

# NOTES:

- SIDEWALK SLAB DEPTH: 4" RESIDENTIAL
- 2. DRIVEWAY SECTION DEPTH: 6" RESIDENTIAL 8" COMMERCIAL AND
- 3. APPROACHES WATER METER LIDS SHALL BE "IFCO": No. 2019 TO BE USED IN DRIVEWAYS, No. 2020 WITH DROP HANDLES TO BE USED IN
- 4. 3/8" EXPANSION JOINT IN BOTH CURB AND SIDEWALK, FULL DEPTH (SEE
- WATER METER LID SHALL BE PLACED NO CLOSER THAN 6" FROM THE BACK OF THE SIDEWALK.
- 6. 1/8" TO 1/4" 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 PRIOR APPROVAL FROM THE
- CITY ENGINEERS OFFICE.

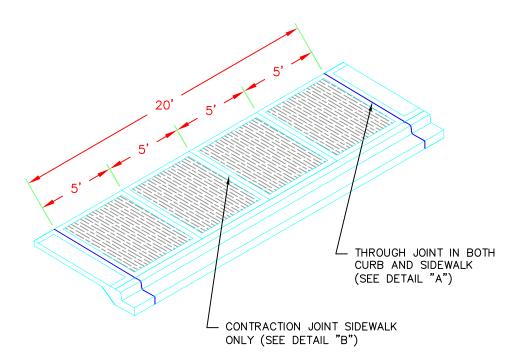
  7. FOR CURB & GUTTER REPLACEMENT, ASPHALT PAVEMENT REMOVAL BY SAW CUTTING FOR FORMS PLACEMENT (OR EXTRUDER MACHINE) IS REQUIRED. THE WIDTH OF 18" MINIMUM TRANSVERSE SAW CUT IS BASED ON MULTIPLE COMPACTED LIFTS OF CRUSHED ROCK AND HOT MIX ASPHALT (H.M.A.) BY ITS ASSOCIATED COMPACTION EQUIPMENT, WIDER PAVEMENT REMOVAL MAY BE NECESSARY. SUBSEQUENT STREET PATCH TO MATCH EXISTING STREET SURFACING THICKNESS OR 3" H.M.A.
- WHICHEVER IS GREATER.

  8. TACK COAT MUST BE PLACED ALONG THE CUT FACE OF THE REMAINING ASPHALT PRIOR TO PATCHING WITH H.M.A.

  9. LID ADJUSTMENTS SHALL BE DONE USING BRICK OR CONCRETE.

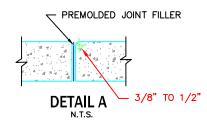
  10. SIDEWALK WIDTH (5'-0" MIN.) AS SPECIFIED ON DRAWINGS OR IN CONTRACT
- CONTRACT.
- 11. SEE DETAIL R-100, SHEET 2 FOR SECTIONS.

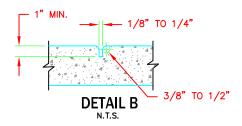
# **TYPICAL CONCRETE CURB, GUTTER & SIDEWALK**



JOINT SPACING IN SIDEWALK ADJACENT TO CURB AND GUTTER

# **JOINT SPACING**

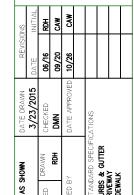




# STANDARD DETAIL **AND SIDEWALK** GUTTER, CURB, (

INITIAL	RDH	CAW						
DATE	06/16	09/20						
3/23/2015	CHECKED	DMN	DATE APPROVED		SATIONS			
	DRAWN	RDH	37		STANDARD SPECIFICATIONS	S & GUTTER	8-06 DKIVEWAT 8-14 SIDEWALK	į
	DESIGNED	DMN	APPROVED BY		STAN	8-04 CURBS	8-06 DRIVE 8-14 SIDEW	
		R-		∟	10. <b>0</b>			
		1		GE F	2		1	

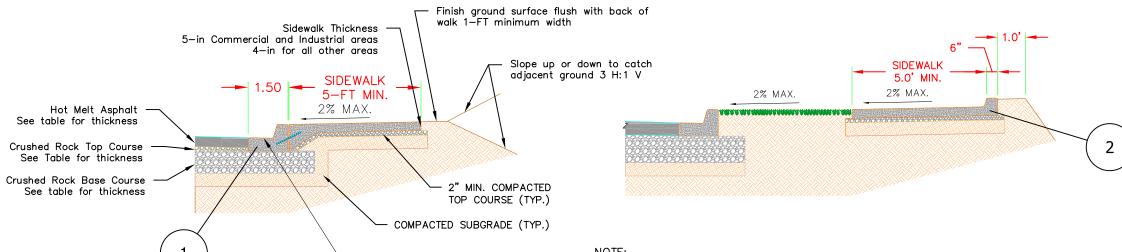
**AND SIDEWALK** 



DETAIL NO.
R-101

8-04 8-14

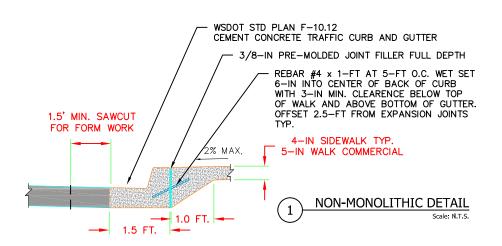
R-101 PAGE 2 OF 2

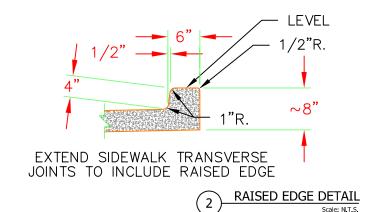


WSDOT STD Plan F-10.12 Cement

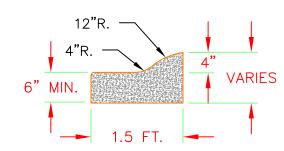
Concrete Curb and Gutter

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.

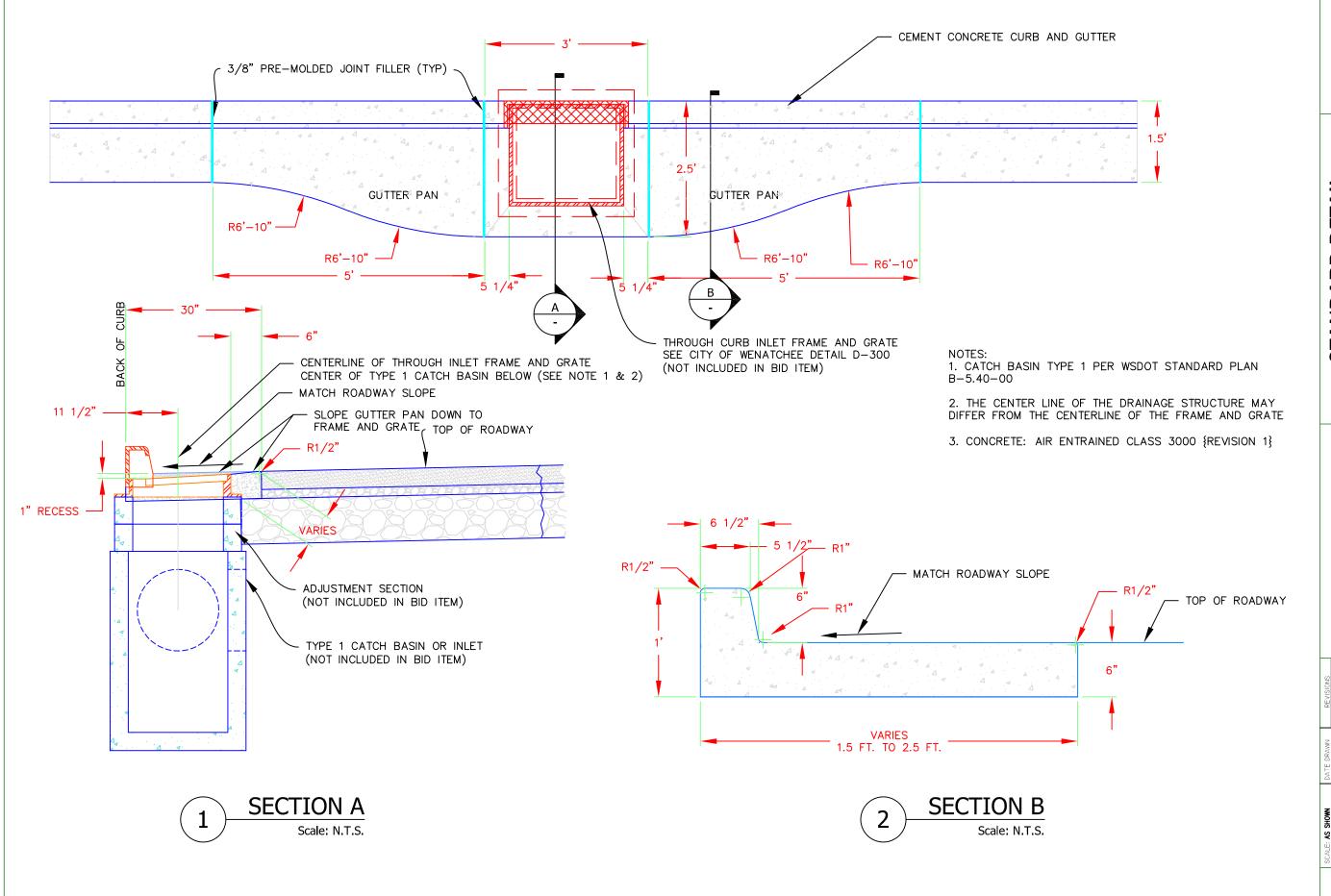




	Local	Collector	Arterial	Truck Route
HMA	3 Inches	4 Inches	4 Inches	6 Inches
Top Course	3 Inches	2 Inches	2 Inches	2 Inches
Base Course	9 Inches	10 Inches	10 Inches	10 Inches



**ROLLED CURB DETAIL** 



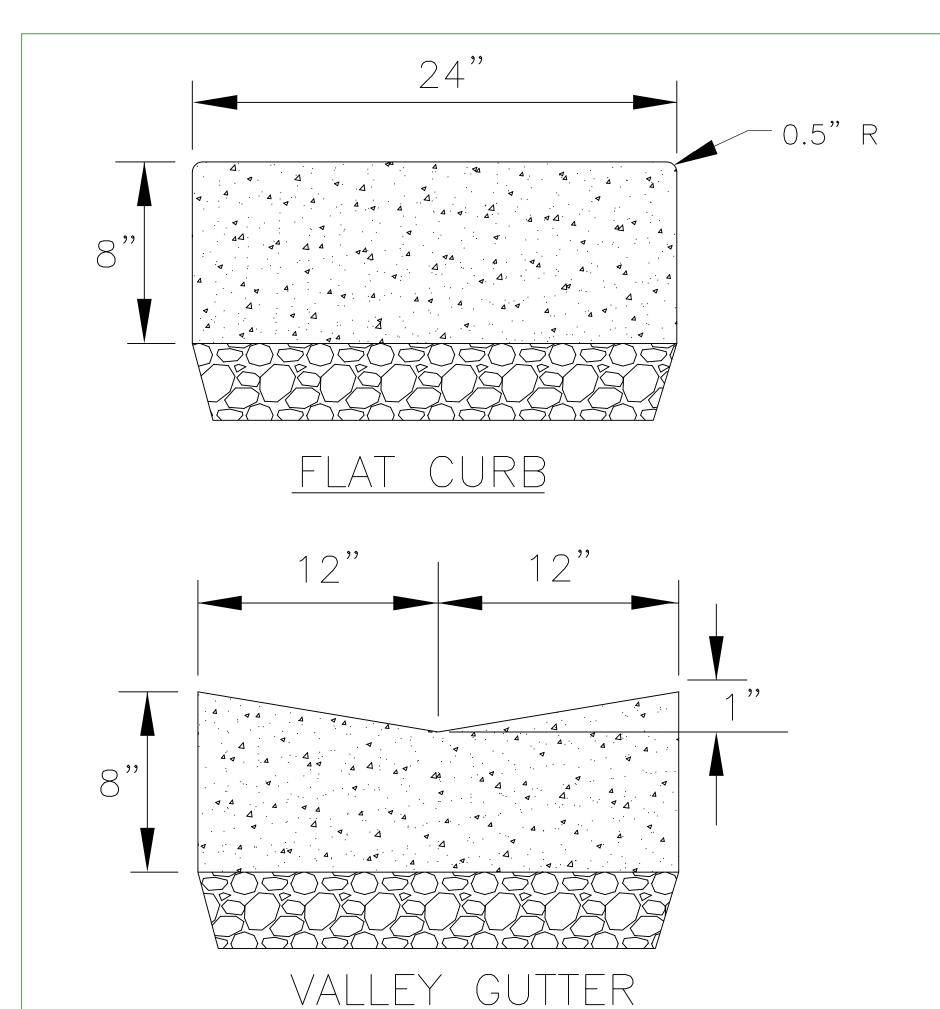
STANDARD DETAIL
GUTTER PAN AT
THROUGH CURB INLET

City of Wenatchee



						_
			5/31/2011	DATE	INITIAL	
	DESIGNED	DRAWN	CHECKED	10/19/2012 DMN	NWO	
R-	DMN	RDH		4/9/2015	RDH	
ГАП <b>—</b> 1	APPROVED BY	H.	DATE APPROVED 12/21/2020	12/21/2020	CAW	
- ^   1						
0.	STAN	STANDARD SPECIFICATIONS	CATIONS			_
	8-04 CURB	S, GUTTERS, A	8-04 CURBS, GUTTERS, AND SPILLWAYS			

PAGE **1 OF 1** 



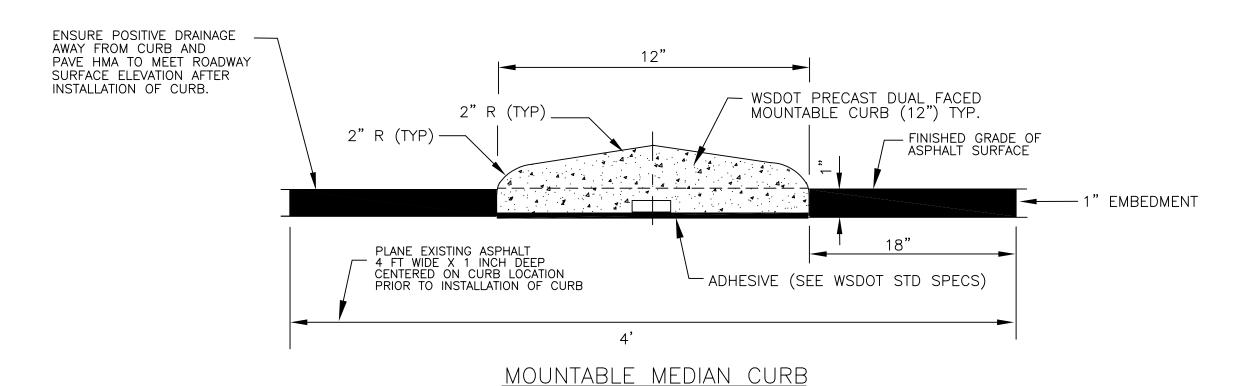
# **NOTES**

- 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" OF 5/8" MINUS CRUSHED ROCK.
- 4. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
- 5. FOR CURB EXPANSION 10' OC TYPICAL.
- 6. BROOM FINISH ONLY.

# STANDARD DETAIL FLAT CURB AND VALLEY GUTTER



SNO	INITIAL						
REVISIONS	DATE						
DATE DRAWN	10/02/2020	CHECKED		DATE APPROVED	ATIONS		
SHOWN		DRAWN	CAW	37	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN		DESIGNED		APPROVED BY	STAN		
			DE <sup>®</sup>		io.		



NOT TO SCALE

# NOTE:

1. ALL JOINTS BETWEEN ASPHALT PATCH AND EXISTING PAVEMENT SHALL BE SEALED.

# STANDARD DETAIL MOUNTABLE MEDIAN CLUB



SCALE: AS SHOWN 10

DESIGNED DRAWN CH

APPROVED BY DAY

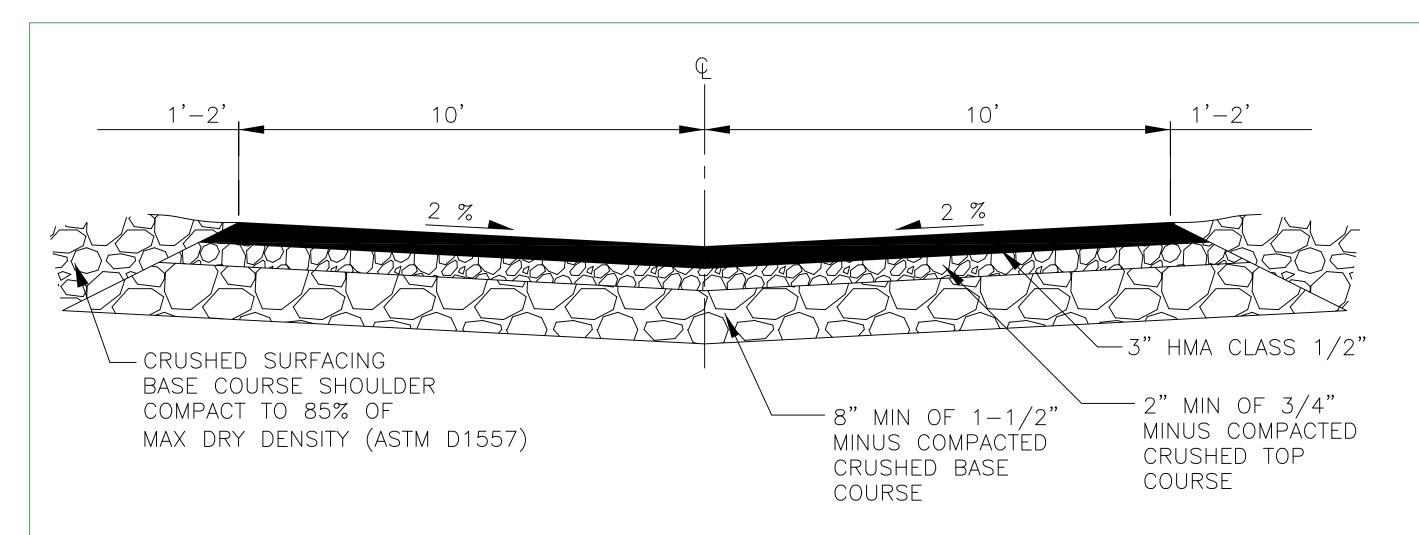
STANDARD SPECIFICATI

9.26.2 FPOXY ADHESIVE FOR 1

9.34.2 PAINT

DETAIL NO. R-140

PAGE



# NOTES:

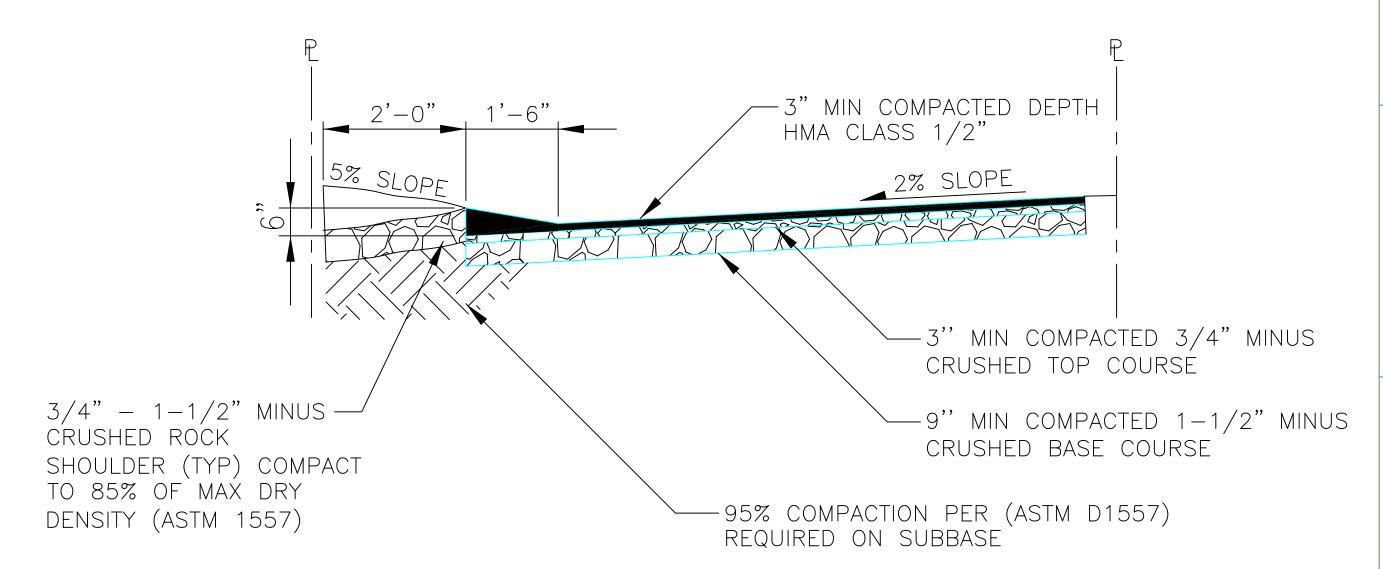
- 1. ALL EXISTING ALLEYS SHALL HAVE A MINIMUM PAVEMENT WIDTH OF 12 FEET UNLESS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 2. NEW ALLEYS SHALL HAVE A MINIMUM PAVEMENT WIDTH OF 20 FT.
- 3. INVERT DRAINAGE TO BE COLLECTED AT LOW END OF IMPROVED SECTION WITH CATCH BASIN INSTALLATION AND TIGHTLINED TO STORM 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 AFTER THE FINAL LIFT OF ASPHALT HAS BEEN PLACED.

# STANDARD DETAIL STANDARD ALLEY **CROSS-SECTION**





IN REVISIONS	20 DATE INITIAL			OVED			
DATE DRAWN	10/01/2020	CHECKED		DATE APPROVED	ICATIONS		
SHOWN		DRAWN	CAW	34	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN		DESIGNED		APPROVED BY	STAN		
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# City of THICKENED EDGE Wenatchee PRIVATE ROADWAY

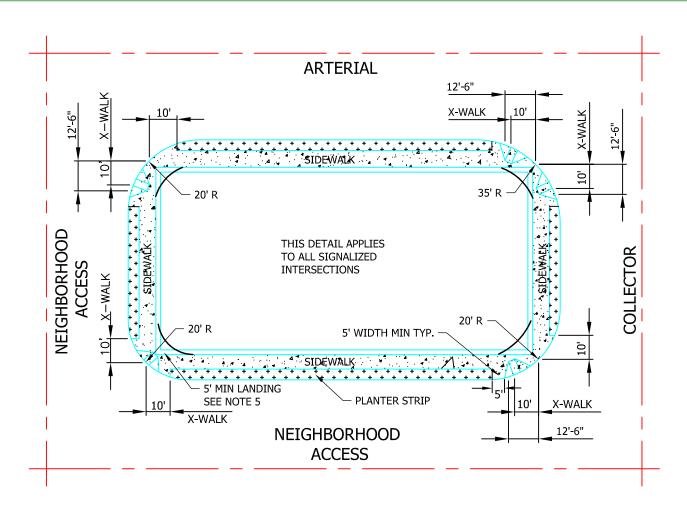
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DETAIL NO.

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# NOTE:

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

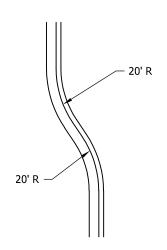


# **CURB RADIUS AT INTERSECTIONS**

	ARTERIAL	COLLECTOR	NEIGHBORHOOD ACCESS
ARTERIAL	35'	35'	20'
COLLECTOR	35'	20'	20'
NEIGHBORHOOD ACCESS	20'	20'	20'

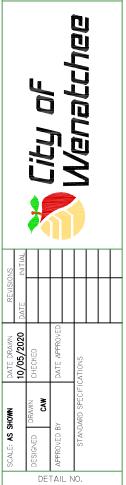
## NOTES:

- 1. ARTERIAL TO COLLECTOR MAY BE LARGER DEPENDING ON TRUCK ROUTES
- 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 RADII 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

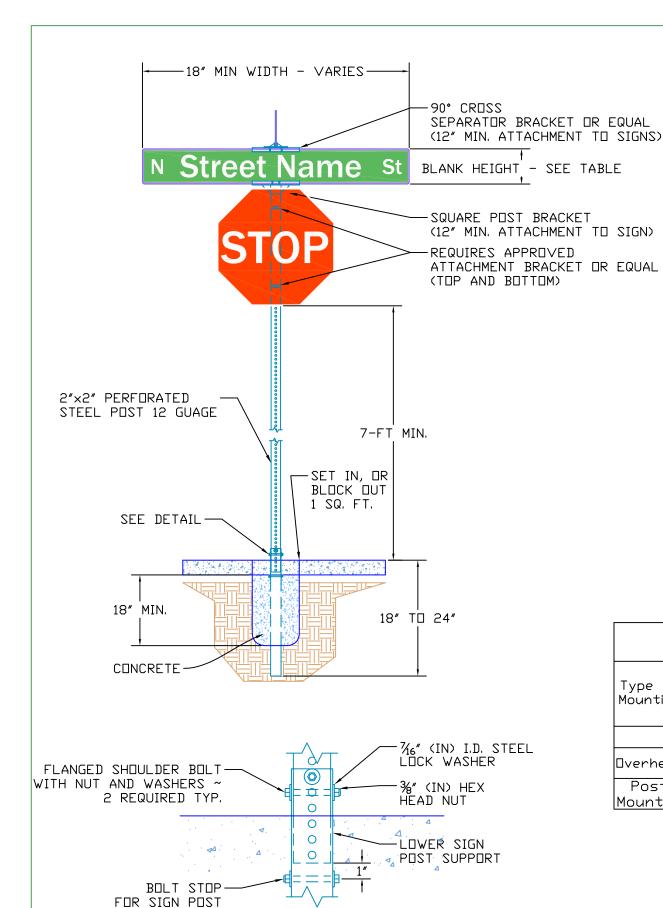


DETAIL A — MINIMUM RADIUS FOR CURB BULB/PARKING SETBACK

# STANDARD DETAIL STANDARDS & CURB RAMP LOCATIONS



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PAGE
1 OF 1



BASE DETAIL

# NOTES: STOP signs shall be MUTCD R1-1. Sizes shall be $30 \times 30$ min for single lane roads, and 36 x 36 for multi-lane roads. 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. 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. The orientation of the Street Name Sign shall be parallel with the street that The minimum installation height of a post-mounted street name sign shall be 9.5-feet, if no STOP sign is installed. Use higher classification of road at intersections 0.125" sheet aluminum for permanent signs. Type III or IV reflective sheeting for background of signs. Corner radii of 1 ½ inches. See City Standard R11 for sign placement details.

Minimum Letter Heights on Street Name Signs (See Note 3)											
Type of	Type of	Speed Limit		Height	Supplemental	Blank Height	Border				
Mounting	Mounting   Street   '		Initial Upper-case			Blank Height	DOL GEL				
Overhead	All Types	All Speed Limits	12 inches	9 inches	Apple logo	18 inches	1½ inches				
Post Mounted	All Types	All Speed Limits	6 inches	4.5 inches	3-2,25 inches	9 inches	½ inch				

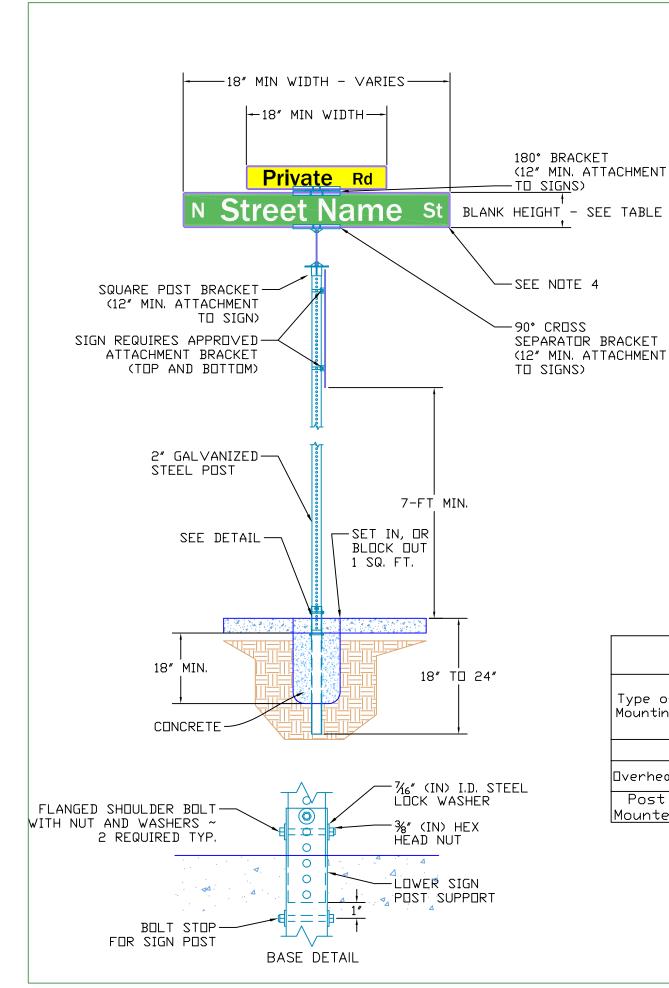
# STANDARD DETAIL STOP AND STREET NAME SIGNS



				_	_			
SNO	INITIAL	CAW						
REVISIONS	DATE	09/20						
DATE DRAWN	10/18/2012	CHECKED		DATE APPROVED	PECIFICATIONS	LATED MATERIALS	MAIERIALS FABRICATION	
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R-200

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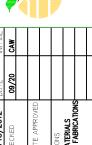
# NOTES:

- 1 STOP signs shall be MUTCD R1-1
- 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 amended by Washington State law. 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 may 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 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.)
- 7 The lettering height for a Private Road sign shall be 4 inches Initial Upper-case and 3-inches Lower-case. The abriviation 'Rd" for Road shall be used.

Minimum Letter Heights on Street Name Signs (See Note 3) Letter Height Type of Type of Speed Limit Supplemental | Blank Height | Border Mounting Śtreet Initial Lower-Case Upper-case All Speed Overhead All Types 12 inches 1½ inches 9 inches Apple logo 18 inches Limits 3-2.25 All Speed Post All Types 6 inches 4.5 inches 9 inches ½ inch Mounted ' Limits inches

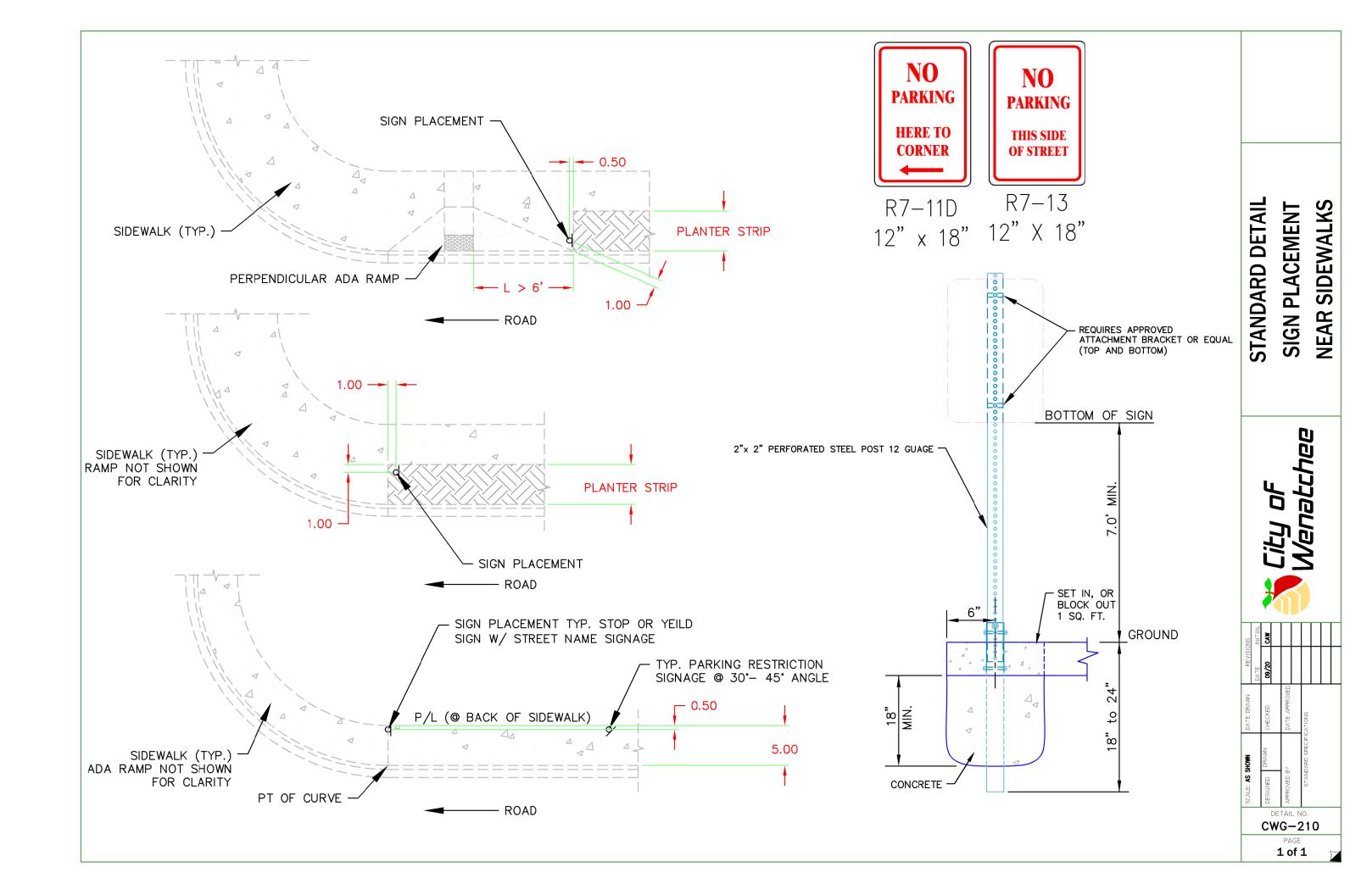
# STANDARD DETAIL STOP AND STREET NAME SIGNS





DETAIL NO. **R-201** 

PAGE **1 OF 1** 



# NO PARKING ANY TIME 50.0'

TYPICAL SIGN POST INSTALLATION N.T.S.

STANDARD DETAIL SIGN POST

INSTALLATION



INS	INITIAL	CAW					
REVISIONS	DATE	12/21/2020 CAW					
DATE DRAWN	02/21/06	CHECKED	XK	DATE APPROVED	ATIONS		
NHOHN		DRAWN	RLK	13	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN		DESIGNED		APPROVED BY	STAN		
				TAI	io.		

PAGE **1 OF 1** 

2" CALIPER TREE SPECIMEN, CENTRAL

USE WEBBED TREE TIE OR NOTCHED PLASTIC TREE CHAIN OR OTHER APPROVED TREE TIE PRODUCT. MAKE

TRUNK FLARE MUST BE JUST ABOVE GRADE. DO NOT

OVER EXPOSED SOIL, DISTRIBUTE TOP SOIL TO FINISH GRADE TO A UNIFORM DEPTH INTO ALL CORNERS OF THE TREE WELL. TAMP DOWN TO CREATE A SMOOTH,

LEVEL SURFACE EVEN WITH THE SIDEWALK, AVOIDING

AMENDED SOIL TAMPED DOWN TO PREVENT SETTLING

BACKFILL WITH MIX OF AMENDED AND NATIVE SOIL

DEEPROOT OR EQUAL 18" W BY 36" D

INSTALLED 6' LONG CENTERED ON TREE

LEADER SHALL NOT BE CUT, PRUNE BROKEN BRANCHES

SURE IT IS LOOSELY PLACED.

SEE NOTE 5. 2"x2" HEM/FIR STAKES

SEE NOTE 5.

BURY WITH MULCH OR SOIL.

INJURY TO THE TRUNK FLARE.

CONCRETE SIDEWALK

5' MIN.

'2 HEIGHT DF TREE VARIES

1/2 OF

...

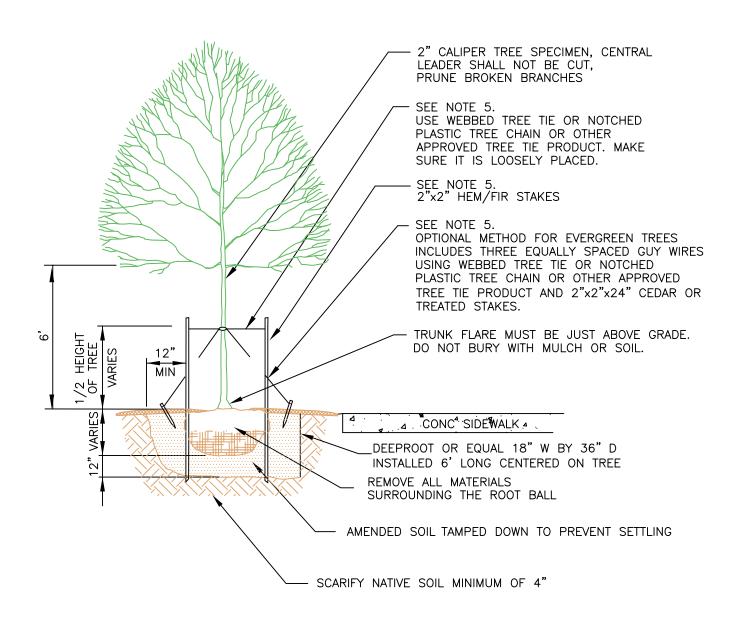
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# STANDARD DETAIL TREE WELL



SNC	INITIAL										
REVISIONS	DATE										
DATE DRAWN	10/20/2020	CHECKED		DATE APPROVED		ATIONS					
NHOHS	DRAWN		CAW	.∀€		STANDARD SPECIFICATIONS					
SCALE: AS SHOWN		DESIGNED		APPROVED BY		STAN					
				ΓΔΙ		Ю.					
	R-250										

- 1. SIZE OF PLANTING PIT SHALL BE 3 TIMES LARGER THAN ROOT BALL.
- 2. FOR DECIDUOUS TREES, 2" CALIPER MINUMUM AND BRANCHING STARTS 5' ABOVE GRADE (UNLESS OTHER APPROVED BY CITY).
- 3. FOR PLANTING DISTANCES NEAR INTERSECTIONS AND DRIVEWAYS, REFER TO SIGHT DISTANCE STANDARDS.
- 4. TREES SHALL NOT BE PLANTED WITHIN 10' OF ANY UG UTILITY ACCESS, WHICH MAY BE LOCATED IN THE PLANTER STRIP OR ADJACENT SIDEWALK.
- 5. REMOVE ALL MATERIALS SURROUNDING THE ROOT BALL.
- 6. STAKE AND INCLUDE TIMELINE FOR REMOVAL OF STAKES AND TIES.
- 7. ROOT BARRIER TO BE DEEPROOT (OR APPROVED EQUAL) 18" WIDTH BY 36" DEPTH BY 6' LONG TOTAL INSTALLED ON BOTH CURB AND SIDEWALK SIDE.
- 8. NO EVERGREEN TREES IN PUBLIC RIGHT OF WAY.



## NOTES:

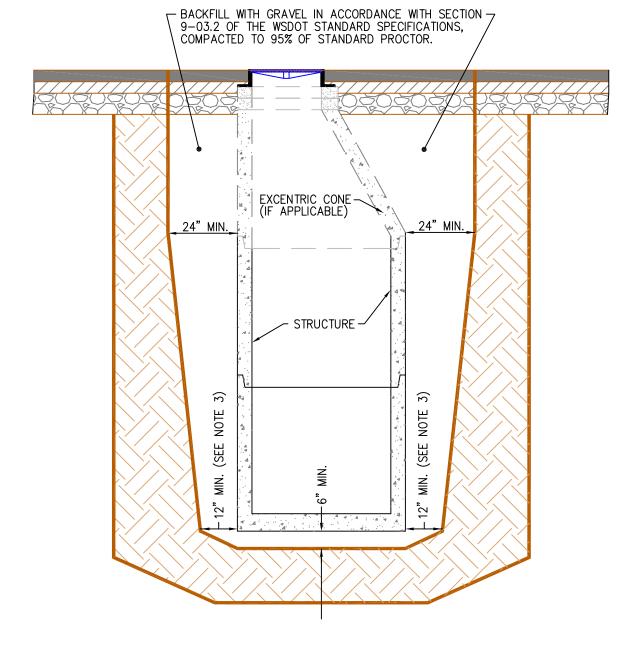
- 1. SIZE OF PLANTING PIT SHALL BE 4' BY 6' BY 3' DEEP.
- 2. FOR DECIDUOUS TREES, 2" CALIPER MINIMUM AND BRANCHING STARTS 5' ABOVE GRADE (UNLESS OTHER APPROVED BY CITY.)
- 3. TREES SHALL NOT BE PLANTED WITHIN 10' OF ANY UG UTILITY ACCESS WHICH MAY BE LOCATED IN THE PLANTER STRIP OR ADJACENT SIDEWALK.
- 4. STAKE ONLY WHEN NECESSARY OR IF REQUIRED BY THE CITY AND INCLUDE TIMELINE FOR REMOVAL OF STAKES AND TIES.
- 5. ROOT BARRIER TO BE DEEPROOT (OR APPROVED EQUAL 18" BY 36" BY 6' LONG INSTALLED ON BOTH CURB AND SIDEWALK SIDE.
- 6. NO EVERGREEN TREES IN PUBLIC RIGHT OF WAY

# STANDARD DETAIL TREE PLANTING BACK OF WALK



INS	INITIAL						
REVISIONS	DATE						
DATE DRAWN	10/16/2020	CHECKED		DATE APPROVED	ATIONS		
SHOWN		DRAWN	CAW	37	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN		DESIGNED		APPROVED BY	STAN		

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PAGE

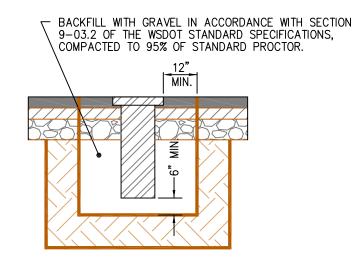


**COMPACTION REQUIREMENTS FOR STORM DRAIN AND SANITARY SEWER STRUCTURES** 

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 R8 FOR UTILITY ADJUSTMENTS.



**VALVE CAN DETAIL** 

# STRUCTURE COMPACTION STANDARD DETAIL REQUIREMENTS

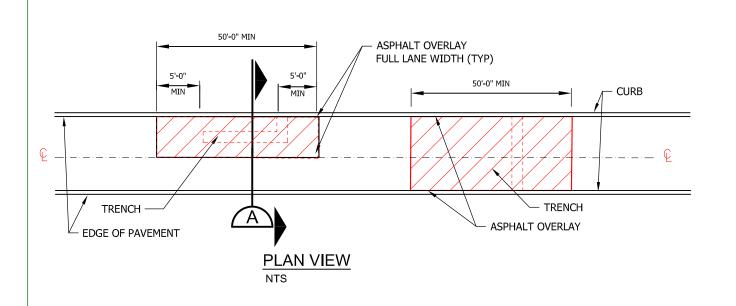


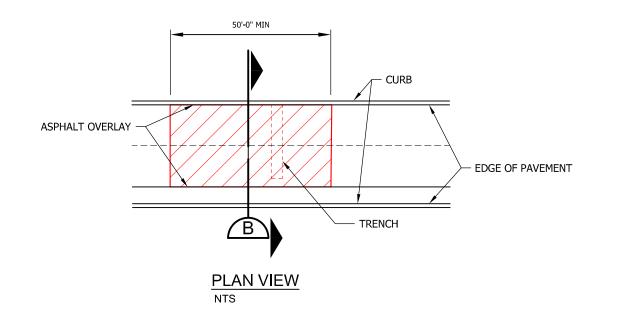


R-300 PAGE

# AND COMPACTION TRENCH REPAIR





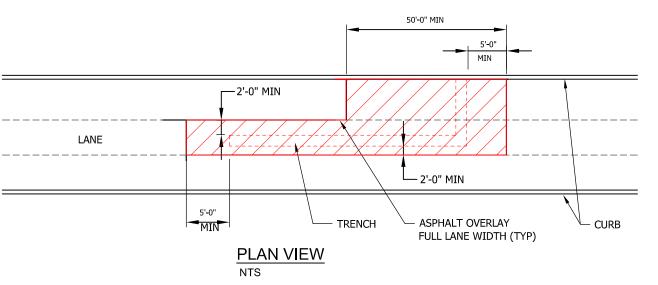


# EDGE OF PAVEMENT ALL EDGES 2" GRIND AND OVERLAY FULL LANE WIDTH (TYP) PAVEMENT A-A NTS

# EDGE OF PAVEMENT LANE EDGE 2" GRIND AND OVERLAY FULL LANE WIDTH (TYP) PAVEMENT B-B NTS

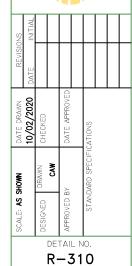
## NOTES:

- 1. THIS STANDARD APPLIES TO ALL CUTS AND ARTERIAL STREETS AND ALL PAVEMENT LESS THAN 5 YEARS OLD.
- 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' MIN. LENGTH.
- 5. INTENDED ONLY FOR DRIVING LANE



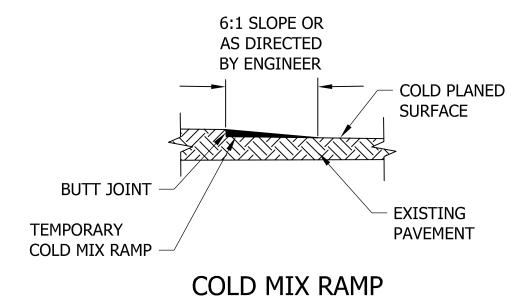
# STANDARD DETAIL ASPHALT OVERLAY FOR TRENCH REPAIR





PAGE **1 OF 1** 

# FULL WIDTH COLD PLANING DETAIL

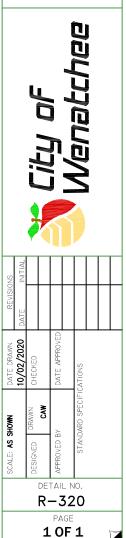


# NOTES:

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.

ALL COLD MIX RAMPS WILL USE A BUTT JOINT

# STANDARD DETAIL FULL WIDTH COLD PLANING DETAIL











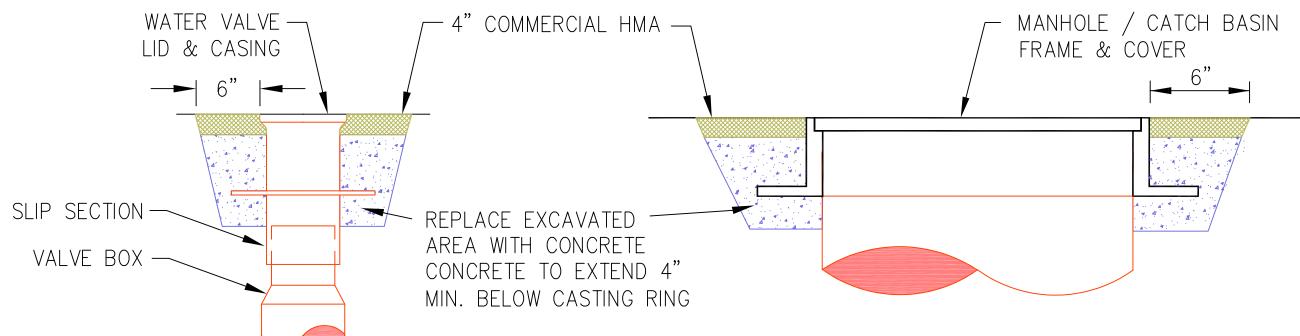
R-330

1 OF 1

# MONUMENT LID & CASING 4" COMMERCIAL HMA REPLACE EXCAVATED AREA WITH CONCRETE CONCRETE TO EXTEND 4" MIN. BELOW CASTING RING

# **MONUMENT ADJUSTMENT DETAIL**

N.T.S.



WATER VALVE **ADJUSTMENT DETAIL** 

N.T.S.

# MANHOLE, CATCH BASIN **ADJUSTMENT DETAIL**

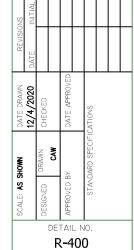
N.T.S.

# 1) THE HIGHEST POINT ON THE CASING, RING, OR COVER SHALL BE NO LESS THAN FLUSH AND NO MORE THAN 1/8" BELOW FINISHED GRADE.

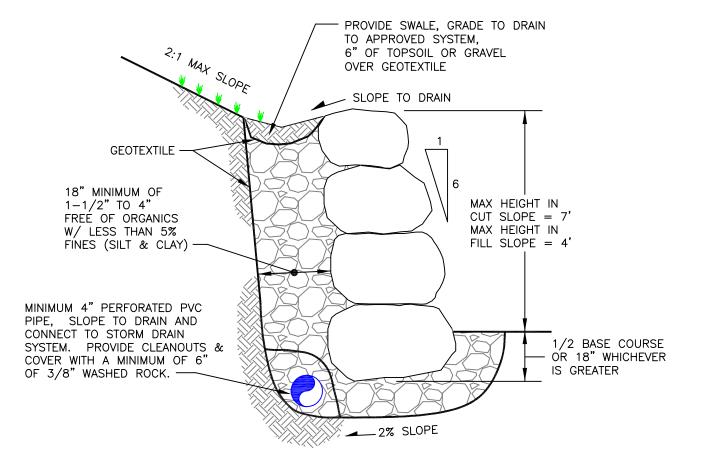
NOTES:

- 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 BE LEVEL WITH EXISTING ASPHALT SURFACE.



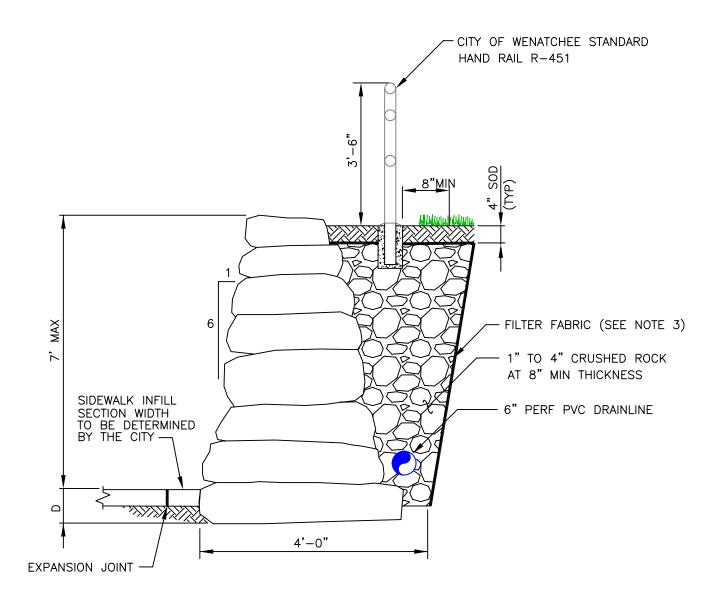


PAGE **1 OF 1** 



## 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" TO 6" 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', IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL/CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON. NO ROCKERY SHALL BE GREATER THAN 7' IN HEIGHT UNLESS APPROVED BY CITY.
- 6. A ROCKERY GREATER THAN 4' IN HEIGHT AND ON PRIVATE PROPERTY SHALL REQUIRE A BUILDING PERMIT WITH A THIRD PARTY INSPECTION TO BE CONSTRUCTED.



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

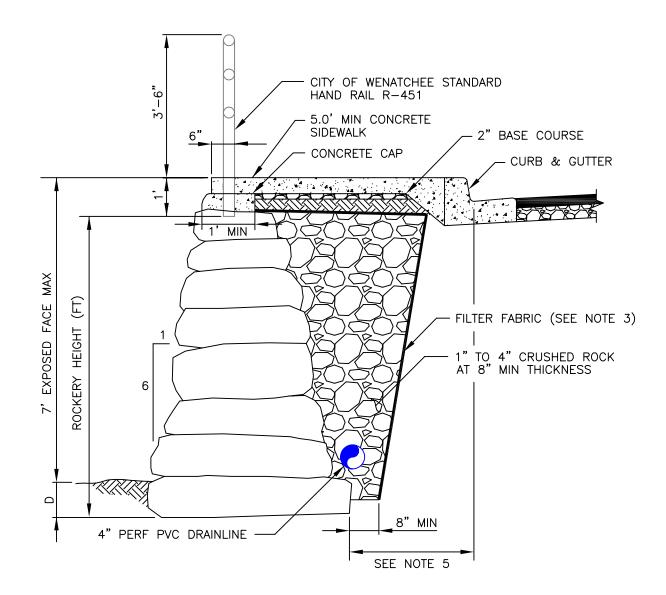
## <u>NOTES</u>

- 1. ROCKERY MUST BE INSTALLED BY LICENSED CONTRACTOR.
- 2. IF ROCKERY HEIGHT EXCEEDS 4', IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL/CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
- 3. FILTER FABRIC SHALL BE MIRAFI 140 N SERIES OR APPROVED EQUAL.
- 4. APPROVED 6" PERF PVC DRAINLINE TIE TO PUBLIC STORM SYSTEM MUST BE INSPECTED BY PUBLIC WORKS.

# STANDARD DETAIL ROCKERY DETAIL SIDEWALK SUPPORT



IONS	INITIAL							
REVISIONS	DATE							
DATE DRAWN	10/22/2020	CHECKED		DATE APPROVED		CATIONS		
SHOWN		DRAWN	CAW	37		STANDARD SPECIFICATIONS		
SCALE: AS SHOWN		DESIGNED		APPROVED BY		STAN		
				ΤΑΙ				
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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

## <u>NOTES</u>

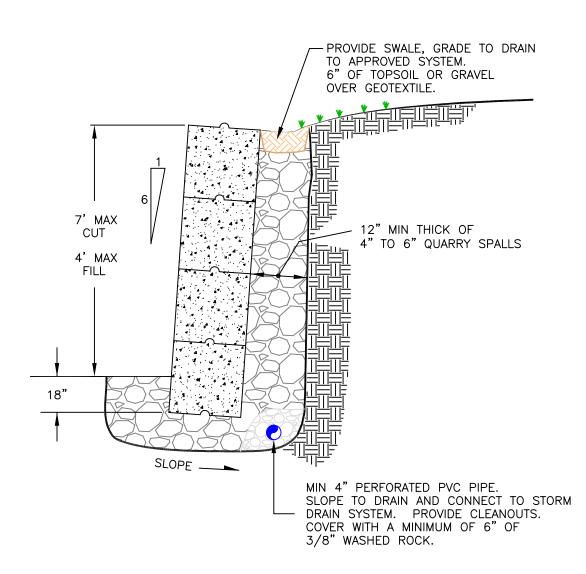
- 1. ROCKERY MUST BE INSTALLED BY LICENSED CONTRACTOR.
- 2. IF ROCKERY HEIGHT EXCEEDS 4' IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL / CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON. MEASUREMENT ÍNCLUDES EMBEDMENT.
- 3. FILTER FABRIC SHALL BE MIRAFI 140 N SERIES OR APPROVED EQUAL.
- 4. APPROVED 6" PERFORATED PVC DRAINLINE TIE TO PUBLIC STORM SYSTEM MUST BE INSPECTED BY PUBLIC WORKS.
- 5. 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.

# SUPPORT STANDARD DETAIL **ROCKERY WITH** SIDEWALK



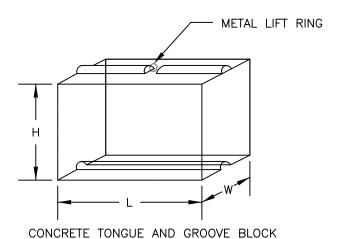
SNS					
REVISIONS					
DATE DRAWN 10/23/2020	СНЕСКЕD	DATE APPROVED	ATIONS		
SHOWN	DRAWN CAW	3.4	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN	DESIGNED	APPROVED BY	STAN		
		TAIL N			

PAGE 2 OF 2



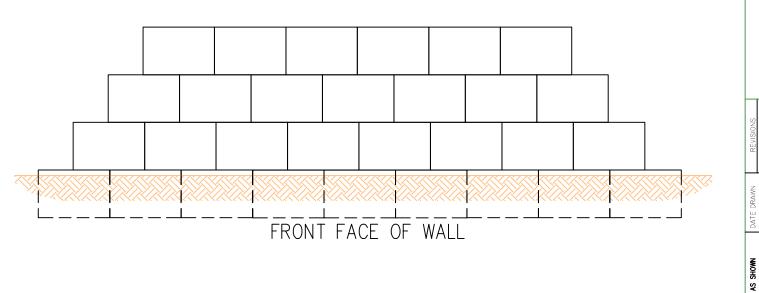
## NOTE:

1. MAX DEPTH OF CUT SHALL BE 8 FEET, AND MAX DEPTH OF FILL SHALL BE 4' OR AS APPROVED BY GEOTECHNICAL ENGINEER. IN ANY CASE, THE CITY MAY REQUIRE INSPECTION AND APPROVAL BY A GEOTECHNICAL ENGINEER.



# <u>SIZES</u>

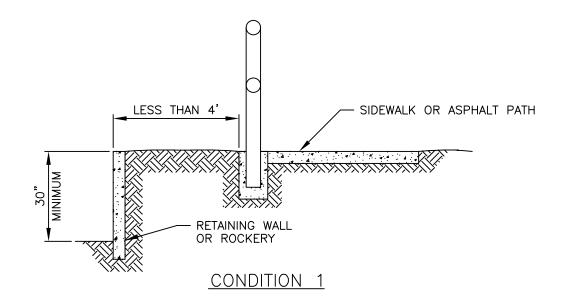
Н	L	W
2'-0"	3'-0"	2'-0"
2'-0"	6'-0"	2'-0"

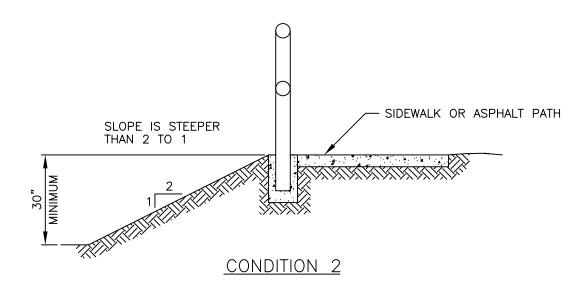


# STANDARD DETAIL ECOLOGY BLOCK WALL



R-420
PAGE
1 OF 1





# <u>NOTES</u>

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

# **CONDITIONS REQUIRING** STANDARD DETAIL SAFETY RAILINGS





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REVISIONS					
10/20/2020	CHECKED	DATE APPROVED	ATIONS		
SHOWN	DRAWN CAW	3,4	STANDARD SPECIFICATIONS		
SCALE: AS SHOWN	DESIGNED	APPROVED BY	STAN		
		TAIL N	10. <b>)</b>		

PAGE 1 OF 3

# 4" CENTERS RADIUS BEND SECTION NOTE ,4 9R 'n TOP OF SIDEWALK 6' MAX. SLEEVE NON-SHRINK SEE NOTE 9 GROUT

# PIPE SCHEDULE

(ALL DIMENSIONS O.D.)

PANEL HEIGHT	TOP RAIL/POST	BOTTOM RAIL	BALUSTER
3'	1.90"	1.90"	.840"
Δ'	2 875"	2 375"	840"

# **NOTES**

- 1. RAILING SHALL BE ALUMINUM PIPE RAIL OR APPROVED EQUIVALENT. INSTALLATION PER MANUFACTURER'S
- 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
- 3. ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR ANODIC COATING AT LEAST 0.0006 INCH THICK AND BE HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
- 4. PIPE RAILING AND PIPE RAILING SPLICES MAY BE HEATED TO NOT MORE THAN 400'F FOR A PERIOD NOT 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 THAN
- 10. PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES
  4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

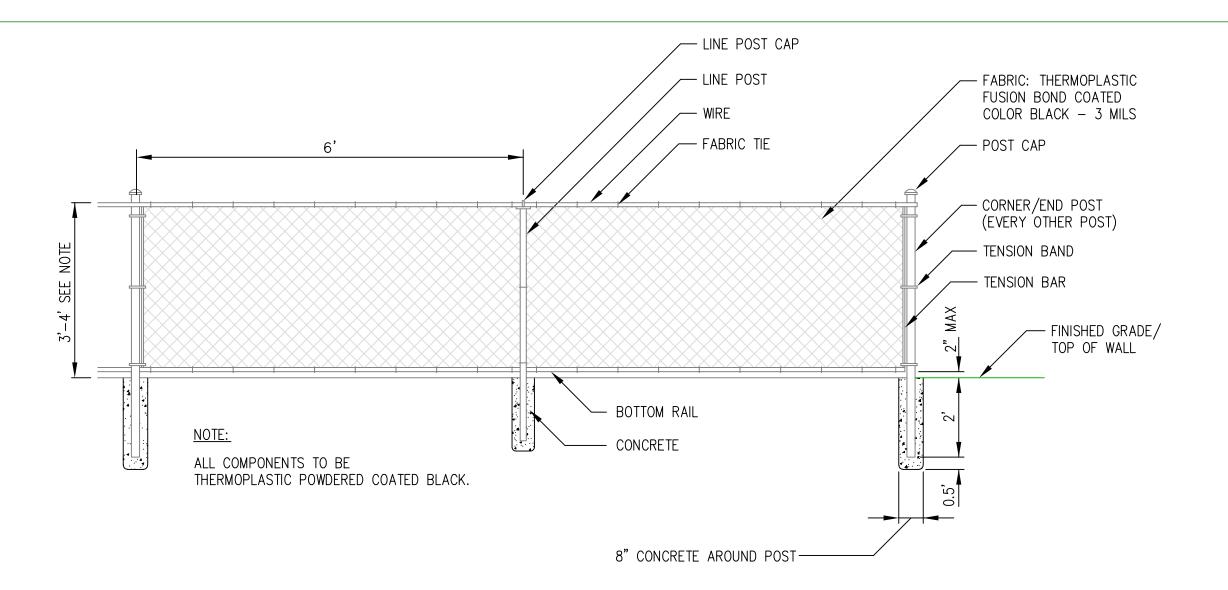
# STANDARD DETAIL SAFETY RAILING SIDEWALK



NS	INITIAL							
REVISIONS	DATE							
DATE DRAWN	10/20/2020	CHECKED		DATE APPROVED		CATIONS		
₹		SAWN	CAW			O SPECIFICATIONS		

R-451

PAGE



# PIPE SCHEDULE

(ALL DIMENSIONS I.D.)

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

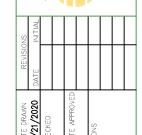
# NOTES

- 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
- 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, LUMINAIRES AND TRAFFIC SIGNALS.
- 7. PANEL HEIGHT: 3 FEET FOR PEDESTRIAN USES 4 FEET FOR COMBINED BICYCLE AND PEDESTRIAN USES

# **CHAIN LNK SIDEWALK** STANDARD DETAIL

SAFETY RAIL

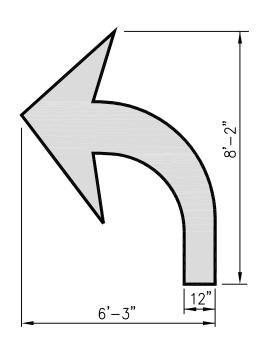




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R-452

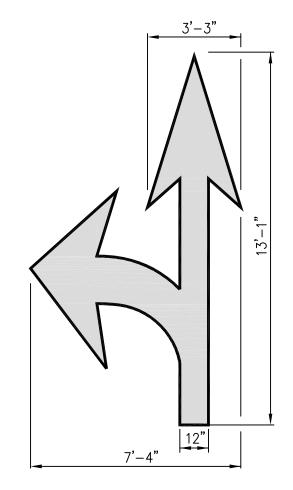
PAGE 3 OF 3



STANDARD F.H.W.A.

8'-2" TURN ARROW

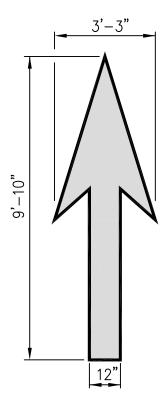
N.T.S.



STANDARD F.H.W.A.

13'-1" COMBINATION ARROW

N.T.S.



STANDARD F.H.W.A.

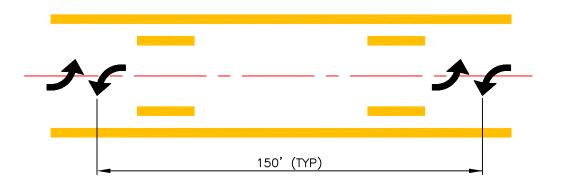
9'-10" STRAIGHT ARROW

N.T.S.

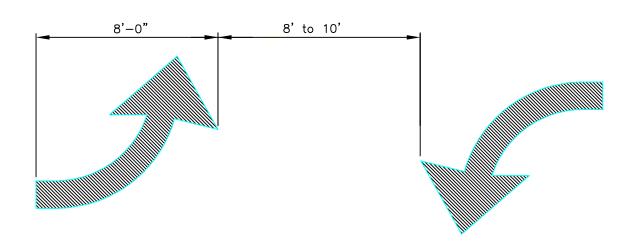
# STANDARD DETAIL PAVEMENT MARKINGS ARROW



DETAIL NO.
R-500
PAGE
1 OF 1



# TWO-WAY LEFT TURN MARKERS



TYPICAL ARROW

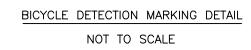
# <u>NOTES</u>

1. THERMOPLASTIC REQUIRED

# STANDARD DETAIL TWO-WAY LEFT TURN AND TYPICAL ARROW



PAGE **1 OF 1** 



24"

# NOTES

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

# 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 HAS 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, MARKINGS 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 BE DETECTED REGULARLY AND RELIABLY BY STOPPING AT THE STOP BAR IN THE MIDDLE OF THE LANE.
- 10. MATERIAL SHALL BE PAINT OR OTHER APPROVED 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.

# STANDARD DETAIL BICYCLE LANE MARKINGS





M DATE DRAWN	_		DATE APPROVED		D SPECIFICATIONS			
	020 DATE		ROVED					
SNOI	INITIA							
		REVISIC	SHOWN   DATE DRAWN   REVISIC	DATE DRAWN REVISION 10/05/2020 DATE WN CHECKED AMP CHECKED DATE APPROVED	SHOWN DATE DRAWN REVISIC 10/05/2020 DATE 10/05/2020 DATE CHECKED CHECKED  SAW  CHECKED  CHECKED  DATE APPROVED	SHOWN DATE DRAWN REVISIC 10/05/2020 DATE 10/05/2020 DATE DRAWN CHECKED ATE CAW CHECKED ATE BY DATE APPROVED ATE NDARD SPECIFICATIONS	SHOWN DATE DRAWN REVISIC  10/05/2020 DATE  10/05/2020  DRAWN CHECKED  CAW  BY  DATE APPROVED  DATE  DA	SHOWN DATE DRAWN REVISIC  10/05/2020 DATE  10/05/2020  DATE  CAW  BY  DATE APPROVED  DATE  NDARD SPECIFICATIONS

DETAIL NO.
R-550

PAGE **1 OF 1** 

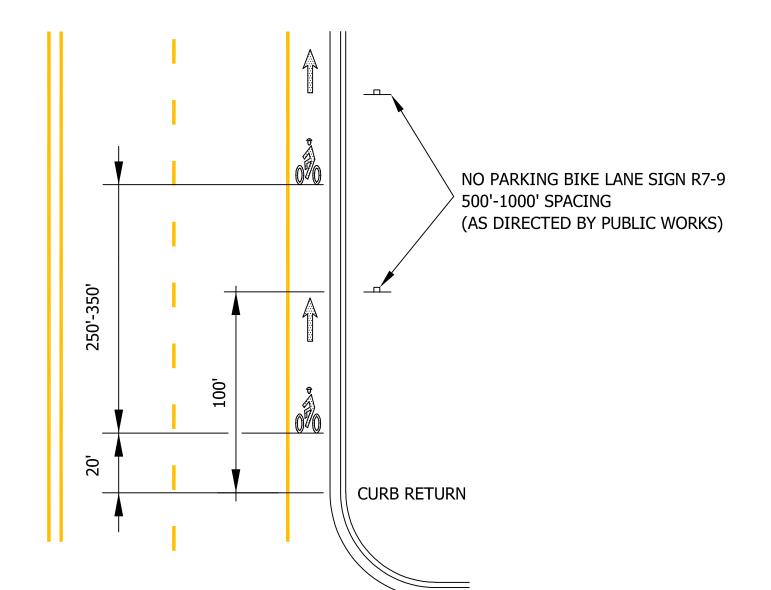






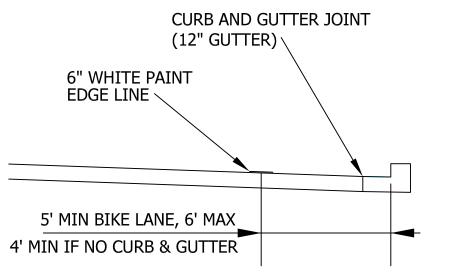
1 OF 1



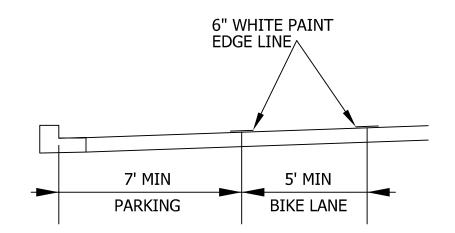


# NOTES:

- 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 CWX-XXXX



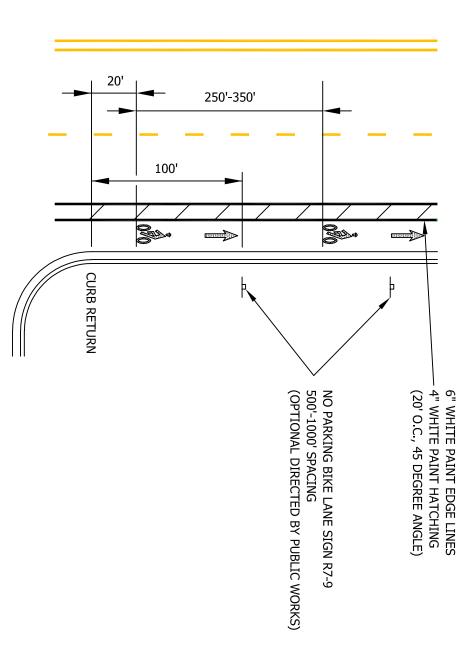
(MEASURED TO FACE OF CURB OR CENTER OF PAINT STRIPE) BICYCLE LANE WITHOUT PARKING

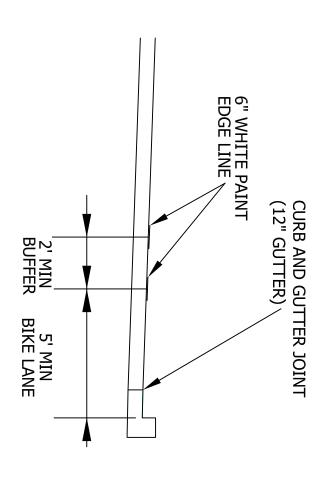


(MEASURED TO FACE OF CURB OR CENTER OF PAINT STRIPE) BICYCLE LANE WITH PARKING

# NOTES:

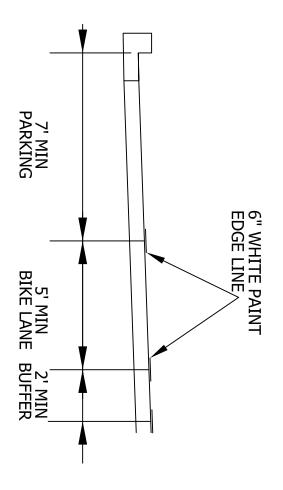
- SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.
- PER SEC. 9B.04 2009 MUTCD, DO NOT USE R3-17 SIGNS.
- BICYCLIST AND PEDESTRIAN SYMBOLS PER CW-R.34B





**BUFFERED BICYCLE LANE WITHOUT PAR** 

(MEASURED TO FACE OF CURB OR CENTER OF PAINT STRIPE)



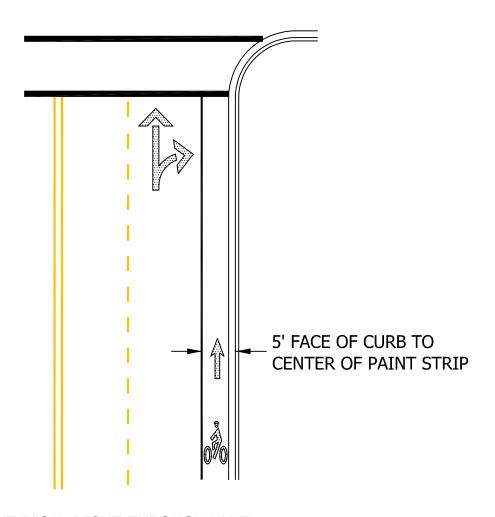
# **BICYCLE LANE WITH PARKING**

(MEASURED TO FACE OF CURB OR CENTER OF PAINT STRIPE)

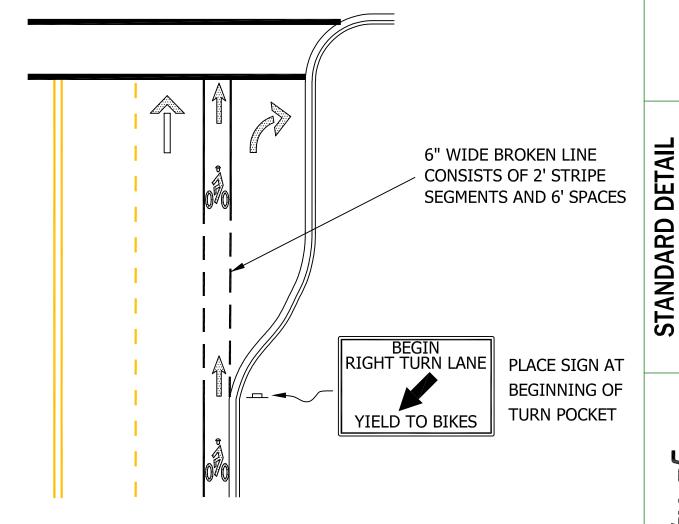
DATE DRAWN 10/05/2020 SCALE: AS SHOWN PAGE **1 0F 1** R-552 DATE APPROVE

City of Wenatche	2
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STANDARD DETAIL **TYPICAL BUFFERED BICYCLE LANE** 



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

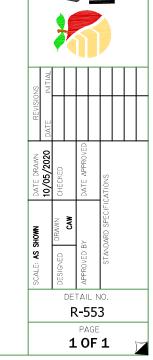


TYPICAL RIGHT TURN POCKET

(BICYCLE LANE CONTINUES THROUGH INTERSECTION)

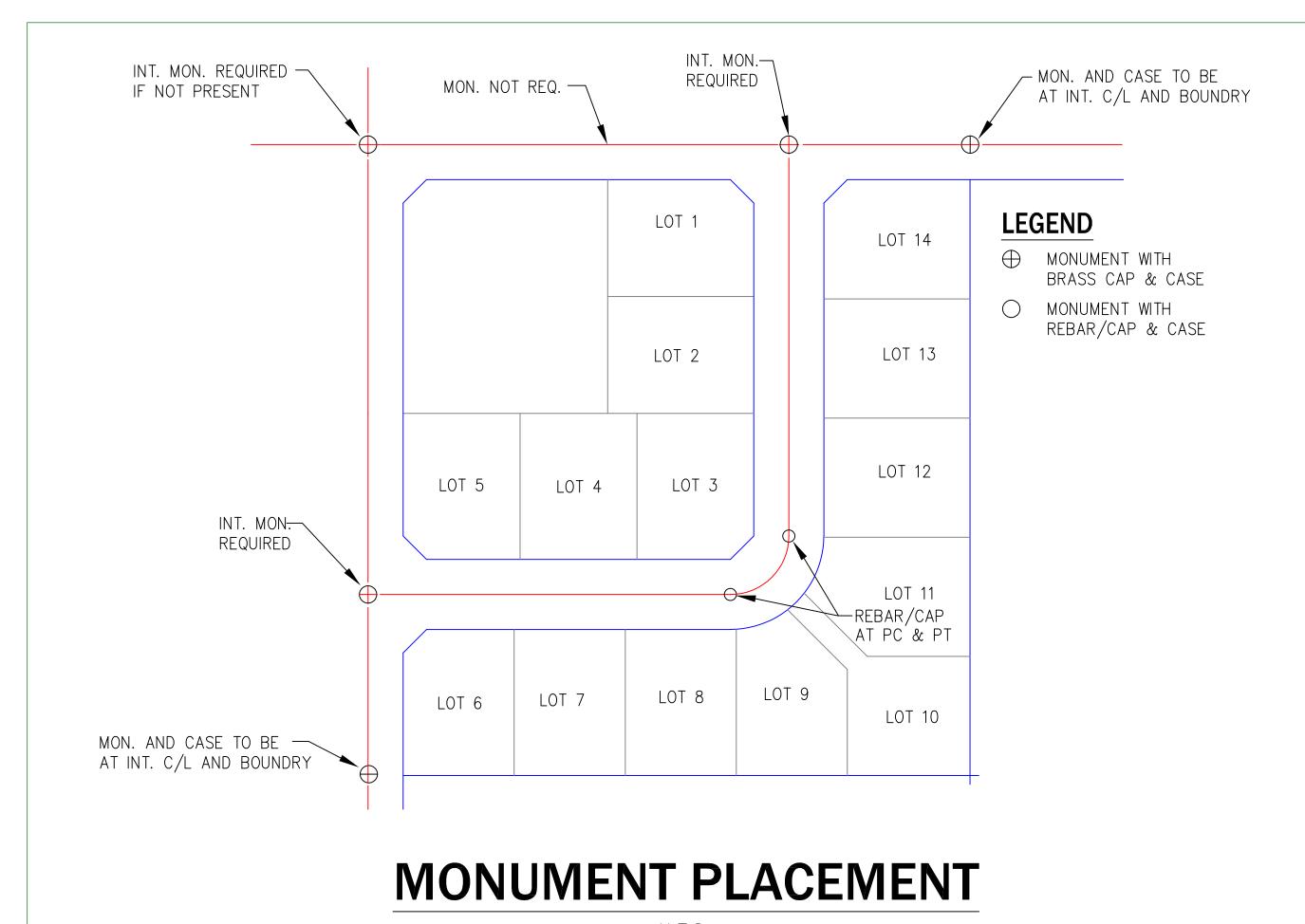
# NOTE:

SEE MUTCD FOR MORE INFORMATION AND SPECIFICATIONS.



TYPICAL BICYCLE LANE

AT INTERSECTION



# STANDARD DETAIL MONUMENT

# **PLACEMENT**





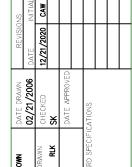
DETAIL NO. R-700

1 OF 1

N.T.S.

# STANDARD DETAIL MONUMENT CASE

# City of Wenatchee

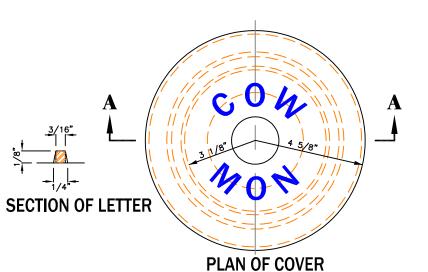


DESIGNED GAPPROVED BY

AS

R-710

PAGE **1 OF 1** 



# NOTES:

- 1) WHEN PLACING MONUMENTS IN
  PAVED SURFACES, HEIGHT OF CASE
  OR COVER SHALL BE NO LESS THAN
  ZERO AND NO MORE THAN 1/8"
  BELOW FINISHED GRADE.
- 2) MEETS CITY OF WENATCHEE AND WASHINGTON STANDARD SPECIFICATIONS FOR MONUMENT CASE AND COVER. SUITABLE FOR HEAVY TRAFFIC LOADING. UNIT WEIGHT 39 lbs.
- 3) MONUMENTS SHALL BE PROTECTED FROM DAMAGE ACCORDING TO R.C.W. 58.24.040, AND R.C.W. 58.09.130. IF MONUMMENTS ARE TO BE DISTURBED, THEN W.A.C. 332-120 APPLIES.

**NOTES CONTINUED:** 

BEARING SURFACE.

TOTAL 79 LBS

6) APPROXIMATE WEIGHTS, STANDARD.

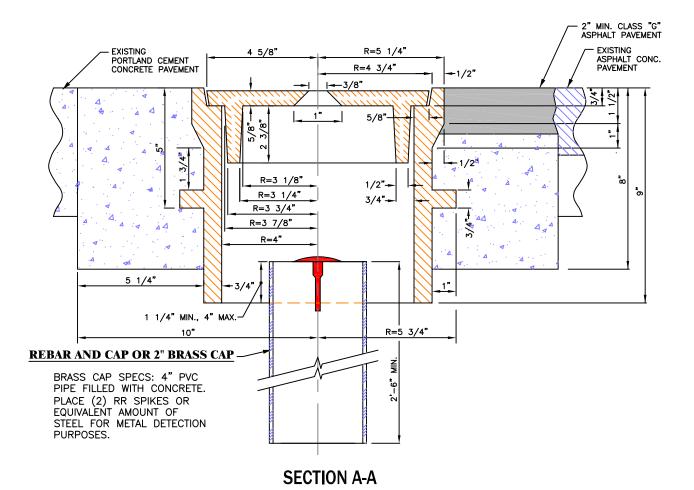
CASE 60 LBS

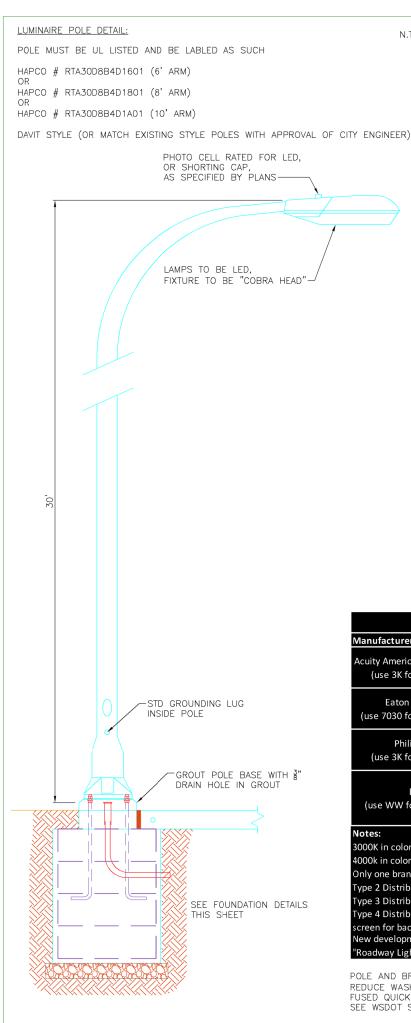
COVER 19 LBS

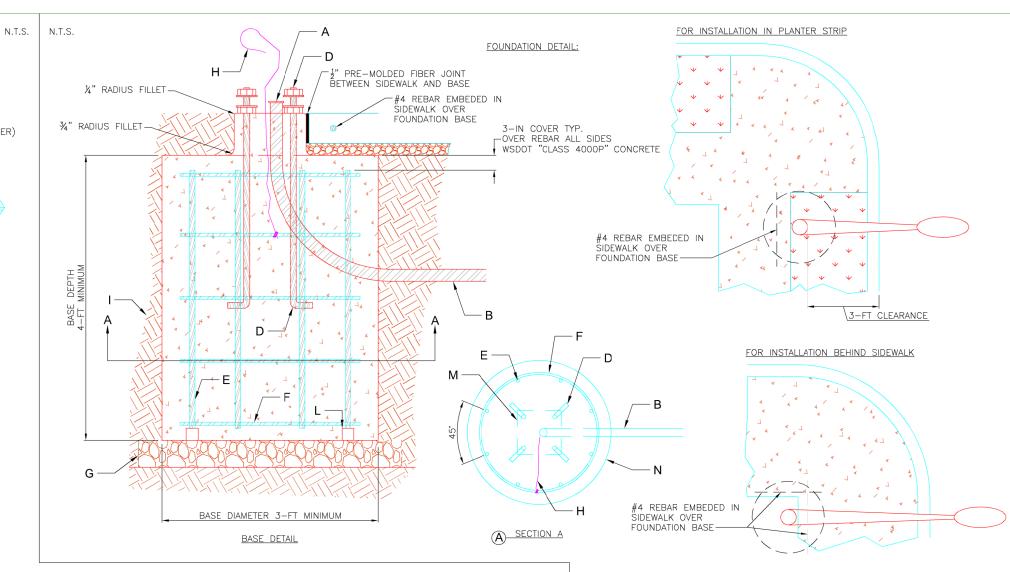
7) CONCRETE SHALL BE CLASS 3000.

4) CASTINGS SHALL BE GRAY IRON ASTM A48, AASHTO M 105, CLASS 30.

COVER AND SEAT SHALL BE MACHINED FOR PERFECT CONTACT AROUND CIRCUMFERENCE AND FULL WIDTH OF







LED Streetlight Luminaire Ordering Information								
Manufacturer	Product/Series	Distribution Type	Ordering Information					
Acuity American Electric Lighting	Autobahn ATB0	II	ATBO-10BLEDE15-MVOLT-R2- <u><b>3K</b></u> -BL-P7-AO-SH					
(use 3K for 3K, 4K for 4K)		=	ATBO-20BLEDE15-MVOLT-R3- <u><b>3K</b></u> -BL-P7-AO-SH					
(use 3K for 3K, 4K for 4K)		IV	ATBO-10BLEDE15-MVOLT-R4- <u><b>3K</b></u> -BL-P7-AO-SH					
Eaton Streetworks	Navion	II	NVN-AF-01-D-V-T2-10K- <b>7030</b> -1200-4N7-IP66-AP-K-QA/RA1013					
(use 7030 for 3K, 7040 for 4K)		II	NVN-AF-02-D-V-T3-10K- <u><b>7030</b></u> -1A-4N7-IP66-AP-K-QA/RA1013					
(use 7030 for 3k, 7040 for 4k)		IV	NVN-AF-01-D-V-T4-10K- <u><b>7030</b></u> -1200-4N7-IP66-AP-K-QA/RA1013					
Philips Lumec	Roadfocus Medium	II	RFM-55W32LED <u>3K</u> -G2-R2M-UNV-DMG-FAWS-RCD7-PH9-GY3					
		III	RFM-108W48LED <b>3K</b> -G2-R3M-UNV-DMG-FAWS-RCD7-PH9-GY3					
(use 3K for 3K, 4K for 4K)		IV	RFM-55W32LED <u>3K</u> -G2-4-UNV-DMG-FAWS-RCD7-PH9-GY3					
	Green Cobra Jr.	II (Collector)	GCJ2-20H-MV- <u>WW</u> -2R-GY-900-FFA-PCR7-WL-RWG-SC					
Leotek	Green Cobra Jr.	II (Local Roads)	GCJ0-15H-MV- <u>WW</u> -2R-GY-700-FFA-PCR7-WL-RWG-SC					
(use WW for 3K, NW for 4K)	Green Cobra M.	III	GCM2-30H-MV- <u>WW</u> -3R-GY-1A-FFA-PCR7-WL-RWG-SC					
	Green Cobra Jr.	IV	GCJ0-15H-MV- <u>WW</u> -4-GY-700-FFA-PCR7-WL-RWG-SC					

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

New developments shall meet minimum illuminance values as set by AASHTO design standards in the

Roadway Lighting Design Guide", 2005

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 DISCÓNNECTS AT TOP OF BASE ACCESSED VIA HANDHOLE IN POLE. SEE WSDOT STANDARD PLAN J-28.70 FOR STEEL LIGHT STANDARD WIRING DETAILS

# 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" 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 DIÁM 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 -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

# POLE DETAIL 8 LUMINAIR LIGHT, STANDARD S BA





CIAMIN	CHECKED	5/11/2015   RDH	RDH
JBV	DMN	11/2/2017	JBV
<b>×</b>	DATE APPROVED 1/28/2018		JBV
		4/24/2018	JBV
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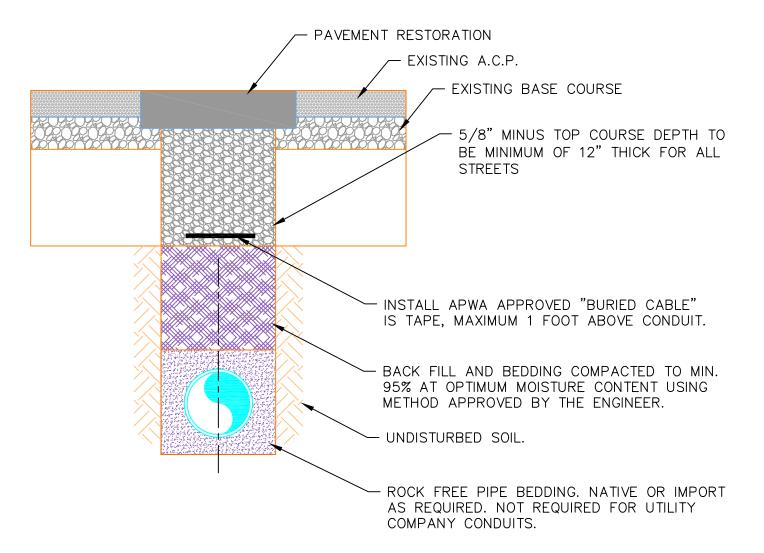
DETAIL NO R-800

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AS



- 1. TRENCH DEPTH SHALL PROVIDE A MINIMUM COVER OF 24" OVER TOP OF CONDUIT.

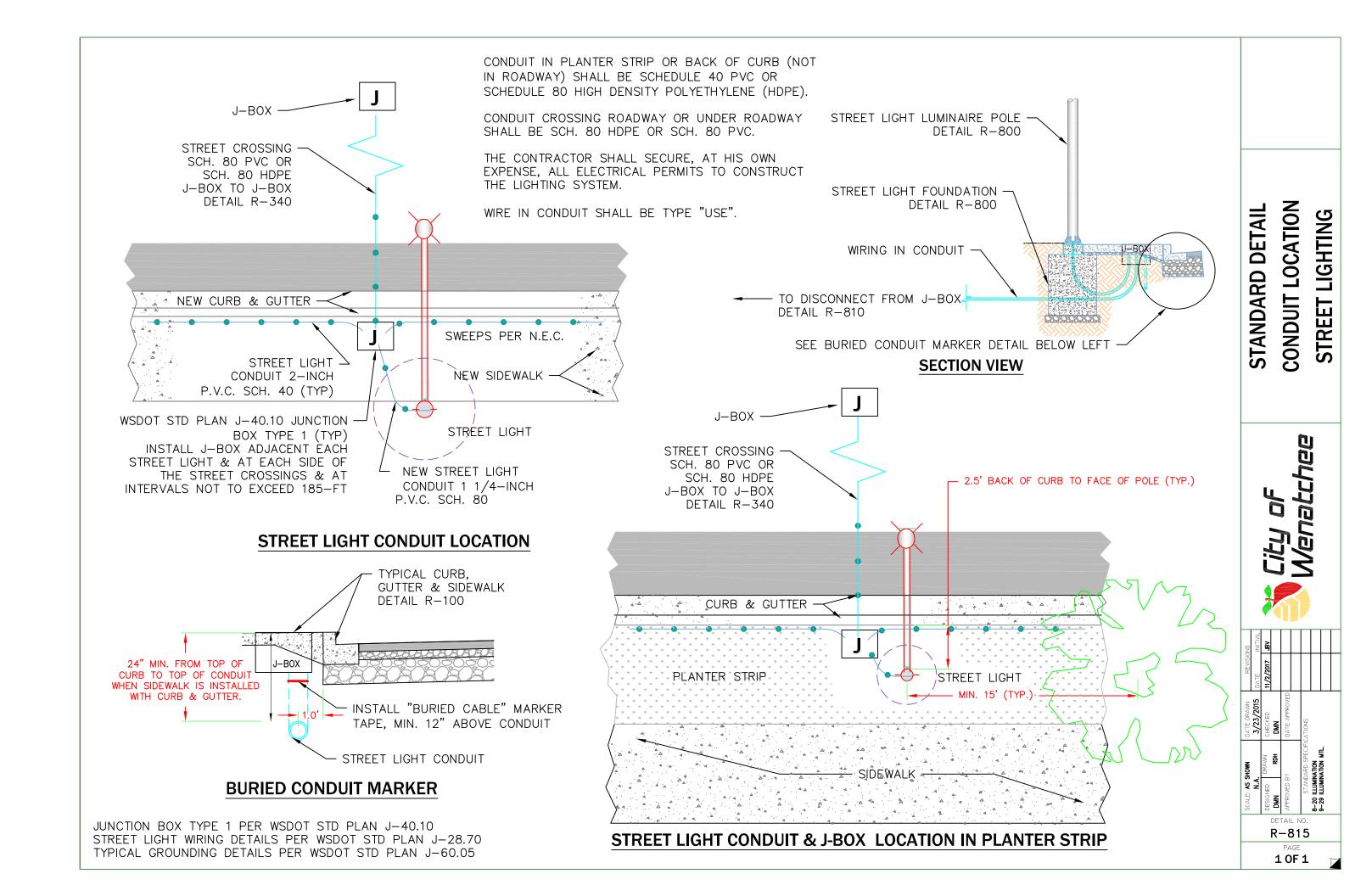
  1.) G.T.E. AND P.U.D. TO BE MIN. 30" AT NON CURBED STREET CROSSINGS OR AS REQUIRED BY THE PERMIT
- 2. MINIMUM ONE-WAY TRAFFIC TO BE MAINTAINED ACCORDING TO APPROVED TRAFFIC CONTROL PLAN.
- 3. ALL ROADWAY APPURTENANCES TO BE PROTECTED AND ROAD SIGNS LEFT AS FOUND.
- 4. PAVEMENT REPAIR TO BE MADE WITHIN 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.

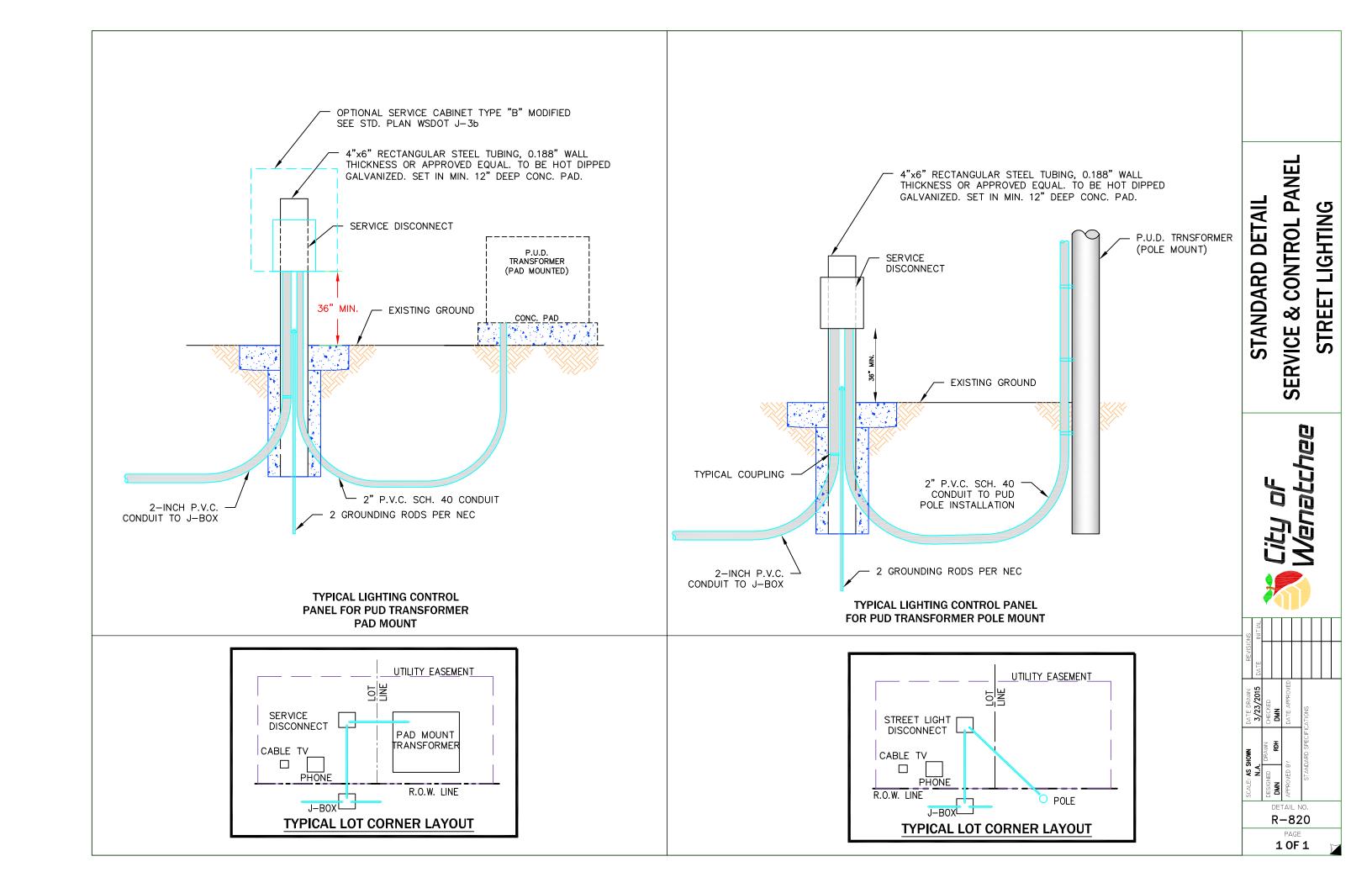
STREET CUT AND PATCH DETAIL FOR TYPICAL TRAFFIC SIGNAL, STREET LIGHTING AND UTILITY COMPANY CONDUITS

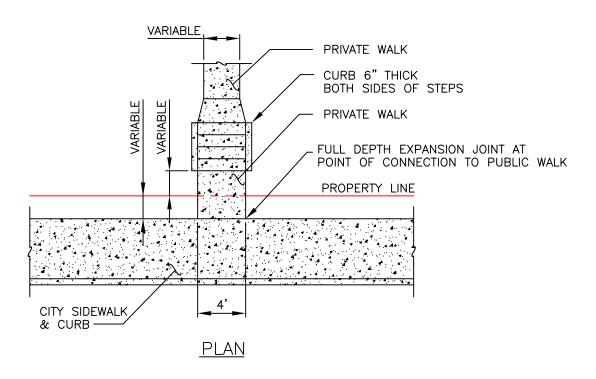
# STANDARD DETAIL STREET LIGHT CONDUIT CROSSING

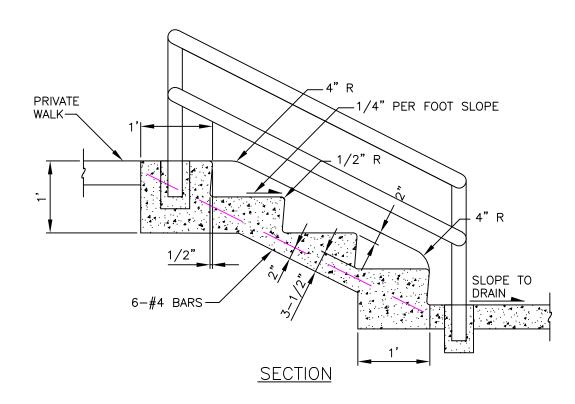


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# <u>NOTES</u>

- 1. STEPS SHALL BE 4'-0" WIDE, CURB TO CURB, PLUS 6" 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" MINIMUM, 7" MAXIMUM: TREAD SHALL BE 11" MINIMUM, 12" MAXIMUM.
- 5. HANDRAIL REQUIRED ON BOTH SIDES PER BUILDING CODE STANDARDS.
- 6. HANDRAIL MAY NOT ENCROACH INTO PUBLIC SIDEWALK.

# STANDARD DETAIL CEMENT CONCRETE

**STEPS** 





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SHOWN		DRAWN		3.4		STANDARD SPECIFICATIONS			
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