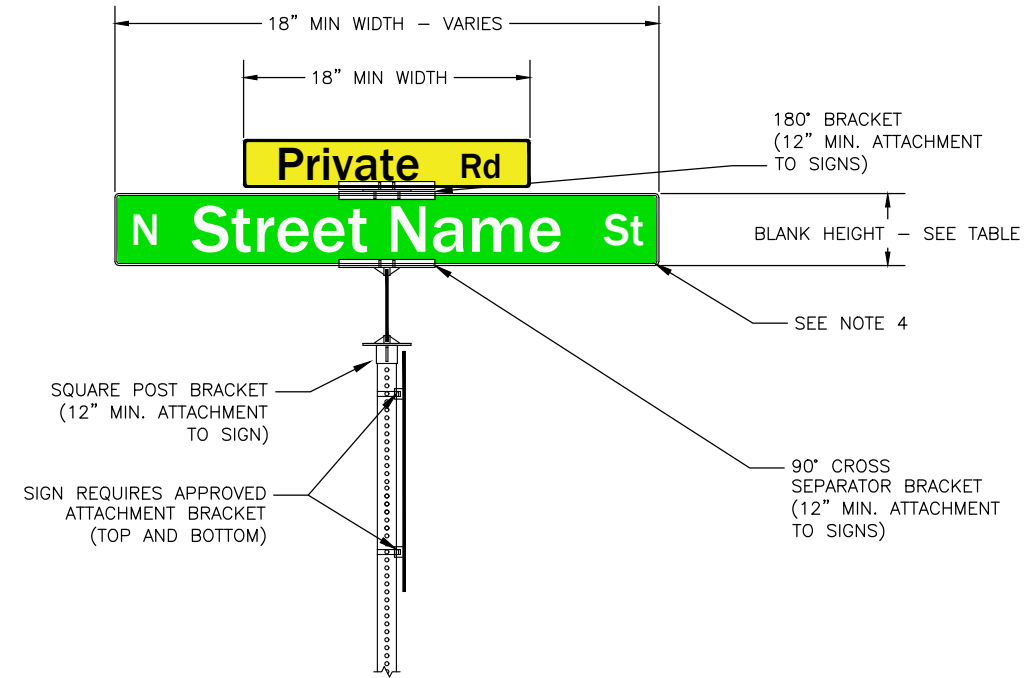
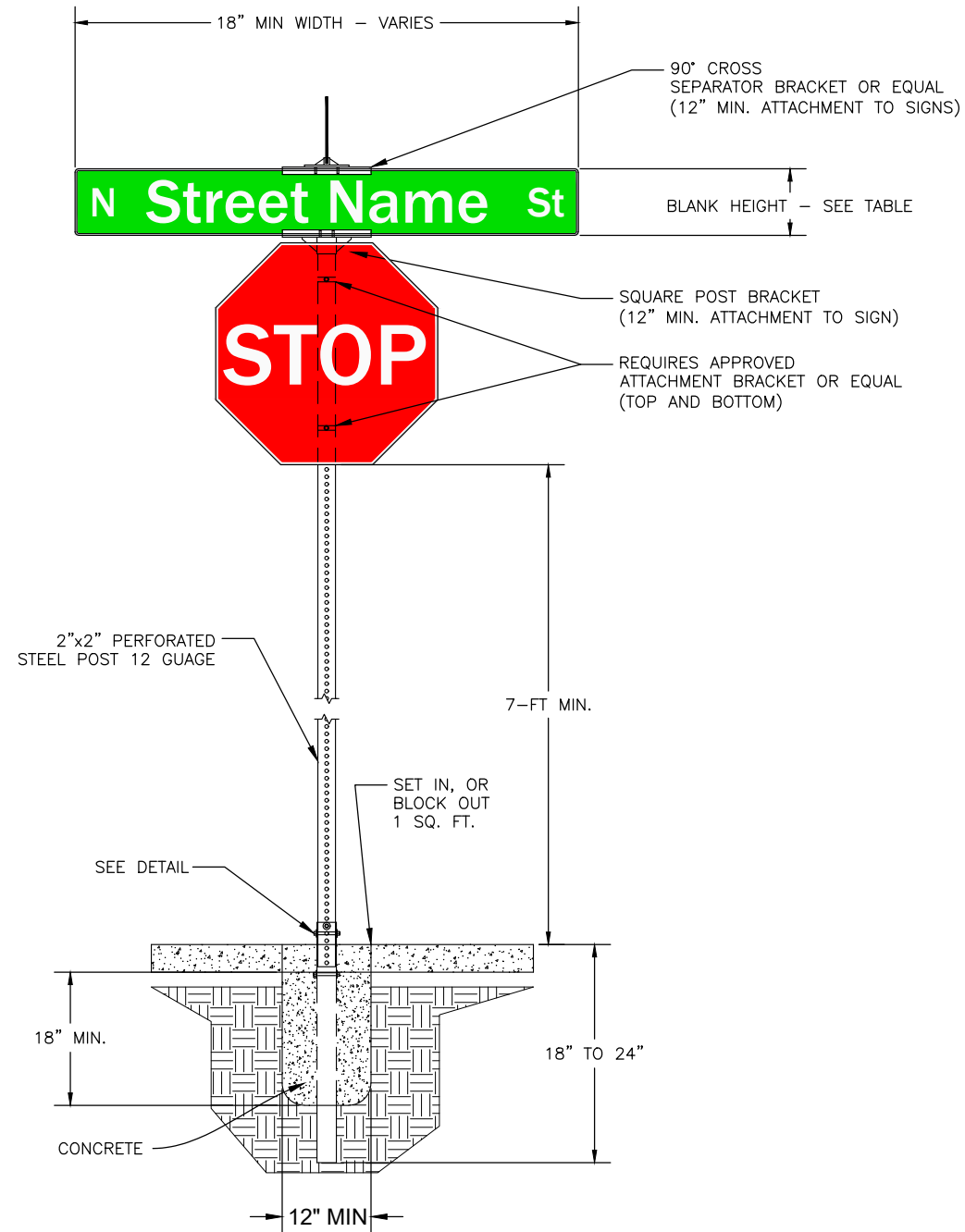
**STANDARD DETAIL
STANDARDS & CURB
RAMP LOCATIONS**



SCALE: AS SHOWN	DESIGNED	DRAWN CAW	APPROVED BY	DATE DRAWN 10/05/2020	REVISIONS			
					DATE	INITIAL	DATE	INITIAL
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				DATE APPROVED	03/31/2023	JTB		

DETAIL NO.
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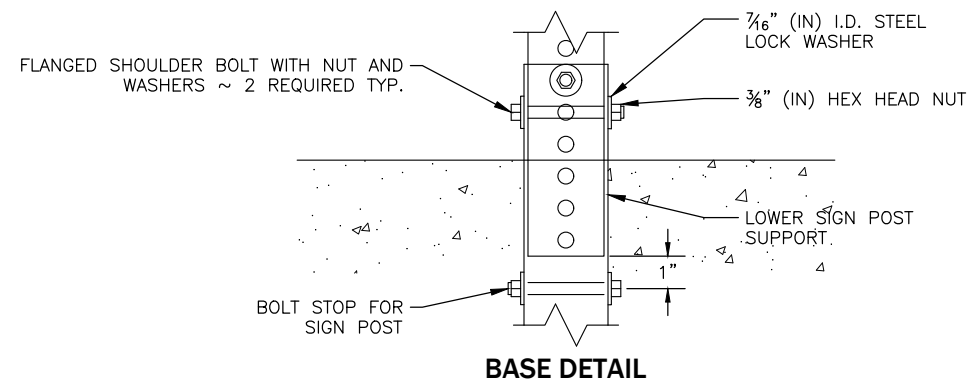


NOTES:

1. STOP SIGNS SHALL BE MUTCD R1-1. SIZES SHALL BE 30 X 30 MIN FOR SINGLE LANE ROADS, AND 36 X 36 FOR MULTI-LANE ROADS.
2. THE LETTERING FOR NAMES OF STREETS ON STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS; IN COMPLIANCE WITH MUTCD 2009 EDITION AS DIRECTED BY THE WASHINGTON AMENDED CODE 486-95. THE BACKGROUND SHALL BE GREEN AND THE LEGEND AND BORDER SHALL BE WHITE. SEE THE TABLE BELOW FOR MINIMUM LETTERING HEIGHTS.
3. SUPPLEMENTARY LETTERING TO INDICATE THE TYPE OF STREET (SUCH AS STREET, AVENUE, OR ROAD) OR THE SECTION OF THE CITY (SUCH AS N OR S) ON THE STREET NAME SIGN SHALL BE IN SMALLER LETTERING, COMPOSED OF INITIAL UPPER-CASE LETTERS AT LEAST 3-INCHES IN HEIGHT AND LOWER-CASE LETTERS AT LEAST 2.25-INCHES IN HEIGHT. CONVENTIONAL ABBREVIATIONS MAY BE USED EXCEPT FOR THE STREET NAME ITSELF.
4. THE ORIENTATION OF THE STREET NAME SIGN SHALL BE PARALLEL WITH THE STREET THAT IT NAMES.
5. THE MINIMUM INSTALLATION HEIGHT OF A POST-MOUNTED STREET NAME SIGN SHALL BE 9.5- FEET, IF NO STOP SIGN IS INSTALLED.
6. USE HIGHER CLASSIFICATION OF ROAD AT INTERSECTIONS
7. 0.125-INCH SHEET ALUMINUM FOR PERMANENT STREET NAME SIGNS. TYPE III OR IV REFLECTIVE SHEETING FOR BACKGROUND OF SIGNS. 0.080-INCH ALUMINUM SHEET THICKNESS FOR R-1 SIGNS AND OTHER MUTCD REGULATORY SIGNS.
8. CORNER RADII OF 1 1/2-INCHES.
9. SEE CITY STANDARD R11 FOR SIGN PLACEMENT DETAILS.
10. THE PRIVATE ROAD SIGN SHALL BE SIMILAR TO MUTCD W16-8P 2009 EDITION (ADVANCE STREET NAME PLAQUE WITHOUT ARROW AND ON YELLOW BACKGROUND WITH BLACK LEGEND AND BORDER TRIM.)
11. THE LETTERING HEIGHT FOR A PRIVATE ROAD SIGN SHALL BE 4-INCHES INITIAL UPPER-CASE AND 3-INCHES LOWER-CASE. THE ABRVIATION "RD" FOR ROAD SHALL BE USED.
12. IF ROW PERMITS SIGN POST INSTALLATION BEHIND SIDEWALK, 12"-18" FROM BACK OF WALK PREFERRED.

MINIMUM LETTER HEIGHTS ON STREET NAME SIGNS (SEE NOTE 3)

TYPE OF MOUNTING	TYPE OF STREET	SPEED LIMIT	LETTER HEIGHT		SUPPLEMENTAL	BLANK HEIGHT	BORDER
			INITIAL UPPER-CASE	LOWER-CASE			
OVERHEAD	ALL TYPES	ALL SPEED LIMITS	12 INCHES	9 INCHES	APPLE LOGO	18 INCHES	1 1/2 INCHES
POST MOUNTED	ALL TYPES	ALL SPEED LIMITS	6 INCHES	4.5 INCHES	3-2.25 INCHES	9 INCHES	1/2 INCH



**STANDARD DETAIL
STOP AND STREET
NAME SIGNS**

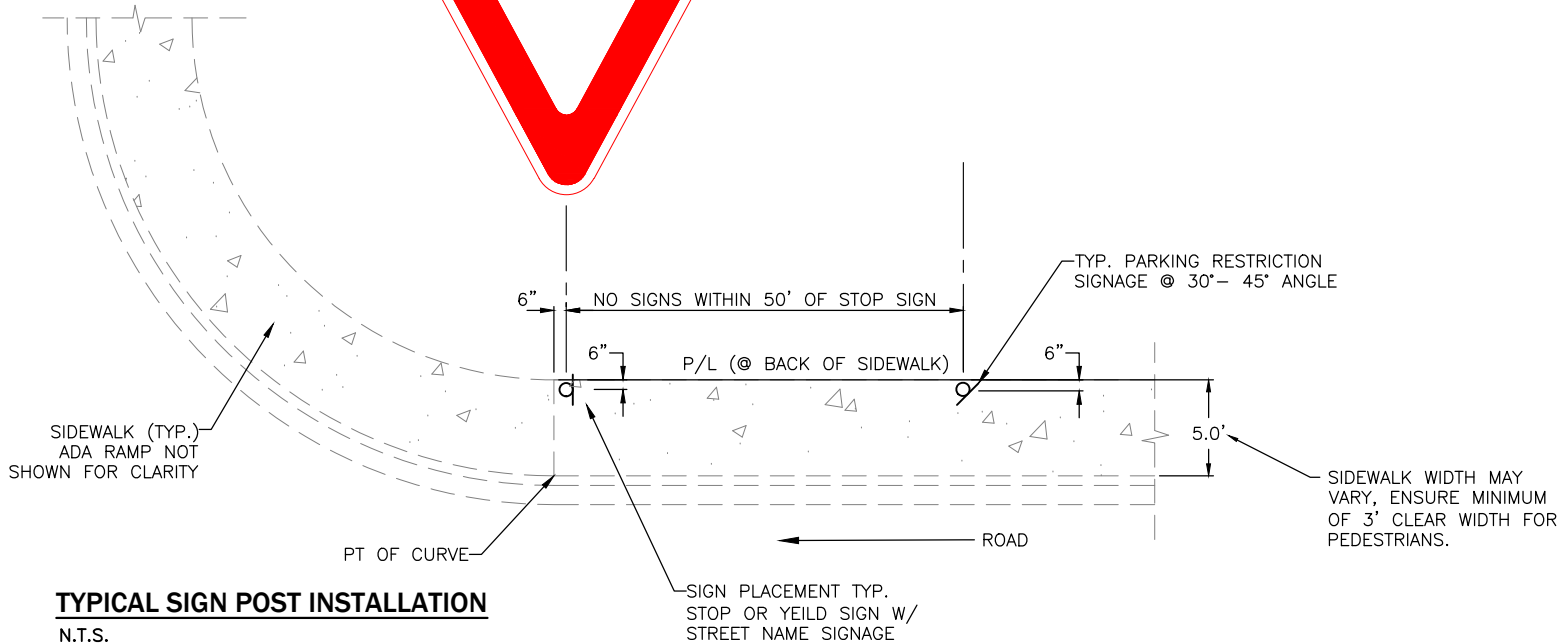
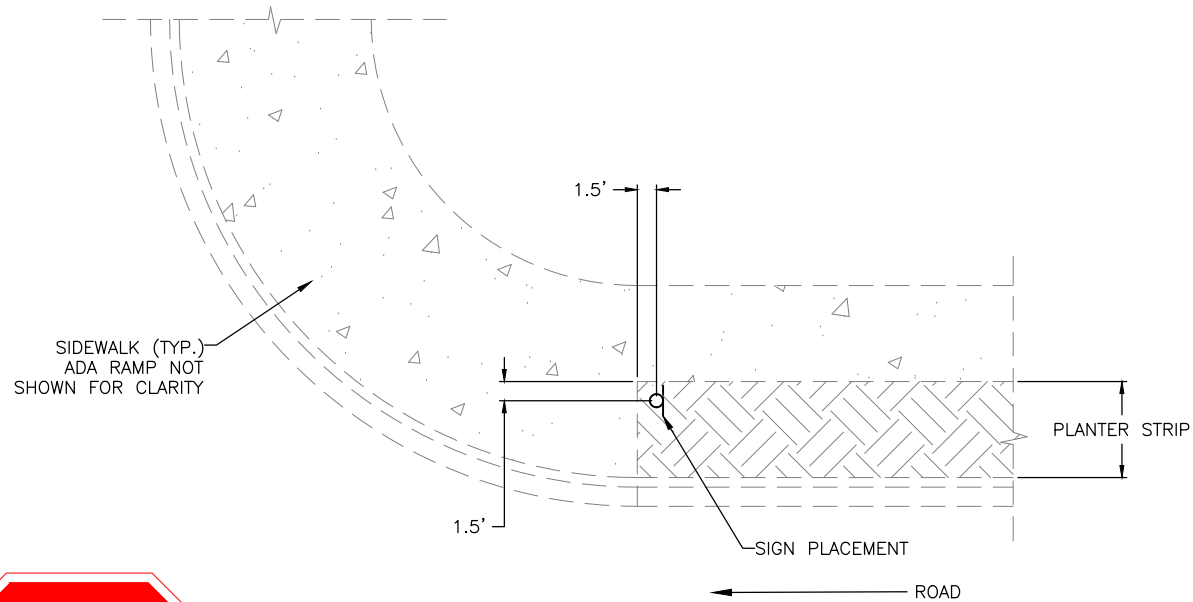


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					JTB	03/31/2023	

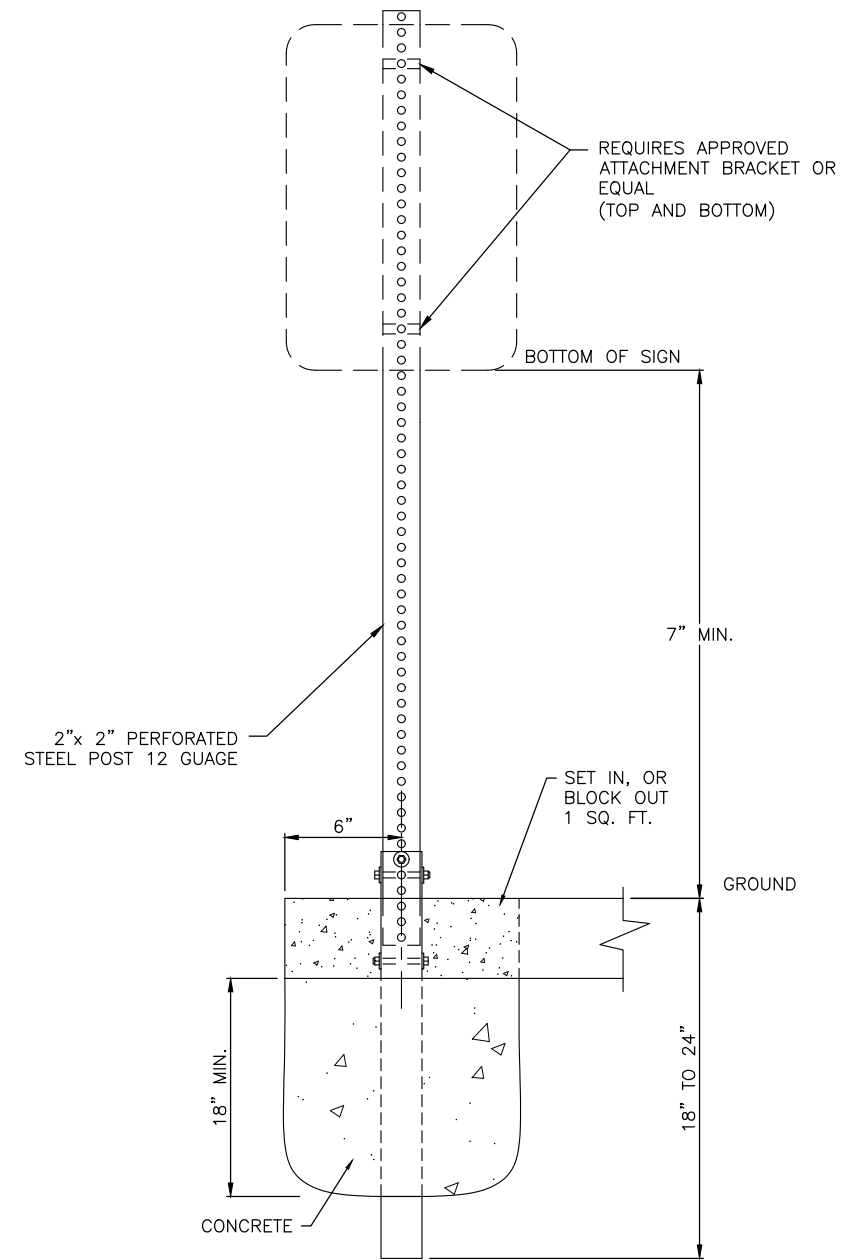
DETAIL NO.
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STANDARD SPECIFICATIONS
9-08 PAINT AND RELATED MATERIALS
9-28 SIGNING MATERIALS AND FABRICATIONS



TYPICAL SIGN POST INSTALLATION
N.T.S.



R7 - 1

NOTES:

1. SEE R-200 FOR DETAILS ON BASE.
2. IF ROW PERMITS SIGN POST INSTALLATION BEHIND SIDEWALK, 12"-18" FROM BACK OF WALK PREFERRED.
3. NO PARKING SIGN MAY USE "HERE TO CORNER" IN PLACE OF "ANY TIME" OR AS SPECIFIED BY THE CITY.
4. REGULATORY MUTCD SIGNS THICKNESS 0.080-IN ALUMINUM SHEET FOR 36-IN AND SMALLER SIZES.

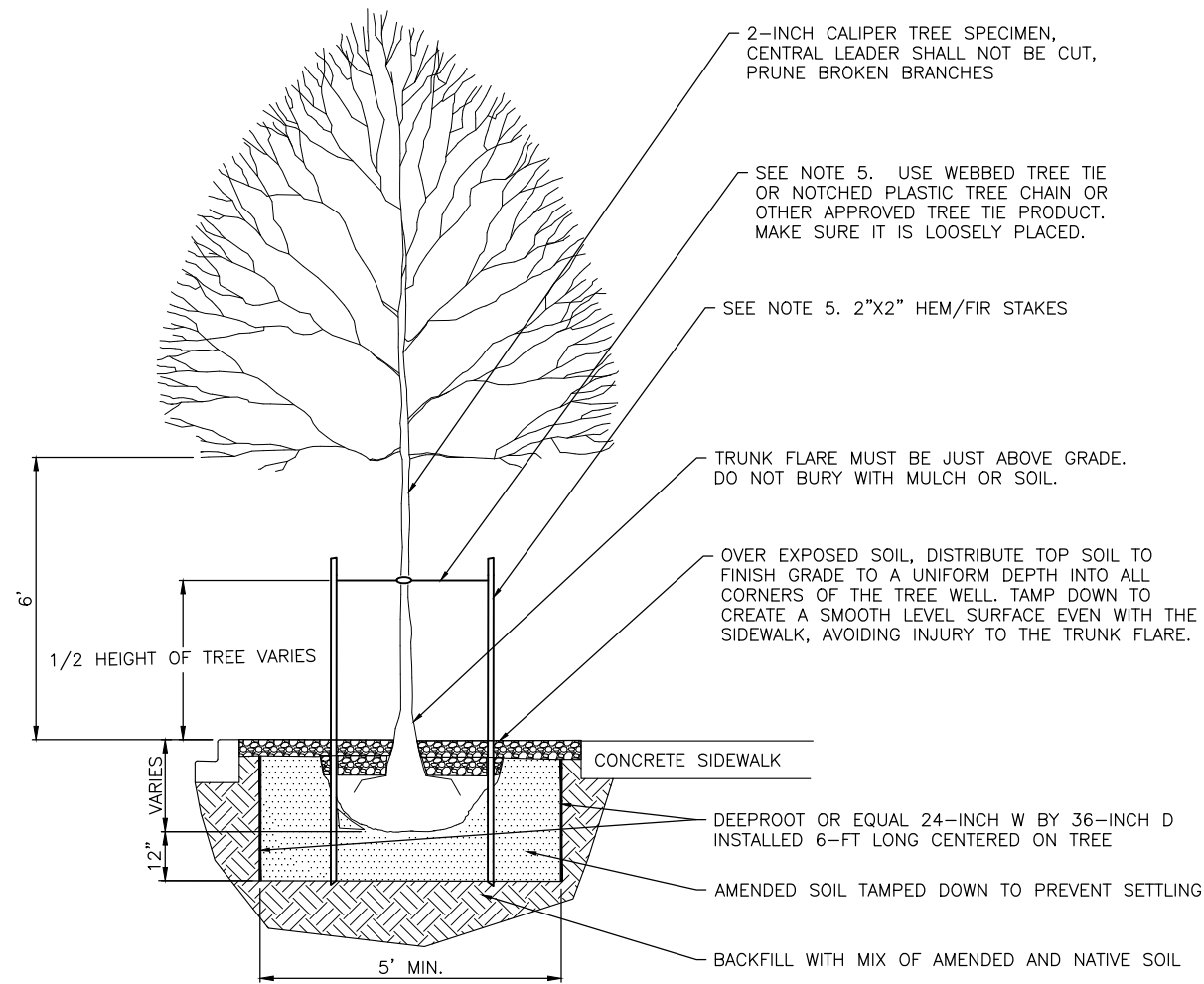
**STANDARD DETAIL
SIGN PLACEMENT
NEAR SIDEWALKS**



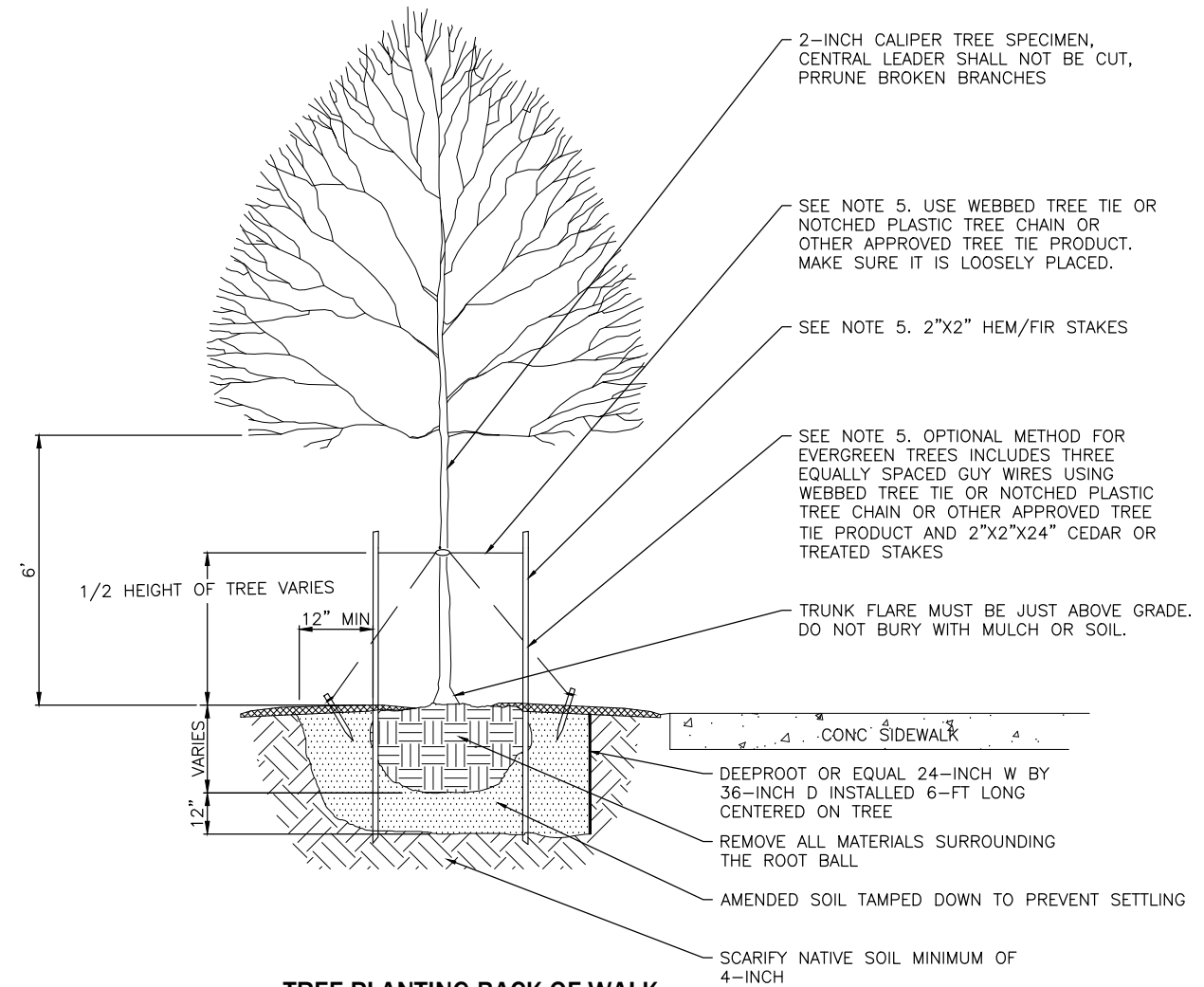
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					01/12/2022	AJS		
					03/31/2023	JTB		

DETAIL NO.
R-210

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TREE WELL

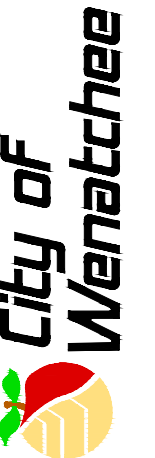


TREE PLANTING BACK OF WALK

NOTES:

1. SIZE OF PLANTING PIT SHALL BE 3 TIMES LARGER THAN ROOT BALL.
2. FOR DECIDUOUS TREES, 2-INCH CALIPER MINIMUM AND BRANCHING STARTS 5-FT ABOVE GRADE (UNLESS OTHERWISE APPROVED BY THE CITY).
3. FOR PLANTING DISTANCES NEAR INTERSECTIONS AND DRIVEWAYS. REFER TO SIGHT DISTANCE STANDARDS.
4. TREES SHALL NOT BE PLANTED WITHIN 10-FT OF ANY UG UTILITY ACCESS, WHICH MAY BE LOCATED IN THE PLANTER STRIP OR ADJACENT SIDEWALK (UNLESS OTHERWISE APPROVED BY THE CITY).
5. REMOVE ALL MATERIALS SURROUNDING THE ROOT BALL.
6. STAKE IF REQUIRED BY THE CITY AND INCLUDE TIMELINE FOR REMOVAL OF STAKES AND TIES.
7. ROOT BARRIER TO BE DEEPROOT (OR APPROVED EQUAL) 24-INCH WIDTH BY 36-INCH DEPTH BY 6-FT LONG TOTAL INSTALLED ON BOTH CURB AND SIDEWALK SIDE.
8. NO EVERGREEN TREES IN PUBLIC RIGHT OF WAY.

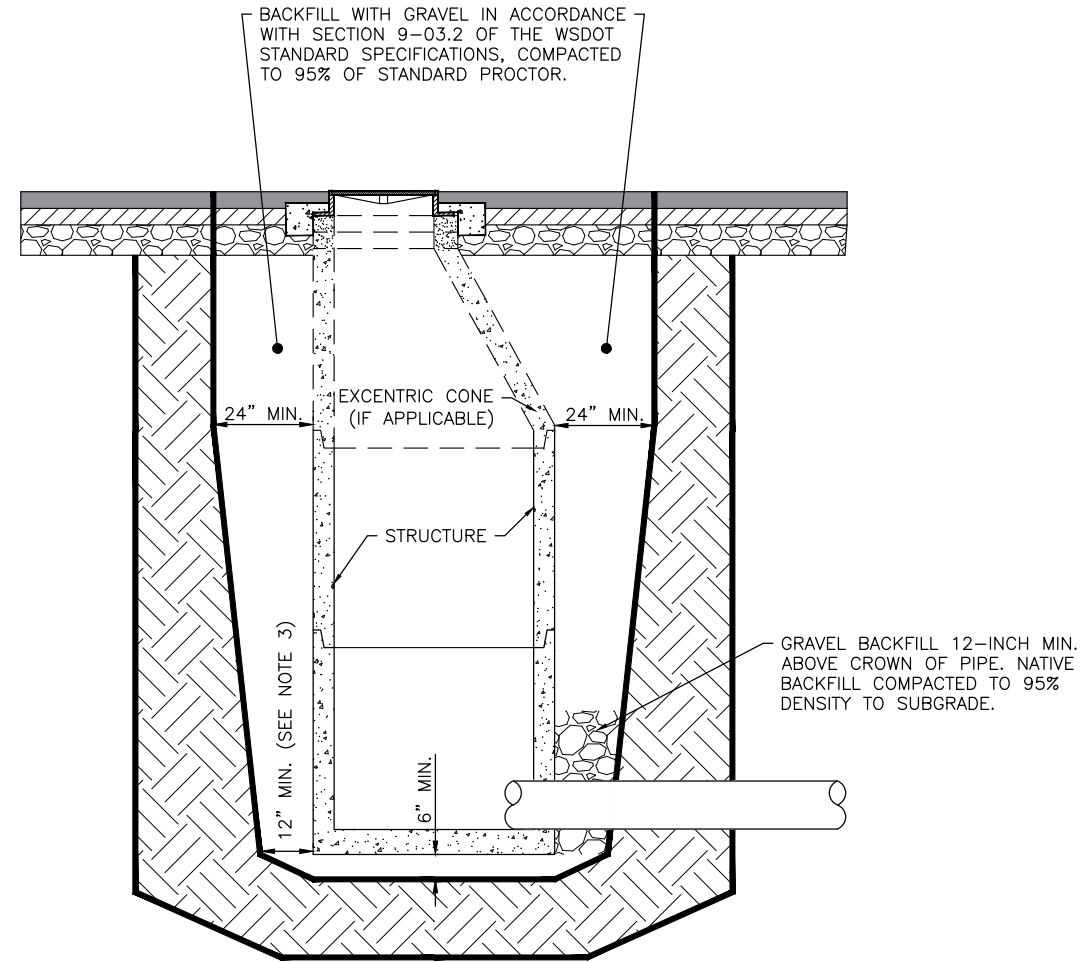
**STANDARD DETAIL
TREE WELL**



SCALE: AS SHOWN	DATE DRAWN 10/20/2020	REVISIONS	
		DATE	INITIAL
DESIGNED CAW	CHECKED	01/01/2022	AJS
APPROVED BY	DATE APPROVED	03/31/2023	JTB
STANDARD SPECIFICATIONS			

DETAIL NO.
R-250

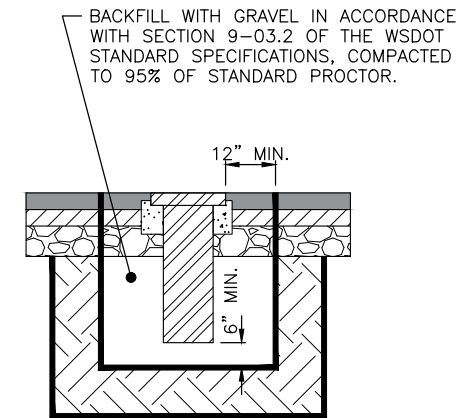
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1 OF 1



COMPACTION REQUIREMENTS FOR STORM DRAIN AND SANITARY SEWER STRUCTURES
N.T.S.

NOTES:

1. STRUCTURES INCLUDE STORM DRAIN MANHOLES, CATCH BASINS, AND SANITARY SEWER MANHOLES.
2. REQUIREMENTS APPLY TO VALVE CANS AS SHOWN.
3. CLEARANCE SHALL BE LARGE ENOUGH TO USE A MECHANICAL COMPACTOR.
4. REFER TO CITY DETAIL R-330 FOR UTILITY ADJUSTMENTS.
5. BACKFILL SHALL BE COMPACTED IN A MAXIMUM OF 6-INCH LIFTS.



VALVE CAN DETAIL
N.T.S.

**STANDARD DETAIL
STRUCTURE COMPACTION
REQUIREMENTS**



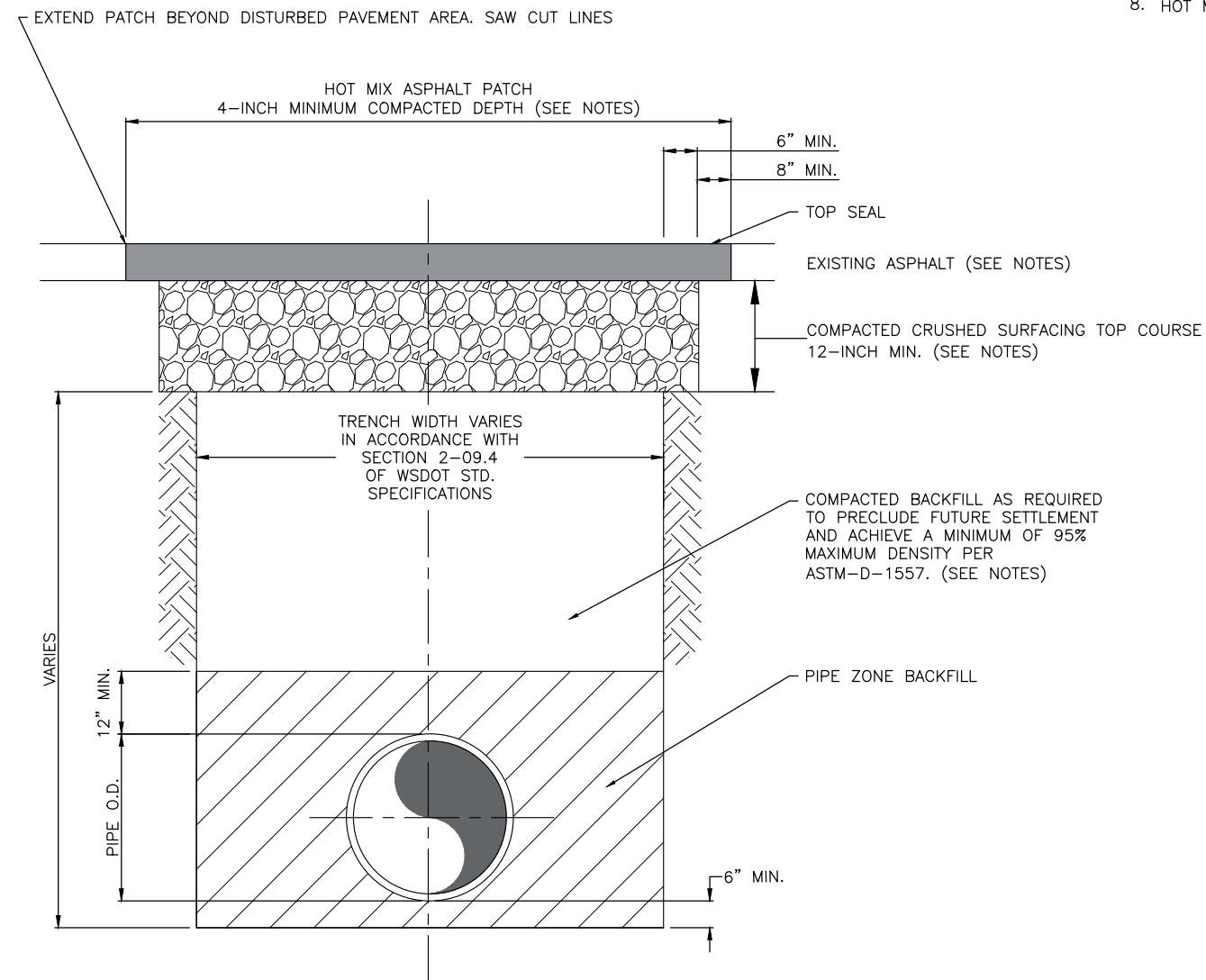
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DRAWN RLK		JB	01/01/2022	AJS			
APPROVED BY			03/31/2023	JTB			
STANDARD SPECIFICATIONS							

DETAIL NO.
R-300

PAGE
1 OF 1

TRENCH REPAIR CONSTRUCTION NOTES

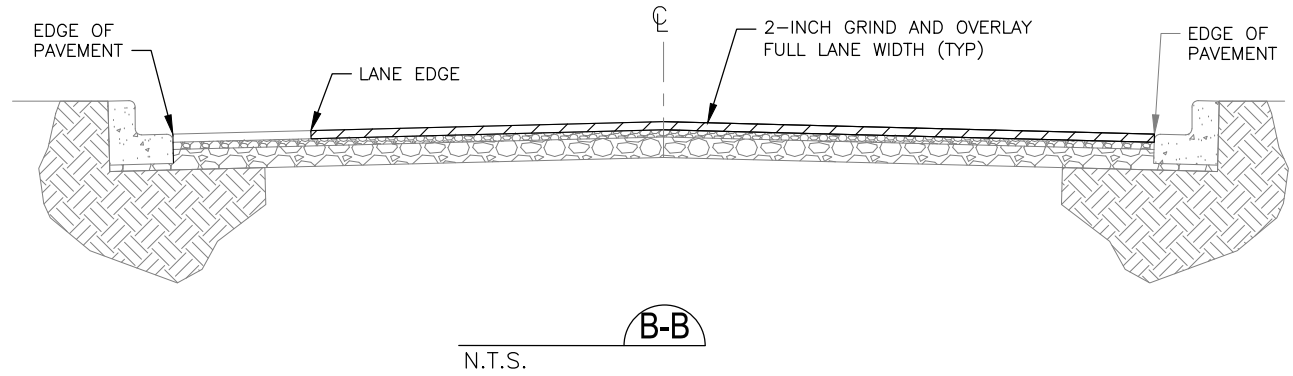
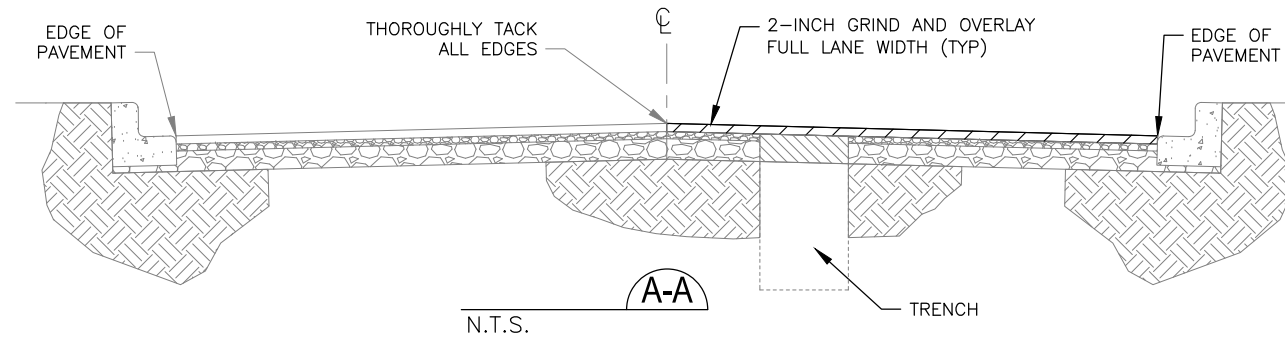
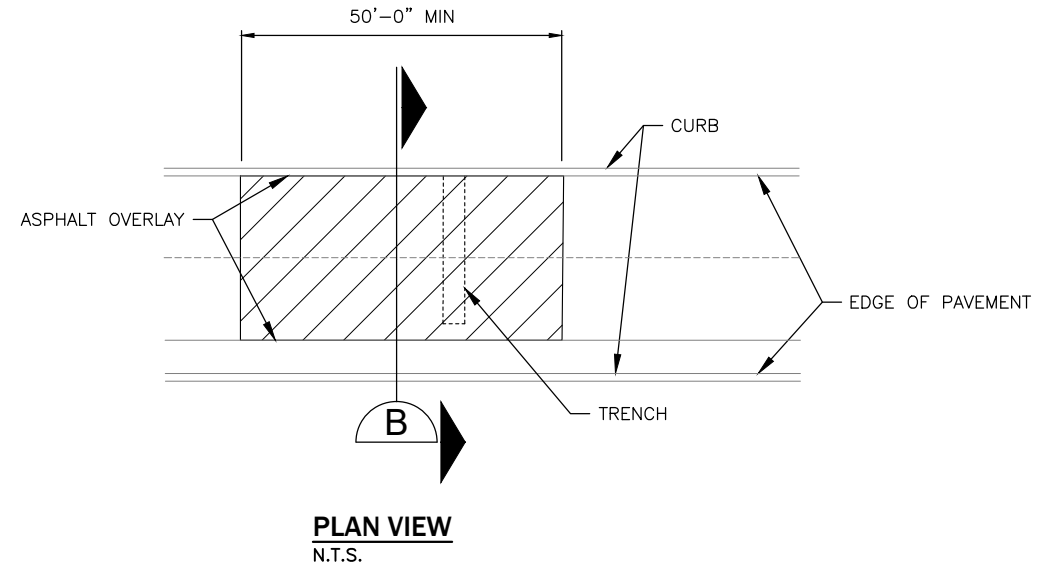
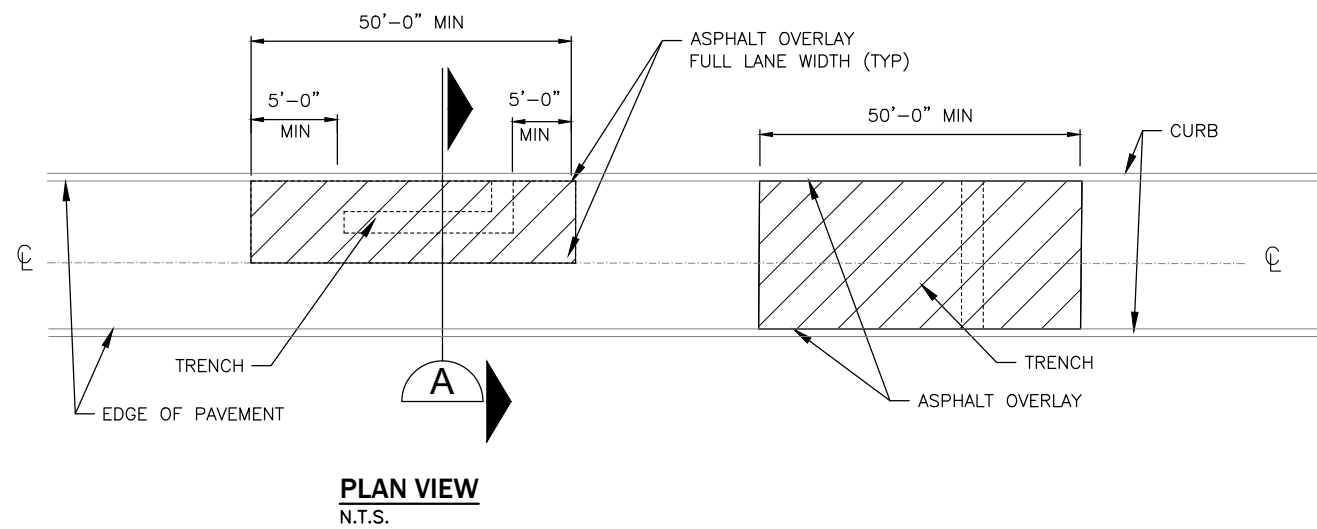
- HOT MIX ASPHALT SHALL BE PLACED IN TWO OR MORE LIFTS TO A MINIMUM TOTAL COMPACTED DEPTH OF 4-INCH OR MATCH THE EXISTING ASPHALT DEPTH. PORTLAND CEMENT CONCRETE STREETS SHALL BE PLACED TO A MINIMUM DEPTH OF 6-INCH OF CLASS 3000 COMMERCIAL GRADE CONCRETE OR MATCH EXISTING DEPTH, WHICHEVER IS GREATER.
- IF PORTLAND CEMENT CONCRETE IS ENCOUNTERED UNDER EXISTING ASPHALT: THE CONTRACTOR SHALL REPLACE WITH 6-INCH OF CLASS 3000 COMMERCIAL GRADE CONCRETE OR MATCH THE DEPTH OF THE EXISTING CONCRETE, WHICHEVER IS GREATER.
- SHOULD THE NUMBER OF CROSS TRENCHES (THOSE PERPENDICULAR TO THE DIRECTION OF THE ROADWAY) REPRESENT MORE THAN ONE TRENCH PER 75-FT OF THE STREET OF A GIVEN BLOCK AND THE TOTAL NUMBER OF TRENCHES EXCEEDS EIGHT, THE PERMITEE SHALL BE REQUIRED TO OVERLAY THE EXISTING ROADWAY SURFACE IF THE ROADWAY IS LESS THAN FIVE YEARS OLD. THE OVERLAY DEPTH SHALL BE SPECIFIED BY THE CITY ENGINEER.
- IN THOSE CASES WHERE THE TRENCH IS GENERALLY RUNNING PARALLEL TO THE ROADWAY AND THE DISTANCE FROM THE EDGE OF THE ROADWAY IS LESS THAN 4-FT, THE CONTRACTOR SHALL REMOVE THE ROADWAY TO THE OUTER EDGE OF THE ROADWAY TO THE OUTER EDGE OF THE ROADWAY AND PAVE THIS AREA.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW AND AFTER PLACEMENT OF TOP ROCK THE ROADWAY SHALL BE RE-CUT A DISTANCE OF EIGHT INCHES, OR GREATER AS DIRECTED BY THE CITY ENGINEER.
- COMPACTED CRUSHED SURFACING SHALL BE USED FOR BACKFILL IN ALL TRANSVERSE CROSSING TRENCHES.
- ALL ASPHALT JOINTS AND TAPERED TRANSITIONS SHALL BE SEALED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-03.
- HOT MIX ASPHALT CL 1/2-INCH PG 64-28.



**STANDARD DETAIL
TRENCH REPAIR
AND COMPACTION**

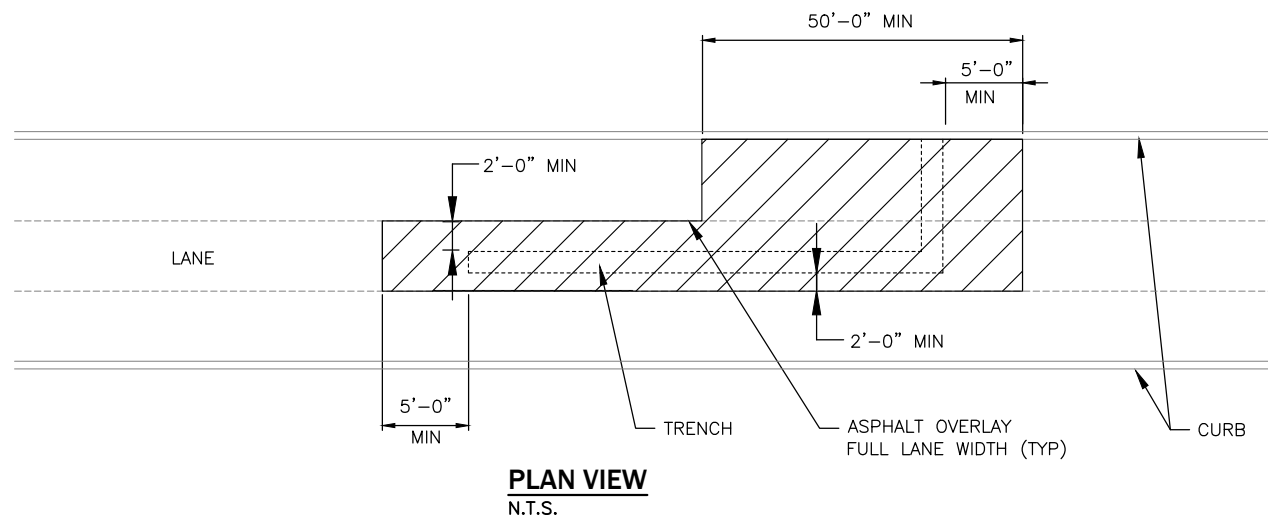


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NOTES:

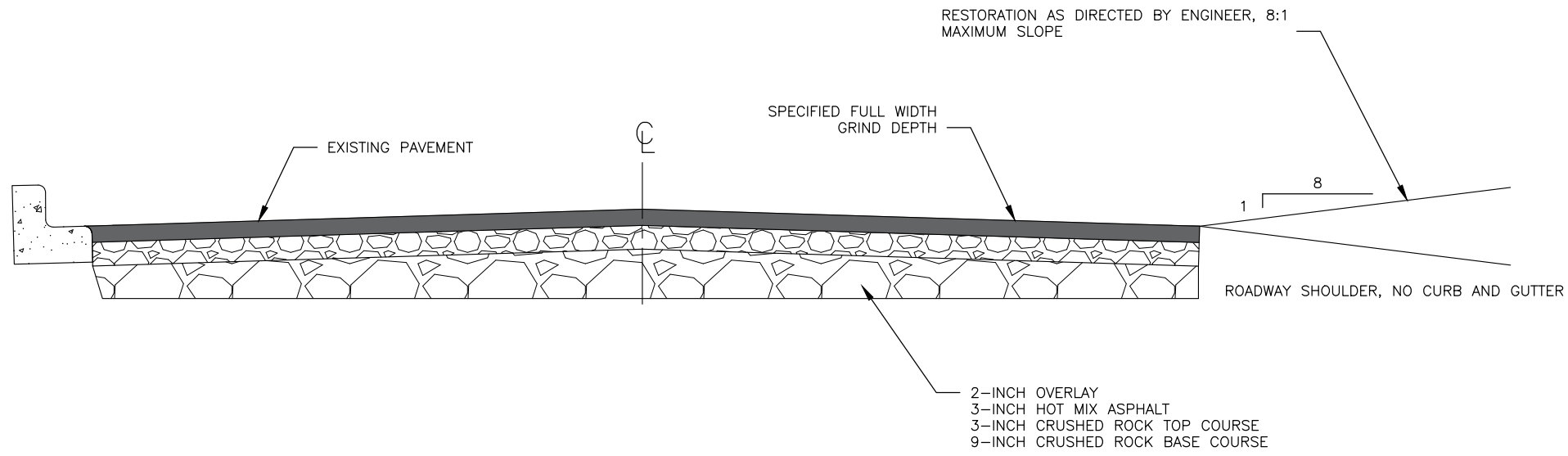
1. SEE CITY OF WENATCHEE POLICY R-2 FOR THE STREET ASPHALT OVERLAY POLICY. ONLY FOR ROADS RECENTLY OVERLAID WITHIN THE THE LAST 5 YEARS.
2. OVERLAY AREA MAY BE MODIFIED BY CITY ON OLDER PAVEMENT DEPENDING ON CONDITIONS OR SCHEDULED CONSTRUCTION/MAINTENANCE.
3. ADJUST ALL UTILITY CASTING TO FINISH GRADE AND RESTORE CHANNELIZATION AND LOOP DETECTORS.
4. POTHOLES TO BE RESTORED WITH A 1' T-CUT. IF AFTER THE 1' T-CUT THE PATCH IS MORE THAN 4'X4', A GRIND AND OVERLAY IS REQUIRED UNLESS OTHERWISE APPROVED BY PUBLIC WORKS. IF THE PATCH IS WITHIN 2 LANES OF TRAVEL, THE GRIND AND OVERLAY WILL BE REQUIRED ON BOTH LANES. 50-FT MIN. LENGTH.
5. INTENDED ONLY FOR DRIVING LANE.



**STANDARD DETAIL
ASPHALT OVERLAY
FOR TRENCH REPAIR**



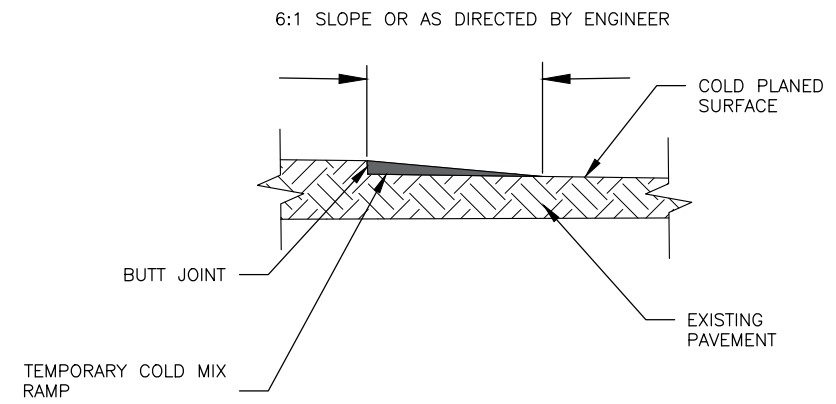
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DESIGNED	10/02/2020			01/01/2022	AJS	03/31/2023	JTB
DRAWN							
APPROVED BY							
STANDARD SPECIFICATIONS							



FULL WIDTH COLD PLANING DETAIL

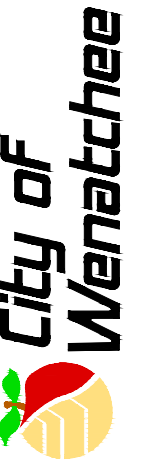
NOTES:

1. ALL JOINTS PLANED PERPENDICULAR TO TRAVEL LANES SHALL BE IMMEDIATELY PAPER JOINTED, COLD MIXED, AS PER THIS DETAIL, AND MAINTAINED UNTIL HMA LAYER IS INSTALLED. PAPER JOINTS WILL BE REMOVED JUST PRIOR TO PLACEMENT OF WEARING COURSES.
2. ALL COLD MIX RAMPS WILL USE A BUTT JOINT

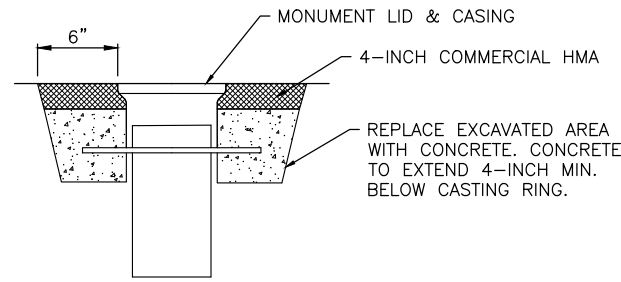


COLD MIX RAMP

**STANDARD DETAIL
FULL WIDTH COLD
PLANING DETAIL**

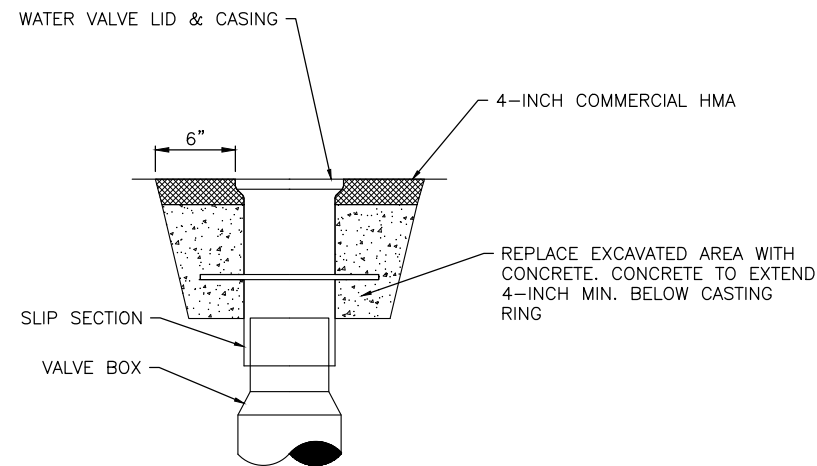


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10/02/2020					01/01/2022	AJS	03/31/2023	JTB	



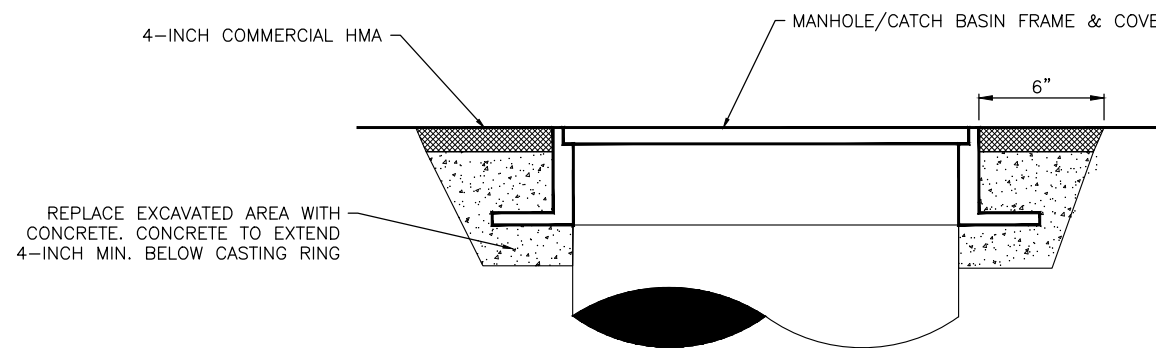
MONUMENT ADJUSTMENT DETAIL

N.T.S.



WATER VALVE ADJUSTMENT DETAIL

N.T.S.



MANHOLE, CATCH BASIN ADJUSTMENT DETAIL

N.T.S.

NOTES:

1. THE HIGHEST POINT ON THE CASING, RING, OR COVER SHALL BE NO LESS THAN FLUSH AND NO MORE THAN $\frac{1}{8}$ -INCH BELOW FINISHED GRADE.
2. USE PRE-CAST CONCRETE ADJUSTING RINGS TO RAISE THE FRAMES ON MANHOLES AND CATCH BASINS.
3. ADJUSTING RINGS SHALL BE GROUTED INSIDE AND OUT USING 6000 P.S.I. GROUT.
4. ASPHALT PATCH TO MATCH THE ADJACENT ASPHALT SURFACES.

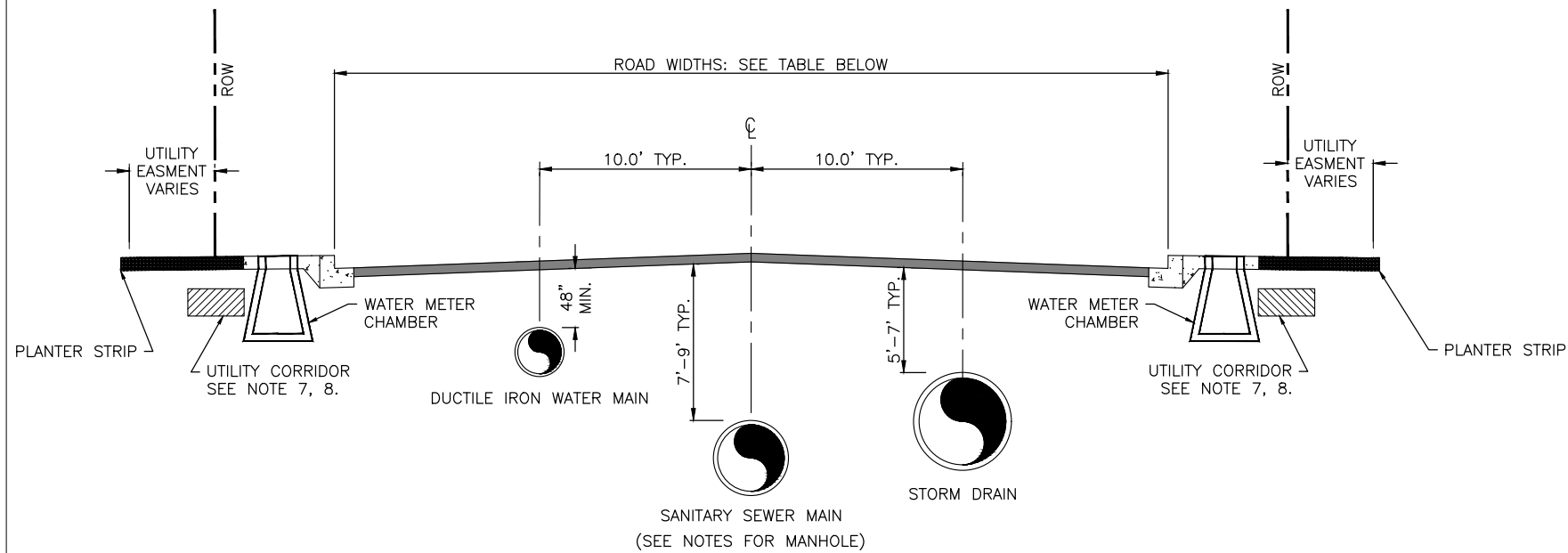
**STANDARD DETAIL
UTILITY ADJUST**



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DESIGNED	02/06	08/20	CAW		
DRAWN	CHECKED	01/01/2022	AIS		
APPROVED BY	DATE APPROVED	03/31/2023	JTB		
STANDARD SPECIFICATIONS					

DETAIL NO.
R-330

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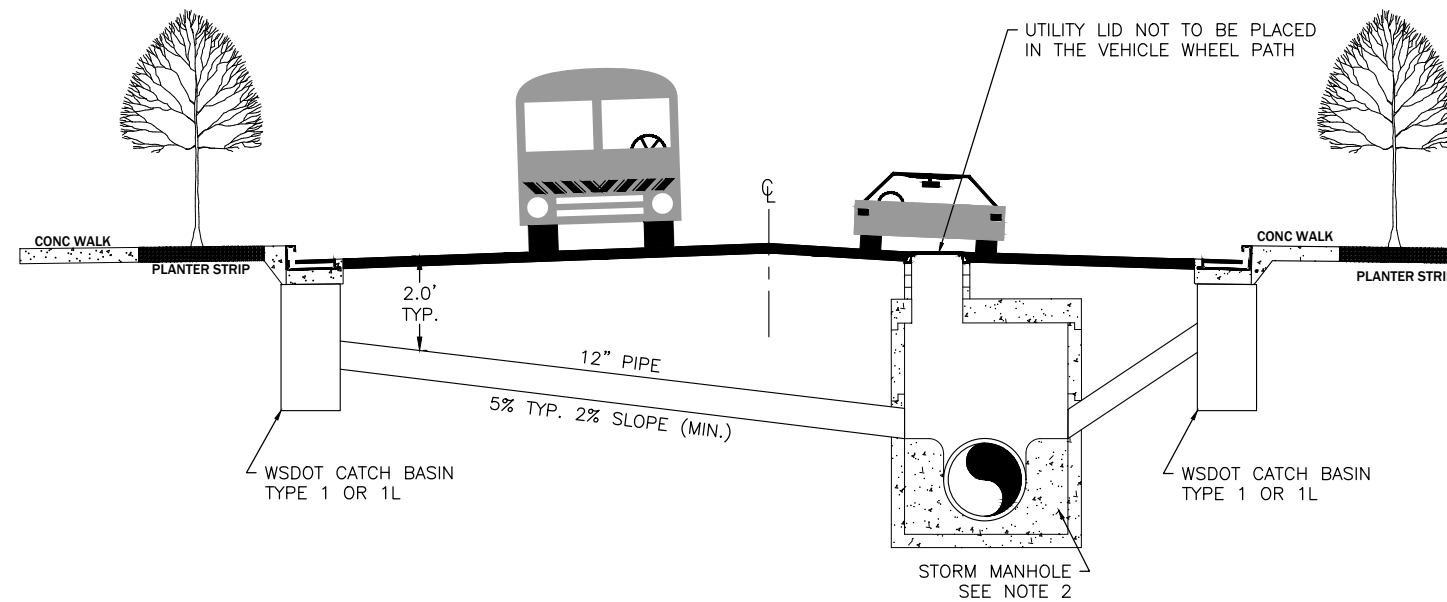
TYPICAL UTILITY PLACEMENT

N.T.S.

NOTES:

1. SANITARY SEWER MANHOLES SHALL BE WSDOT MANHOLE TYPE 1 AND BE CHANNELIZED.
2. STORM SEWER MANHOLES SHALL BE WSDOT MANHOLE TYPE 3 AND BE CHANNELIZED.
3. THROUGH CURB INLET SHALL BE USED WITH ALL CATCH BASINS UNLESS OTHERWISE APPROVED.
4. ALL WATER & SEWER SEPARATION MUST BE DONE IN ACCORDANCE WITH DOE CRITERIA FOR SEWER WORKS DESIGN.
5. ALL CATCH BASINS SHALL HAVE A MINIMUM OF A 21" SUMP.
6. CATCH BASIN OUTLET PIPE TYPICAL 12" DIAMETER.
7. STORM SEWER LATERALS IN ACCORDANCE WITH D-200.
8. SANITARY SEWER LATERALS IN ACCORDANCE WITH S-100
9. STREET LIGHT CONDUITS SHALL BE PLACED ACCORDING TO STREET LIGHTING DETAILS. ALL OTHER UNDERGROUND UTILITIES SHALL BE PLACED BEHIND THE SIDEWALK SO AS NOT TO OBSTRUCT THE PLACEMENT OF FUTURE WATER CHAMBER.
10. THE UTILITY CORRIDOR SHOULD BE PLACED IN THE PLANTER STRIP RESERVING PLACEMENT FOR STREET TREES.

ROAD WIDTH TABLE						
	PRIVATE LANE<500--FEET	RESIDENTIAL LANE	PRIVATE LANE>=500--FEET	LOCAL	COLLECTOR	ARTERIAL
CURB TO CURB (FT)	20	24	27	34	38	44-56



STORM SEWER CONFIGURATION

N.T.S.

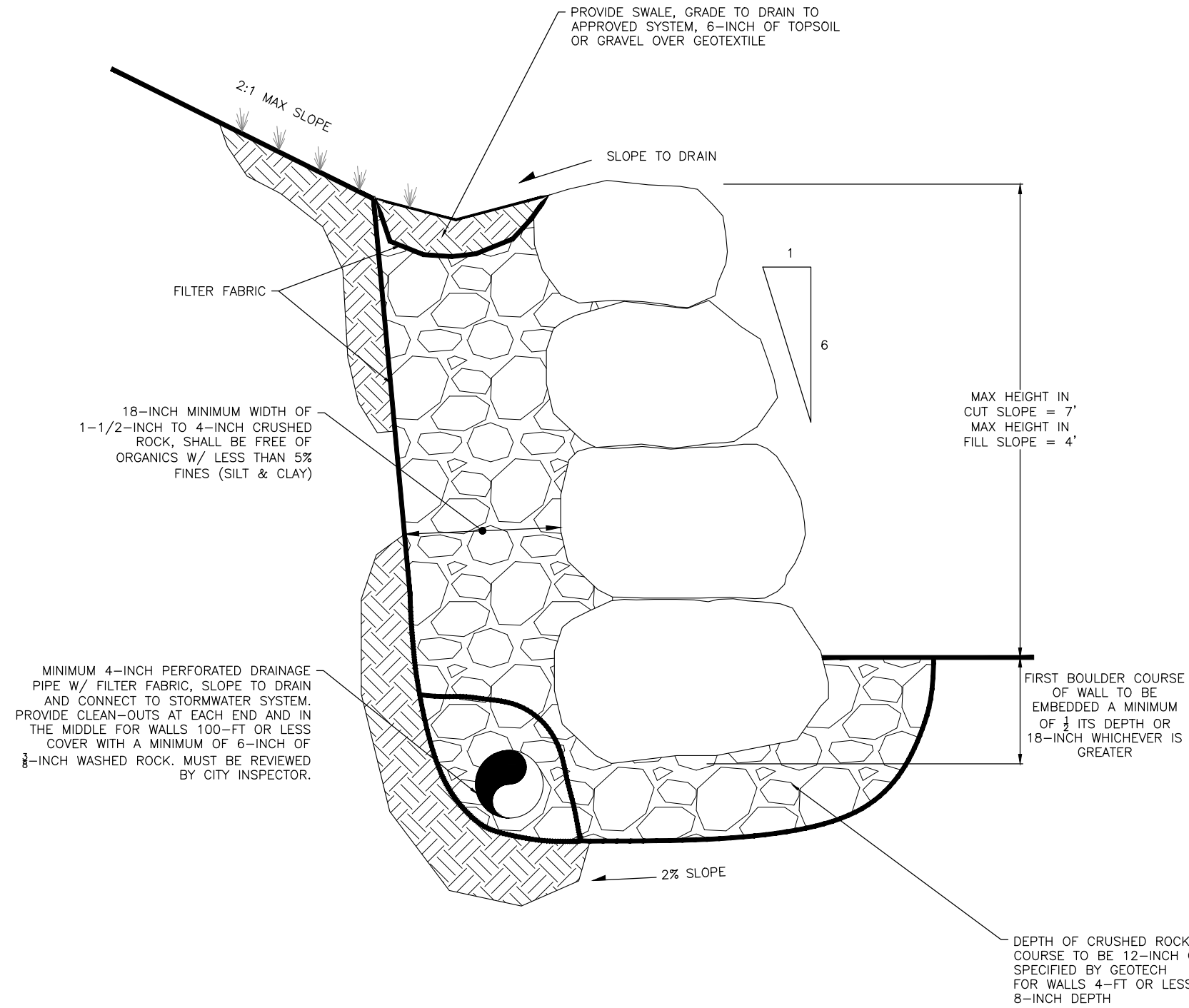
**STANDARD DETAIL
UTILITY LOCATIONS
FOR NEW ROADS**



SCALE: AS SHOWN	DESIGNED DMN	DRAWN CAW	APPROVED BY	STANDARD SPECIFICATIONS	REVISIONS				
					DATE	INITIAL	DATE	INITIAL	
09/09/2021					01/01/2022	AJS	03/31/2023	JTB	

DETAIL NO.
R-350

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1 OF 1



NOTES:

1. CALL FOR CLEAR AND GRADE INSPECTION PRIOR TO BASE COURSE BEING PLACED. VERIFICATION OF ROCKERY HEIGHT, FOUNDATION MATERIAL, AND ROCK SIZE BY CITY CLEAR AND GRADE INSPECTOR IS REQUIRED.
2. 4-INCH TO 6-INCH QUARRY SPALLS SHOULD BE PLACED DIRECTLY FROM TRUCK OR OTHER SUITABLE CONTAINER IN ORDER TO MAINTAIN CLEAN BACKFILL.
3. SPALLS MAY NOT BE NEEDED AT BASE OF ROCKERY IF NATIVE FOUNDATION MATERIAL IS SUITABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR THE CITY CLEARING AND GRADING INSPECTOR.
4. OPENINGS CHINKED WITH QUARRY SPALLS.
5. IF ROCKERY HEIGHT EXCEEDS 4-FEET, IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL/CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON. NO ROCKERY SHALL BE GREATER THAN 7-FEET IN HEIGHT UNLESS APPROVED BY CITY.
6. A ROCKERY GREATER THAN 4-FEET IN HEIGHT AND ON PRIVATE PROPERTY SHALL REQUIRE A BUILDING PERMIT WITH A THIRD PARTY INSPECTION TO BE CONSTRUCTED.
7. FILTER FABRIC SHALL BE MIRAFI 140 N SERIES OR APPROVED EQUAL.
8. OUTLET OF PERFORATED PIPE TO BE DETERMINED BEFORE CONSTRUCTION.

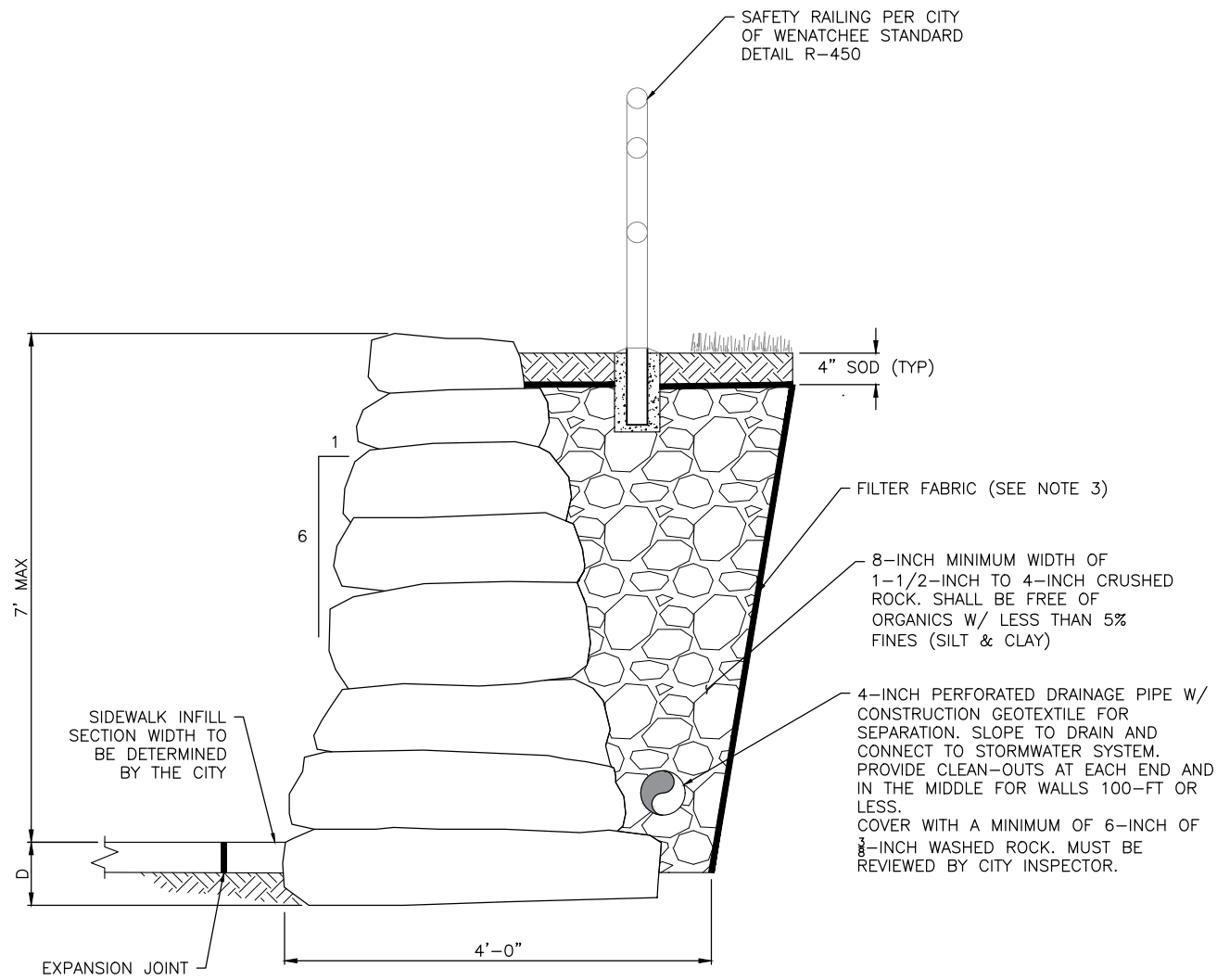
**STANDARD DETAIL
ROCKERY WALL
IN ROW**



SCALE: AS SHOWN	DATE DRAWN 12/4/2020	REVISIONS		
		DATE	INITIAL	
DESIGNED	CHECKED	01/01/2022	AJS	
APPROVED BY	DATE APPROVED	03/31/2023	JTB	
DRAWN CAW				
STANDARD SPECIFICATIONS				

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R-400

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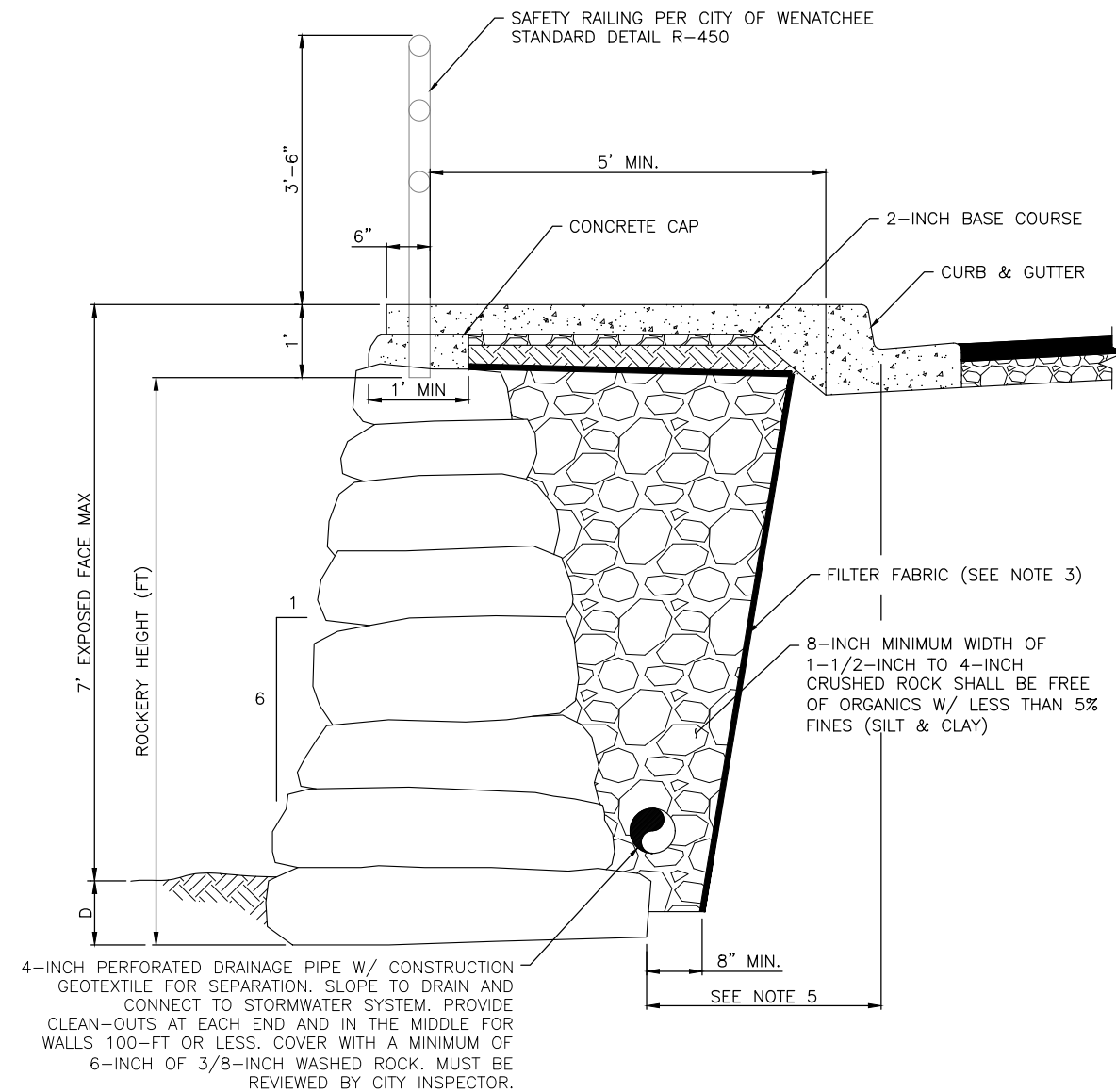


SIDEWALK BELOW ROCKERY

ROCKERY HEIGHT (FT)	EMBEDMENT (D)	MIN ROCK SIZE (BASE)	MIN ROCK SIZE (TOP)
2	3 INCHES	2-MAN	1-MAN
4	6 INCHES	3-MAN	2-MAN
6	9 INCHES	4-MAN	2-MAN
7	12 INCHES	5-MAN	2-MAN

NOTES:

1. ROCKERY MUST BE INSTALLED BY LICENSED CONTRACTOR.
2. IF ROCKERY HEIGHT EXCEEDS 4- FEET, IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL/CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
3. FILTER FABRIC SHALL BE MIRAFAI 140 N SERIES OR APPROVED EQUAL.
4. IF ROCKERY IS CLOSER THAN 1V:1H BELOW FACE OF CURB TO BACK OF BASE EMBEDMENT ROCK. IT MUST BE DESIGNED BY AN ENGINEER TO INCLUDE TRAFFIC LOADING OF 250-PSF SURCHARGE.



SIDEWALK ABOVE ROCKERY

**STANDARD DETAIL
ROW ROCKERY DETAIL
SIDEWALK SUPPORT**



SCALE: AS SHOWN	DESIGNED	DRAWN	APPROVED BY	DATE APPROVED	REVISIONS				
					DATE	INITIAL	DATE	INITIAL	
		CAW			10/22/2020	AJS	01/01/2022	JTB	

DETAIL NO.
R-410

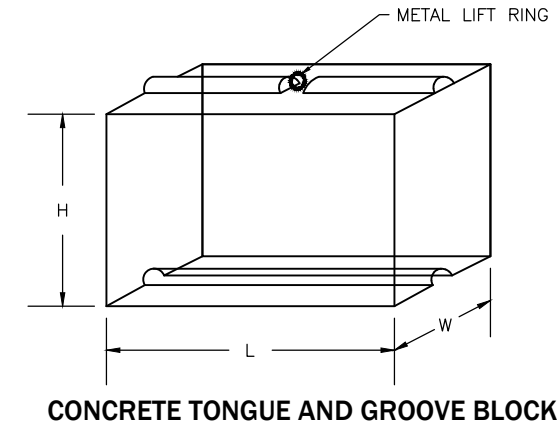
PAGE
1 OF 1

**STANDARD DETAIL
ECOLOGY BLOCK
WALL IN ROW**



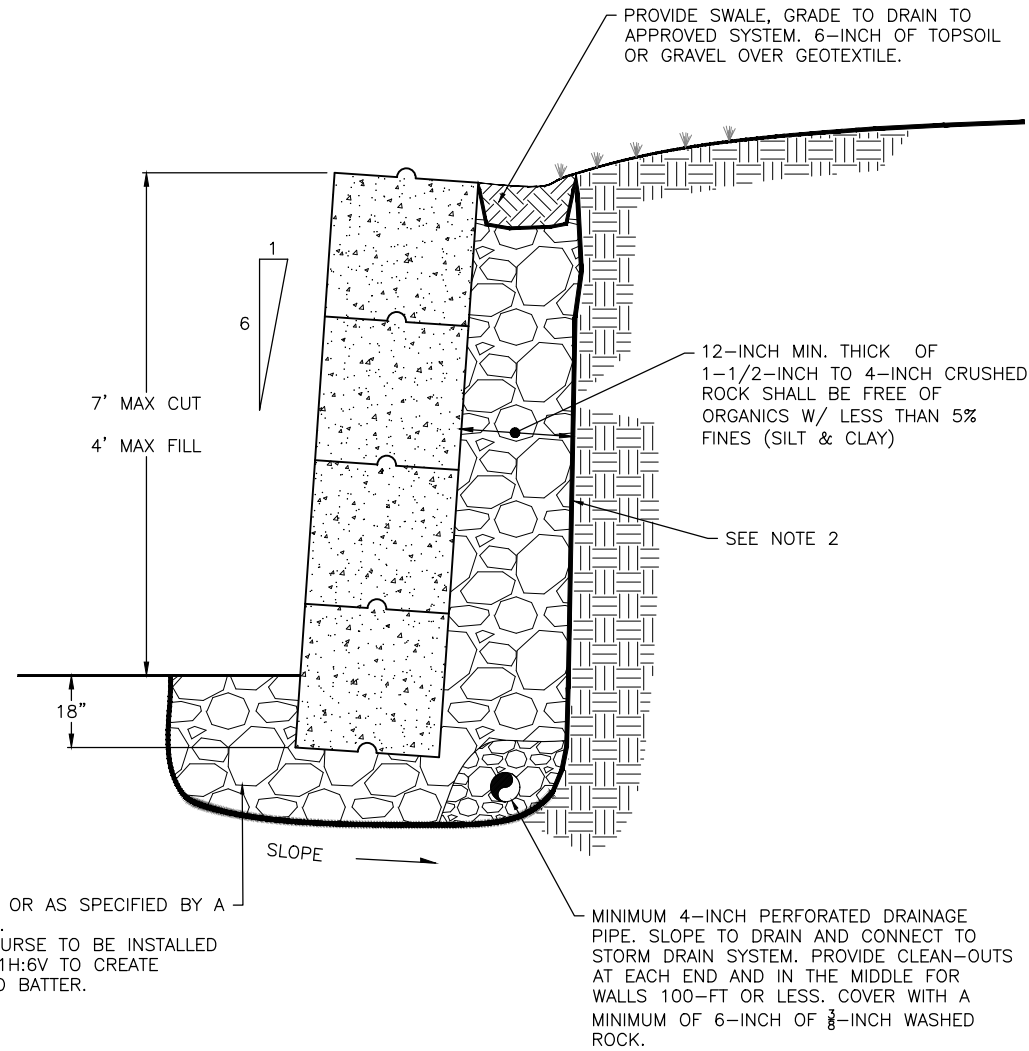
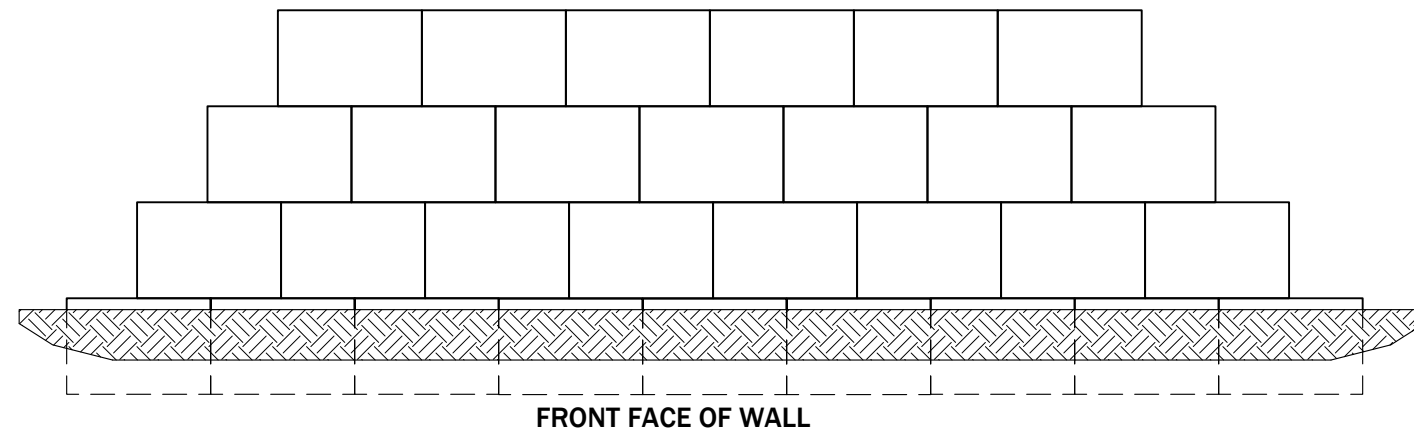
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DATE DRAWN	10/23/2020	CHECKED	DATE APPROVED	
REVISIONS	DATE	INITIAL	DATE	INITIAL
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	01/01/2022	AJS	03/31/2023	JTB

DETAIL NO.
R-420
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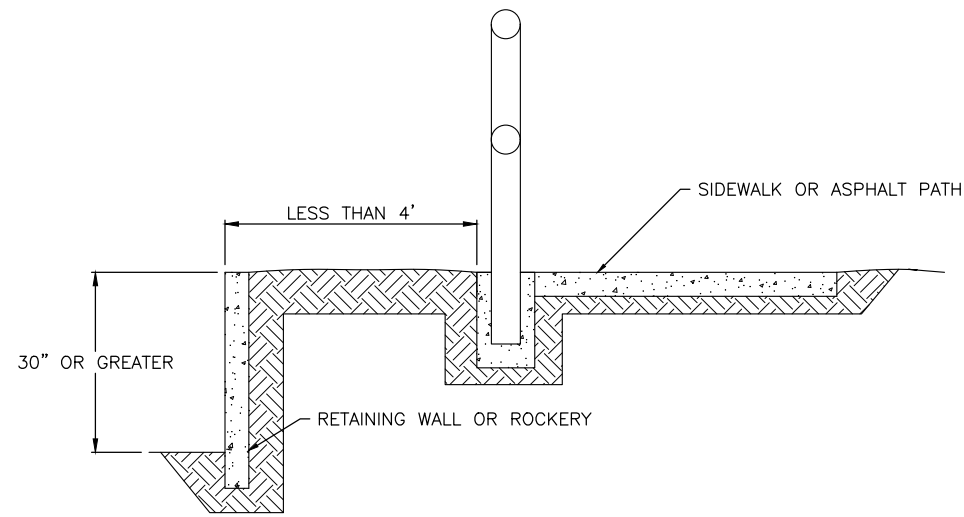
SIZES

H	L	W
2'-0"	3'-0"	2'-0"
2'-0"	6'-0"	2'-0"

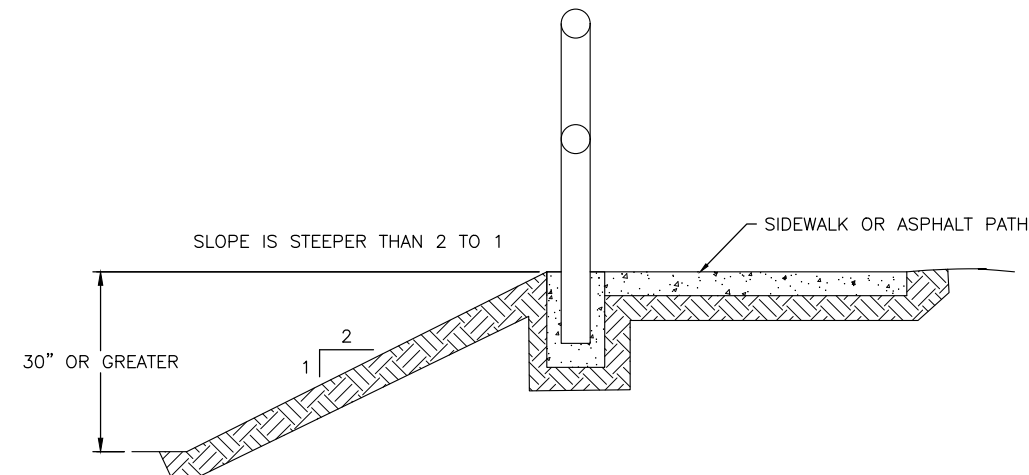


NOTES:

1. MAX DEPTH OF CUT SHALL BE 8 FEET, AND MAX DEPTH OF FILL SHALL BE 4 FEET OR AS APPROVED BY GEOTECHNICAL ENGINEER. IN ANY CASE, THE CITY MAY REQUIRE INSPECTION AND APPROVAL BY A GEOTECHNICAL ENGINEER.
2. FILTER FABRIC SHALL BE MIRAFI 140 N SERIES OR APPROVED EQUAL.
3. SPALLS MAY NOT BE NEEDED AT BASE OF ROCKERY IF NATIVE FOUNDATION MATERIAL IS SUITABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR THE CITY OF WENATCHEE.



CONDITION 1



CONDITION 2

NOTES:

1. SAFETY RAIL TYPE AND INSTALLATION TO BE SPECIFIED BY THE REVIEW ENGINEER.
2. SEE R-451 AND R-452 FOR SAFETY RAILINGS.

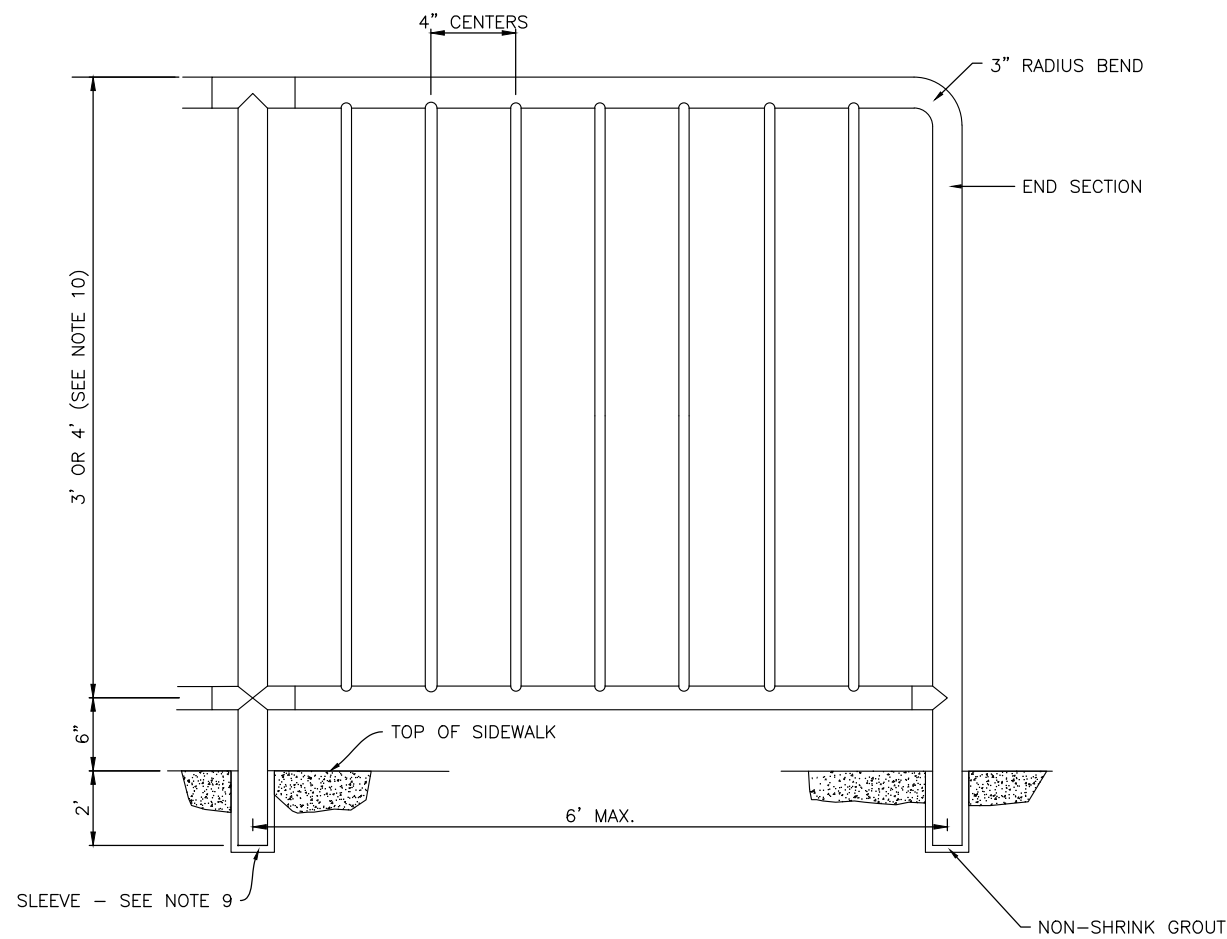
**STANDARD DETAIL
CONDITIONS REQUIRING
SAFETY RAILINGS**



SCALE: AS SHOWN	DATE DRAWN 10/20/2020	REVISIONS	
		DATE	INITIAL
DESIGNED	CHECKED	03/31/2023	JTB
DRAWN CAW			
APPROVED BY	DATE APPROVED		
STANDARD SPECIFICATIONS			

DETAIL NO.
R-450A

PAGE
1 OF 3



PIPE SCHEDULE
(ALL DIMENSIONS O.D.)

PANEL HEIGHT	TOP RAIL/POST	BOTTOM RAIL	BALUSTER
36"	1.90"	1.90"	.840"
42"	2.875"	2.375"	.840"

NOTES:

1. RAILING SHALL BE ALUMINUM PIPE RAIL OR APPROVED EQUIVALENT. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
3. ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING AT LEAST 0.0006 INCHES THICK AND BE HOT WATER SEALED AND SHALL HAVE UNIFORM FINISH.
4. PIPE RAILING AND PIPE RAILING SPLICES MAY BE HEATED TO NO MORE THAN 400°F FOR A PERIOD TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING.
5. CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
6. PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
7. WELDING OF ALUMINUM SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
8. ALLOW FOR EXPANSION AT APPROXIMATELY EVERY FOURTH POST.
9. RAILS, POSTS AND FORMED ELBOWS SHALL BE A.S.T.M. B-241 OR B-429 ALLOY, 6063-T6 SCHEDULE 40 (STD. PIPE). BRACKETS, ENDCAPS AND OTHER FITTINGS SHALL BE A.S.T.M. 6063-T5. SPLICES AND REINFORCING SLEEVES SHALL BE DRAWN ALUMINUM TUBING 6063-T832. SLEEVE I.D. SHALL BE 1" GREATER POST O.D.
10. PANEL HEIGHT: 36 INCHES FOR PEDESTRIAN USES
42 INCHES FOR BIKE PATHS.

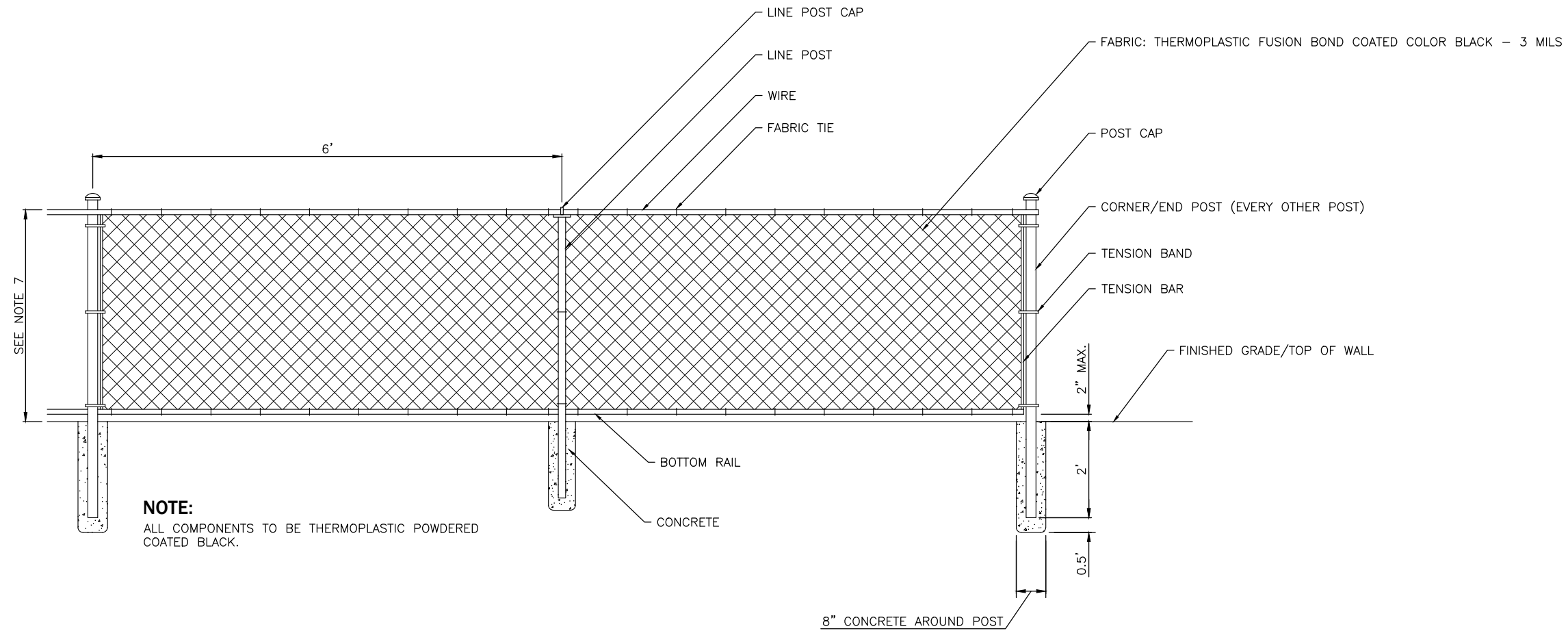
**STANDARD DETAIL
SAFETY RAILING
IN SIDEWALK**



SCALE: AS SHOWN	DESIGNED	DRAWN CAW	APPROVED BY	DATE DRAWN 10/20/2020	REVISIONS	
					DATE	INITIAL

DETAIL NO.
R-450B

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NOTE:
ALL COMPONENTS TO BE THERMOPLASTIC POWDERED COATED BLACK.

PIPE SCHEDULE
(ALL DIMENSIONS I.D.)

BOTTOM RAIL	CORNER/END POST	LINE POST
1.25"	2.5"	2"

NOTES:

1. ALL FENCING MATERIALS SHALL COMPLY WITH THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-16 CLASS 1 MATERIAL. INSTALLATIONS PER MANUFACTURER'S RECOMMENDATIONS.
2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
3. ALL STEEL PARTS SHALL BE GIVEN A BLACK ULTRAVIOLET-INSENSITIVE THERMOPLASTIC POWDER COATING AT LEAST 3 MILS THICK AND SHALL HAVE A UNIFORM FINISH.
4. CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
5. ALL MATERIALS SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
6. ANY WELDING OF STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.
7. PANEL HEIGHT: 36 INCHES FOR ALL PEDESTRIAN USES
42 INCHES FOR BIKE PATHS

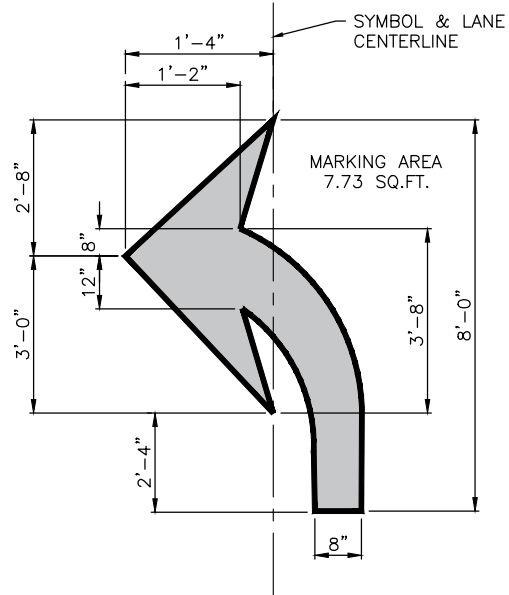
**STANDARD DETAIL
CHAIN LINK SIDEWALK
SAFETY RAIL**



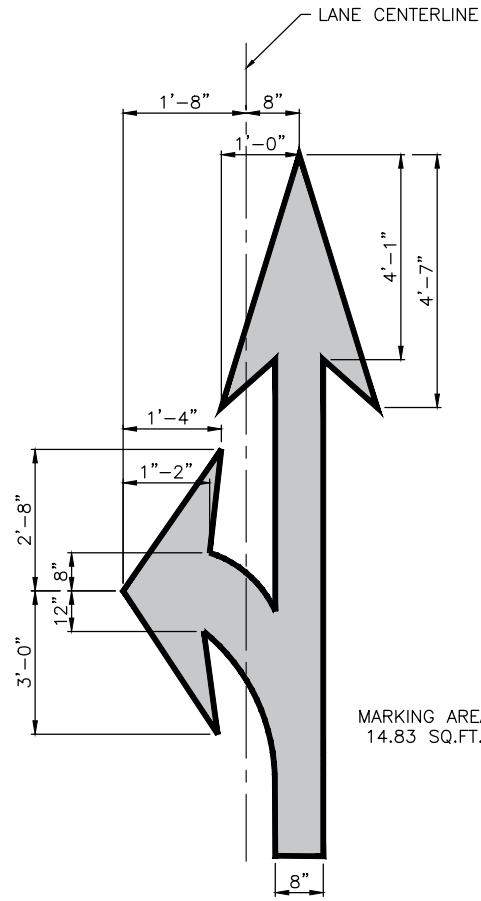
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DETAIL NO.
R-450C

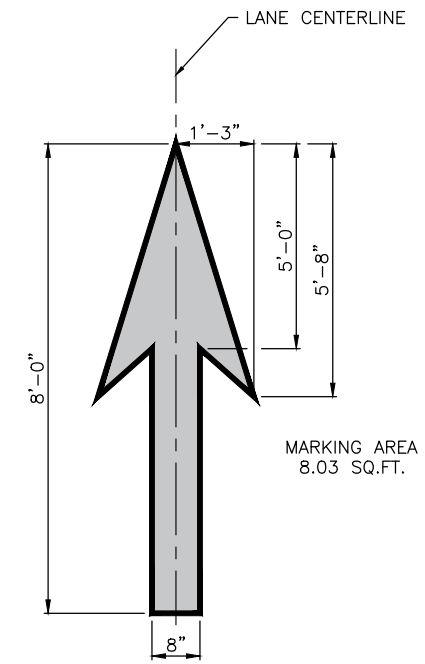
PAGE
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WSDOT STANDARD PLAN M-24.40-02
TURN ARROW
 N.T.S.



WSDOT STANDARD PLAN M-24.40-02
COMBINATION ARROW
 N.T.S.



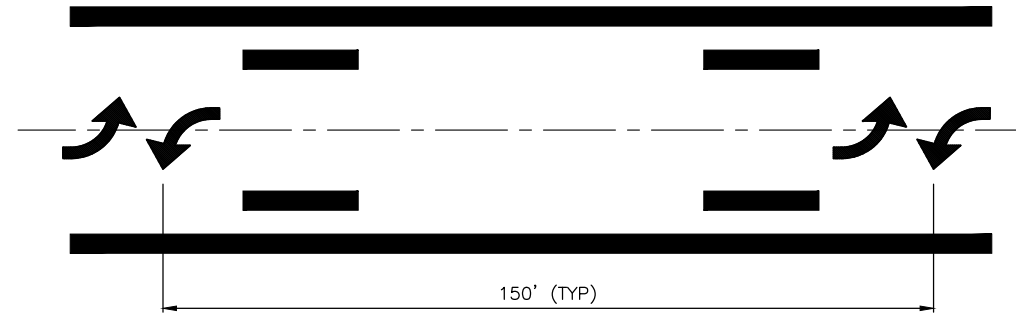
WSDOT STANDARD PLAN M-24.40-02
STRAIGHT ARROW
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**STANDARD DETAIL
 PAVEMENT MARKINGS
 ARROW**

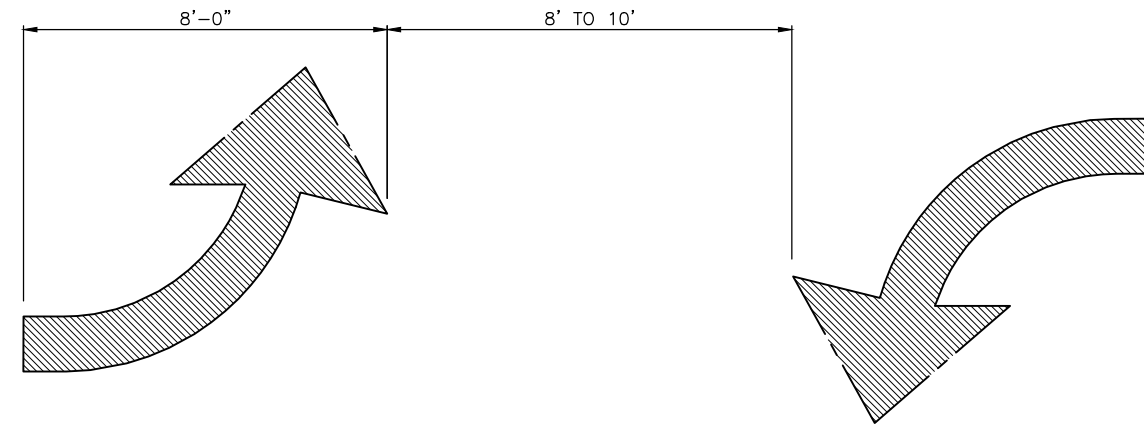


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						DATE	INITIAL	
	02/21/2006		RLK	SK	12/21/2020	CAW		
					01/01/2022	AJS		

DETAIL NO.
R-500A



TWO-WAY LEFT TURN MARKERS



TYPICAL ARROW

NOTES:

1. LONG LINE MARKINGS SHALL BE PAVEMENT MARKING MATERIAL PER SECTION 9.34.1 TYPE D – MMA
2. TRANSVERSE AND SYMBOL MARKINGS SHALL BE PAVEMENT MARKING MATERIALS PER SECTION 9–34.1 TYPE A

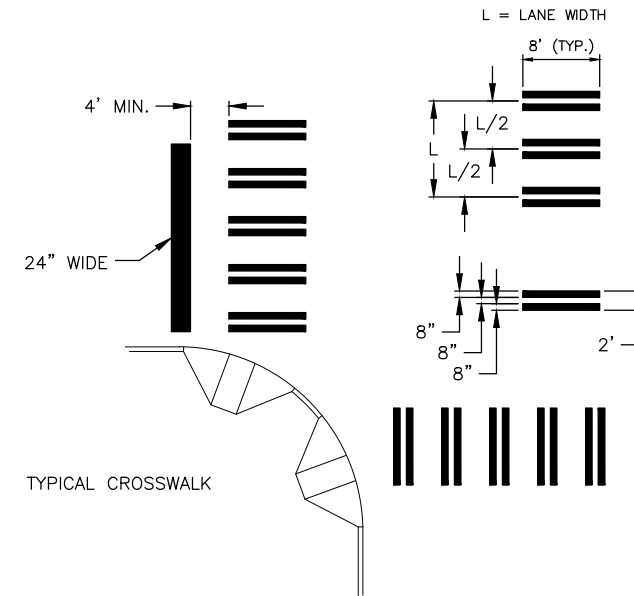
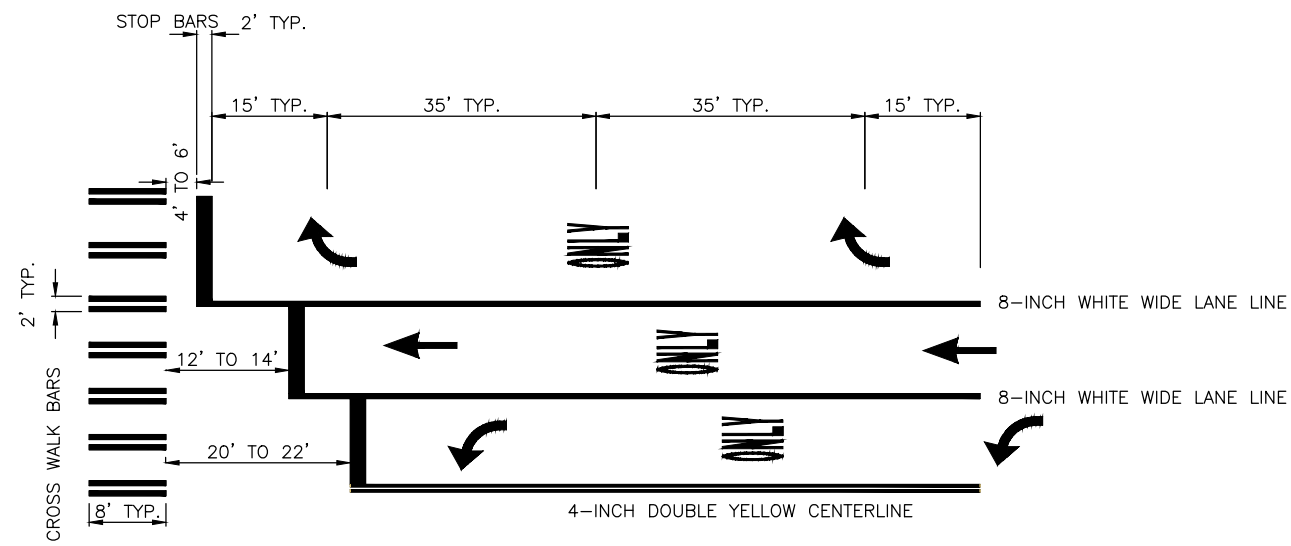
**STANDARD DETAIL
TWO-WAY LEFT TURN
AND TYPICAL ARROW**



SCALE: AS SHOWN	DATE DRAWN 10/05/2020	REVISIONS	
		DATE	INITIAL
DESIGNED	CHECKED	01/01/2022	AJS
DRAWN CAW		03/31/2023	JTB
APPROVED BY	DATE APPROVED		
STANDARD SPECIFICATIONS 8-22 PAVEMENT MARKING			

DETAIL NO.
R-500B

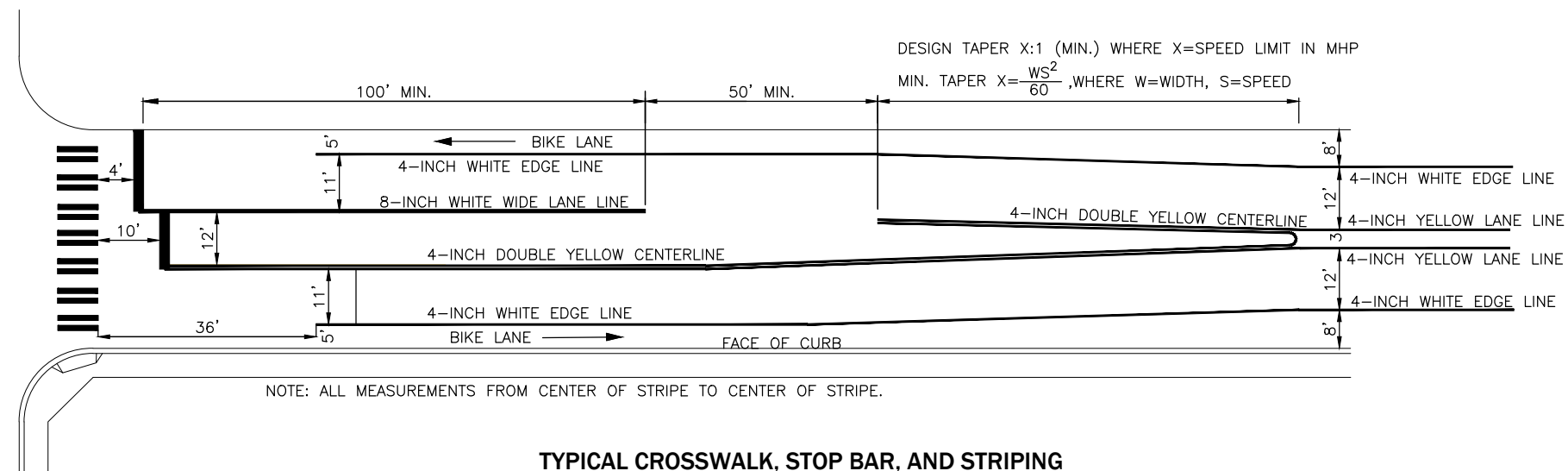
PAGE
2 OF 2



NOTES:

1. LOWER LANDING OF CURB RAMP SHALL FALL WHOLLY WITHIN CROSSWALK LINES.
2. EXACT LOCATION OF CROSSWALK SHALL BE APPROVED BY THE CITY OF WENATCHEE.
3. EXISTING CROSSWALK MARKINGS THAT CONFLICT WITH NEW CROSSWALK MARKINGS SHALL BE REMOVED BY GRINDING.
4. MATERIAL SHALL BE TYPE A THERMOPLASTIC MATERIAL.

**STANDARD CROSSWALK AND STOP BAR DETAIL
N.T.S.**



**TYPICAL CROSSWALK, STOP BAR, AND STRIPING
FOR ARTERIAL STREETS**
SEE BIKE LANE STD 550B

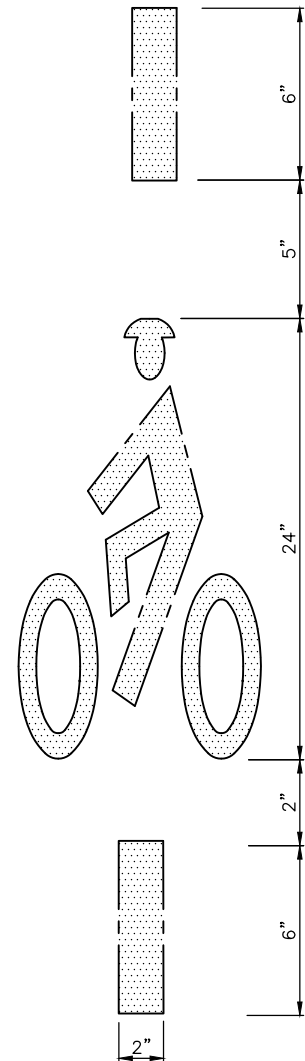
**STANDARD DETAIL
PAVEMENT MARKING
LAYOUT**



SCALE: AS SHOWN	DESIGNED DMN	DRAWN CAW	APPROVED BY	STANDARD SPECIFICATIONS 8-22 PAVEMENT MARKING	REVISIONS	
					DATE	INITIAL
					01/01/2022	AJS
					03/31/2023	JTB

DETAIL NO.
R-510

PAGE
1 OF 1

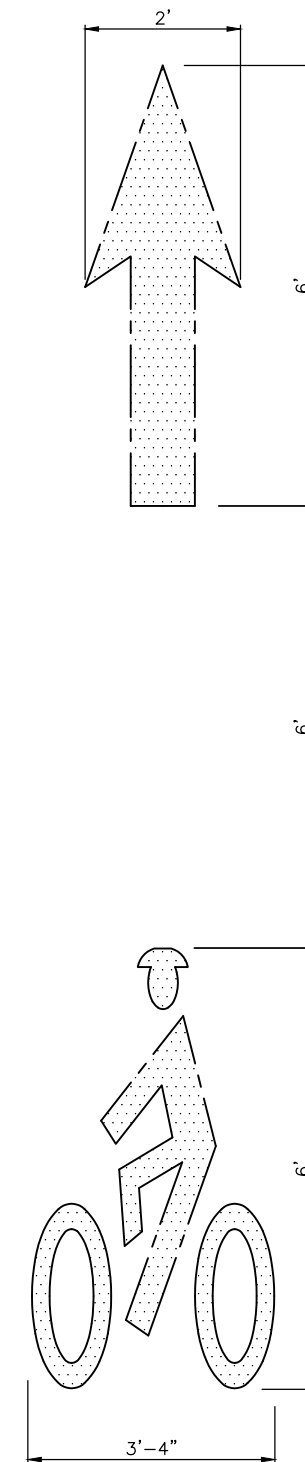


BICYCLE DETECTION MARKING DETAIL

NOT TO SCALE

NOTES:

1. INSTALL MARKING AT SIGNALIZED INTERSECTIONS TO INDICATE WHERE BICYCLES SHOULD STOP IN ORDER TO ACHIEVE REGULAR AND RELIABLE DETECTION BY SIGNAL EQUIPMENT.
2. USE MARKING ON ANY APPROACH TO A SIGNALIZED INTERSECTION WHERE LOOP DETECTORS SPECIFICALLY FOR BICYCLES ARE NOT PRESENT AND ANY APPROACH WHICH IS SHOWN A GREEN INDICATION ONLY WHEN VEHICLE LOOPS ARE ACTUATED, I.E. THE APPROACH IS NOT ON "RECALL" OPERATION.
3. PLACE MARKING SUCH THAT BICYCLES WHICH STOP OVER THE MARKINGS WILL ACTIVATE THE SIGNAL.
4. PLACE THE MARKING TO ALLOW BICYCLES GOING THROUGH TURNING RIGHT, OR TURNING LEFT TO ACTIVATE THE SIGNAL.
5. MARKINGS ARE NOT NECESSARY IN EXCLUSIVE LEFT TURN LANES OF APPROACHES THAT ARE OPERATED BOTH (1) ON RECALL AND (2) IN PERMISSIVE ONLY MODE.
6. IF AN APPROACH AS MULTIPLE LANES SERVING THROUGH MOVEMENTS AND/OR MULTIPLE LANES SERVING THE SAME TURNING MOVEMENT, ONLY THE RIGHTMOST OF SUCH MULTIPLE LANE GROUPS SHALL BE MARKED.
7. WHERE MULTIPLE LOOPS ARE PRESENT IN A SINGLE LANE, MARKINGS SHALL BE PLACED AS CLOSE TO THE STOP BAR AS POSSIBLE.
8. IN GENERAL, MARKING SHALL BE PLACED OVER THE RIGHT EDGES OF SQUARE LOOPS OR CONGRUENT WITH A LINE TANGENT TO THE RIGHTMOST POINT ON THE EDGE OF A CIRCULAR LOOP.
9. IN GENERAL, BICYCLE MARKINGS ARE NOT NEEDED ON APPROACHES WHERE VIDEO DETECTION IS IN PLACE, AS LONG AS BICYCLES CAN STOP BE DETECTED REGULARLLY AS RELIABLY BY STOPPING AT THE STOP BAR IN THE MIDDLE OF THE LANE.
- 10 MATERIAL SHALL BE TYPE A THERMOPLASTIC MATERIAL
- 11 SEE ALSO 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SECTION 9C.05: RCW 46.61.710; 2004 STANDARD HIGHWAY SIGNS PAGE 10-17.



NOTES:

1. BIKE LANE SYMBOLS MATERIAL SHALL BE 90 MILL, PREFORMED, SKID RESISTANT THERMOPLASTIC.
2. BICYCLE SYMBOLS FACES ROADWAY CENTERLINE.

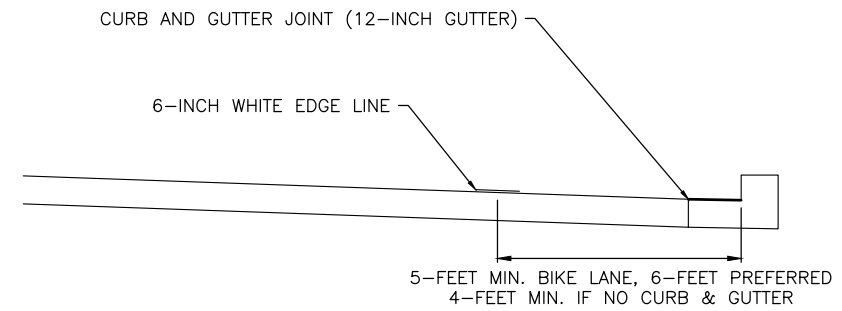
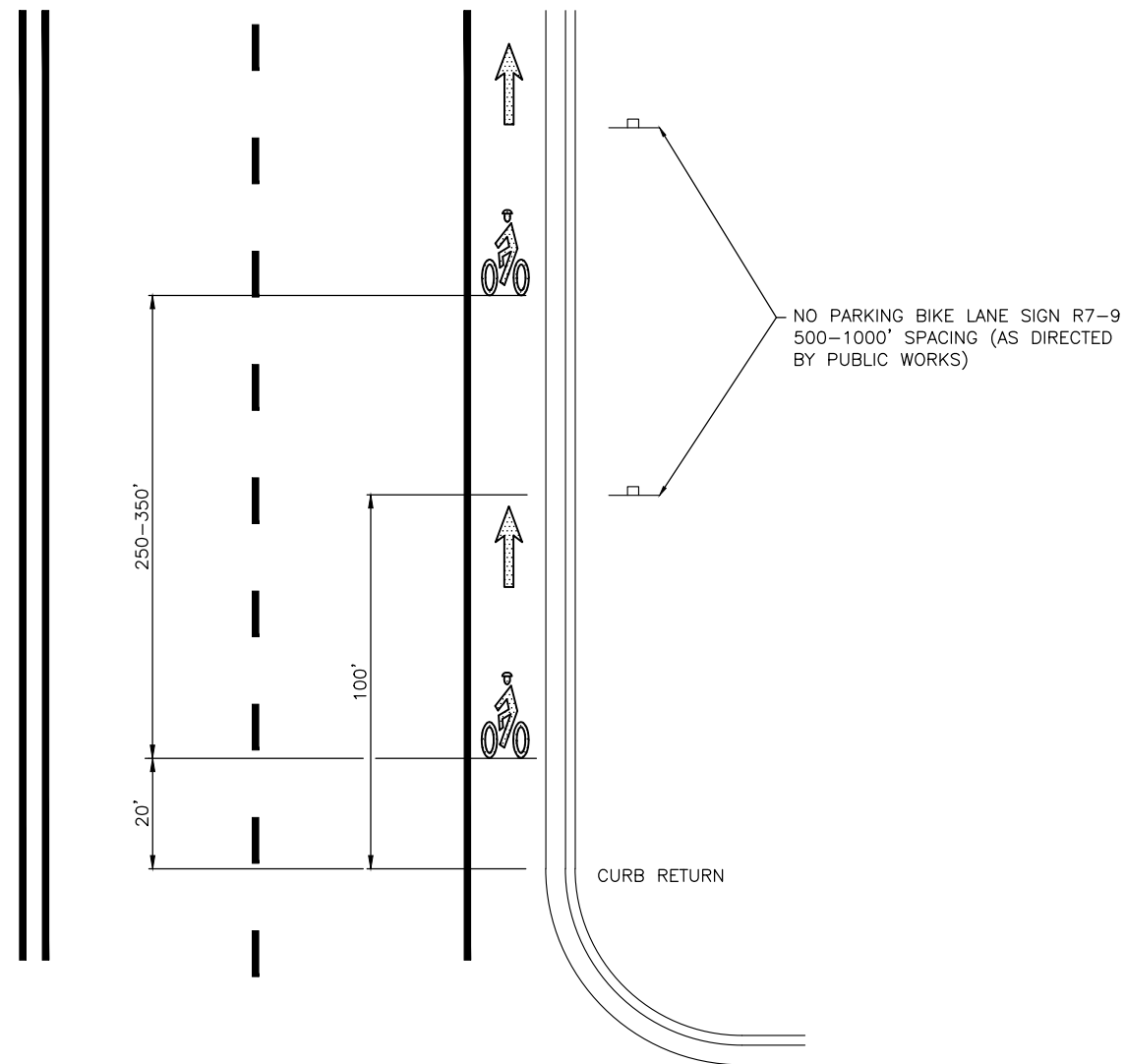
**STANDARD DETAIL
BICYCLE LANE
MARKINGS**



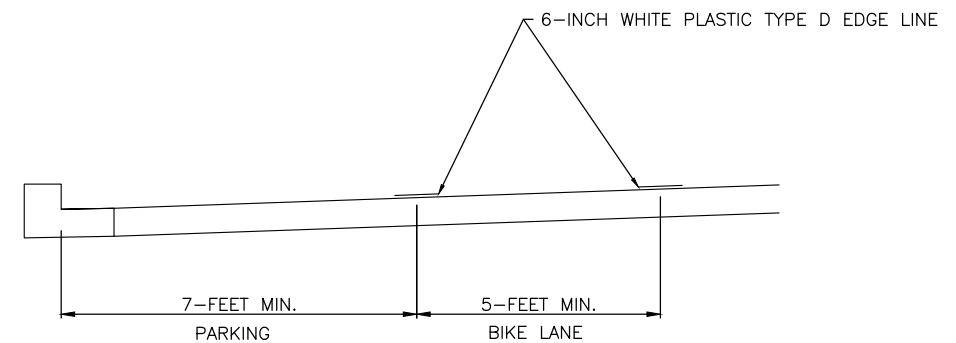
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		DATE	INITIAL	
DESIGNED	CHECKED	01/01/2022	AJS	
DRAWN CAW		03/31/2023	JTB	
APPROVED BY				
STANDARD SPECIFICATIONS				

DETAIL NO.
R-550A

PAGE
1 OF 4



(MEASURED TO FACE OF CURB OR CENTER OF STRIPE)
BICYCLE LANE WITHOUT PARKING



(MEASURED TO FACE OF CURB OR CENTER OF STRIPE)
BICYCLE LANE WITH PARKING

NOTES:

1. SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.
2. PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
3. BICYCLIST SYMBOLS PER R-550A.
4. LONG LINE MARKINGS SHALL BE PAVEMENT MARKING MATERIAL PER SECTION 9.34.1 TYPE D - MMA
5. TRANSVERSE AND SYMBOL MARKINGS SHALL BE PAVEMENT MARKING MATERIAL PER SECTION 9-34.1 TYPE A.

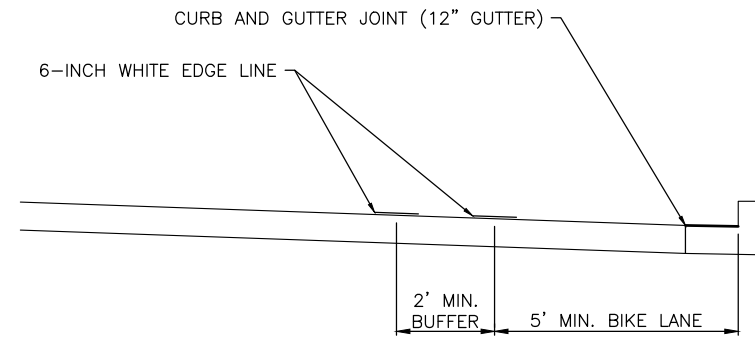
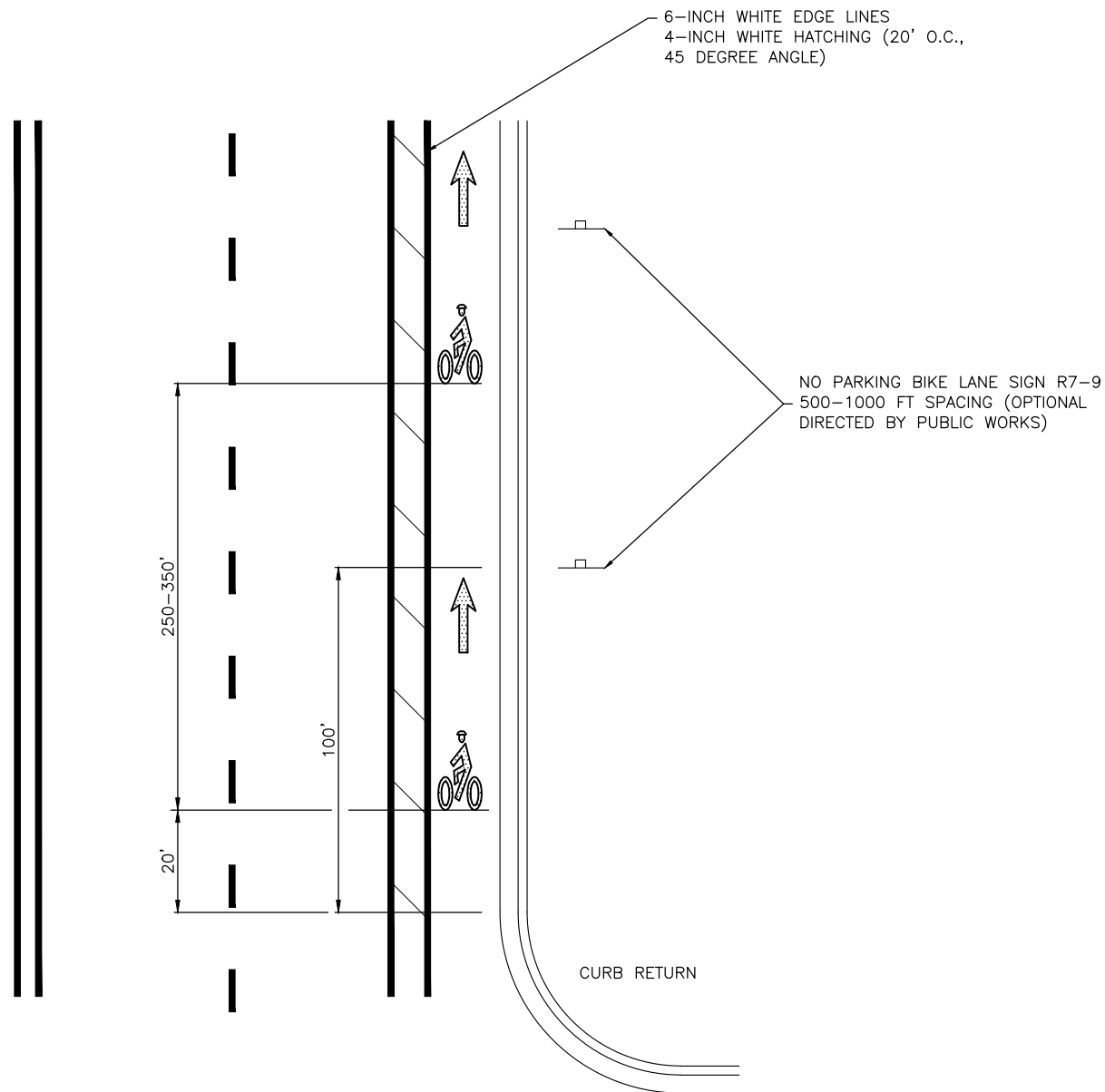
**STANDARD DETAIL
TYPICAL BICYCLE LANE**



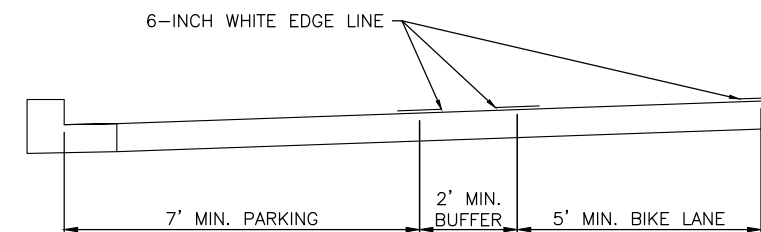
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		DATE	INITIAL			
DESIGNED	CHECKED	01/01/2022	AJS			
APPROVED BY		03/31/2023	JTB			

DETAIL NO.
R-550B

PAGE
2 OF 4



BUFFERED BICYCLE LANE WITHOUT PARKING
(MEASURED TO FACE OF CURB OR CENTER OF STRIPE)



BICYCLE LANE WITH PARKING
(MEASURED TO FACE OF CURB OR CENTER OF STRIPE)

NOTES:

1. SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS
2. PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
3. BICYCLIST SYMBOLS PER R-550A.
4. LONG LINE MARKINGS SHALL BE PAVEMENT MARKING MATERIAL PER SECTION 9.34.1 TYPE D - MMA.
5. TRANSVERSE AND SYMBOL MARKINGS SHALL BE PAVEMENT MARKING MATERIAL PER SECTION 9-34.1 TYPE A.

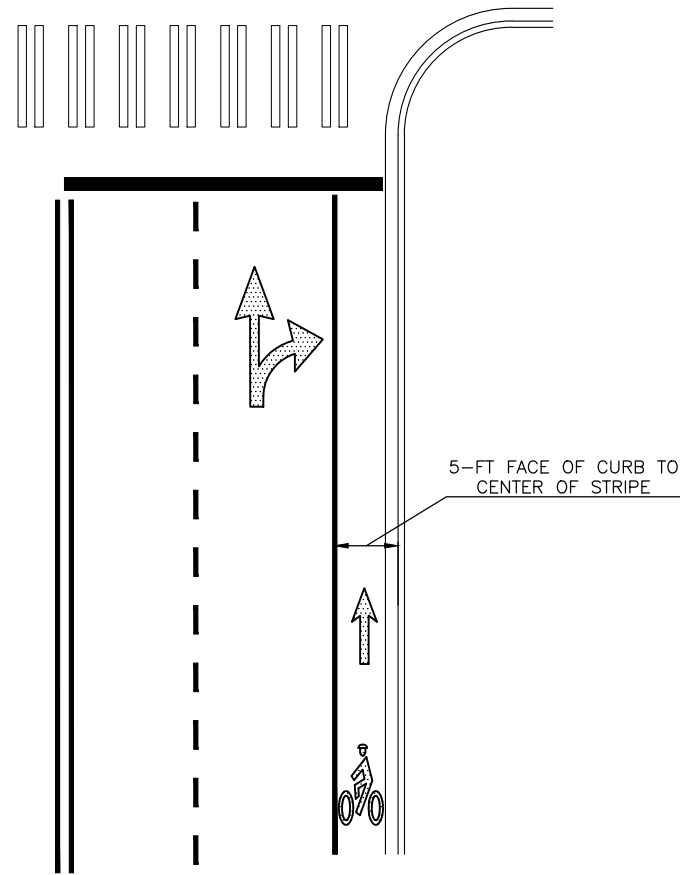
**STANDARD DETAIL
TYPICAL BUFFERED
BICYCLE LANE**



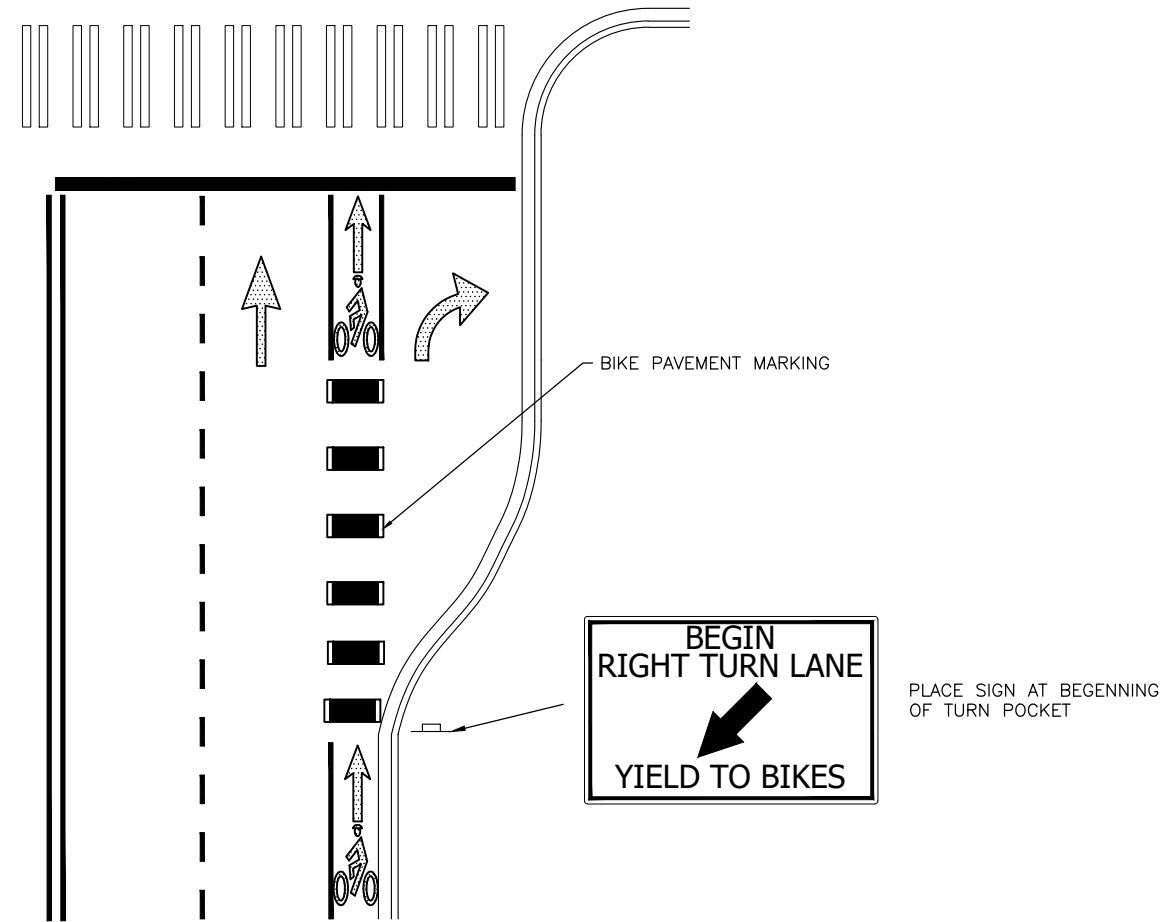
SCALE: AS SHOWN	DATE DRAWN 10/05/2020	REVISIONS		DATE APPROVED
		DATE	INITIAL	
DESIGNED CAW	CHECKED	01/01/2022	AJS	
APPROVED BY		03/31/2023	JTB	
STANDARD SPECIFICATIONS				

DETAIL NO.
R-550C

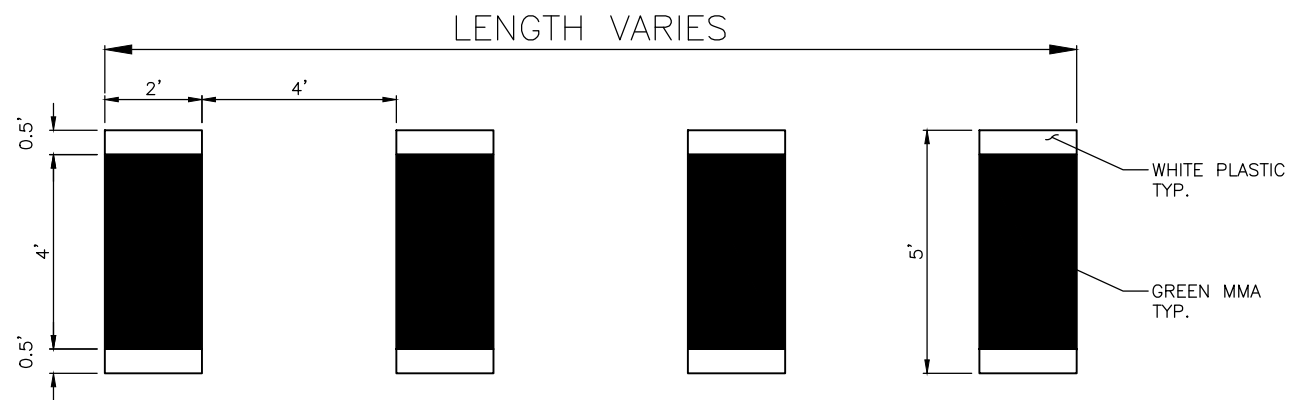
PAGE
3 OF 4



TYPICAL RIGHT-THROUGH LANE
(BICYCLE LANE CONTINUES THROUGH INTERSECTION)



TYPICAL RIGHT TURN POCKET
(BICYCLE LANE CONTINUES THROUGH INTERSECTION)



BIKE PAVEMENT MARKING DETAIL

NOTES:
SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.

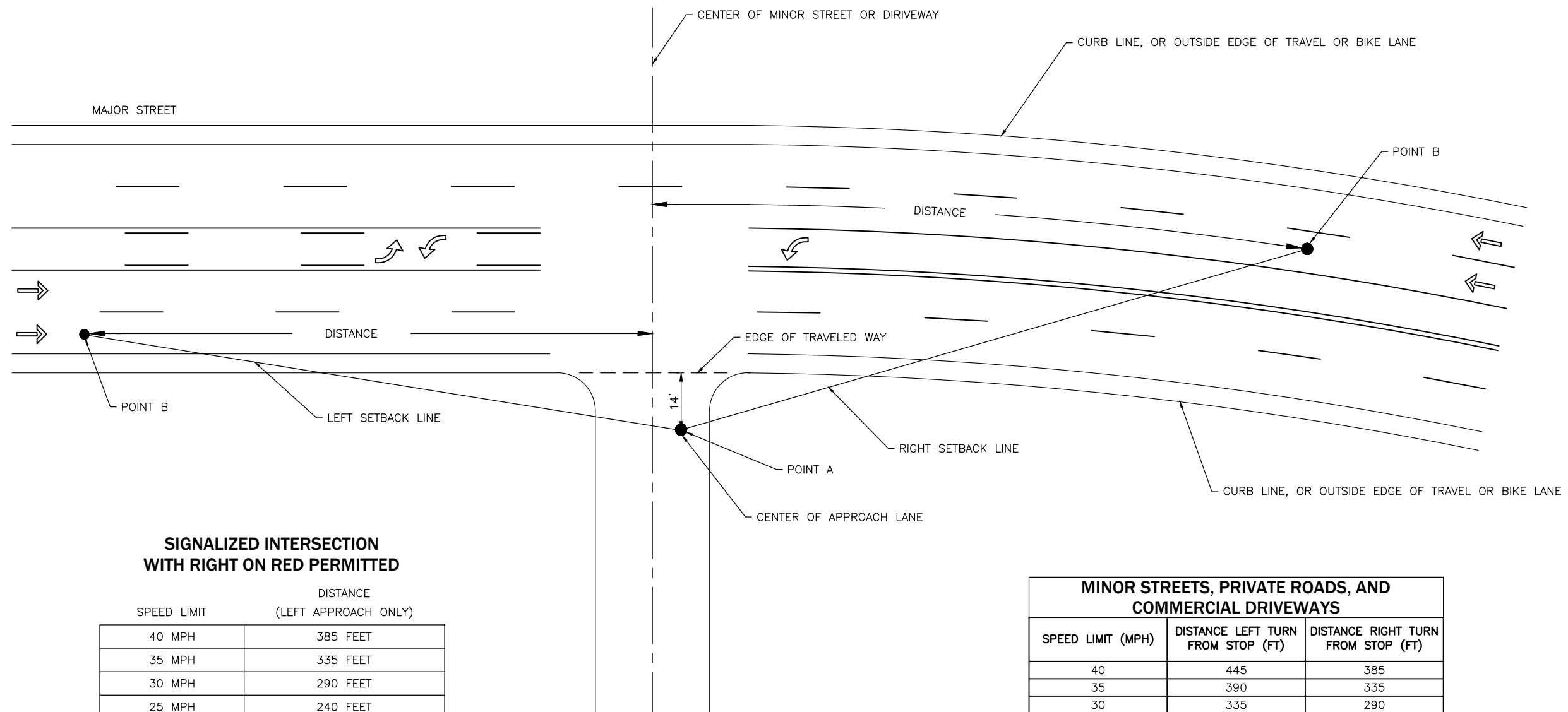
**STANDARD DETAIL
TYPICAL BICYCLE LANE
AT INTERSECTION**



SCALE: AS SHOWN	DATE DRAWN	DESIGNED	DRAWN	APPROVED BY	REVISIONS			
					DATE	INITIAL	DATE	INITIAL
10/05/2020	CHECKED	CAW			01/01/2022	AJS		
	DATE APPROVED				03/31/2023	JTB		

DETAIL NO.
R-550D

PAGE
4 OF 4



**SIGNALIZED INTERSECTION
WITH RIGHT ON RED PERMITTED**

SPEED LIMIT	DISTANCE (LEFT APPROACH ONLY)
40 MPH	385 FEET
35 MPH	335 FEET
30 MPH	290 FEET
25 MPH	240 FEET

**MINOR STREET,
PRIVATE ROAD,
COMMERCIAL AND RESIDENTIAL
DRIVEWAYS**

MINOR STREETS, PRIVATE ROADS, AND COMMERCIAL DRIVEWAYS		
SPEED LIMIT (MPH)	DISTANCE LEFT TURN FROM STOP (FT)	DISTANCE RIGHT TURN FROM STOP (FT)
40	445	385
35	390	335
30	335	290
25	280	240

RESIDENTIAL DRIVEWAYS

SPEED LIMIT	DISTANCE
40 MPH	325 FEET
35 MPH	250 FEET
30 MPH	200 FEET
25 MPH	150 FEET

NOTES:

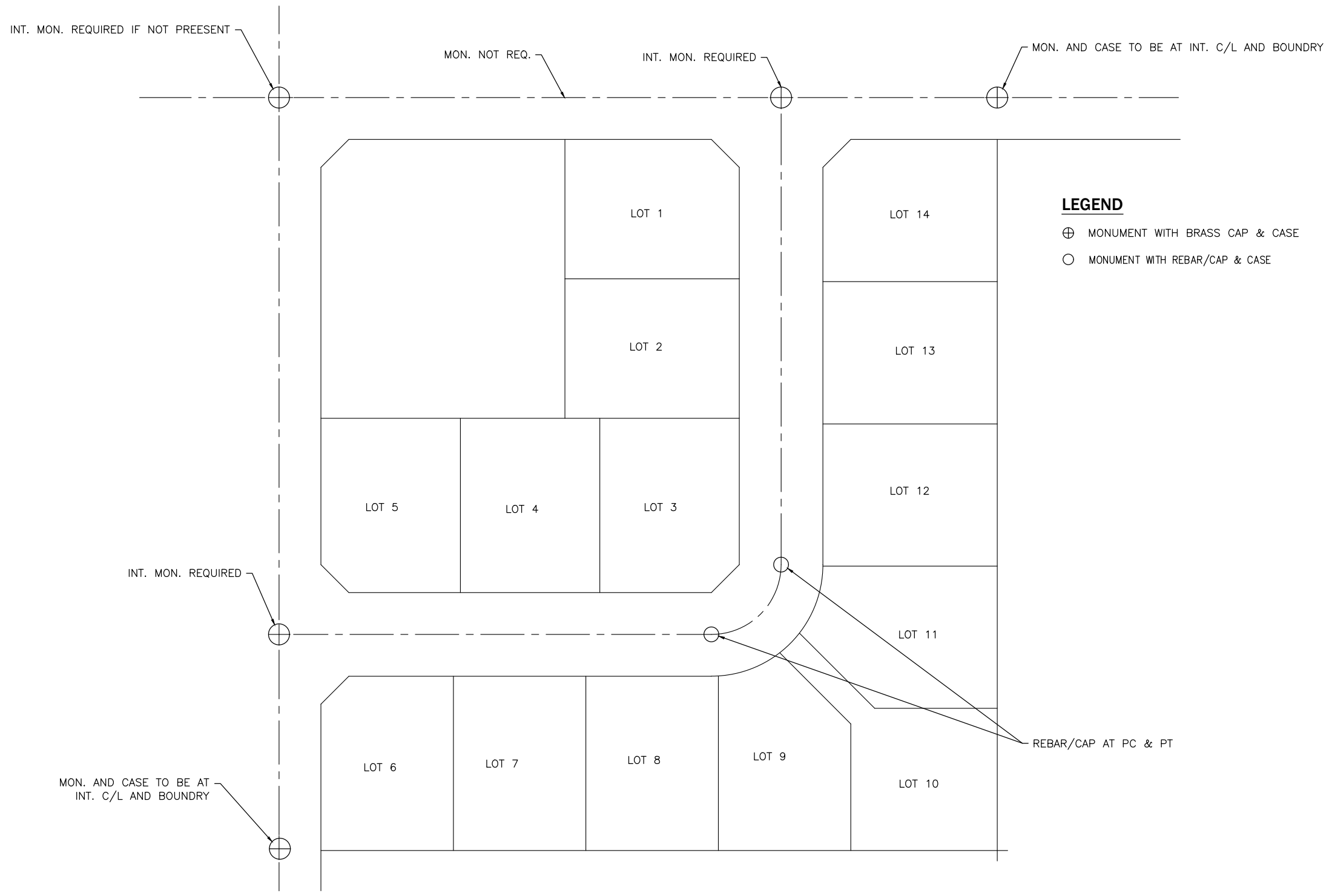
- FOR RESIDENTIAL DRIVEWAYS, DISTANCE OF POINT A FROM EDGE OF TRAVEL LANE IS 10-FT.

**STANDARD DETAIL
SIGHT DISTANCE
SETBACK**



SCALE: AS SHOWN	DATE DRAWN 01/28/21	DRAWN CAW	CHECKED	DATE APPROVED	REVISIONS			
					DATE	INITIAL	DATE	INITIAL
					01/01/2022	AJS		
					03/31/2023	JTB		

DETAIL NO.
R-600
PAGE
1 OF 1



MONUMENT PLACEMENT
N.T.S.

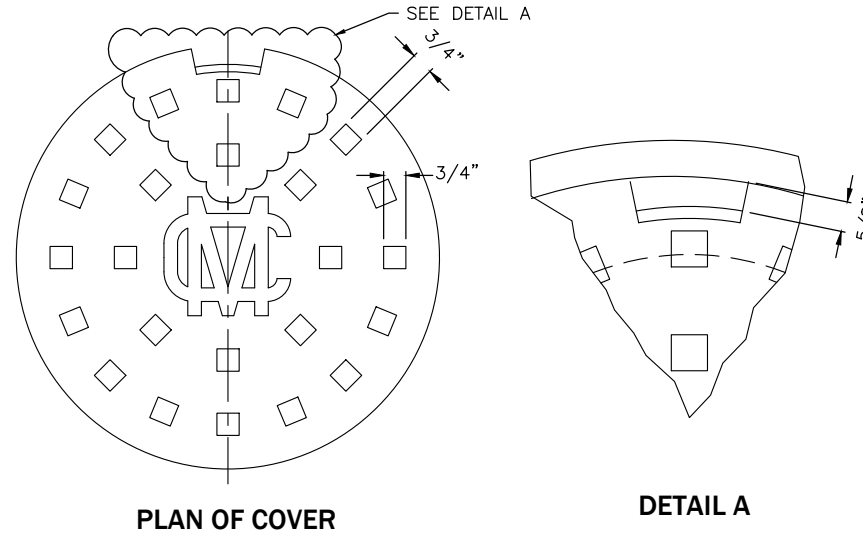
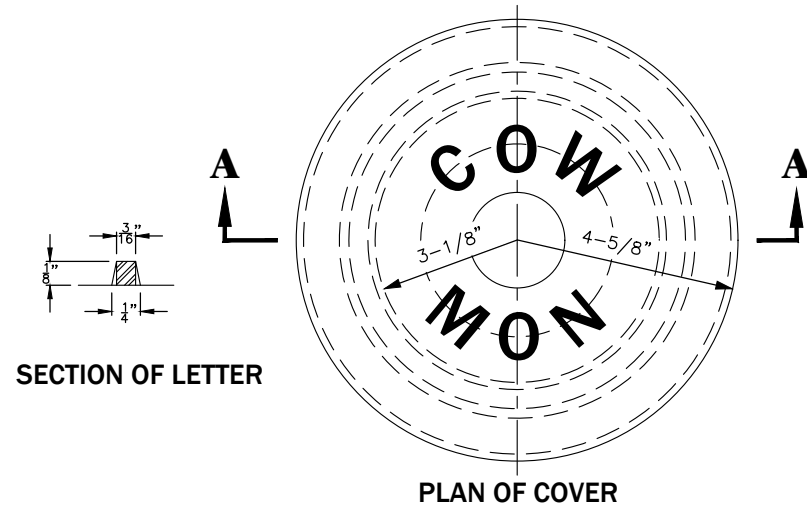
**STANDARD DETAIL
MONUMENT
PLACEMENT**



SCALE: AS SHOWN	DATE DRAWN	02/21/2006	DATE	10/26/2020	INITIAL	CAW
	DESIGNED		CHECKED	SK	DATE APPROVED	
APPROVED BY	RLK					
STANDARD SPECIFICATIONS						

STANDARD MONUMENT CASE

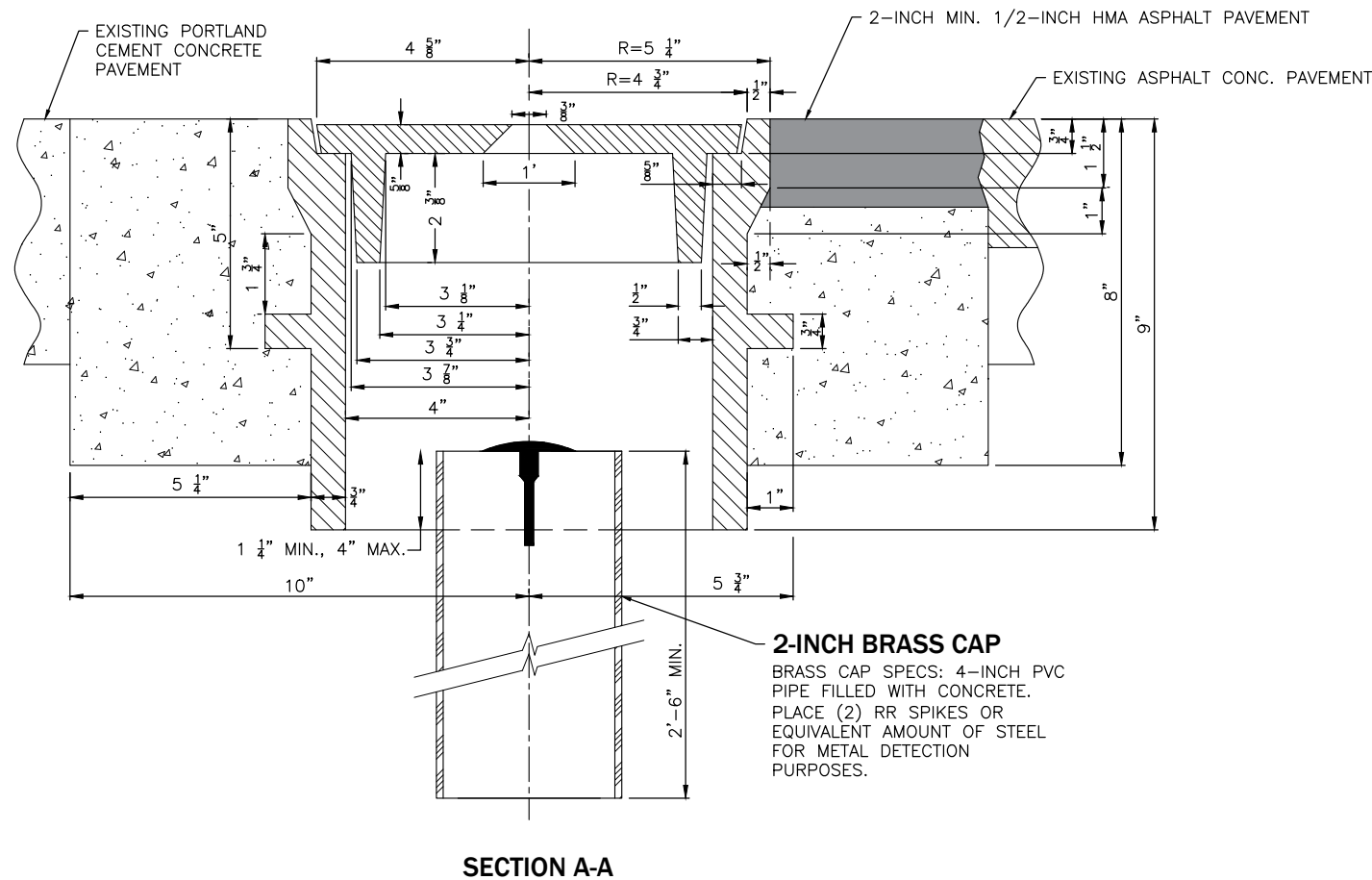
**ALTERNATE MONUMENT CASE
MAY BE USED WITH CITY ENGINEERS
APPROVAL**



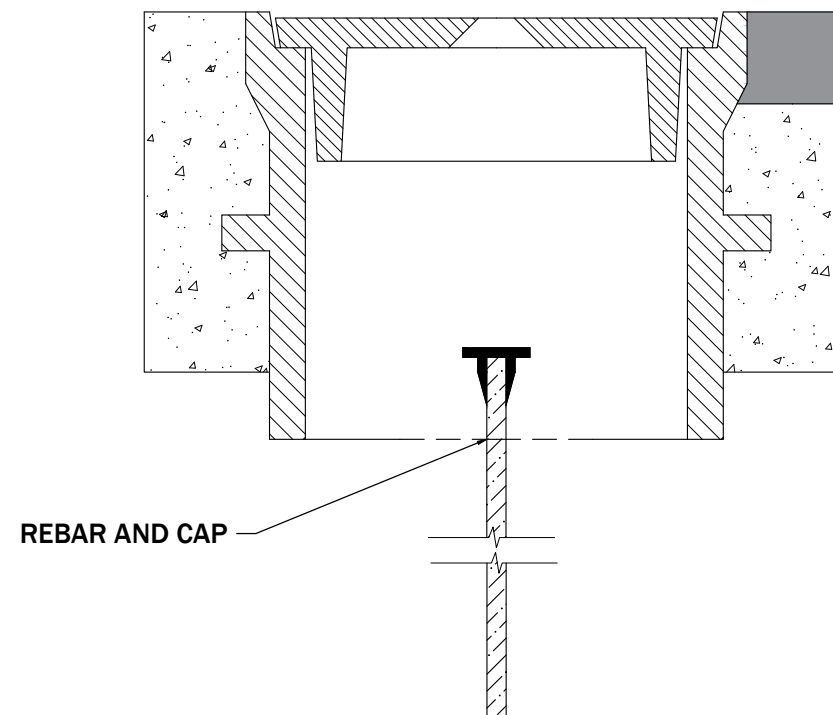
NOTES:

1. 2-INCH BRASS CAP OR REBAR AND CAP ARE ACCEPTABLE FOR USE IN MONUMENT CASE.
2. WHEN PLACING MONUMENTS IN PAVED SURFACES, HEIGHT OF CASE OR COVER SHALL BE NO LESS THAN ZERO AND NO MORE THAN 1/8-INCH BELOW FINISHED GRADE.
3. MEETS CITY OF WENATCHEE AND WASHINGTON STANDARD SPECIFICATIONS FOR MONUMENT CASE AND COVER. SUITABLE FOR HEAVY TRAFFIC LOADING. UNIT WEIGHT 39LBS.
4. MONUMENTS SHALL BE PROTECTED FROM DAMAGE ACCORDING TO R.C.W. 58.24.040, AND R.C.W. 58.09.130. IF MONUMENTS ARE TO BE DISTURBED, THEN W.A.C. 332-120 APPLIES.
5. CASTING SHALL BE GRAY IRON ASATM A48, AASHTO M 105, CLASS 30.
6. COVER AND SEAT SHALL BE MACHINED FOR PERFECT CONTACT AROUND CIRCUMFERENCE AND FULL WIDTH OF BEARING SURFACE.
7. APPROXIMATE WEIGHTS, STANDARD.
CASE - 60 LBS
COVER - 19 LBS
TOTAL - 79 LBS
8. CONCRETE SHALL BE CLASS 3000.
9. PIPE MUST BE INSTALLED PRIOR TO ROAD SURFACING.

**CASE 1: 2-INCH BRASS CAP
SEE NOTE 1**



**CASE 2: REBAR AND CAP
SEE NOTE 1**



**STANDARD DETAIL
MONUMENT CASE**



SCALE: AS SHOWN	DESIGNED	DRAWN	CHECKED	DATE	REVISIONS		
					DATE	INITIAL	
		RLK	SK	02/21/2006	12/21/2020	CAW	
					01/01/2022	AJS	
					03/31/2023	JTB	

DETAIL NO.

R-710

PAGE

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LUMINAIRE POLE DETAIL:

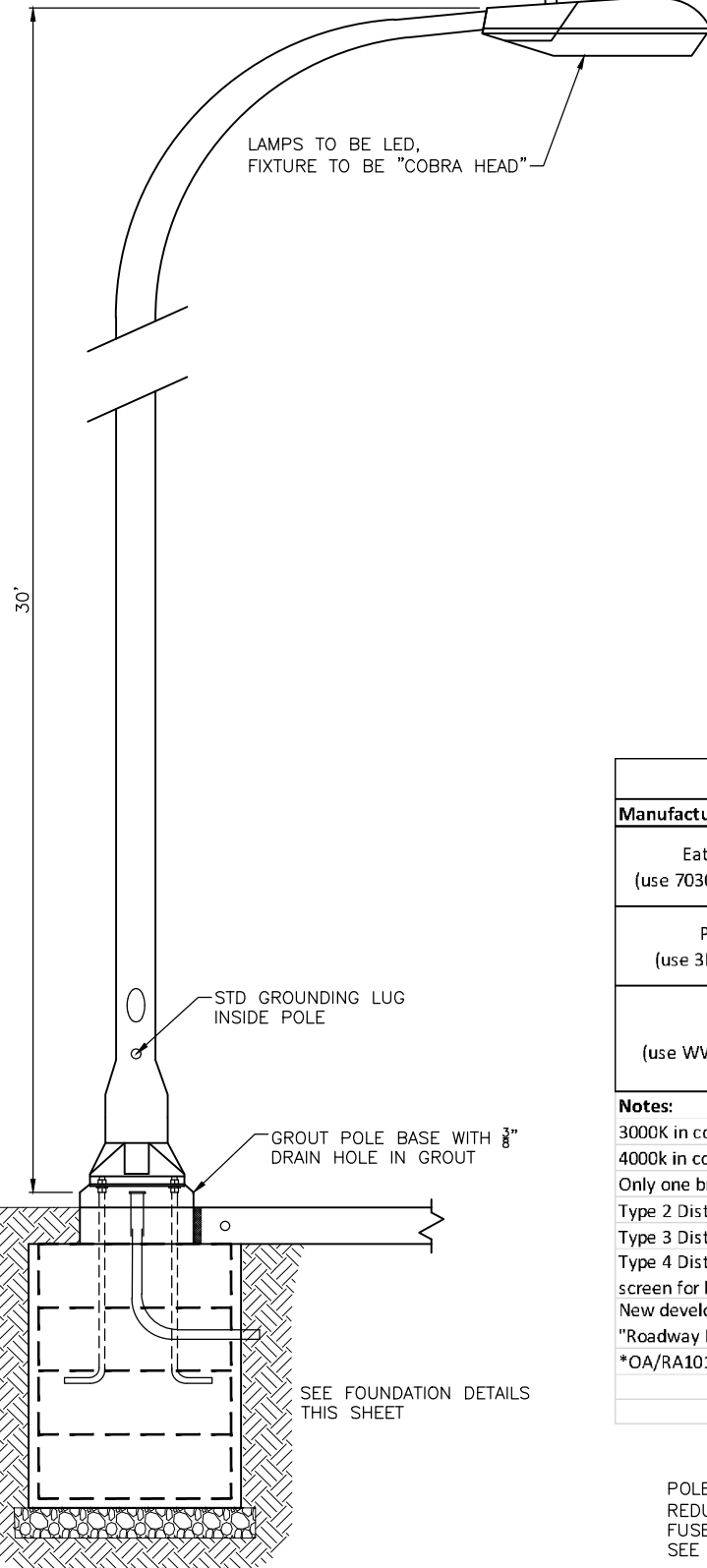
POLE MUST BE UL LISTED AND BE LABELED AS SUCH

- HAPCO # RTA30D8B4D1601 (6' ARM)
- OR
- HAPCO # RTA30D8B4D1801 (8' ARM)
- OR
- HAPCO # RTA30D8B4D1A01 (10' ARM)

DAVIT STYLE (OR MATCH EXISTING STYLE POLES WITH APPROVAL OF CITY ENGINEER)

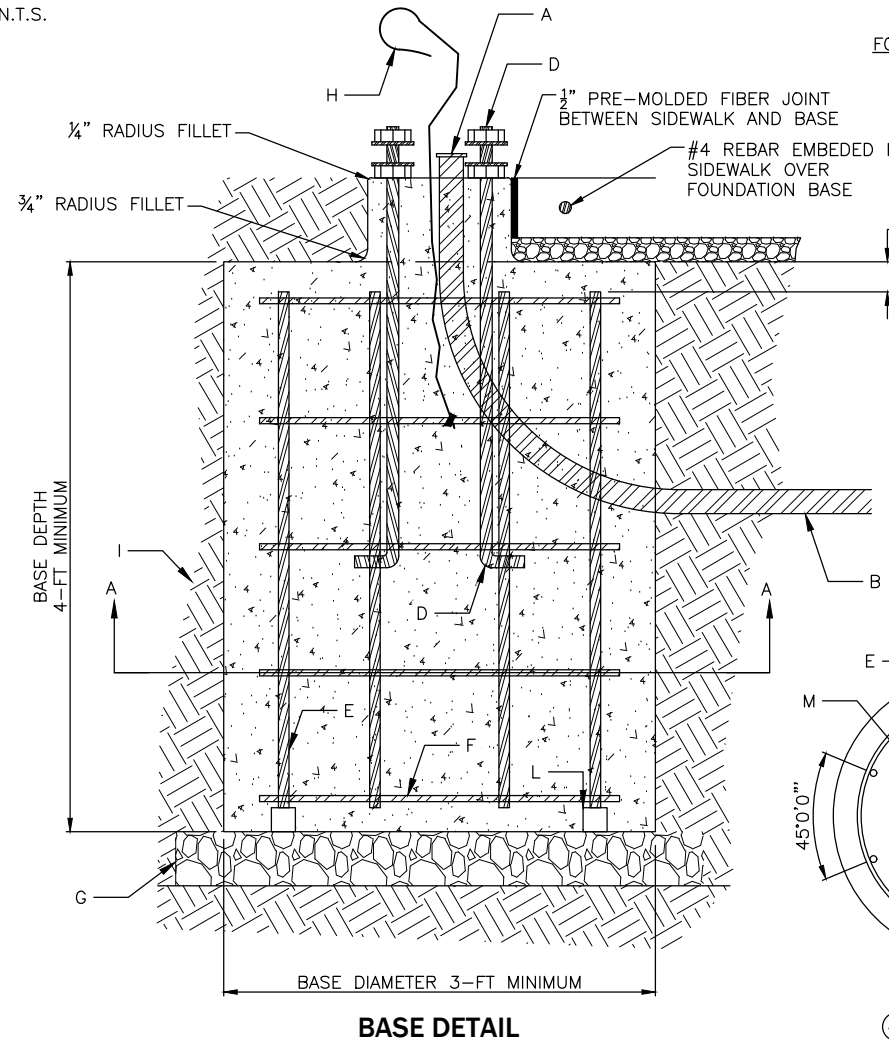
PHOTO CELL RATED FOR LED,
OR SHORTING CAP,
AS SPECIFIED BY PLANS

LAMPS TO BE LED,
FIXTURE TO BE "COBRA HEAD"



SEE FOUNDATION DETAILS
THIS SHEET

N.T.S. N.T.S.



BASE DETAIL

FOUNDATION DETAIL:

FOR INSTALLATION IN PLANTER STRIP

#4 REBAR EMBEDDED IN
SIDEWALK OVER
FOUNDATION BASE

3-IN COVER TYP.
OVER REBAR ALL SIDES
WSDOT "CLASS 4000P" CONCRETE

3-FT CLEARANCE

FOR INSTALLATION BEHIND SIDEWALK

#4 REBAR EMBEDDED IN
SIDEWALK OVER
FOUNDATION BASE

SECTION A

LED Streetlight Luminaire Ordering Information			
Manufacturer	Product/Series	Distribution Type	Ordering Information
Eaton Streetworks (use 7030 for 3K, 7040 for 4K)	Navion	II	NVN-SA1D-730-U-T2-AP-10K-IP66-K-PR7-OA/RA1013(OA/1014)*
		III	NVN-SA2C-730-U-T3-AP-10K-IP66-K-PR7-OA/RA1013(OA/1014)*
		IV	NVN-SA1D-730-U-T4FT-AP-10K-IP66-K-PR7-OA/RA1013(OA/1014)*
Philips Lumec (use 3K for 3K, 4K for 4K)	Roadfocus Medium	II	RFM-55W48LED3K-G2-R2M-UNV-DMG-FAWS-RCD7-PH9-GY3
		III	RFM-108W48LED3K-G2-R3M-UNV-DMG-FAWS-RCD7-PH9-GY3
		IV	RFM-55W48LED3K-G2-4-UNV-DMG-FAWS-RCD7-PH9-GY3
Leotek (use WW for 3K, NW for 4K)	Green Cobra Jr.	II (Collector)	GCJ2-30J-MV-30K-2R-GGY-065-PCR7-WL-RWG-SC
	Green Cobra Jr.	II (Local Roads)	GCJ1-30J-MV-30K-2R-GY-040-PCR7-WL-RWG-SC
	Green Cobra M.	III	GCM1-60J-MV-30K-3R-GY-110-PCR7-WL-RWG-SC
	Green Cobra Jr.	IV	GCJ1-30J-MV-30K-4-GY-040-PCR7-WL-RWG-SC

Notes:
 3000K in color for all roads (except SR285 corridor)
 4000k in color for SR285 corridor
 Only one brand/type shall be used for entire project.
 Type 2 Distribution for collectors & local roads
 Type 3 Distribution for arterials
 Type 4 Distribution for cul-de-sacs, mast arm to extend luminaire beyond curb by 5 FT min., align with center of radius, install cut-off screen for back lighting
 New developments shall meet minimum illuminance values as set by AASHTO design standards in the "Roadway Lighting Design Guide", 2005
 *OA/RA1013 is for controller cabinet designs OA/RA1014 is for single switch designs.

POLE AND BRACKET CABLE FOR LUMINAIRE WIRING #10 AWG AND # 10 'USE' GROUND WIRE
 REDUCE WASHER W/ SE CONNECTOR FOR SECURING POLE AND BRACKET AT LUMINAIRE
 FUSED QUICK DISCONNECTS AT TOP OF BASE ACCESSED VIA HANDHOLE IN POLE.
 SEE WSDOT STANDARD PLAN J-28.70 FOR STEEL LIGHT STANDARD WIRING DETAILS

NOTE:
 FOUNDATION SHALL BE CONSTRUCTED USING METHOD 1 OR METHOD 2
 ACCORDING TO WSDOT STANDARD PLAN J-28.30 SHEET 2

FOUNDATION

- A EXTEND 1 1/4" CONDUIT 2-IN MAX. ABOVE BASE WITH END BELL OR BUSHING AND OTHER END 2-FT-6-IN BELOW FINISH GRADE EXTENDED TO HAND HOLE. PROVIDE ADDITIONAL CONDUIT FOR COMMUNICATION OR SIGNAL CABLE WHERE SHOWN ON APPROVED DRAWINGS OR IDENTIFIED IN CONTRACT.
- B 1 1/4" DIAM. SCHEDULE 80 PVC CONDUIT EMBEDDED IN BASE EXTENDED TO HAND HOLE.
- C USE 1/2" PREMOLDED JOINT FILLER TO PREVENT BOND BETWEEN SIDEWALK AND BASE, AS SHOWN IN BASE DETAIL.
- D (4) ANCHOR "J" BOLTS HOT DIPPED GALVANIZED (PER ASTM A-307) 1-IN DIAM X 3-FT-8-IN W/ 4-IN HOOK AT BOTTOM, 3-FT EMBEDDED IN BASE, AND 2 3/4-IN PROJECTING ABOVE GROUT PAD, W/ (2) HVY DUTY GALV. 1-IN N.C. HEX NUTS & (2) FLAT WASHERS EACH, BOLT PATTERN IS 11-IN DIAGONAL.
- E (8) #7 X 3-FT-6-IN @ 45 DEGREE INTERVALS FROM CENTER
- F (5) #4 X 2-FT-6-IN DIAM HOOPS @ 10 1/2-IN O.C. W/ 1-FT-9-IN LAPS
- G WHEN USING METHOD 2 WSDOT STANDARD PLAN J-28.30 SHEET 2: COMPACTED LEVELING COURSE 2-IN COMPACTED DEPTH EXTENDED 6-IN BEYOND BASE ON COMPACTED SUBGRADE 95% STANDARD PROCTOR MINIMUM 6-IN MINIMUM COMPACTED DEPTH BELOW BASE
- H ADD A GROUNDING CONDUCTOR CONNECTED TO FOUNDATION REBAR WITH NON-INSULATED #4 AWG STRANDED COPPER; PROVIDE 3-FT MIN. SLACK ABOVE BASE. ROUTE CONDUCTOR TO LUMINAIRE GROUNDING STUD. CLAMP CONDUCTOR TO STEEL REINFORCING BAR AT LEAST 12-IN BELOW TOP OF CONCRETE WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE - THE FOUNDATION SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF STANDARD SPECIFICATION 8-20.
- I COMPACTED BACKFILL AROUND BASE TO 95% STANDARD PROCTOR MINIMUM, USING 8-IN LIFT THICKNESS MAXIMUM.
- J STRIP ALL FORMS FROM AROUND BASE BEFORE BACKFILL. IF USING GALVANIZED CORRUGATED METAL PIPE IT SHALL REMAIN A MINIMUM OF 6" BELOW FINISHED GRADE AND DEEPER.
- K WIRING DETAILS PER WSDOT STANDARD PLAN J-28.70 AND STANDARD SPECIFICATION 8-20.
- L PRE-CAST CONCRETE BLOCK SPACERS ATTACHED TO REBAR (3 MIN) TO PROVIDE 3-IN CLEAR FROM VERTICAL BARS TO SOIL
- M MONOLITHIC 12" SQUARE
- N OUTER DIAMETER CONCRETE BASE

STANDARD DETAIL
LUMINAIRE
BASE, LIGHT, & POLE

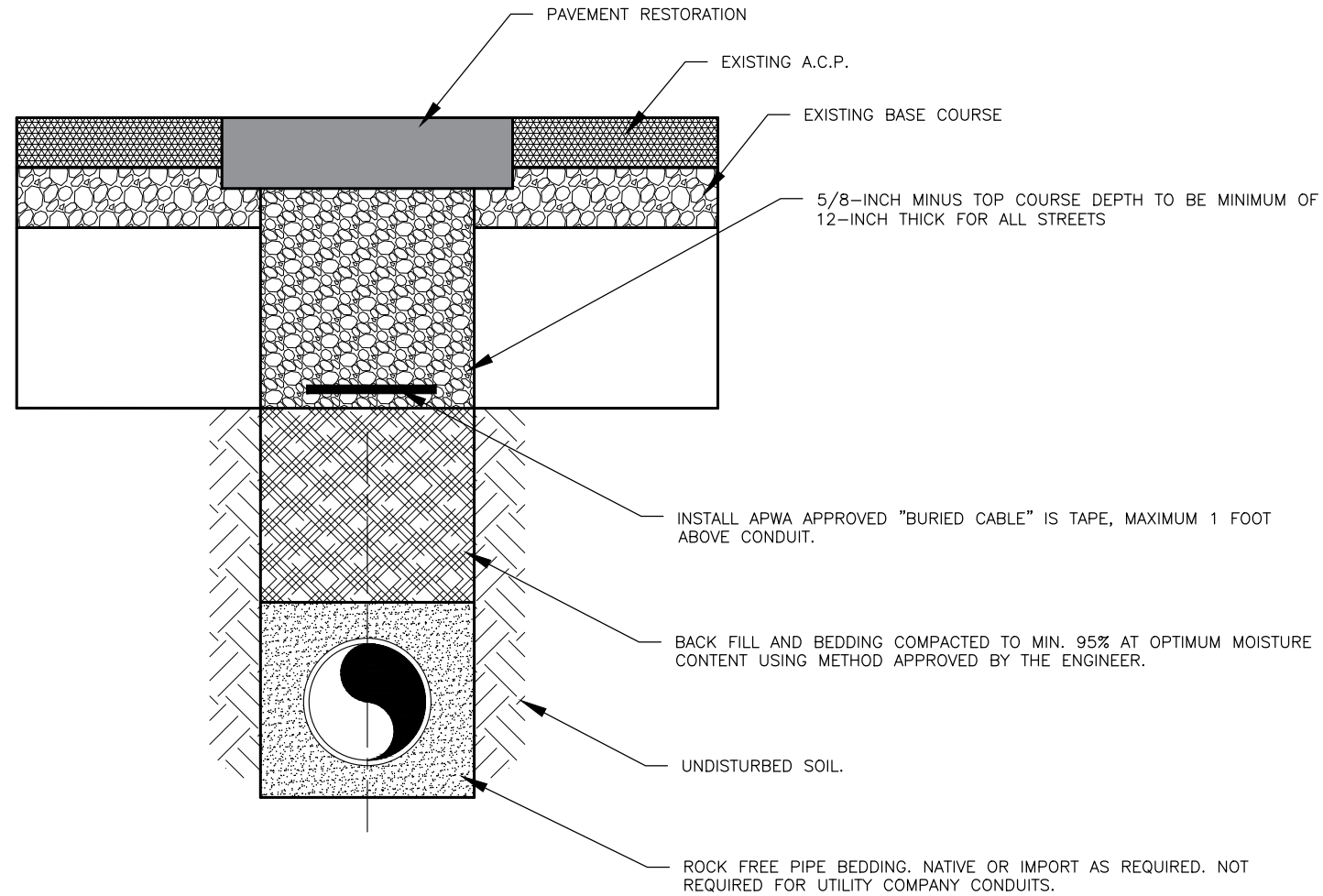


SCALE: AS SHOWN	DESIGNED DMN	DRAWN JBY	APPROVED BY	DATE APPROVED	REVISIONS										
					DATE	INITIAL	DATE	INITIAL	DATE	INITIAL					
				3/23/2015											
					5/11/2015	RDH									
					11/2/2017	JBY									
					1/28/2018	JBY									
					4/24/2018	JBY									
					01/01/2022	AJS									
					03/31/2023	JTB									

STANDARD SPECIFICATIONS
 2-09 STRUCTURE EXCAVATION
 6-02 CONCRETE STRUCTURES
 8-20 ILLUMINATION, TRAFFIC SIGNAL SYS.
 9-29 ILLUMINATION, SIGNAL, ELECTRICAL

DETAIL NO.
R-800

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NOTES:

1. TRENCH DEPTH SHALL PROVIDE A MINIMUM COVER OF 24-INCH OVER TOP OF CONDUIT.
1.) COMMUNICATION AND P.U.D. TO BE MIN. 30-INCH AT NON CURBED STREET CROSSINGS OR AS REQUIRED BY THE PERMIT.
2. MINIMUM ONE-WAY TRAFFIC TO BE MAINTAINED ACCORDING TO APPROVED TRAFFIC CONTROL PLAN.
3. ALL ROADWAY APPURTENANCES TO BE PROTECTED AND ROAD SIGNS LEFT AS FOUND.
4. PAVEMENT REPAIR TO BE MADE WITHIN 24 HOURS OF TRENCH BACKFILL.
5. PERMIT REQUIRED ON ALL PROJECTS, EXCEPT CONTRACT ADMINISTERED BY THE CITY ENGINEER DEPT. AND EXCEPT AS SPECIFIED BY SOME FRANCHISES.

**STREET CUT AND PATCH DETAIL FOR TYPICAL
TRAFFIC SIGNAL, STREET LIGHTING AND UTILITY
COMPANY CONDUITS**

**STANDARD DETAIL
STREET LIGHT
CONDUIT CROSSING**



SCALE: AS SHOWN	DATE DRAWN	REVISIONS	
		DATE	INITIAL
N.A.	3/23/2015	01/01/2022	AJS
DESIGNED DMN	CHECKED DMN	03/31/2023	JTB
DRAWN RDH	DATE APPROVED		
APPROVED BY			

STANDARD SPECIFICATIONS
2-09 STRUCTURE EXCAV.
9-29 ILLUMINATION MTL.

DETAIL NO.
R-810

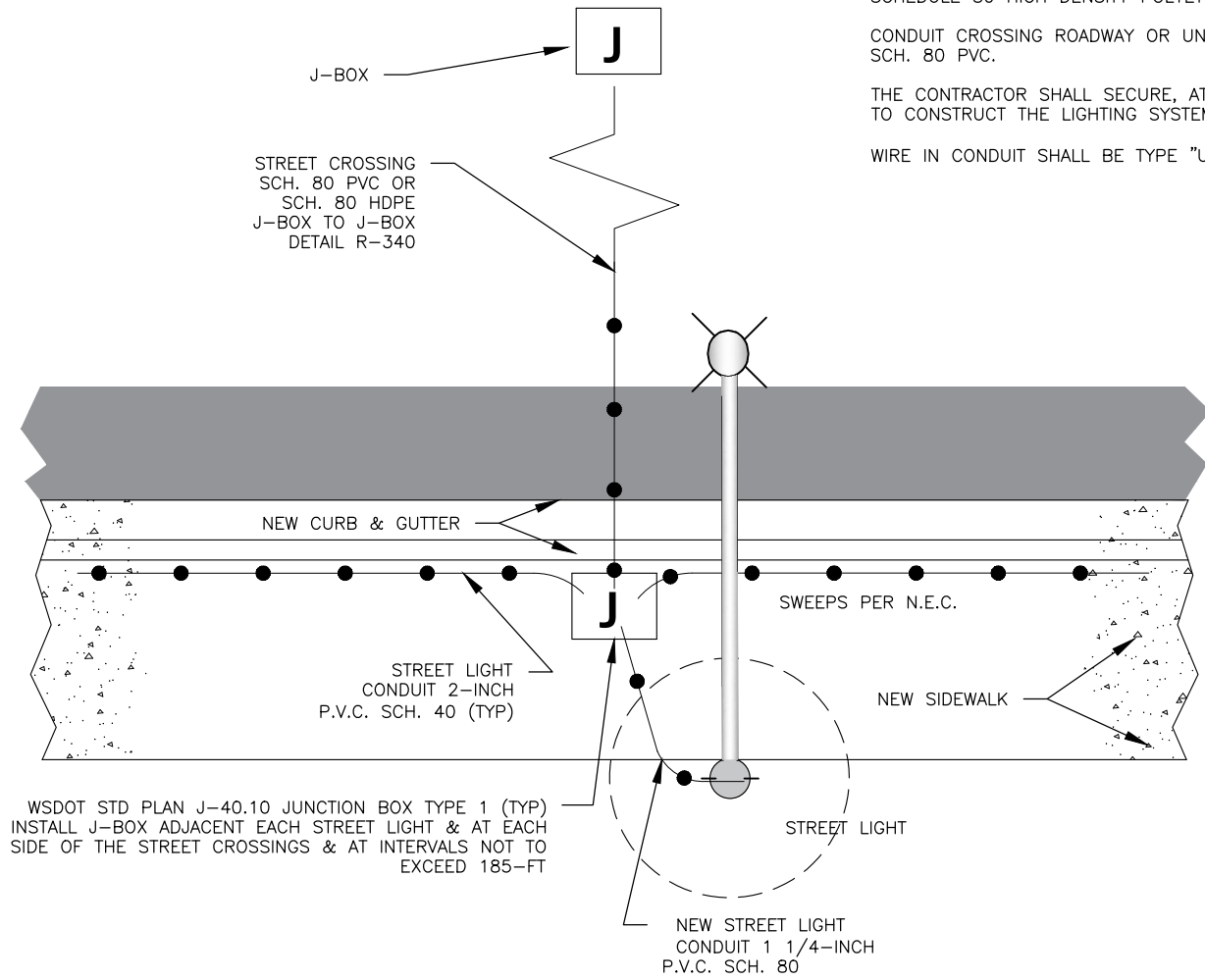
PAGE
1 OF 1

CONDUIT IN PLANTER STRIP OR BACK OF CURB (NOT IN ROADWAY) SHALL BE SCHEDULE 40 PVC OR SCHEDULE 80 HIGH DENSITY POLYETHYLENE (HDPE).

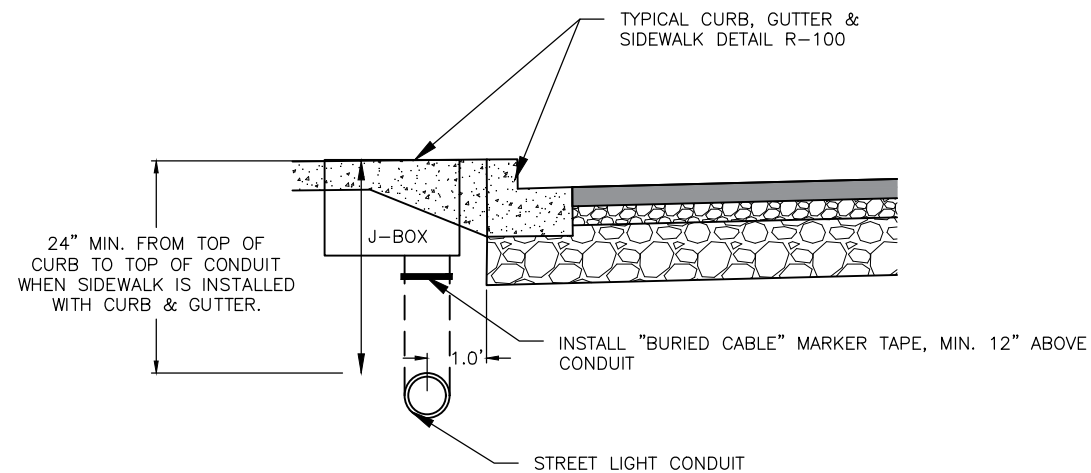
CONDUIT CROSSING ROADWAY OR UNDER ROADWAY SHALL BE SCH. 80 HDPE OR SCH. 80 PVC.

THE CONTRACTOR SHALL SECURE, AT HIS OWN EXPENSE, ALL ELECTRICAL PERMITS TO CONSTRUCT THE LIGHTING SYSTEM.

WIRE IN CONDUIT SHALL BE TYPE "USE".

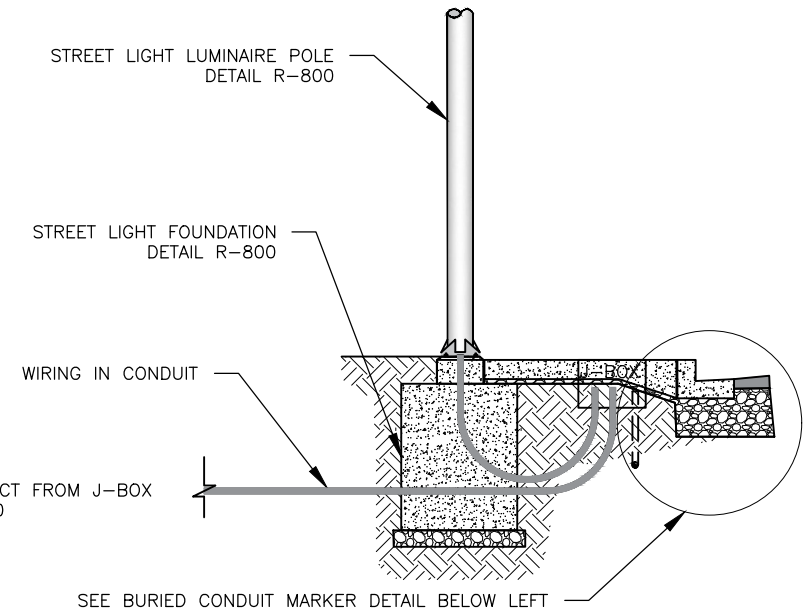


STREET LIGHT CONDUIT LOCATION

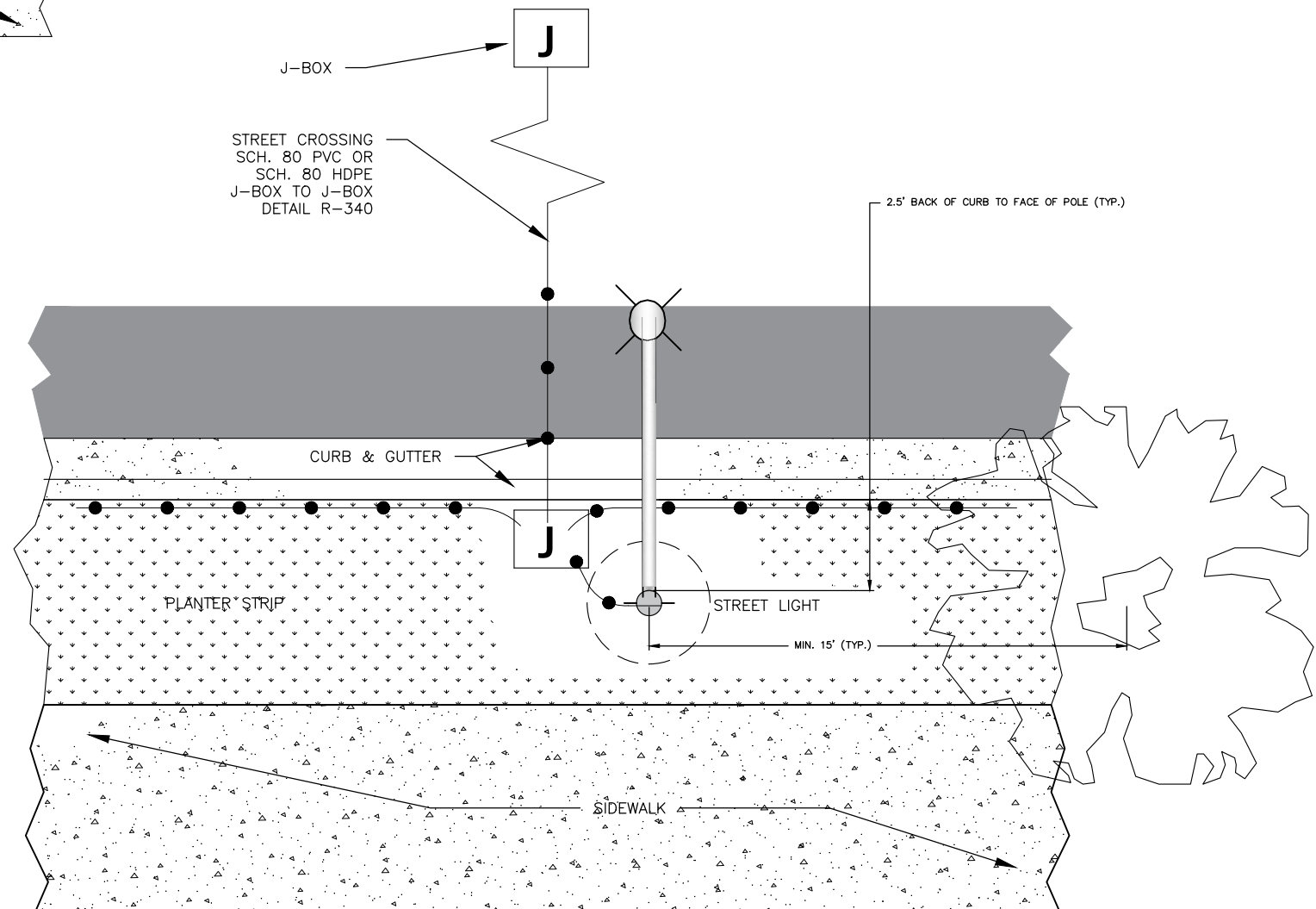


BURIED CONDUIT MARKER

JUNCTION BOX TYPE 1 PER WSDOT STD PLAN J-40.10
STREET LIGHT WIRING DETAILS PER WSDOT STD PLAN J-28.70
TYPICAL GROUNDING DETAILS PER WSDOT STD PLAN J-60.05



SECTION VIEW



STREET LIGHT CONDUIT & J-BOX LOCATION IN PLANTER STRIP

**STANDARD DETAIL
CONDUIT LOCATION
STREET LIGHTING**

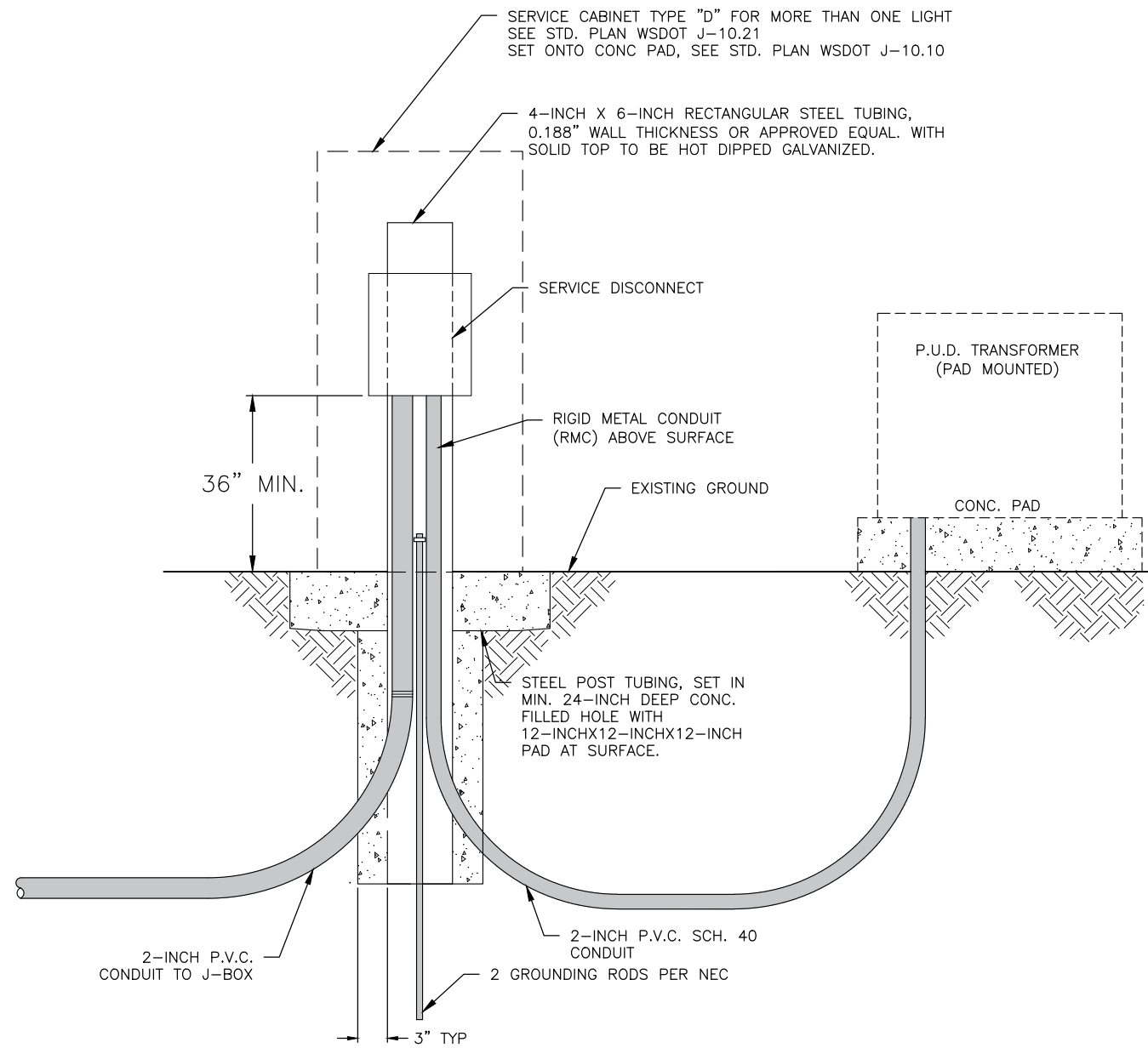


SCALE: AS SHOWN	DATE DRAWN	CHECKED	DATE APPROVED	REVISIONS			
				INITIAL	DATE	BY	DATE
N.A.	3/23/2015	DMN		LBV	11/2/2017	DMN	
DESIGNED		RDH		AIS	01/01/2022		
APPROVED BY							

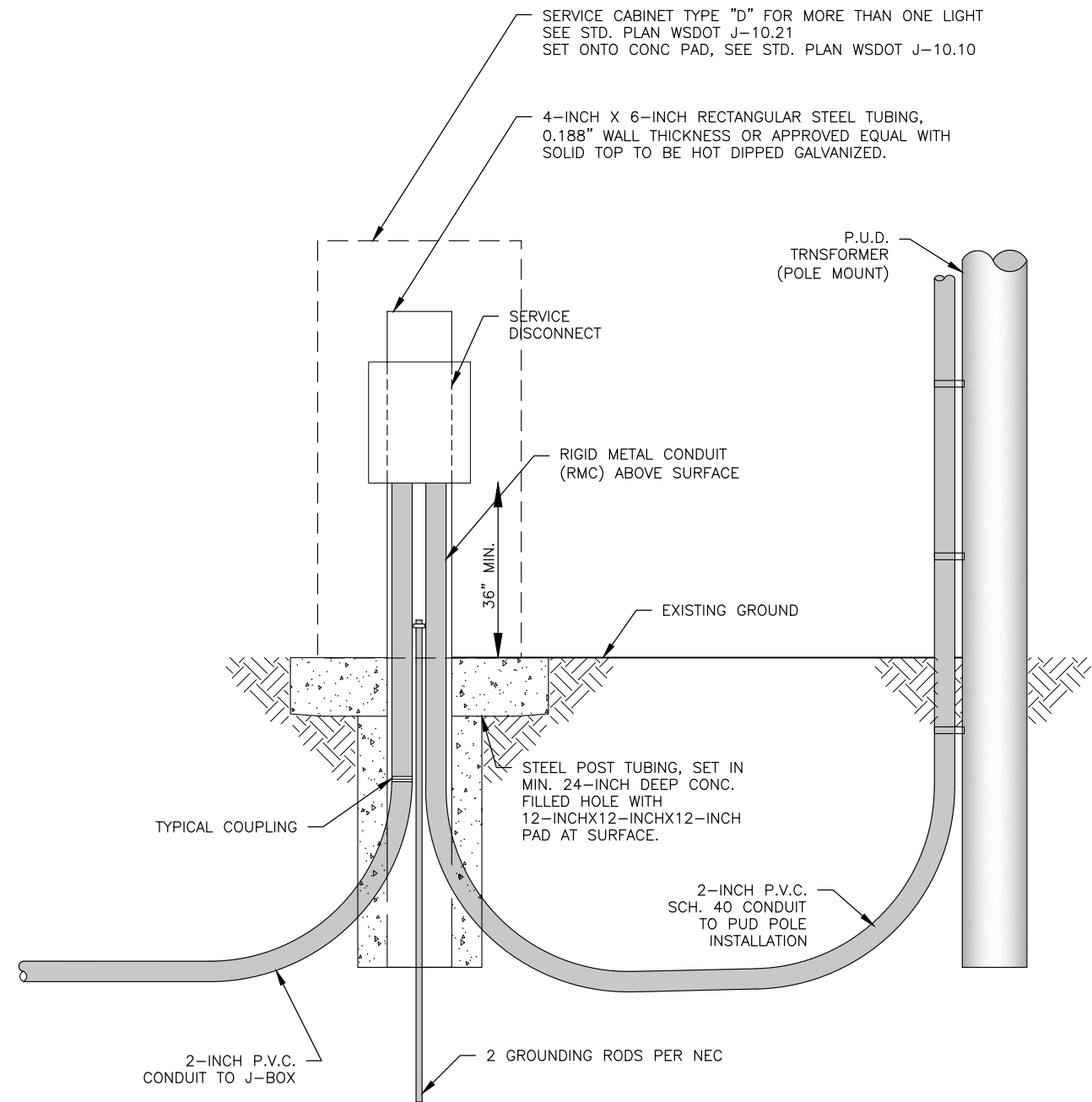
DETAIL NO.
R-815

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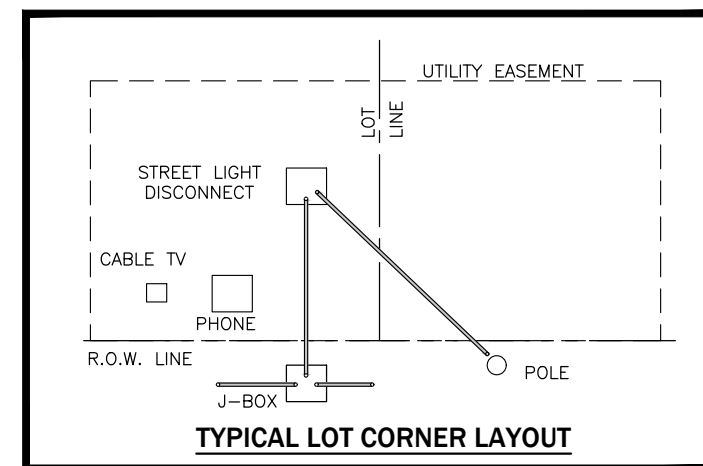
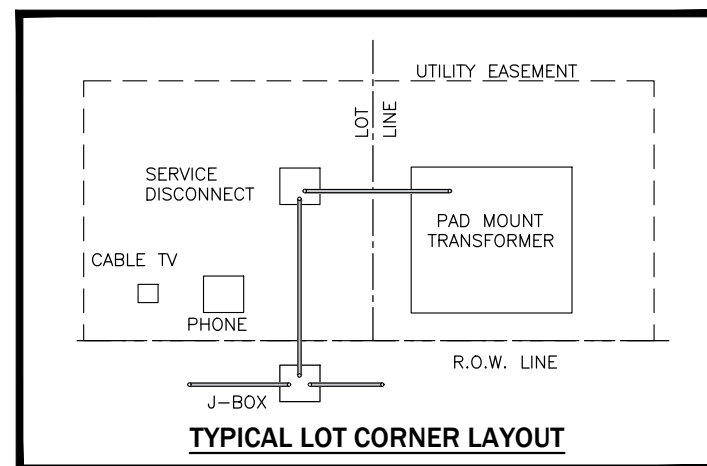
STANDARD SPECIFICATIONS
8-20 ILLUMINATION
9-29 ILLUMINATION MTL



**TYPICAL LIGHTING CONTROL PANEL
FOR PUD TRANSFORMER PAD MOUNT**



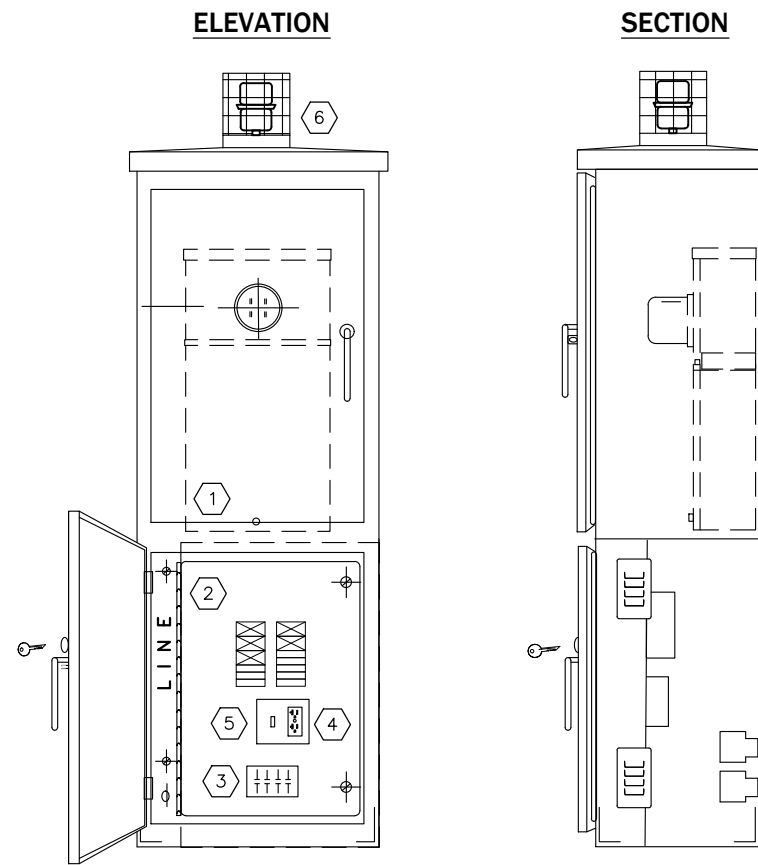
**TYPICAL LIGHTING CONTROL PANEL FOR PUD
TRANSFORMER POLE MOUNT**



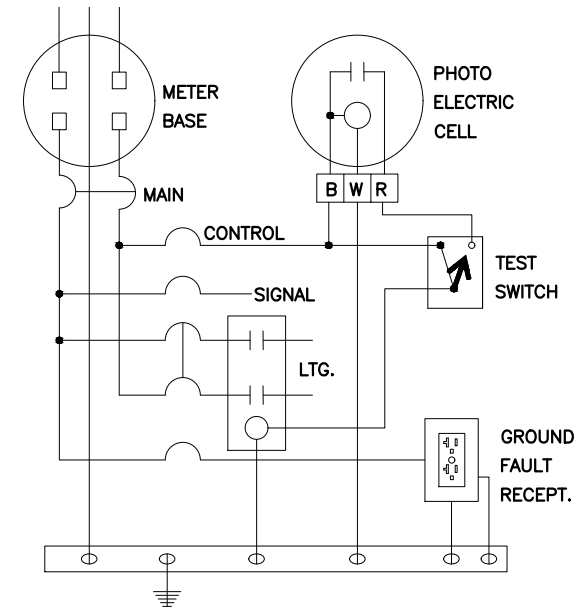
**STANDARD DETAIL
SERVICE & CONTROL PANEL
STREET LIGHTING**



SCALE: AS SHOWN	DATE DRAWN	CHECKED	REVISIONS			
			DATE	INITIAL		
N.A.	3/23/2015	DMN	03/26/2021	DMN		
DMN		RDH	01/01/2022	AJS		
			03/31/2023	JTB		



120/240VAC, 1 PHASE, 3 WIRE



WIRING SCHEMATIC

COMPONENT SCHEDULE

- ① METERBASE: 100 AMP, 4 JAW, B-LINE #114TB, SAFETY SOCKET TYPE, 5TH JAW KIT
- ② PANELBOARD: 120/240 VAC, 100 AMP BUS, 1 PHASE, 3 WIRE, COPPER BUS, 18 CKT EATON 100A 2 POLE MAIN BREAKER, BAB2100 (BACK-FED)
EATON BAB BOLT-ON BREAKERS:
 - 2 - 20 ILLUMINATION BRANCH A, B
 - 1 - 20 SIGNAL BRANCH
 - 1 - 20 BRANCH, GFR
 - 1 - 15 BRANCH, CONTROL BRANCH
 - 11 - 1 POLE SPACE ONLY
- ③ CONTRACTOR: LIGHTING RATED, 30 AMP, 4 POLE, 120 VAC COIL:1 REQUIRED
- ④ DUPLEX RECEPTACLE, 120 VAC, GFI
- ⑤ PHOTO-CELL BYPASS SWITCH, SPST, 15 AMP, 277 VAC
- ⑥ PHOTO ELECTRIC CELL: 1800 WATT, 120 VAC, TWIST LOCK, ALR #SST-IES WITH 6"x6"x6" WIRE MESH GUARD.

NOTES:

- 1. SEE WSDOT STANDARD J.10.10 FOR BASE DETAILS.
- 2. SEE WSDOT STANDARD J.60.05 FOR GROUNDING DETAILS.

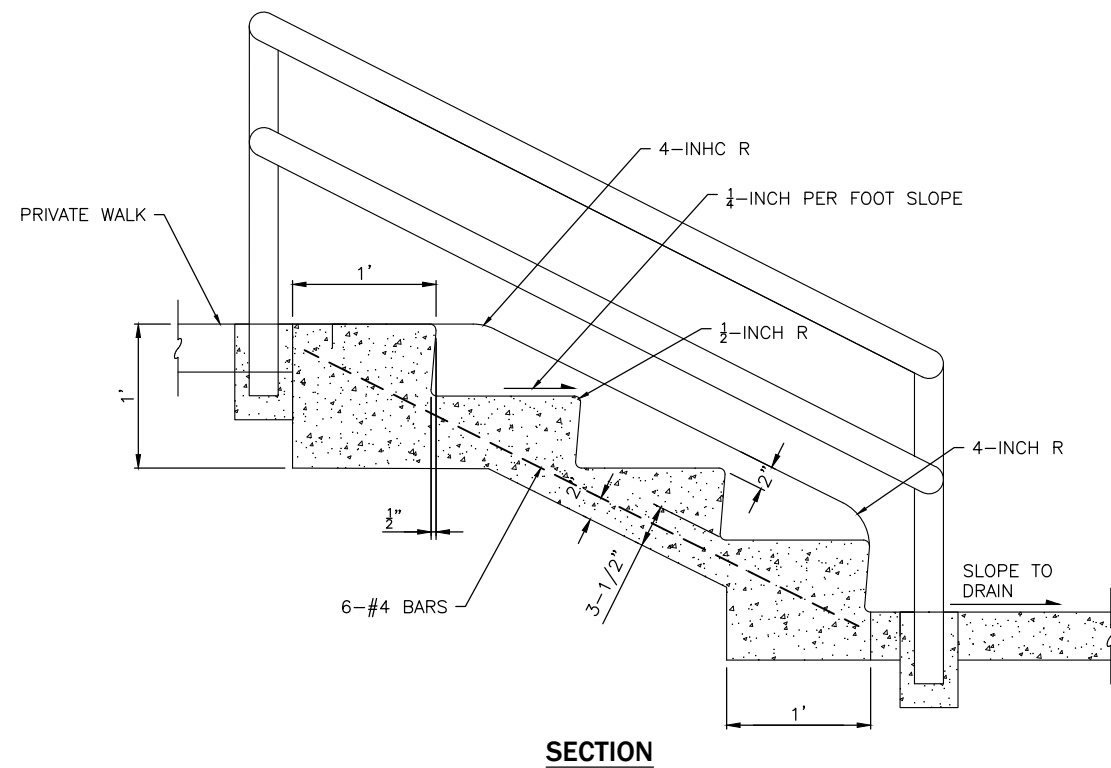
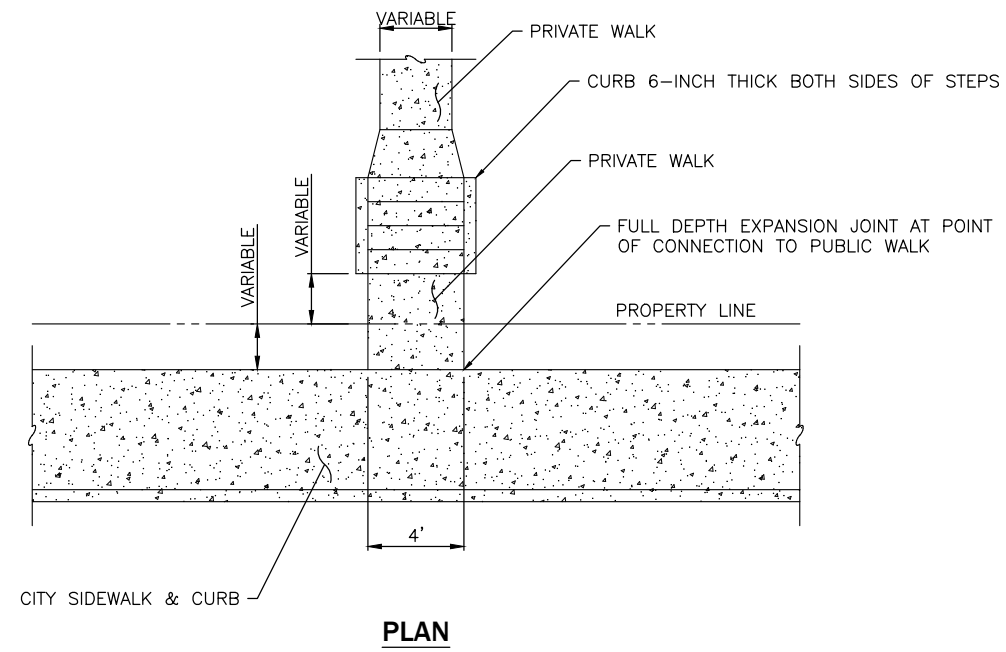
STANDARD DETAIL
SERVICE CABINET FOR
STREET LIGHTING



SCALE: AS SHOWN	DESIGNED	APPROVED BY	STANDARD SPECIFICATIONS
	DRAWN CAW		
DATE DRAWN 4/01/2020	CHECKED	DATE APPROVED	
REVISIONS		DATE	INITIAL
		09/07/2021	CAW

DETAIL NO.
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NOTES:

1. STEPS SHALL BE 4- FEET - 0- INCH WIDE, CURB TO CURB, PLUS 6- INCH CURBS ON EACH SIDE.
2. CEMENT CONCRETE SHALL BE CLASS 4000 TROWEL FINISH.
3. NUMBER OF STEPS SHALL SUIT INDIVIDUAL CONDITIONS, WITH TREAD AND RISER DIMENSIONS TO SUIT THE GRADE.
4. RISERS SHALL BE 5- INCH MINIMUM, 7- INCH MAXIMUM: TREAD SHALL BE 11- INCH MINIMUM, 12- INCH MAXIMUM.
5. HANDRAIL REQUIRED ON BOTH SIDES PER BUILDING CODE STANDARDS.
6. HANDRAIL MAY NOT ENCROACH INTO PUBLIC SIDEWALK

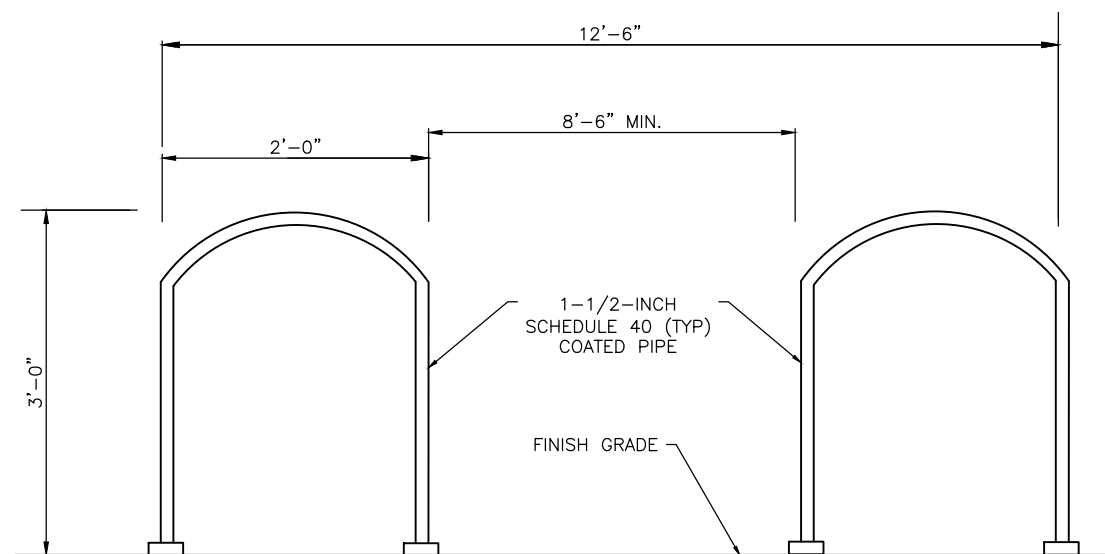
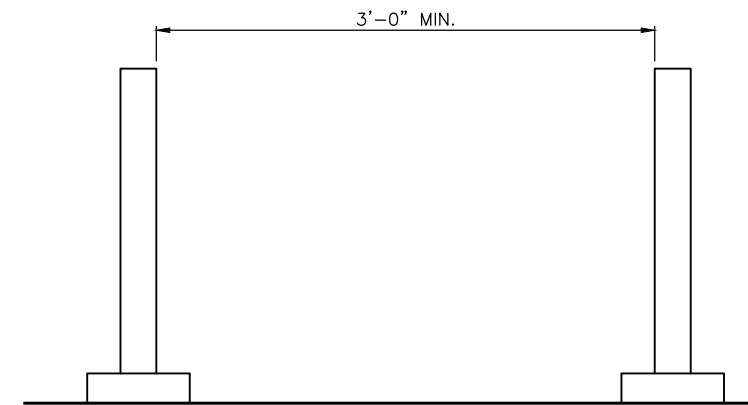
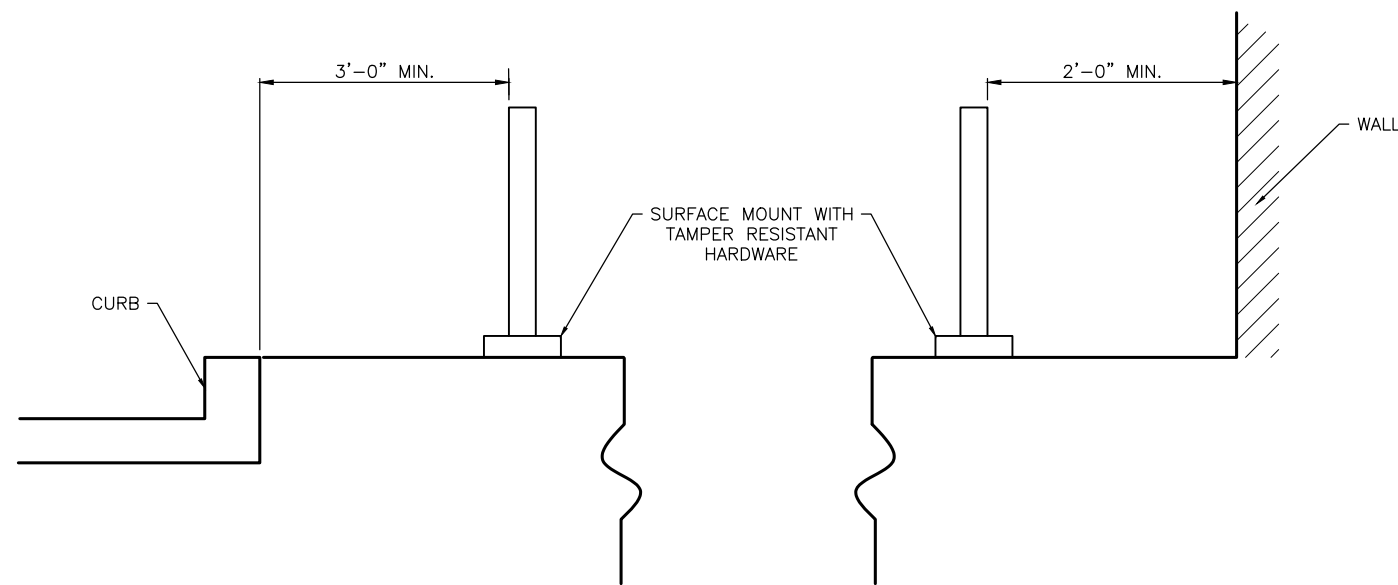
**STANDARD DETAIL
CEMENT CONCRETE
STEPS**



SCALE: AS SHOWN	DATE DRAWN	REVISIONS		
		DATE	INITIAL	
DESIGNED	0/23/2020	01/01/2022	AJS	
DRAWN	CHECKED	03/31/2023	JTB	
APPROVED BY	DATE APPROVED			
STANDARD SPECIFICATIONS				

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NOTES:

- UNLESS OTHERWISE APPROVED, BICYCLE PARKING RACKS SHALL BE "INVERTED U TYPE" CYCLE-SAFE U/2 BLACK PLASTISOL COATED BY MANUFACTURER OR APPROVED EQUIVALENT. OTHER RACKS MAY BE ALLOWED BUT MUST MEET THE FOLLOWING FUNCTIONAL REQUIREMENTS:
 - SUPPORT THE FRAME OF A BICYCLE IN TWO PLACES AND PREVENT THE BICYCLE FROM TIPPING OVER.
 - ALLOW THE FRAME AND ONE WHEEL TO BE LOCKED TO THE RACK WHEN BOTH WHEELS ARE LEFT ON THE BIKE.
 - ALLOW THE FRAME AND BOTH WHEELS TO BE LOCKED TO THE RACK IF THE FRONT WHEEL IS REMOVED.
 - ALLOW THE USE OF EITHER A CABLE OR U-SHAPED LOCK.
 - BE SECURELY ANCHORED BY SURFACE MOUNT.
 - BE USABLE BY BIKES WITH NO KICKSTAND.
 - BE USABLE BY BIKES WITH WATER BOTTLE CAGES.
 - BE USABLE BY A WIDE VARIETY OF SIZES AND TYPES OF BICYCLES.
 - BE COATED BY MANUFACTURER
- INSTALL PER MANUFACTURER'S RECOMENDATION.

**STANDARD DETAIL
BICYCLE PARKING RACK**



SCALE: AS SHOWN	DESIGNED	DRAWN CAW	APPROVED BY	STANDARD SPECIFICATIONS	REVISIONS	
					DATE	INITIAL
10/09/2020	CHECKED		DATE APPROVED		03/31/2023	JTB

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