

# **NOTES**

1. MAXIMUM GRADE MAY BE EXCEEDED SUBJECT TO APPROVAL BY THE CITY ENGINEER, SUCH APPROVAL MAY BE CONDITIONAL UPON THE FOLLOWING:
  - A) NO PRACTICAL ALTERNATIVE EXISTS.
  - B) ANY GRADE OVER 15% WILL BE REVIEW BY THE CITY ON A CASE BY CASE BASIS.
2. CAN ONLY BE USED ON SHORT PLATS AND CANNOT BE PART OF A LARGER DEVELOPMENT. MUST BE A PERMANENT DEAD END.
3. MAXIMUM POTENTIAL NUMBER OF DWELLING UNITS SERVED, WILL INCLUDE FORECASTED FUTURE DEVELOPMENT OF ADJACENT AREAS.
4. 36' WIDE STREET SECTION REQUIRED IF LESS THAN FOUR(4) OFF-STREET PARKING SPACES PROVIDED PER DWELLING UNIT. ONE (1) DRIVEWAY ALLOWED PER LOT ON "ACCESS" STREETS.
5. CITY ENGINEER MAY ALLOW SIDEWALK ON ONE SIDE ONLY IN AREAS OF EXTENSIVE CUTS AND/OR FILLS AND IF PROJECTED PEDESTRIAN VOLUMES ARE LESS THAN NORMAL.

DETACHED SINGLE FAMILY, DUPLEX TRI-PLEX, AND FOUR-PLEX RESIDENTIAL						
CLASSIFICATION OF PUBLIC STREET	② SHORT SUBDIVISION ACCESS	LOCAL ACCESS "A"	LOCAL ACCESS "B"	COLLECTOR ARTERIAL	MINOR ARTERIAL	PRINCIPAL ARTERIAL
③ MAXIMUM NUMBER OF DWELLING UNITS SERVICED	9	40	100	OVER 100	N.A	N.A
MINIMUM R.O.W	50'	60'	60'	60'	60'	80'
MINIMUM PAVEMENT WIDTH CURB TO CURB	④ 24'	④ 28'	④ 32'	36'	44'	48'
⑤ SIDEWALKS	1 to 4 D.U.-OPTIONAL 5 to 9 D.U.-REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
GEOMETRICS & STRUCTURAL SECTION	STD. PLANS # 302A & 302B	STD. PLAN # 302	STD. PLAN # 302	STD. PLAN # 301	STD. PLAN # 301	STD. PLAN # 301
① MAX. ALLOWABLE	15%	15%	15%	12%	9%	8%
UTILITY EASEMENT BEYOND R.O.W REQ'D	10' EACH SIDE OF PUBLIC R.O.W.			AS REQUIRED BY CITY ENGINEER		

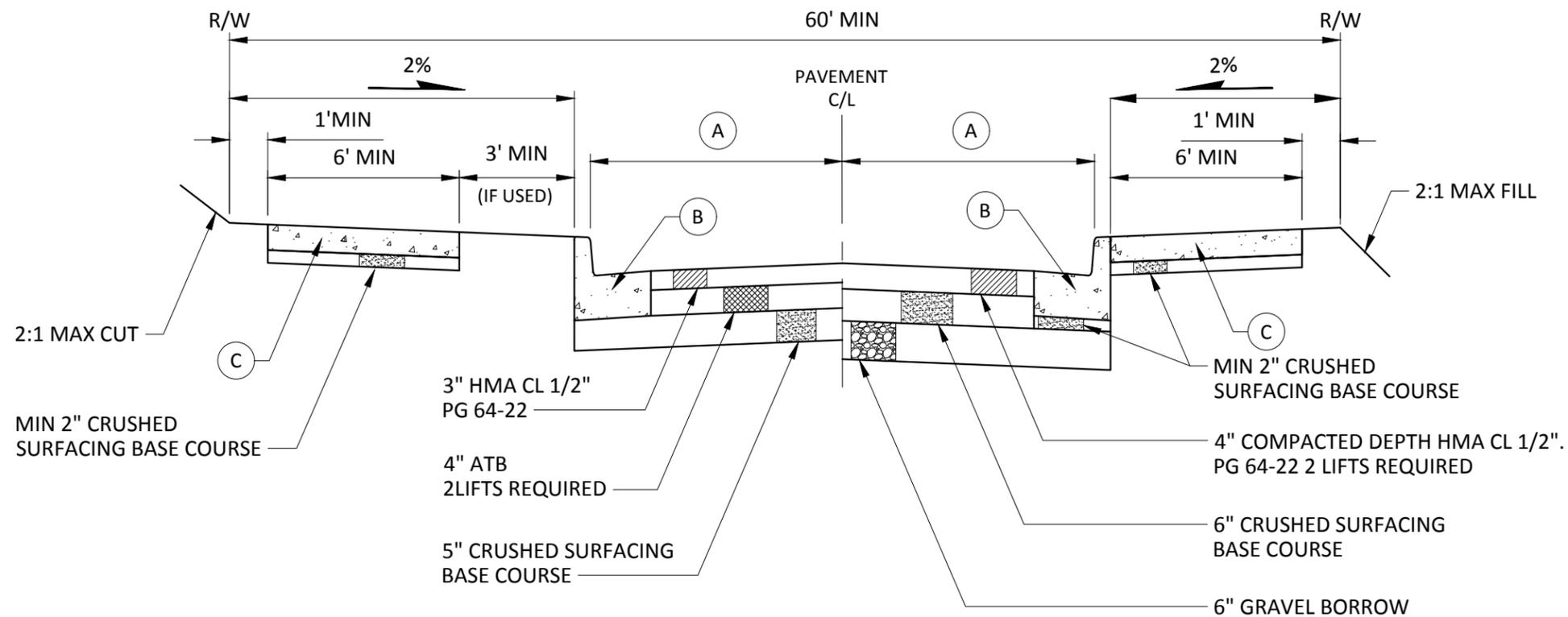
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**DRAFT**

 <b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>				
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
<b>ROADWAY FUNCTIONAL CLASSIFICATIONS</b>				STANDARD DRAWING No. <b>300</b>

## NOTES

1. ALL MATERIAL DEPTHS ARE COMPACTED DEPTHS.
2. IN WIDENING AREAS, THE EXISTING PAVEMENT EDGE SHALL BE SAW-CUT TO LEAVE A JOIN POINT. ANY TRAFFIC STRIPING REMOVED OR DAMAGED DURING WIDENING WORK SHALL BE REPLACED IN KIND OR AS DIRECTED BY THE CITY ENGINEER.
3. COMPACTION TESTS ON SUBGRADE AND TOP OF ROCK WILL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY INSPECTOR. ALL TESTING SHALL BE THROUGH A LICENSED TESTING LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ON BOTH SUBGRADE AND TOP OF ROCK.
4. ADJUSTMENT OF CATCH BASIN LIDS OR GRATES, MONUMENTS CASES, VALVE BOXES, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER.
5. ROADWAY SECTION MAY BE PROPOSED WITH SUBMISSION OF SUBSTANTIATING ENGINEERING DATA (CBR, ETC) TO SUPPORT THE ADJUSTMENT. THE PROPOSAL MUST BE APPROVED BY THE CITY ENGINEER. FOR DESIGN PURPOSES, THE MINIMUM THICKNESS OF HMA CL 1/2", PG 64-22 SHALL BE 3" COMPACTED DEPTH. COMPACTION SHALL BE AN AVERAGE OF 91% OF RICE DENSITY.



### ALTERNATE ROADWAY SECTION

- (A) **PAVEMENT WIDTH**  
 COLLECTOR ARTERIAL = 18'  
 MINOR ARTERIAL = 22'  
 PRINCIPAL ARTERIAL = 24'+

### STANDARD ROADWAY SECTION

- (B) **CONCRETE CURB AND GUTTER**  
 TYPE A-1 SEE STD DWG 305A
- (C) **CEMENT CONCRETE SIDEWALK**  
 SEE STD DWG 306

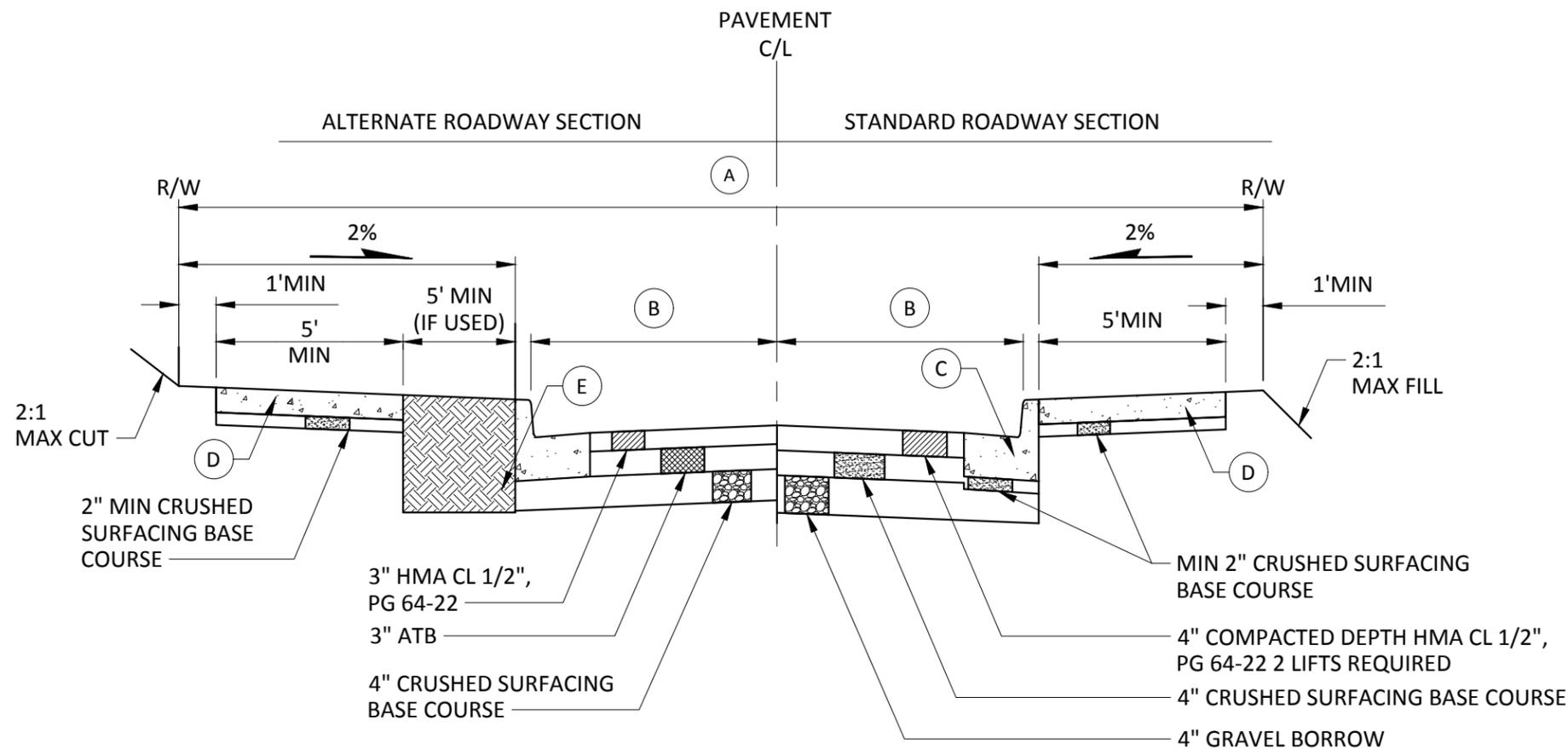
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**DRAFT**

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE <b>ARTERIAL TYPICAL ROADWAY SECTION</b>			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>301</b>

## NOTES

1. ALL MATERIAL DEPTHS ARE COMPACTED DEPTHS.
2. IN WIDENING AREAS, THE EXISTING PAVEMENT EDGE SHALL BE SAW-CUT TO LEAVE A JOIN POINT. ANY TRAFFIC STRIPING REMOVED OR DAMAGED DURING WIDENING WORK SHALL BE REPLACED IN KIND OR AS DIRECTED BY THE CITY ENGINEER.
3. COMPACTION TESTS ON SUBGRADE AND TOP OF ROCK WILL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY INSPECTOR. ALL TESTING SHALL BE THROUGH A LICENSED TESTING LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY ON BOTH SUBGRADE AND TOP OF ROCK.
4. ADJUSTMENT OF CATCH BASIN LIDS OR GRATES, MONUMENTS CASES, VALVE BOXES, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER.
5. ROADWAY SECTION MAY BE PROPOSED WITH SUBMISSION OF SUBSTANTIATING ENGINEERING DATA (CBR, ETC) TO SUPPORT THE ADJUSTMENT. THE PROPOSAL MUST BE APPROVED BY THE CITY ENGINEER. FOR DESIGN PURPOSES, THE MINIMUM THICKNESS OF HMA CL 1/2", PG 64-22 SHALL BE 3" COMPACTED DEPTH. COMPACTION SHALL BE AN AVERAGE OF 91% OF RICE DENSITY.
6. ALL LOW IMPACT AREAS SHALL HAVE 'BIORETENTION SOIL' PER CURRENT EDITION OF "LOW IMPACT DEVELOPMENT TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND"



## DESIGN CRITERIA

- |  |   |
|--|---|
| <p><b>(A)</b> RIGHT-OF-WAY REQUIREMENTS<br/> SHORT PLAT ACCESS STREET = 50'<br/> LOCAL ACCESS A = 60'<br/> LOCAL ACCESS B = 60'</p> <p><b>(B)</b> PAVEMENT WIDTH<br/> SHORT PLAT ACCESS STREET = 12'<br/> LOCAL ACCESS A = 14'<br/> LOCAL ACCESS B = 16'</p> <p><b>(C)</b> CONCRETE CURB AND GUTTER TYPE A-1<br/> SEE STD DWG 305A</p> | <p><b>(D)</b> CEMENT CONCRETE SIDEWALK SEE STD DWG 306</p> <p><b>(E)</b> AMENDED SOIL: 60% BACKFILL PER SAND DRAINS (WSDOT STD 9-03.13). 40% COMPOST.</p> <ul style="list-style-type: none"> <li>• pH RANGE 5.5 - 7.0</li> <li>• &lt;5% PASSING #200 SIEVE</li> <li>• 8-12% ORGANIC MATTER</li> <li>• 2 INCH/HR MIN LONG TERM HYDRAULIC CONDUCTIVITY PER ASTM D 2434 AT 85% COMPACTION</li> <li>• COMPOST SHALL BE FROM A DEPARTMENT OF ECOLOGY PERMITTED COMPOSTING FACILITY.</li> </ul> |
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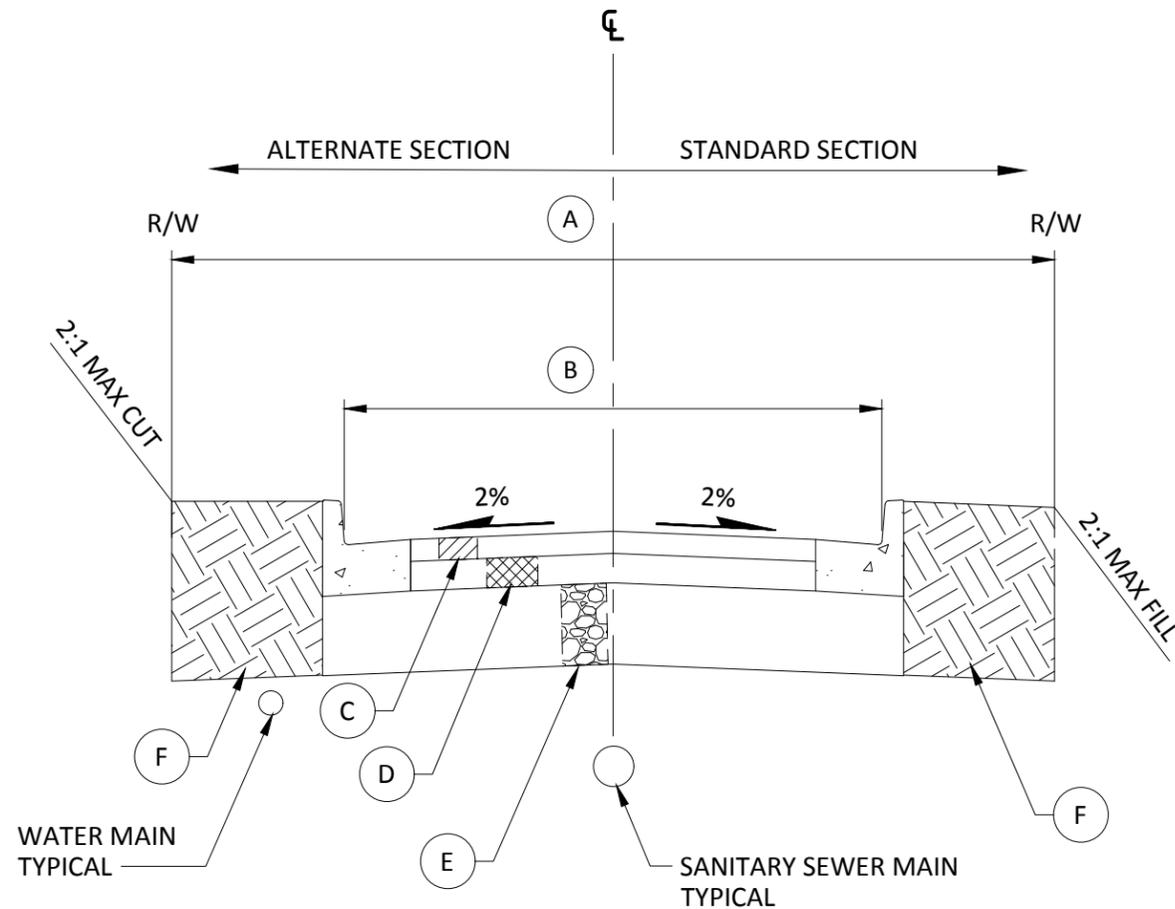
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**DRAFT**

 <b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		City Engineer	Section Manager	CAD Manager	Drawn By	Current Rev Date
		RYAN SASS	TOM HOOD	PAUL WILHELM	WRB	12/30/2016
TITLE						STANDARD DRAWING No.

TYPICAL ROADWAY SECTION  
NON-ARTERIAL STREETS

302



- (A) EASEMENT ACCESS WIDTH = 30' TO 40'
- (B) PAVEMENT WIDTH SHALL BE 20' AND BE SYMMETRICAL ABOUT A POINT 10' FROM FACE OF CURB.
- (C) 3" COMPACTED DEPTH HMA CL 1/2" PG 64-22.
- (D) 4" COMPACTED DEPTH CRUSHED SURFACING BASE COURSE. 2" MIN DEPTH UNDER CURB AND CUTTER.
- (E) 5" MIN. COMPACTED DEPTH GRAVEL BORROW.
- (F) AMENDED SOIL: 60% BACKFILL PER SAND DRAINS (WSDOT STD 9-03.13). 40% COMPOST.
  - pH RANGE 5.5 - 7.0
  - <5% PASSING #200 SIEVE
  - 8-12% ORGANIC MATTER
  - 2 INCH/HR MIN LONG TERM HYDRAULIC CONDUCTIVITY PER ASTM D 2434 AT 85% COMPACTION
  - COMPOST SHALL BE FROM A DEPARTMENT OF ECOLOGY PERMITTED COMPOSTING FACILITY.

## NOTES

1. FOR ANY EASEMENT ACCESS OR EASEMENT WITH PUBLIC UTILITIES, THE CITY ENGINEER SHALL DETERMINE THE REQUIRED EASEMENT WIDTH BASED ON CITY STANDARDS.
2. WITH THE EXCEPTION OF THE EASEMENT ACCESS DRIVE, NO NEW DRIVEWAYS OR PARKING AREAS WILL BE PERMITTED WITHIN THE FRONT YARD SETBACK AREA FOR ALL LOTS THAT FRONT ON THE PUBLIC STREET.
3. ACCESS OFF AN EASEMENT DRIVE IS LIMITED TO ONE TWENTY FOOT DRIVEWAY AND CURB CUT PER LOT. THE DRIVEWAY SHALL NOT EXCEED TWENTY FEET IN WIDTH FOR A DISTANCE OF TWENTY FEET FROM THE EASEMENT ACCESS DRIVE CURB. THE MINIMUM PARKING STALL WIDTH FOR 2 CARS IN FRONT OF THE GARAGE IS 20 FEET BY 20 FEET - TWO (2) STALLS. THE MINIMUM PARKING PAD FOR 4 OFF-STREET IS 20 FEET BY 40 FEET.
4. SURFACE PARKING: EMC18.28.120 SURFACE PARKING IS ONLY PERMITTED ON A LOT WITH AN EXISTING HOUSE. THIS PARKING AREA MAY NOT BE BETWEEN THE EXISTING HOUSE AND THE PUBLIC STREET. THE PARKING PAD MUST BE A MINIMUM OF 20 FEET BY 40 FEET AND BE A MINIMUM OF 5 FEET FROM ANY NEW PROPERTY LINE AND MAY NOT BE WITHIN THE REQUIRED OPEN SPACE.
5. GARAGES: EMC 18.28.150 ON ALL NEW LOTS WHERE PROPOSED SINGLE FAMILY DWELLINGS ARE PROPOSED A TWO (2) CAR GARAGE IS REQUIRED.
6. EMC 18.28.120 ALL DEVELOPMENT STANDARDS FOR EASEMENT ACCESS DRIVES MUST BE MET.
7. ALL LOW IMPACT AREAS SHALL HAVE 'BIORETENTION SOIL' PER CURRENT EDITION OF "LOW IMPACT DEVELOPMENT TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND"
8. 5' MIN SEPARATION BETWEEN CITY OPERATED UTILITIES AND OTHER PRIVATE AND PUBLIC OPERATED UTILITIES (PUD, CABLE TV, PHONE, GAS ETC.)
9. NON CITY OPERATED PUBLIC UTILITIES MAY CROSS CITY EXCLUSIVE EASEMENT ONLY BETWEEN 45° AND 90° WITH RIDGED STEEL CONDUIT OR PVC CONDUIT ENCASED IN RED CONCRETE WITH CITY ENGINEER APPROVAL.
10. CONDUIT DUCTING SHALL HAVE A MINIMUM COVER OF 3' AND NOT OBSTRUCT CROSSING BY OTHER UTILITIES FOR A VERTICAL DISTANCE GREATER THAN 3' IN EITHER EASEMENT.
11. ONLY CITY OPERATED UTILITIES SHALL BE ALLOWED WITHIN CITY EXCLUSIVE EASEMENT NO OTHER EASEMENTS MAY BE GRANTED WITHIN THE LIMITS OF THIS EASEMENT.

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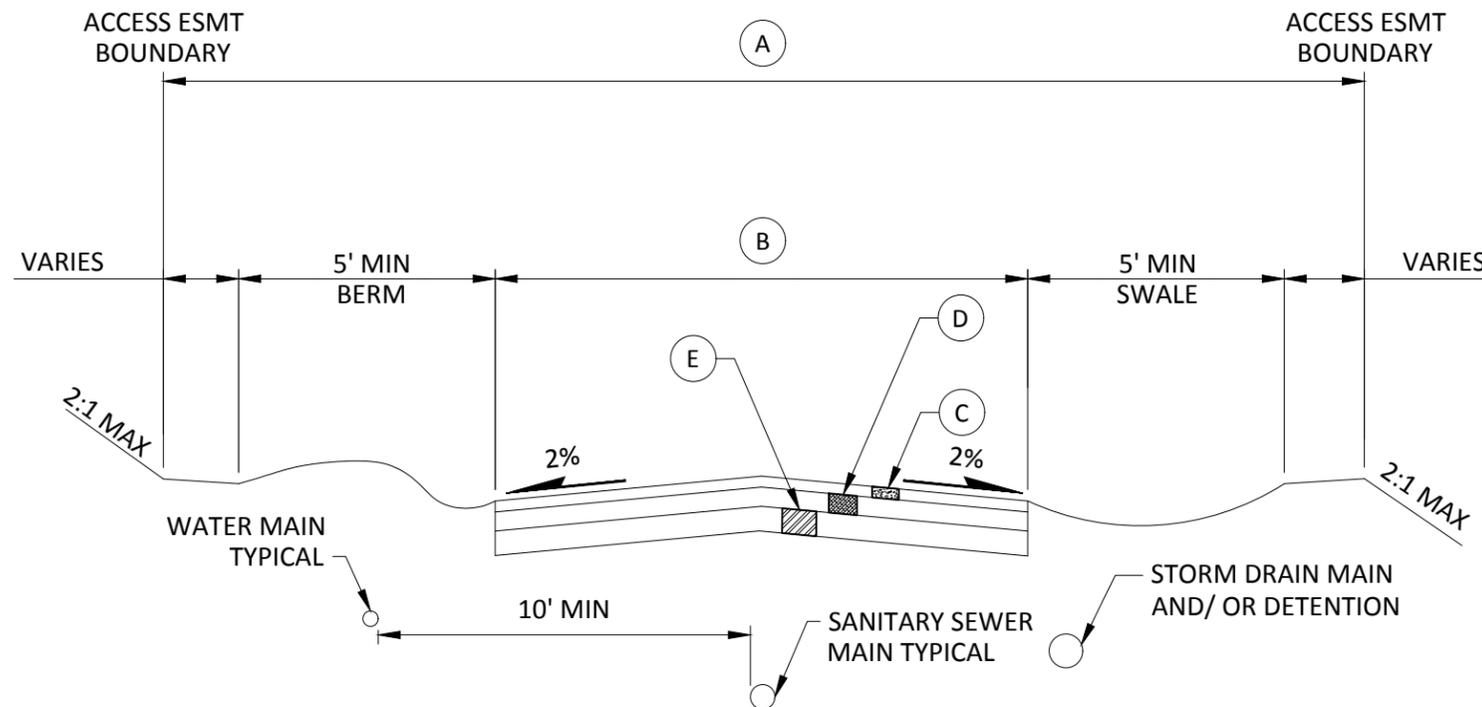


City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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TITLE  
**TYPICAL ROADWAY SECTION  
SHORT SUBDIVISION EASEMENT**

STANDARD DRAWING No.  
**303**

**DRAFT**



- (A) EASEMENT ACCESS WIDTH = 24' MIN.
- (B) PAVEMENT WIDTH SHALL BE 14'.
- (C) 3" HMA CL 1/2", PG 64-22.
- (D) 4" COMPACTED DEPTH CRUSHED SURFACING BASE COURSE.
- (E) COMPACTED SUBGRADE. IF UNSUITABLE, OVEREXCAVATE AND BACKFILL WITH GRAVEL BORROW.

## NOTES

1. FOR ANY EASEMENT ACCESS OR EASEMENT WITH PUBLIC UTILITIES, THE CITY ENGINEER SHALL DETERMINE THE REQUIRED EASEMENT WIDTH BASED ON CITY STANDARDS.
2. WITH THE EXCEPTION OF THE EASEMENT ACCESS DRIVE, NO NEW DRIVEWAYS OR PARKING AREAS WILL BE PERMITTED WITHIN THE FRONT YARD SETBACK AREA FOR ALL LOTS THAT FRONT ON THE PUBLIC STREET.
3. ACCESS OFF AN EASEMENT DRIVE IS LIMITED TO ONE TWENTY FOOT DRIVEWAY AND CURB CUT PER LOT. THE DRIVEWAY SHALL NOT EXCEED TWENTY FEET IN WIDTH FOR A DISTANCE OF TWENTY FEET FROM THE EASEMENT ACCESS DRIVE CURB. THE MINIMUM PARKING STALL WIDTH FOR 2 CARS IN FRONT OF THE GARAGE IS 20 FEET BY 20 FEET - TWO (2) STALLS. THE MINIMUM PARKING PAD FOR 4 OFF-STREET IS 20 FEET BY 40 FEET.
4. SURFACE PARKING: EMC18.28.120 SURFACE PARKING IS ONLY PERMITTED ON A LOT WITH AN EXISTING HOUSE. THIS PARKING AREA MAY NOT BE BETWEEN THE EXISTING HOUSE AND THE PUBLIC STREET. THE PARKING PAD MUST BE A MINIMUM OF 20 FEET BY 40 FEET AND BE A MINIMUM OF 5 FEET FROM ANY NEW PROPERTY LINE AND MAY NOT BE WITHIN THE REQUIRED OPEN SPACE.
5. GARAGES: EMC 18.28.150 ON ALL NEW LOTS WHERE PROPOSED SINGLE FAMILY DWELLINGS ARE PROPOSED A TWO (2) CAR GARAGE IS REQUIRED.
6. EMC 18.28.120 ALL DEVELOPMENT STANDARDS FOR EASEMENT ACCESS DRIVES MUST BE MET.
7. 5' MIN SEPARATION BETWEEN CITY OPERATED UTILITIES AND OTHER PRIVATE AND PUBLIC OPERATED UTILITIES (PUD, CABLE TV, PHONE, GAS ETC.)
8. NON CITY OPERATED PUBLIC UTILITIES MAY CROSS CITY EXCLUSIVE EASEMENT ONLY BETWEEN 45° AND 90° WITH RIDGED STEEL CONDUIT OR PVC CONDUIT ENCASED IN RED CONCRETE AT THE PUBLIC WORKS INSPECTORS OPTION.
9. CONDUIT DUCTING SHALL HAVE A MINIMUM COVER OF 3' AND NOT OBSTRUCT CROSSING BY OTHER UTILITIES FOR A VERTICAL DISTANCE GREATER THAN 3' IN EITHER EASEMENT.
10. ONLY CITY OPERATED UTILITIES SHALL BE ALLOWED WITHIN CITY EXCLUSIVE EASEMENT NO OTHER EASEMENTS MAY BE GRANTED WITHIN THE LIMITS OF THIS EASEMENT.

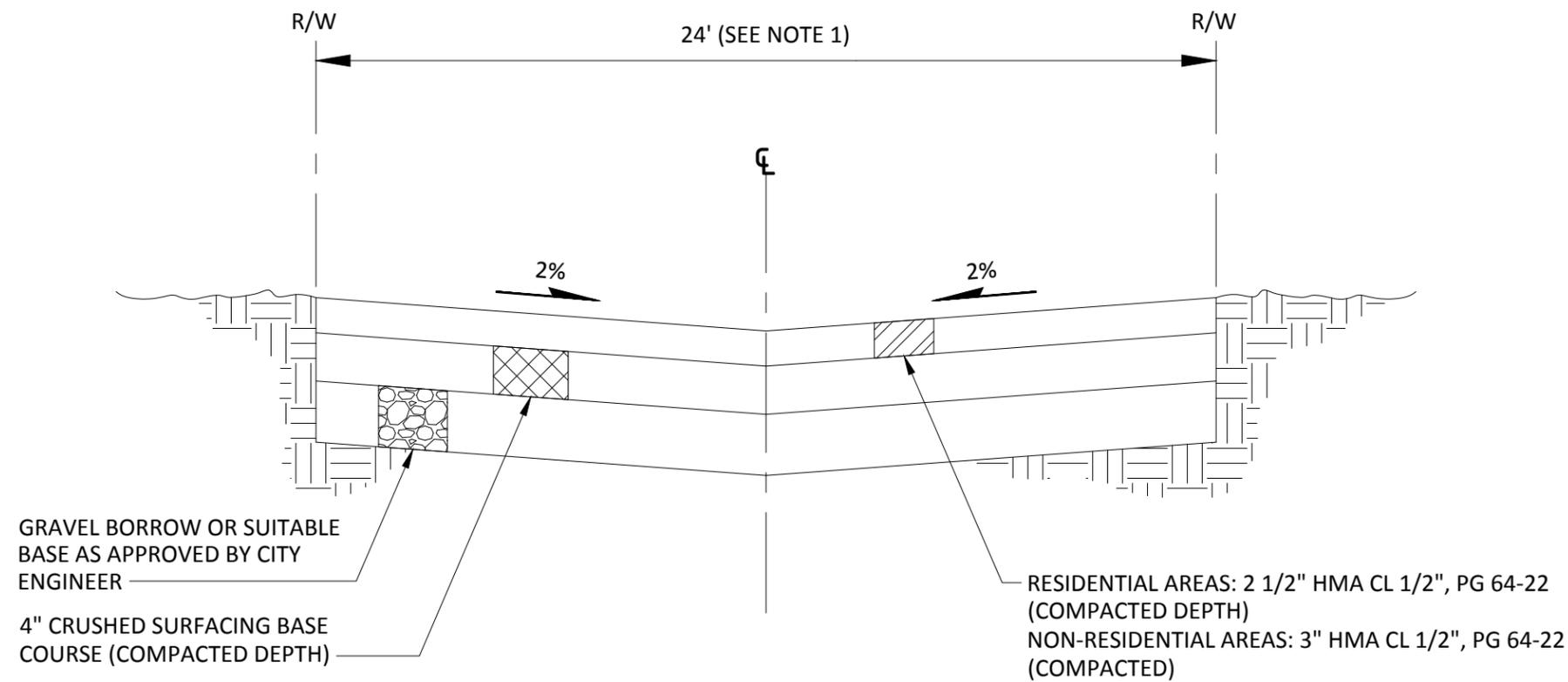
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 <b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		City Engineer		Section Manager		CAD Manager		Drawn By		Current Rev Date	
		RYAN SASS		TOM HOOD		PAUL WILHELM		WRB		12/30/2016	
<b>TYPICAL ROADWAY SECTION</b> <b>2 LOT SHORT</b> <b>SUBDIVISION EASEMENT</b>										STANDARD DRAWING No. <b>304</b>	

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## NOTES

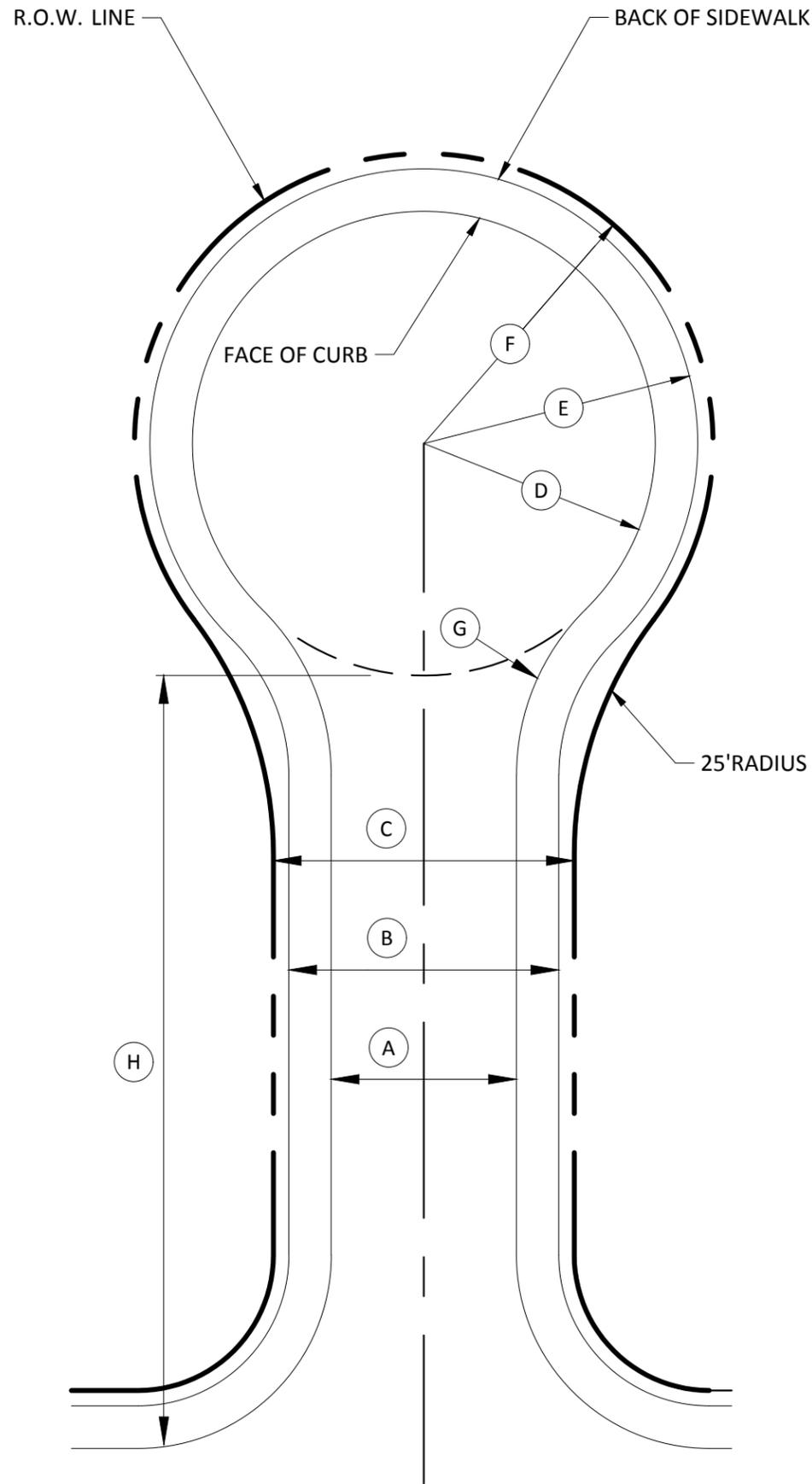
1. ALL NEW ALLEYS SHALL HAVE A MINIMUM WIDTH OF 24'. EXISTING ALLEY RIGHT-OF-WAYS MAY VARY FROM 12' TO 24'.
2. DRAINAGE TO BE COLLECTED AT LOW END OF IMPROVED SECTION WITH CATCH BASIN CONNECTED TO STORM DRAINAGE SYSTEM.
3. COMPACTION TESTS ON SUBGRADE AND TOP OF ROCK WILL BE REQUIRED. THE NUMBER OF TESTS SHALL BE AT THE DISCRETION OF THE CITY ENGINEER. ALL TESTING SHALL BE THROUGH A LICENSED TESTING LABORATORY. THE MINIMUM COMPACTION SHALL BE 95% OF MAXIMUM DENSITY OF BOTH SUBGRADE AND TOP OF ROCK.
4. ADJUSTMENT OF CATCH BASIN LIDS OR GRATES, MONUMENT CASES, VALVE BOXES, ETC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER AS REQUIRED.



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		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE			Current Rev Date 12/30/2016
TYPICAL ROADWAY SECTION ALLEY			STANDARD DRAWING No. 305



(A) VARIES 24' TO 48'+  
SEE STD PLANS 300, 301 & 302

(B) VARIES 35' TO 59'+  
SEE STD PLANS 300, 301 & 302

(C) VARIES 40' TO 80'+  
SEE STD PLANS 300, 301 & 302

(D) VARIES 30' TO 45'  
PER BELOW:

(H)	(D)
STREET LENGTH	MIN RADIUS
0'-150'	30'
151'-300'	35'
301'-500'	40'
501'-750'	45'
OVER 750'	SPECIAL APPROVAL REQUIRED

(E) 35.5' MIN. - LOCAL ACCESS  
STREETS AND SHORT  
SUBDIVISION STREETS

51.5' MIN - ARTERIAL  
CLASSIFICATIONS

(F) 40' MIN. - LOCAL ACCESS  
STREETS AND SHORT  
SUBDIVISION STREETS

55' MIN - ARTERIAL  
CLASSIFICATIONS

(G) CURB FACE RADIUS TO BE  
SAME AS RADIUS - D

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City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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TITLE STANDARD DRAWING No.

TYPICAL CUL-DE-SAC

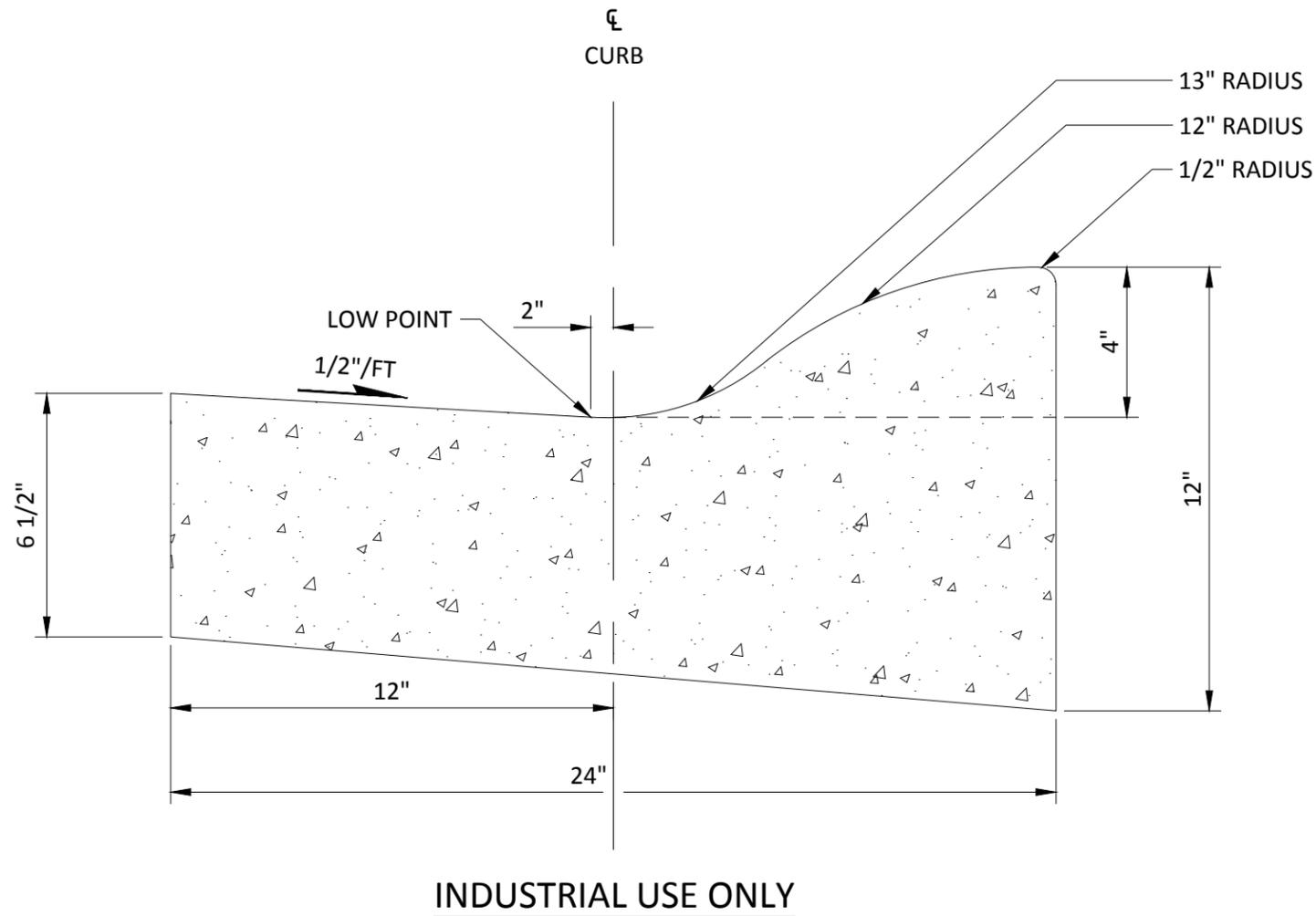
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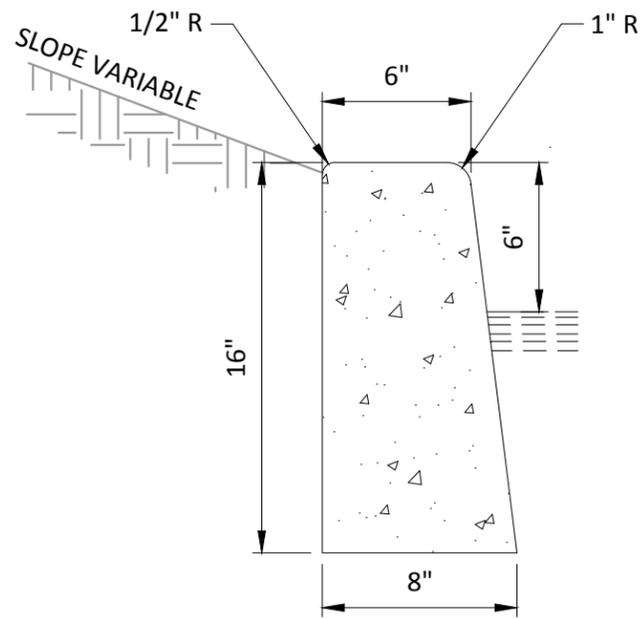
## NOTES

1. ROLLED CURB AND GUTTER MAY ONLY BE USED IN HIGHLY INDUSTRIALIZED AREAS AND ONLY WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
2. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED.
3. THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS, CURB RETURNS, ALLEYS, OR A MAXIMUM SPACING OF 30 FEET.
4. DUMMY JOINTS SHALL BE PLACED EVERY 15 FEET. DUMMY JOINTS SHALL BE 3/8" x 1 1/2".
5. THRU JOINTS SHALL BE 3/8" WIDE PRE-MOLDED JOINT FILLER.
6. ALL JOINTS SHALL BE CLEANED AND EDGED.
7. CONCRETE SHALL BE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS.
8. STEEL FORMS ONLY MAY BE USED ON TANGENT SECTIONS, WOOD FORMS MAY BE USED ON CURVED SECTIONS.
9. FINISH SHALL BE LIGHT BROOM.
10. CURB IS TO BE SPRAYED WITH TRANSPARENT CURING COMPOUND.
11. ALL SIDEWALKS POURED BEHIND ROLL CURB IN INDUSTRIAL APPLICATIONS SHALL BE 6" MIN THICK OVER 2" MIN OF CRUSHED SURFACING TOP COURSE WITH TOP OF ROCK COMPACTED TO 95% OF MAXIMUM DENSITY.



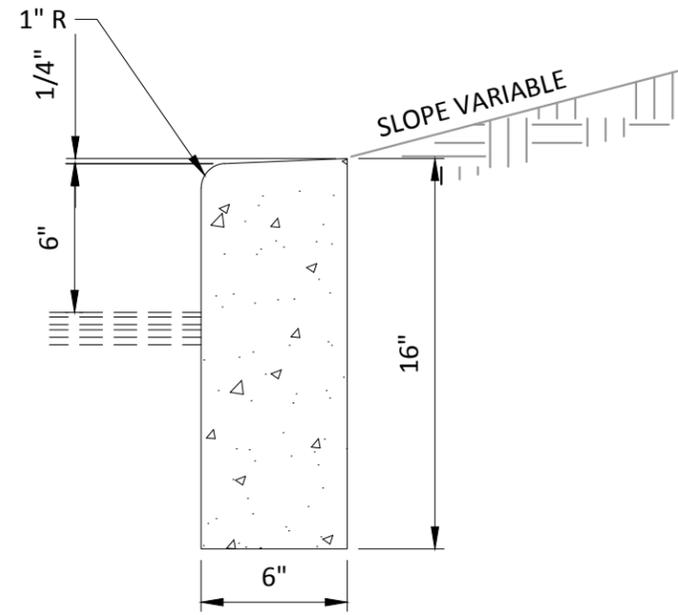
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		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
<b>ROLLED CURB</b> CEMENT CONCRETE CURB & GUTTER				STANDARD DRAWING No. <b>308</b>

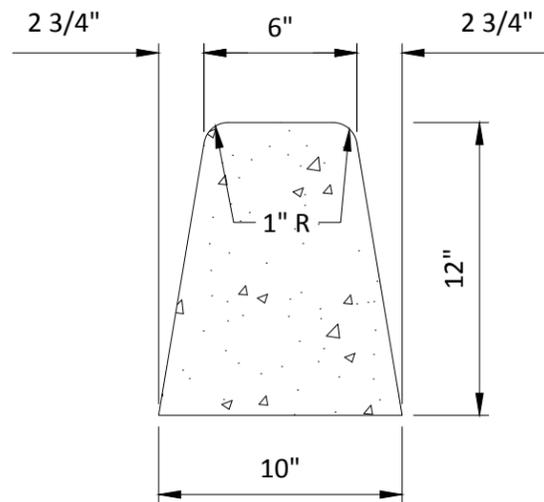


**TYPE E-1 CURB**

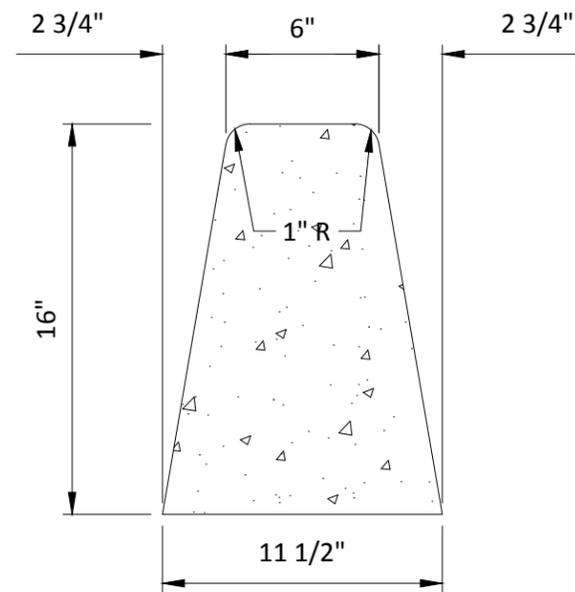
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**TYPE E-2 CURB**



**TYPE E-3 CURB**



**TYPE E-4 CURB**

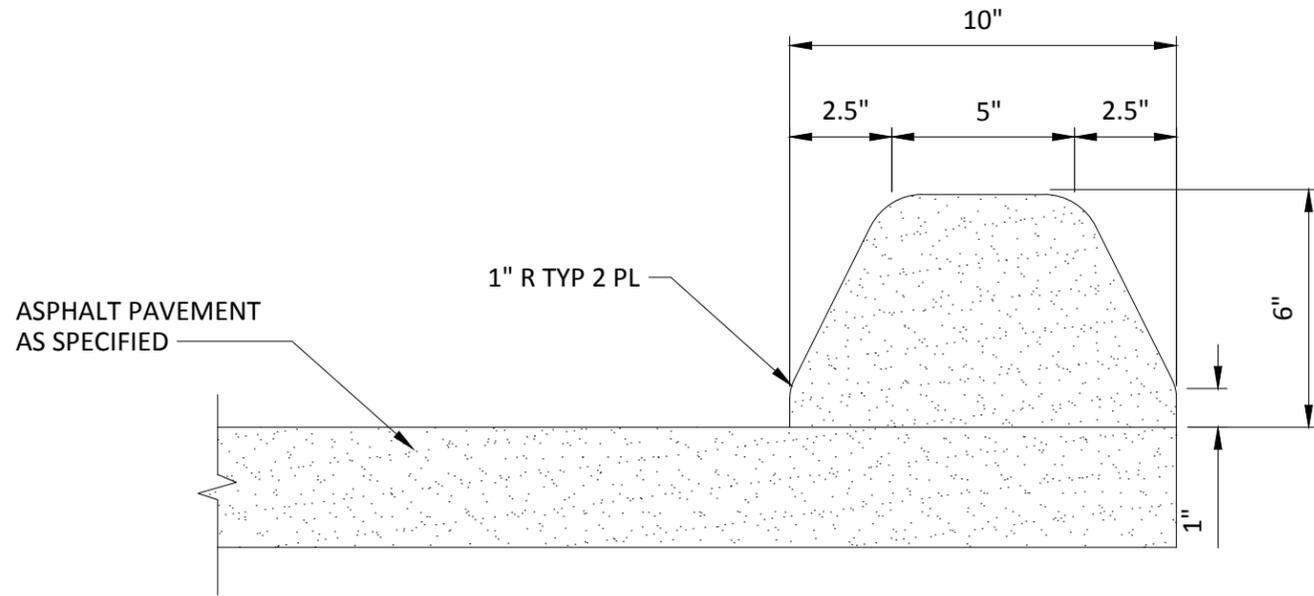
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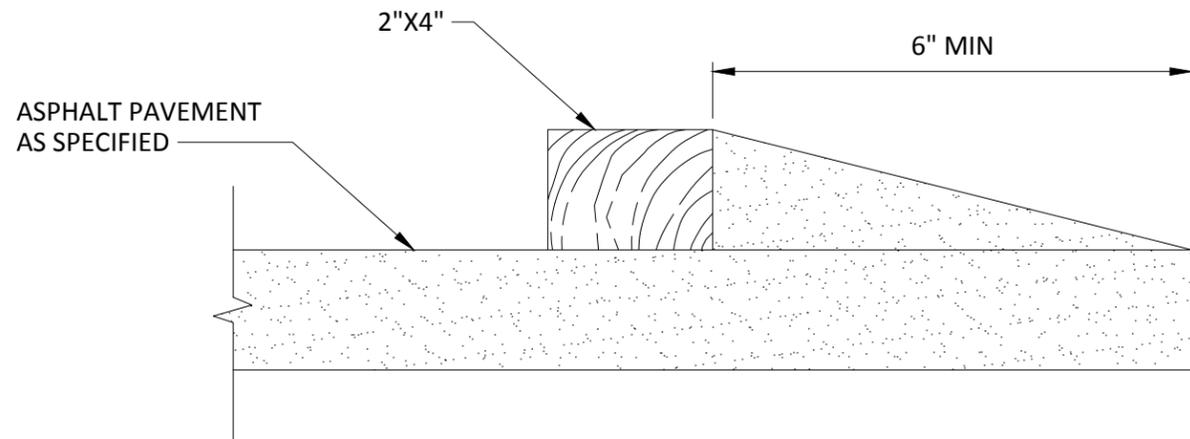
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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TITLE TYPES E-1, E-2, E-3 & E-4 CEMENT CONCRETE CURB & GUTTER	STANDARD DRAWING No. 309
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EXTRUDED ASPHALT CONCRETE CURB



ASPHALT WEDGE CURB

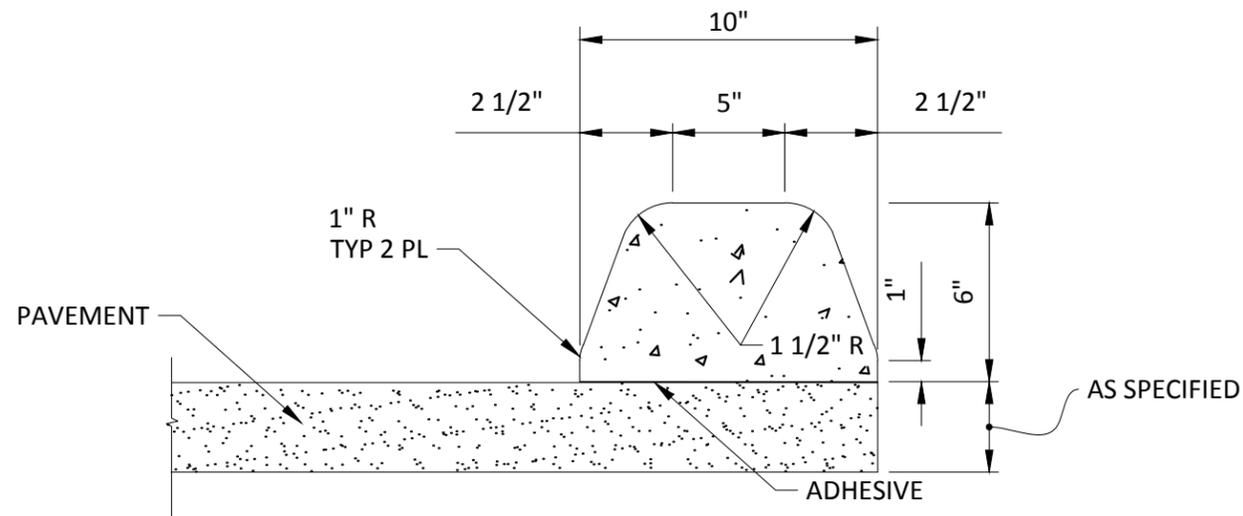
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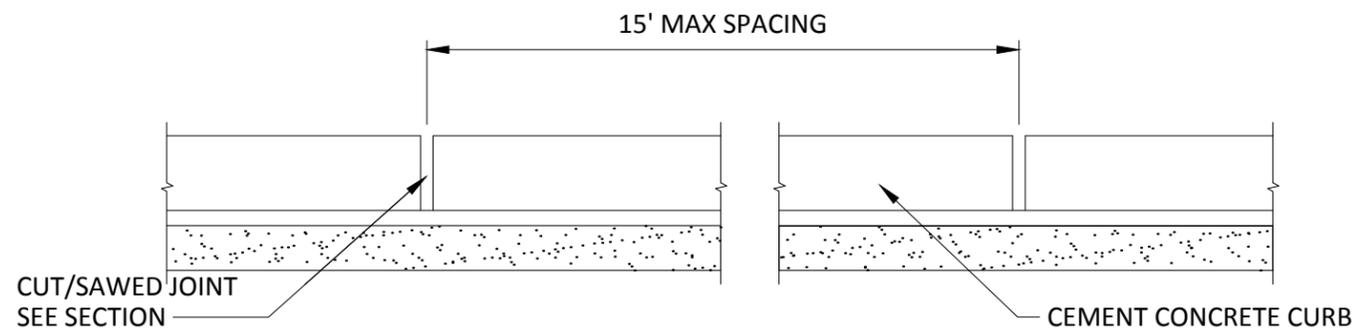
		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE <b>EXTRUDED ASPHALT          CONCRETE SECTIONS</b>				STANDARD DRAWING No. <b>310</b>

**NOTES**

1. CUT OR SAWED JOINTS SHALL BE PLACED NOT TO EXCEED 15' ON CENTER. THRU JOINTS SHALL BE PLACED ONLY AT POINTS OF TANGENCY ON STREET ALLEY AND DRIVEWAY RETURNS AND WHERE THRU JOINTS OCCUR IN THE PAVEMENT SLAB.
2. CONCRETE SHALL BE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS.
3. CONCRETE CURBS WILL BE ANCHORED TO THE EXISTING PAVEMENT BY USING AN ADHESIVE. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-26.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR TYPE II EPOXY BONDING AGENT.



**EXTRUDED CEMENT CONCRETE CURB SECTION**



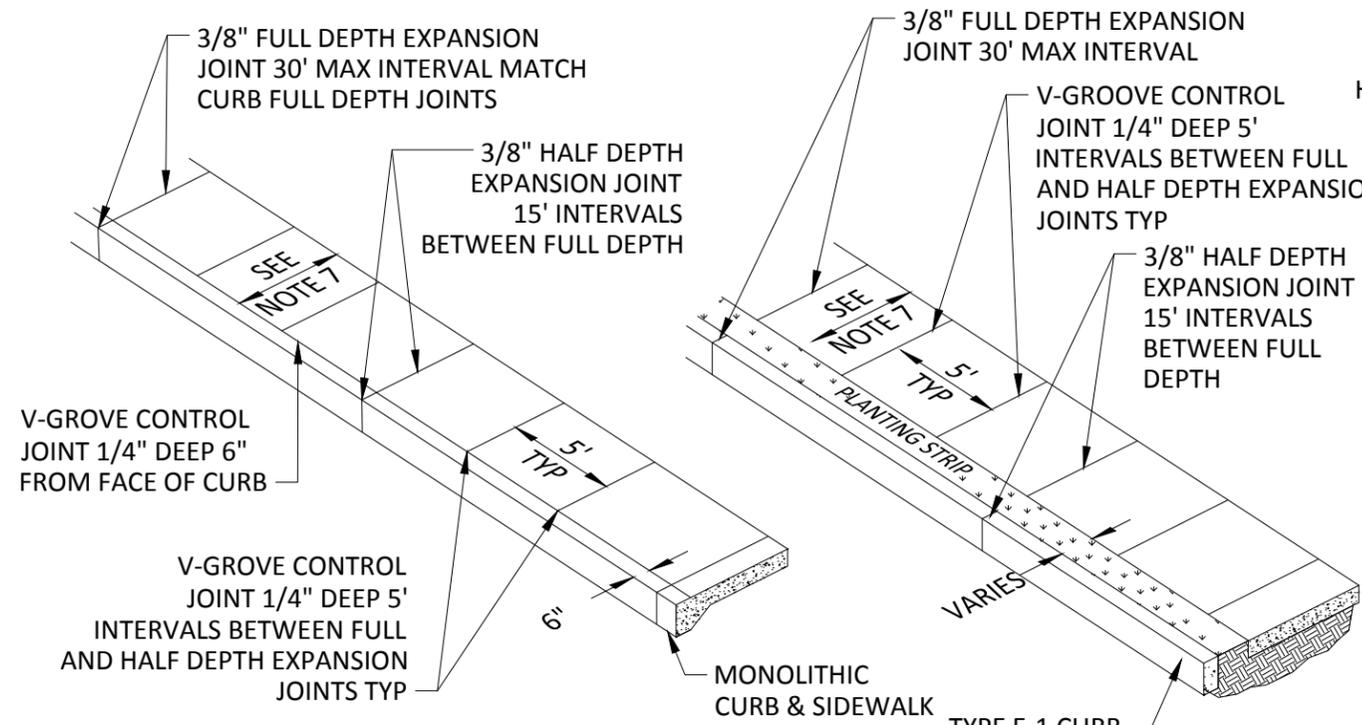
**JOINT SPACING**

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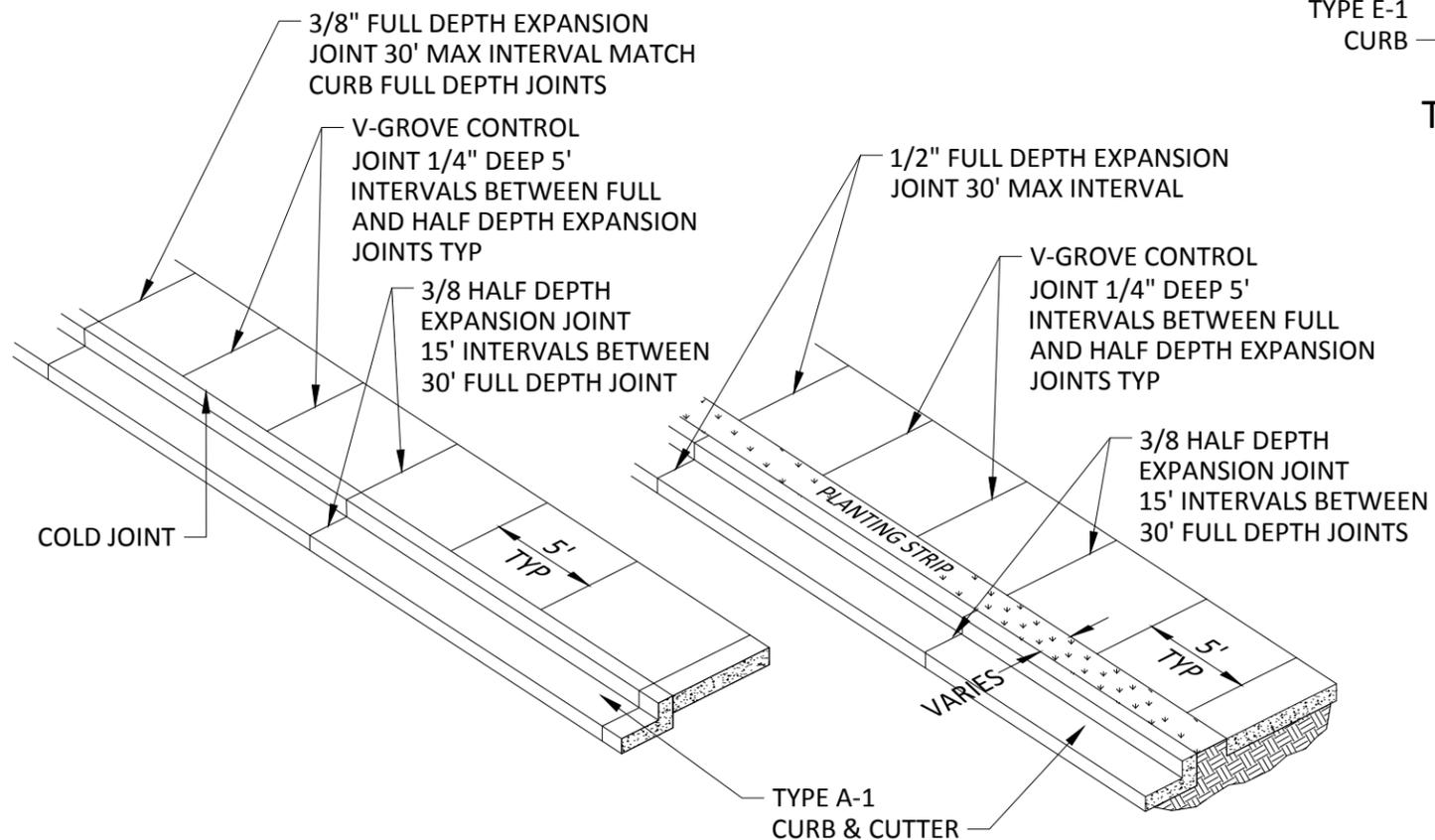
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 <b>CITY OF EVERETT</b> EVERETT PUBLIC WORKS DEPARTMENT				
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE <b>EXTRUDED CEMENT CONCRETE SECTIONS</b>				STANDARD DRAWING No. <b>311</b>

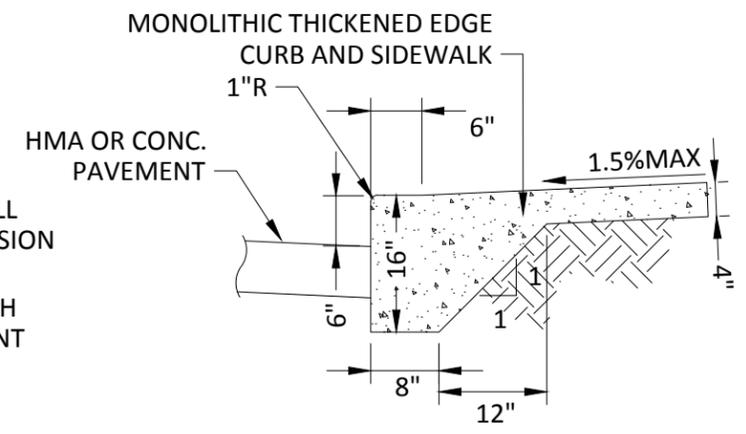
T:\ACAD\EPS-COE DESIGN & CONSTR SPECS FOR DEVELOPMENT\IN-WORK\STD312.DWG



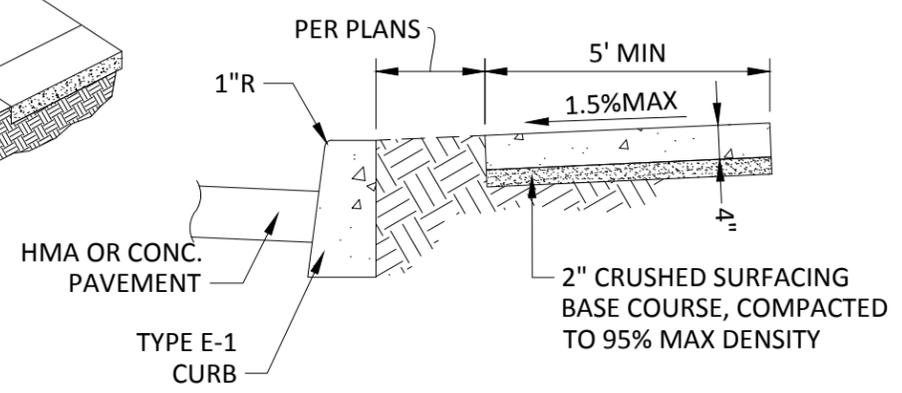
**TYPE E-1 CURB & SW**



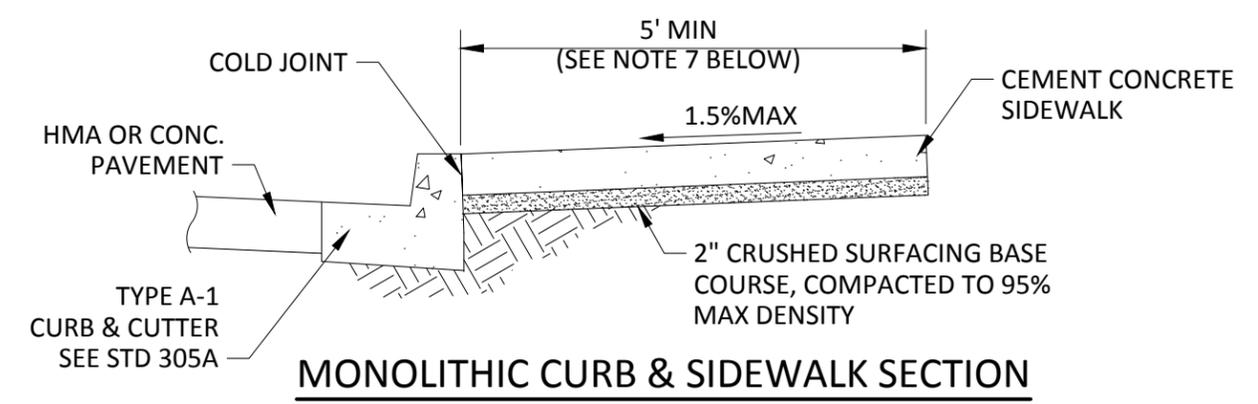
**TYPE A CURB & SW**



**MONOLITHIC CURB & SIDEWALK SECTION**



**TYPE E-1 CURB, PLANTER STRIP & SIDEWALK SECTION**



**MONOLITHIC CURB & SIDEWALK SECTION**

**NOTES**

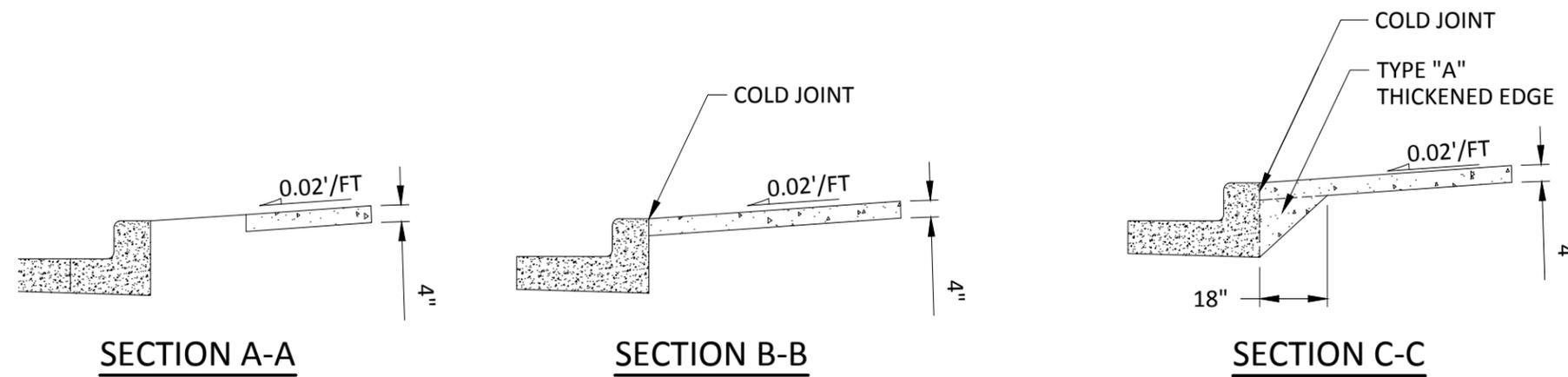
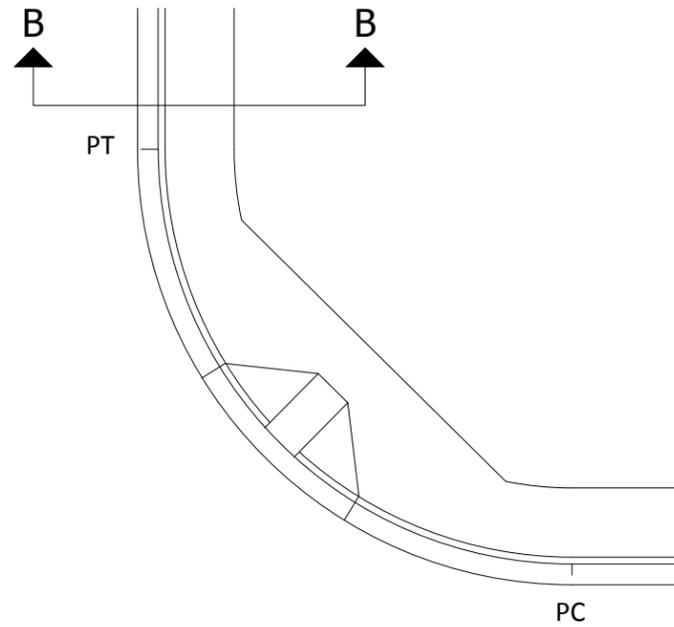
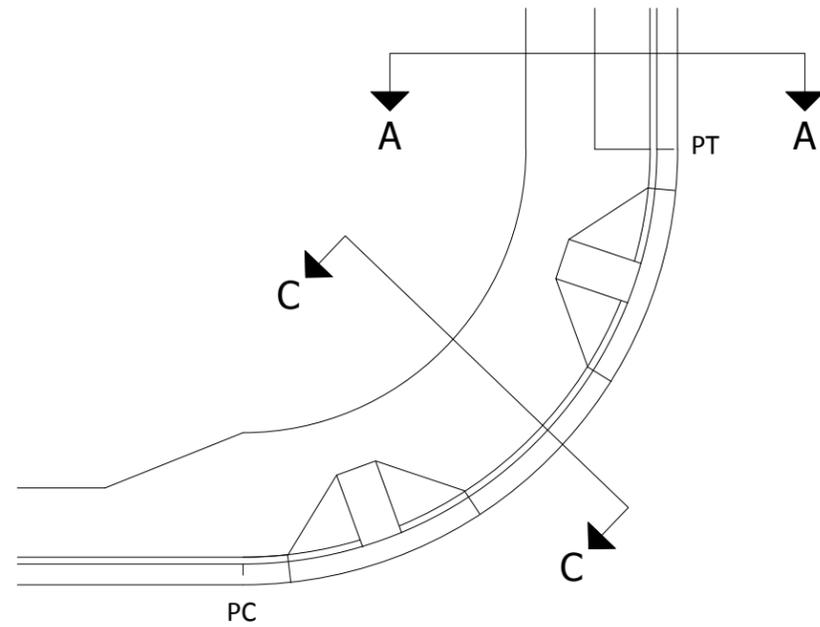
1. SIDEWALKS SHALL BE A MINIMUM OF 4" THICK, AND SHALL BE COMMERCIAL MIX CONCRETE AS CALLED OUT IN WSDOT STD SPECS., WITH AIR ENTRAINMENT (MIN 4.5 %, MAX 6.5 %).
2. SIDEWALK FULL DEPTH EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE IN ADJACENT CURB & GUTTER (WITHOUT PLANTER STRIP). MAXIMUM SPACING OF 30 FEET, FINAL SPACING DETERMINATION SHALL BE DECIDED BY THE INSPECTOR IN THE FIELD.
3. SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
4. SIDEWALK SHALL BE AT LEAST 6" THICK IN DRIVEWAYS AND BEHIND ROLL-CURB (STD 305B).
5. THE FINISHED SIDEWALK SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND COVERED BY WATERPROOF PAPER OR PLASTIC SHEETING IN THE EVENT OF RAIN OR OTHER INCLEMENT WEATHER. CURING TIME SHALL BE FOR A MINIMUM OF 72 HOURS.
6. ALL JOINTS SHALL BE CLEANED AND EDGED WITH AN EDGER HAVING A 3/8" RADIUS AFTER FINAL BROOM FINISH IS COMPLETED.
7. SIDEWALKS ARE 5' MIN. WIDE, EXCEPT 6' ALONG ARTERIALS, IN COMMERCIAL AREAS, OR AS APPROVED BY THE CITY ENGINEER.
8. CURB REVEAL MUST MATCH EXISTING TOP OF CURB FOR REPLACEMENT PROJECTS. THIS MEANS THAT THE FULL CURB IS PLACED IN AS SHOWN IN THE TYPICAL SECTION BUT THE ASPHALT STREET WILL COVER FACE OF CURB SO LESS THAN 6" MAYBE REVEALED.

<p><b>CITY OF EVERETT</b> EVERETT PUBLIC WORKS DEPARTMENT</p>		City Engineer	Section Manager	CAD Manager	Drawn By	Current Rev Date
		RYAN SASS	TOM HOOD	PAUL WILHELM	WRB	12/30/2016
<p>TITLE</p> <p><b>CEMENT CONCRETE CURB &amp; SIDEWALK DETAILS</b></p>						<p>STANDARD DRAWING No.</p> <p><b>312</b></p>

**DRAFT**

## NOTES

- "V" GROOVES SHALL BE SPACED TO CORRESPOND TO THE MARKINGS IN EXISTING SIDEWALKS, OR AS DIRECTED BY THE ENGINEER.
- ALL UTILITY POLES, METER BOXES AND OTHER OBSTRUCTIONS SHALL HAVE FULL DEPTH 3/8" EXPANSION JOINT MATERIAL PLACED AROUND THEM.
- ALL SIDEWALK EDGES SHALL HAVE 1/2" RADIUS.
- MINIMUM WIDTH OF SIDEWALK IS 5' (NOT INCLUDING THE WIDTH OF THE CURB).
- THICKENED EDGES ARE REQUIRED FOR SIDEWALKS AT CORNERS, BUT NOT ON TANGENT SECTIONS. ALL CURB RAMPS SHALL HAVE A THICKENED EDGE TO THE DEPTH OF THE ADJACENT CURB, INCLUDING CURB RAMPS BUILT ON TANGENT SECTIONS OF SIDEWALK. MONOLITHIC CURB AND SIDEWALK CONFORMING TO STD DWG 306 DO NOT REQUIRE ADDITIONAL THICKENED EDGE.
- FOR CURB RAMP DETAILS SEE STANDARD PLANS 310A, 310B AND 310C.



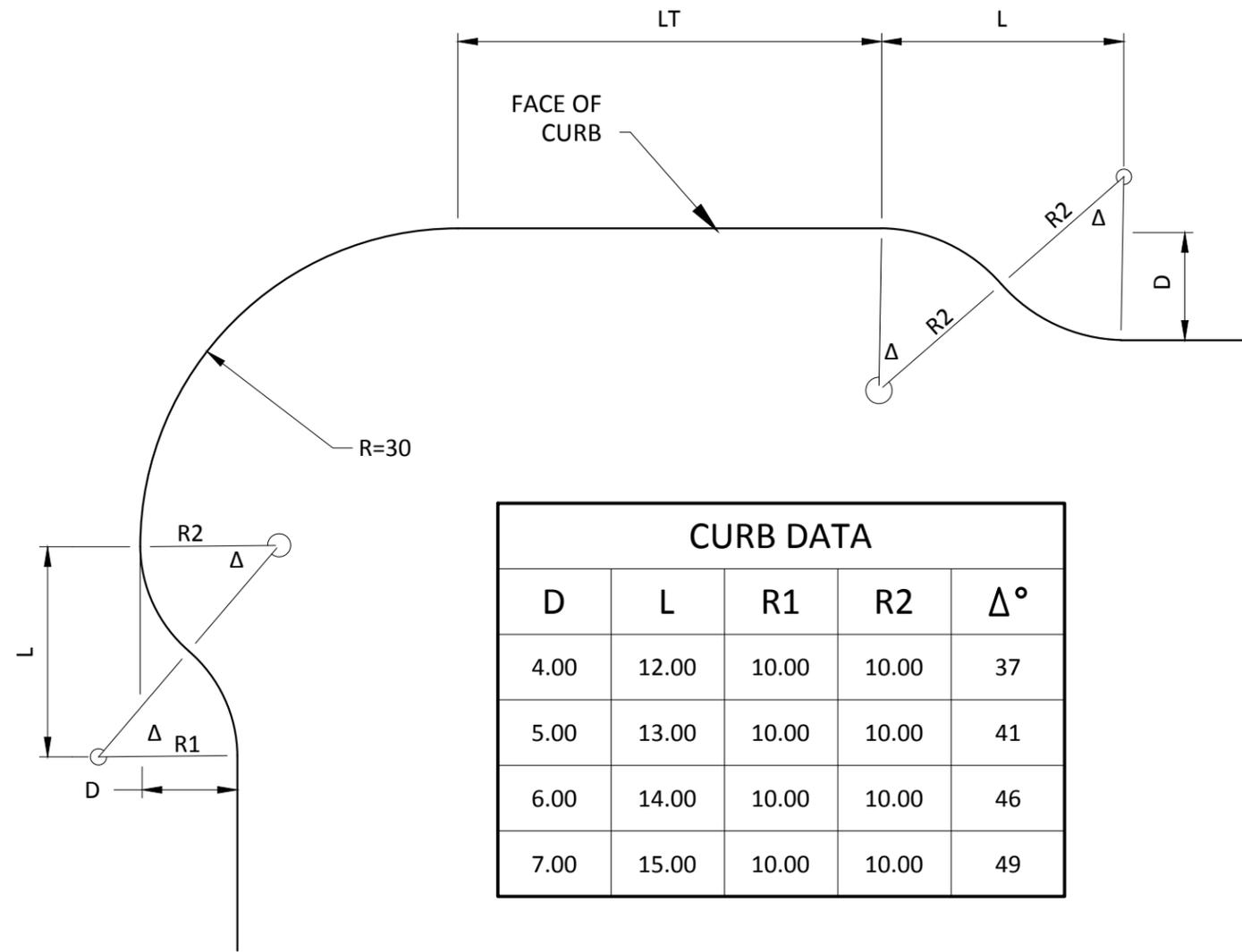
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 <b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE <b>CEMENT CONCRETE SIDEWALK AT CORNERS</b>						STANDARD DRAWING No. <b>313</b>

**DRAFT**

**NOTES**

1. R3 TO ACCOMMODATE DESIGN VEHICLE.
2. LT FOR TRANSIT STOP.
3. CURB EXPOSURE VARIES ACCORDING TO SITE AND DRAINAGE REQUIREMENTS.



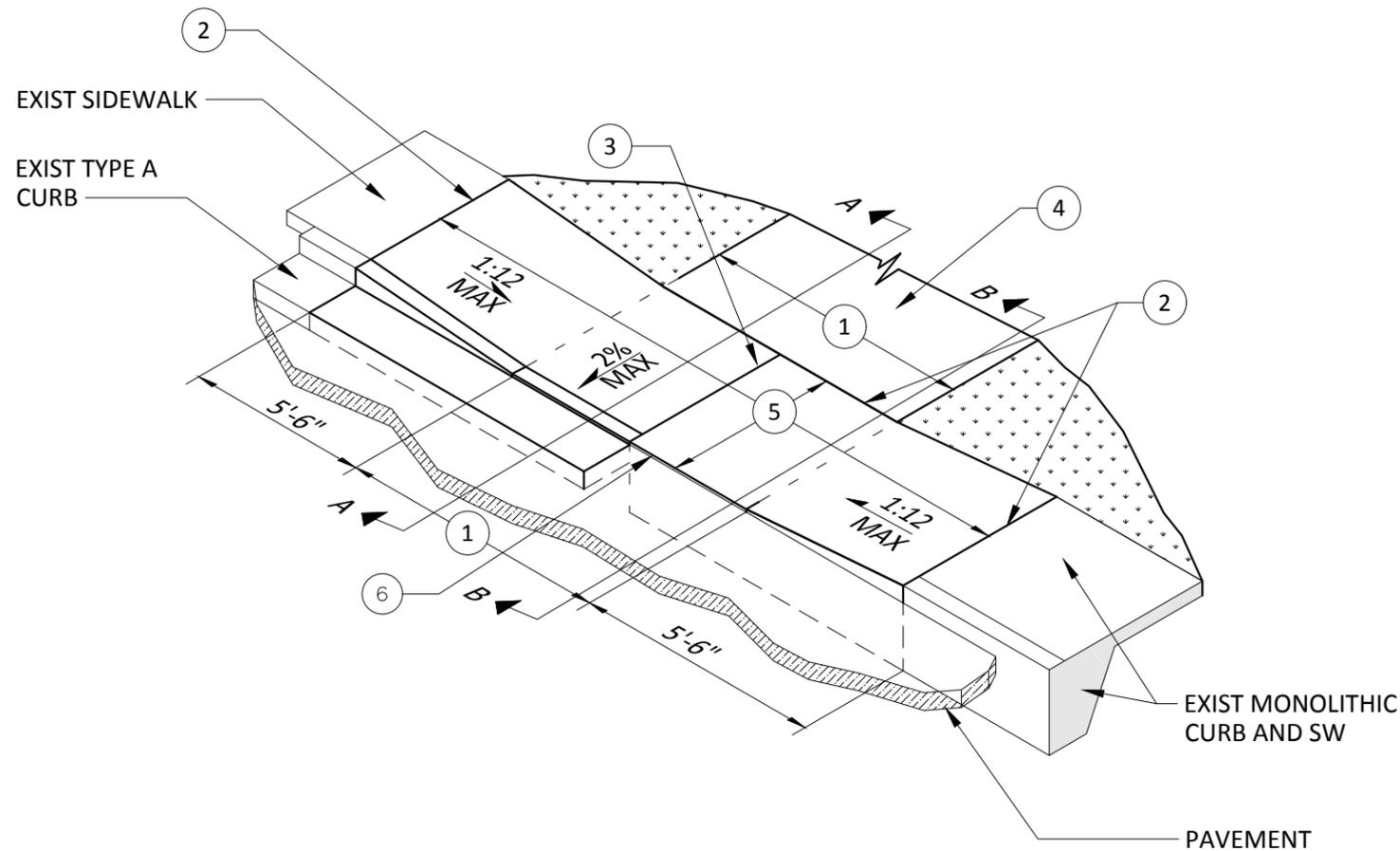
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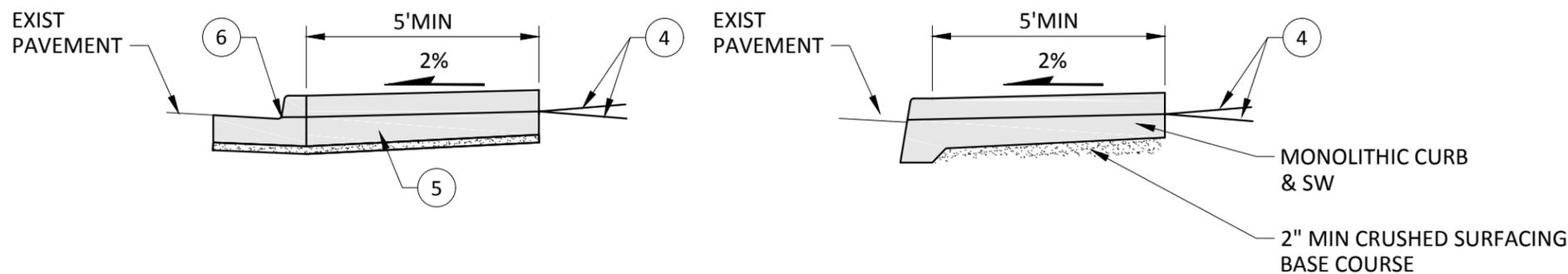
**CITY OF EVERETT**  
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date <b>12/30/2016</b>
TITLE <b>CURB EXTENSIONS</b>				STANDARD DRAWING No. <b>314</b>



# **NOTES**

1. EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE.
2. 3/8" WIDE FULL DEPTH EXPANSION JOINT.
3. 3/8" WIDE FULL DEPTH EXPANSION JOINT IF NOTE 1 ABOVE IS 15' OR GREATER.
4. WITHIN THE CITY RIGHT-OF-WAY THE DRIVEWAY SHALL BE SURFACED WITH ASPHALT OR CONCRETE.
5. THE DRIVEWAY RAMP INCLUDING WING RAMP SHALL BE CONCRETE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS., A MIN OF 6" THICK AND PLACED ON A MINIMUM OF 2" CRUSHED SURFACING BASE COURSE COMPACTED TO 95% MAXIMUM DENSITY.
6. MAINTAIN 1/2" LIP AT GUTTER.



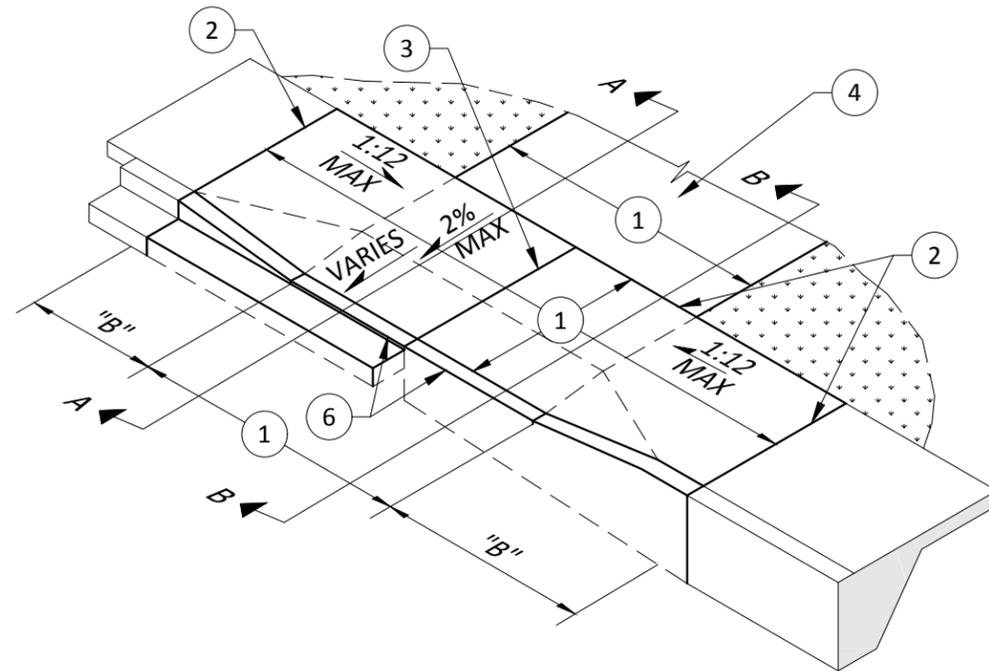
**SECTION A-A**  
USING TYPE A-1 CURB

**SECTION B-B**  
USING MONOLITHIC CURB & SW

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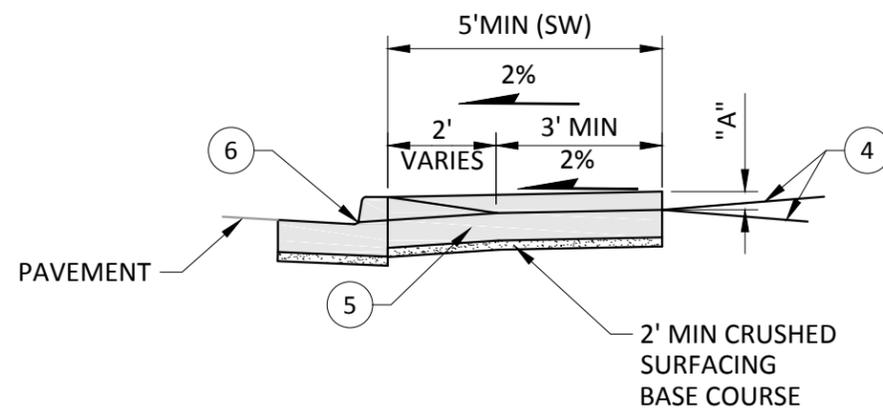
		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE <b>CEMENT CONCRETE DRIVEWAY RAMP TYPE - 1</b>			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>315</b>



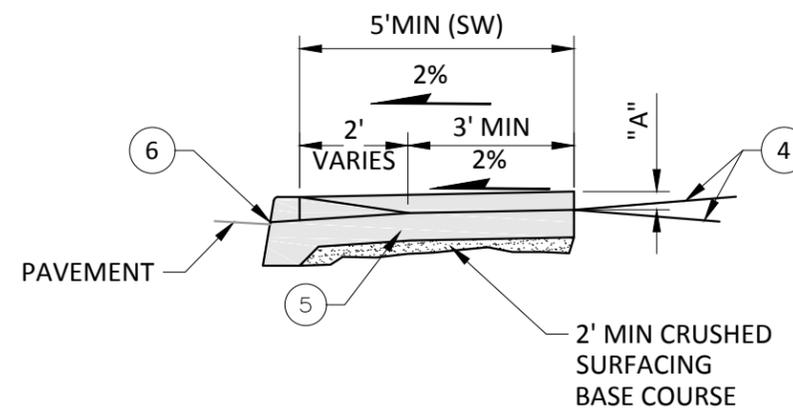
# **NOTES**

1. EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE.
2. 3/8" WIDE FULL DEPTH EXPANSION JOINT.
3. 3/8" WIDE FULL DEPTH EXPANSION JOINT IF NOTE 1 ABOVE IS 15' OR GREATER.
4. WITHIN THE CITY RIGHT-OF-WAY THE DRIVEWAY SHALL BE SURFACED WITH ASPHALT OR CONCRETE.
5. THE DRIVEWAY RAMP INCLUDING WING RAMP SHALL BE CONCRETE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS., A MIN OF 6" THICK AND PLACED ON A MINIMUM OF 2" CRUSHED SURFACING BASE COURSE COMPACTED TO 95% MAXIMUM DENSITY.
6. MAINTAIN 1/2" LIP AT GUTTER.

LOWERING BACK OF SIDEWALK "A" (IN)	LENGTH OF TRANSITION "B" (FT)
3	3
4	4
5	5



**SECTION A-A**  
USING TYPE A-1 CURB



**SECTION B-B**  
USING MONOLITHIC CURB & SW

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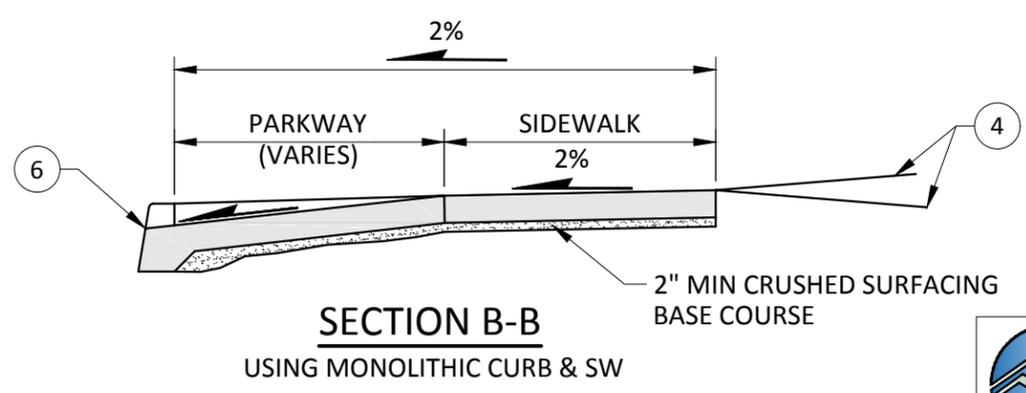
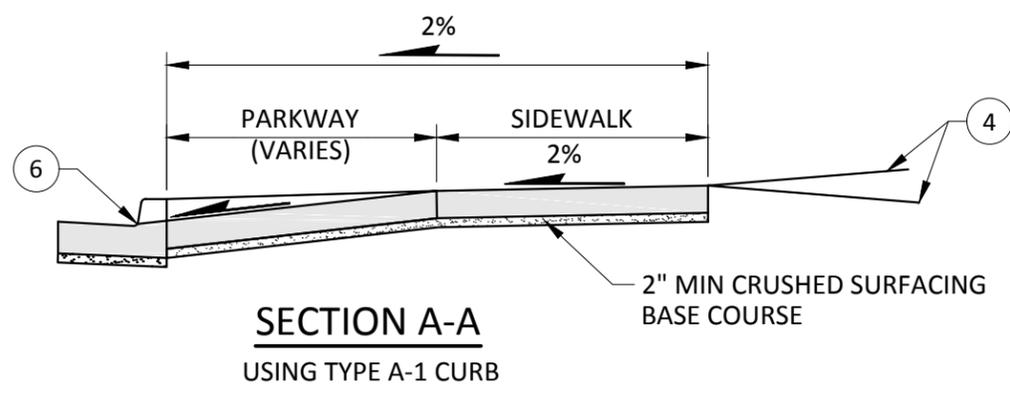
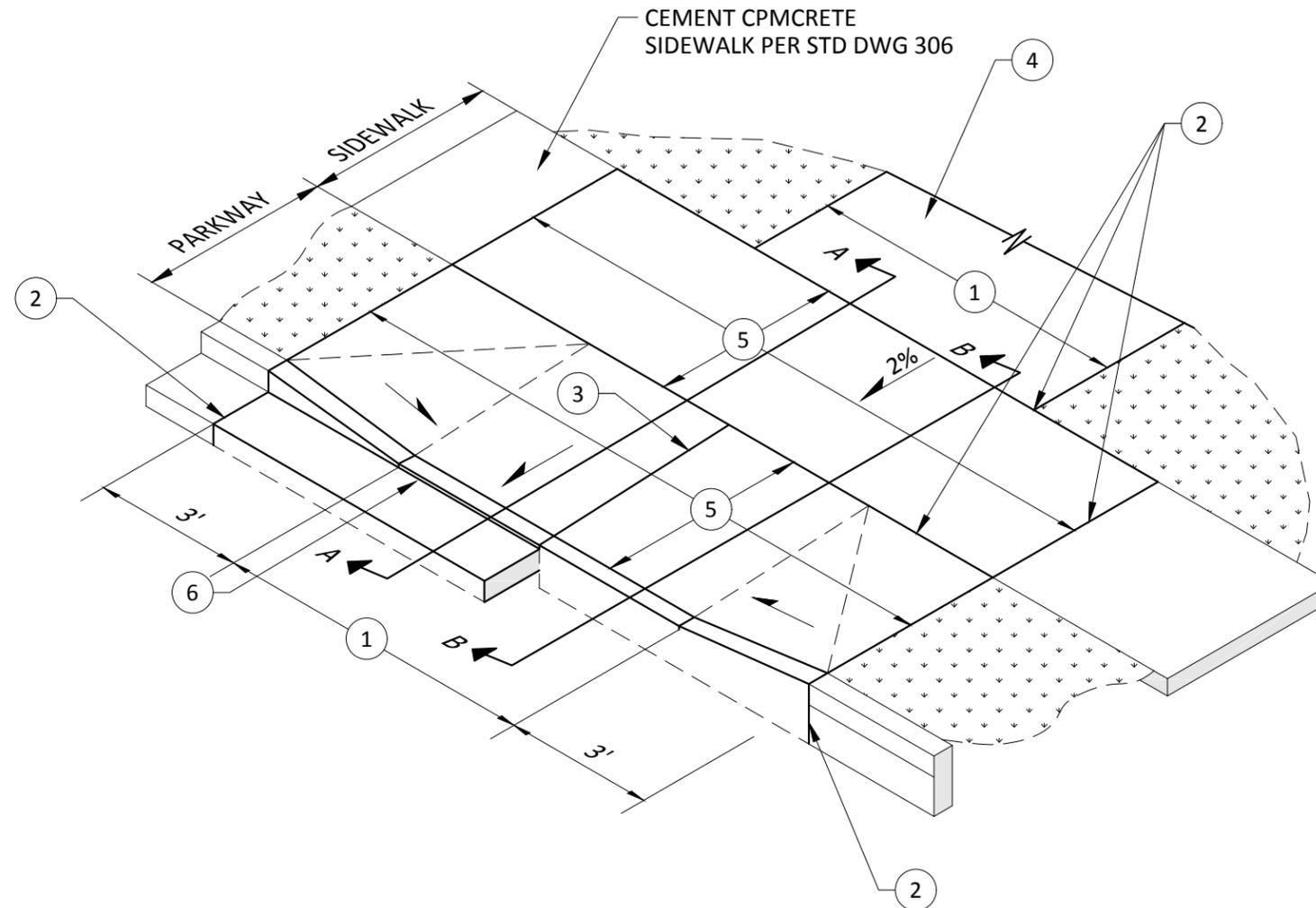


**CITY OF EVERETT**  
**EVERETT PUBLIC WORKS DEPARTMENT**

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date <b>12/30/2016</b>
CEMENT CONCRETE DRIVEWAY RAMP TYPE - 2				316

# **NOTES**

1. EQUALS WIDTH OF DRIVEWAY AT PROPERTY LINE.
2. 3/8" WIDE FULL DEPTH EXPANSION JOINT.
3. 3/8" WIDE FULL DEPTH EXPANSION JOINT IF NOTE 1 ABOVE IS 15' OR GREATER.
4. WITHIN THE CITY RIGHT-OF-WAY THE DRIVEWAY SHALL BE SURFACED WITH ASPHALT OR CONCRETE.
5. THE DRIVEWAY RAMP INCLUDING WING RAMPs SHALL BE CONCRETE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS., A MIN OF 6" THICK AND PLACED ON A MINIMUM OF 2" CRUSHED SURFACING BASE COURSE COMPACTED TO 95% MAXIMUM DENSITY.
6. MAINTAIN 1/2" LIP AT GUTTER.

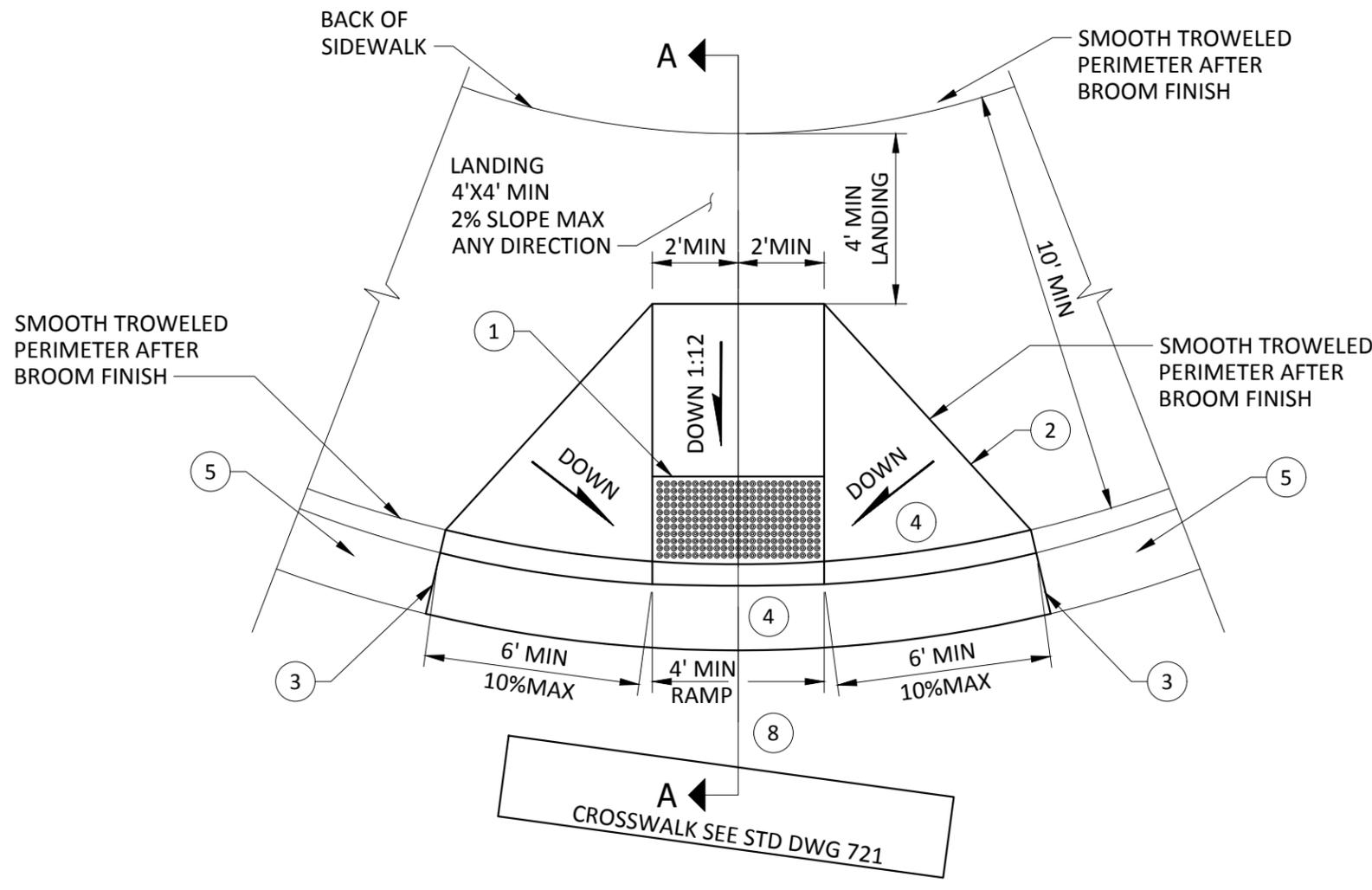


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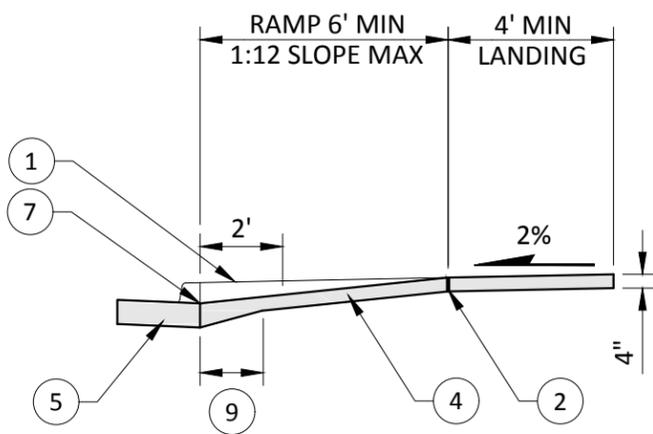
**DRAFT**

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
<b>CEMENT CONCRETE DRIVEWAY RAMP TYPE - 3</b>				STANDARD DRAWING No. <b>317</b>



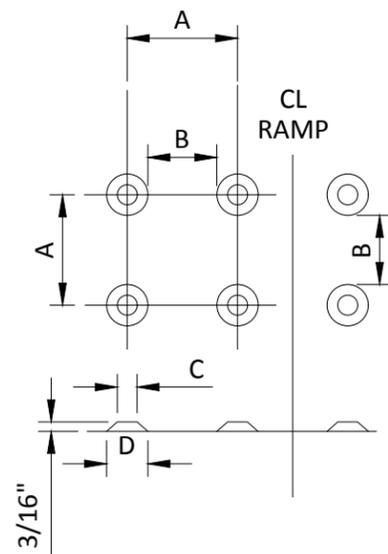


**PLAN**



**SECTION A-A**

	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



**DETECTABLE WARNING PATTERN**

**NOTES**

- 1 DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW IN COMPLIANCE WITH WSDOT/APWA STANDARD SPEC SECTION 8-14.3(3).
- 2 CURB RAMPS SHALL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED FROM ADJACENT SIDEWALK BY A 3/8" FULL DEPTH EXPANSION JOINT.
- 3 GUTTER SECTION AT CURB RAMP SHALL NOT BE POURED INTERGAL WITH ADJACENT GUTTER SECTIONS AND SHALL BE ISOLATED BY A 3/8" FULL DEPTH EXPANSION JOINT.
- 4 CURB RAMP AND GUTTER SECTION AT CURB RAMP MAY BE POURED AS AN INTERGAL SECTION.
- 5 TYPE A-1 INTEGRAL CURB AND GUTTER PER CITY STD DWG 305A.
- 6 FOR RETROFIT INSTALLATION SAWCUT AND REMOVE EXISTING SIDEWALK, CURB AND GUTTER SECTION ALONG NEW EXPANSION JOINT LOCATION. SAWCUT EXISTING PAVEMENT AS REQUIRED FOR FORMING OF NEW CURB AND GUTTER. PATCH PAVEMENT AS REQUIRED.
- 7 FLUSH WITH GUTTER (NO LIP PERMITTED)
- 8 A MIN OF 4' OF THE RAMP WIDTH MUST FALL WITHIN THE CROSS WALK SERVED BY THE RAMP.
- 9 THICKEN EDGE TO FULL DEPTH OF ADJACENT CURB SECTION.

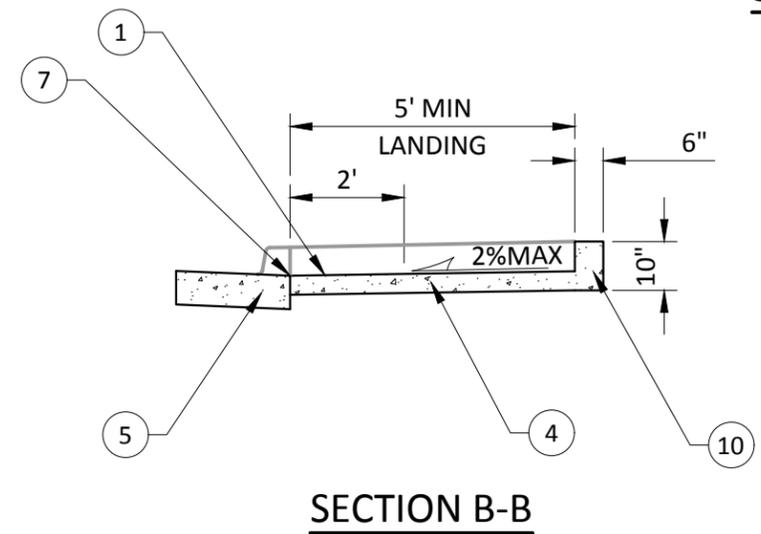
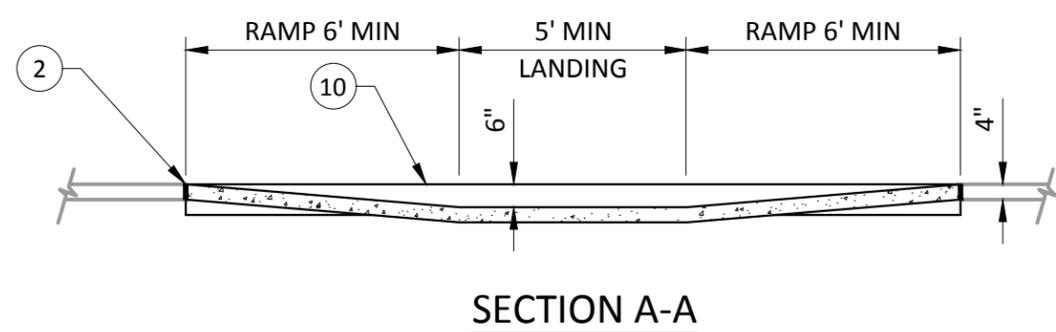
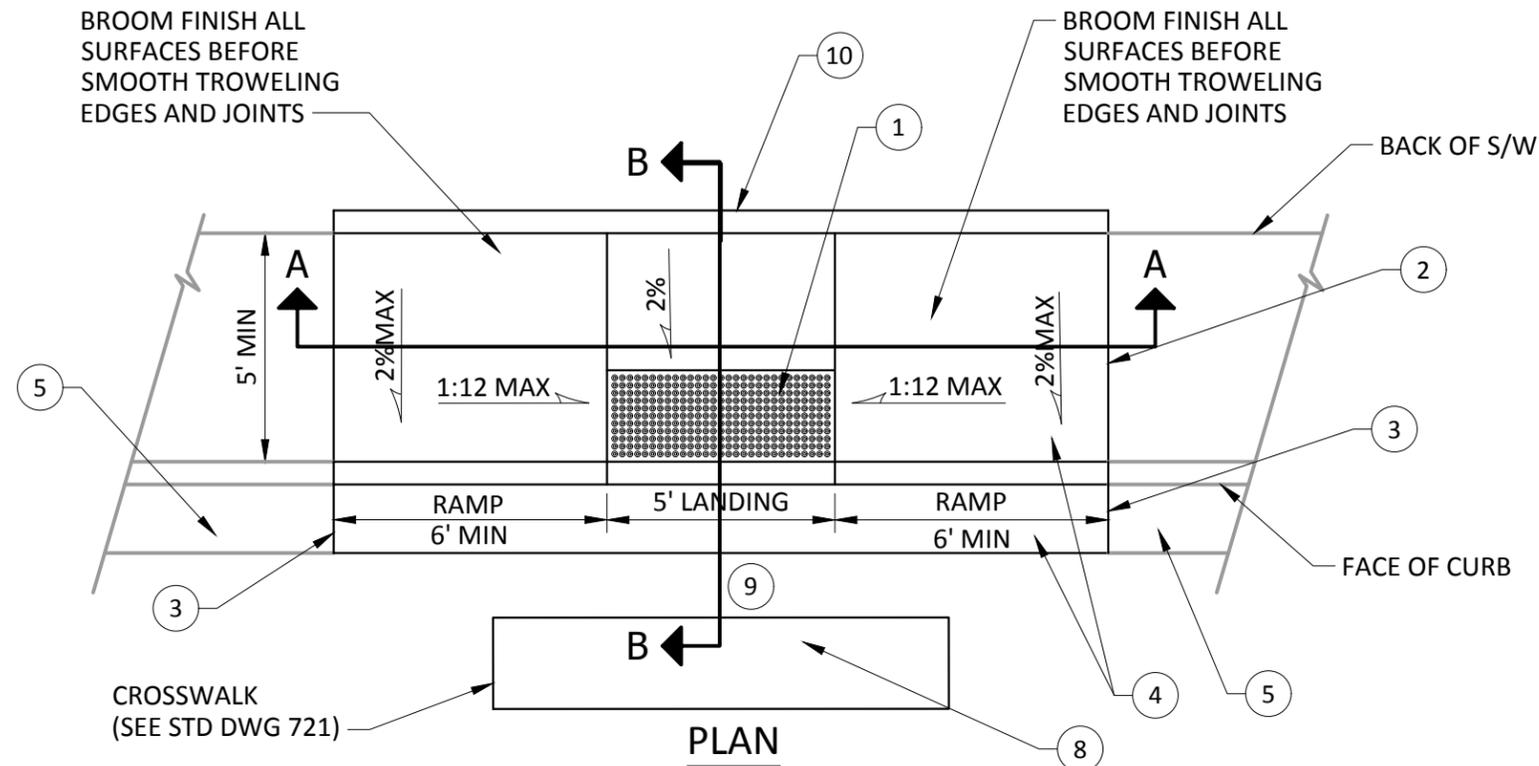
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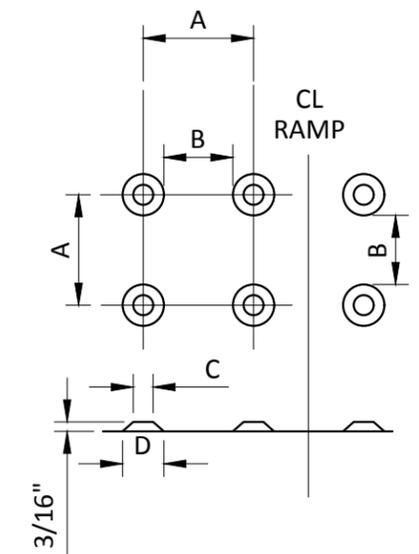
**CITY OF EVERETT**  
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date <b>12/30/2016</b>
TITLE				STANDARD DRAWING No.
<b>TYPE B CURB RAMP</b>				<b>319</b>

**DRAFT**



	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



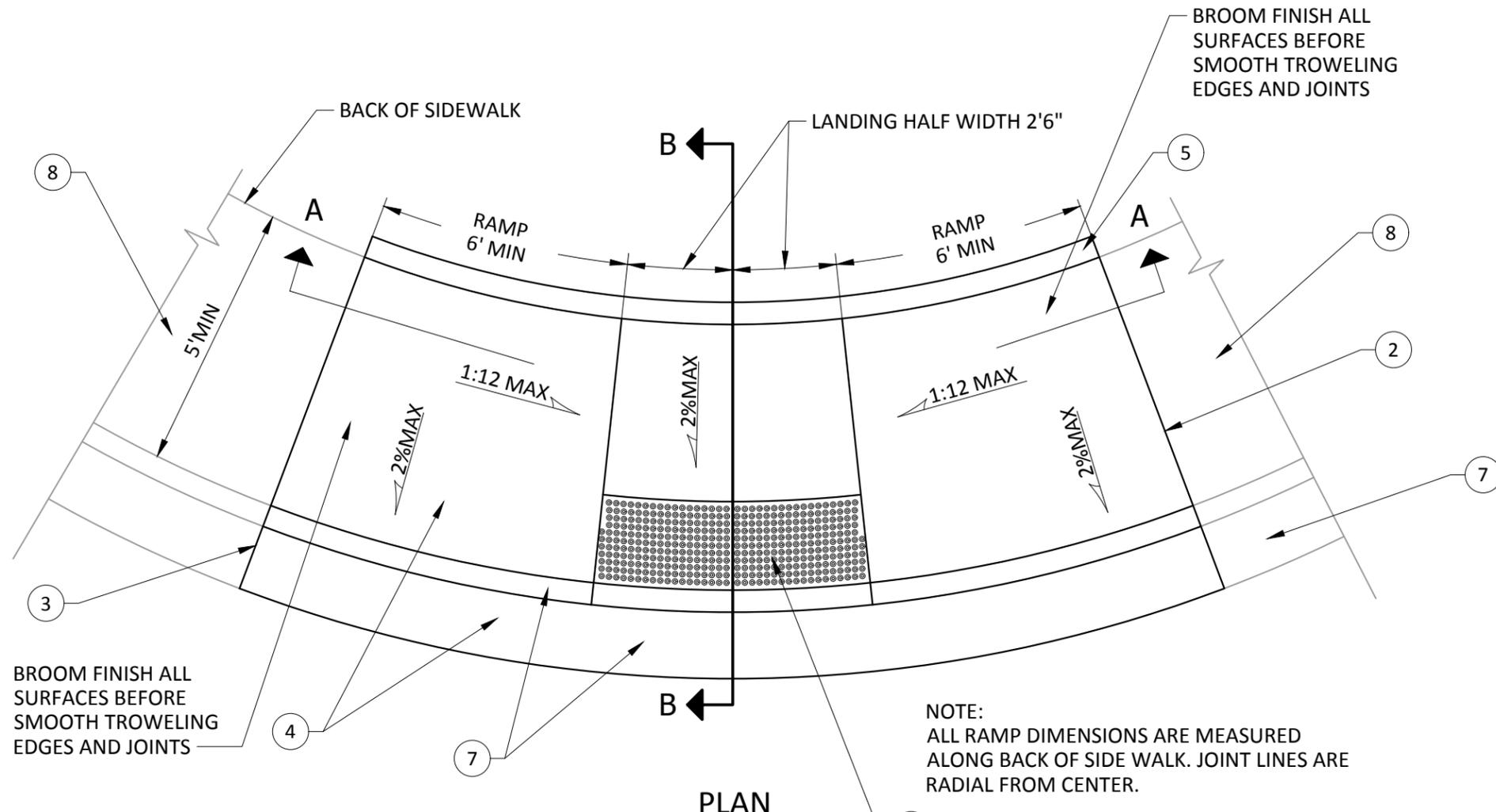
- # **NOTES**
- 1 DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW IN COMPLIANCE WITH WSDOT/APWA STANDARD SPEC SECTION 8-14.3(3).
  - 2 CURB RAMPS SHALL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED FROM ADJACENT SIDEWALK BY A 3/8" FULL DEPTH EXPANSION JOINT.
  - 3 GUTTER SECTION AT CURB RAMP SHALL NOT BE POURED INTERGAL WITH ADJACENT GUTTER SECTIONS AND SHALL BE ISOLATED BY A 3/8" FULL DEPTH EXPANSION JOINT.
  - 4 CURB RAMP AND GUTTER SECTION AT CURB RAMP MAY BE POURED AS AN INTERGAL SECTION.
  - 5 TYPE A-1 INTEGRAL CURB AND GUTTER PER CITY STD DWG 305A.
  - 6 FOR RETROFIT INSTALLATION SAWCUT AND REMOVE EXISTING SIDEWALK, CURB AND GUTTER SECTION ALONG NEW EXPANSION JOINT LOCATION. SAWCUT EXISTING PAVEMENT AS REQUIRED FOR FORMING OF NEW CURB AND GUTTER. PATCH PAVEMENT AS REQUIRED.
  - 7 FLUSH WITH GUTTER (NO LIP PERMITTED)
  - 8 A MIN OF 4' OF THE RAMP WIDTH MUST FALL WITHIN THE CROSS WALK SERVED BY THE RAMP.
  - 9 THICKEN EDGE TO FULL DEPTH OF ADJACENT CURB SECTION.

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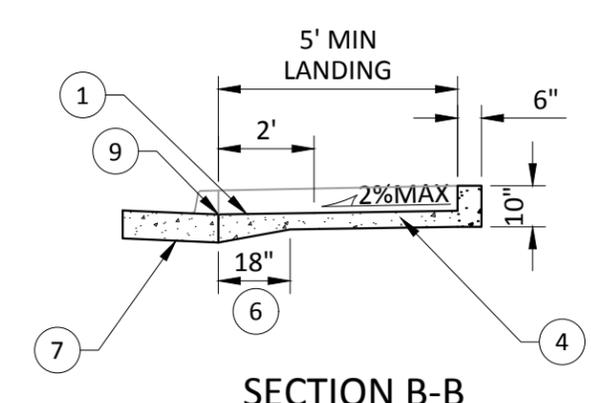
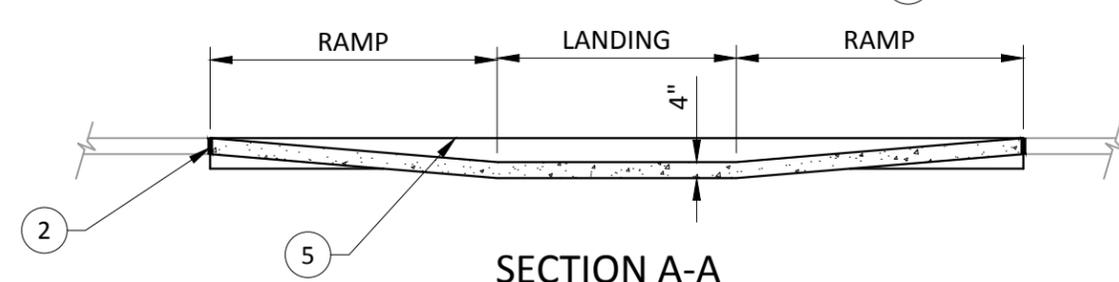
**CITY OF EVERETT**  
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date <b>12/30/2016</b>
TITLE <b>TYPE C CURB RAMP</b>				STANDARD DRAWING No. <b>320</b>

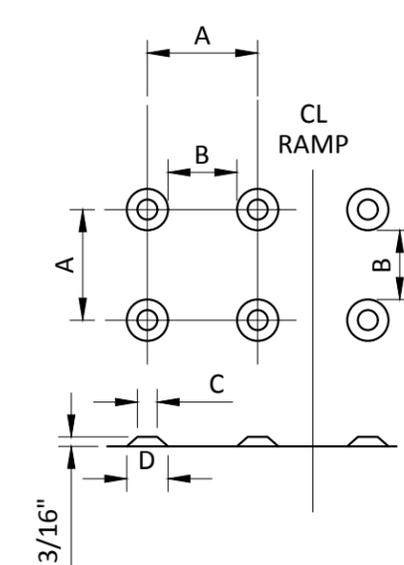
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**PLAN**



	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



**DETECTABLE WARNING PATTERN**

**NOTES**

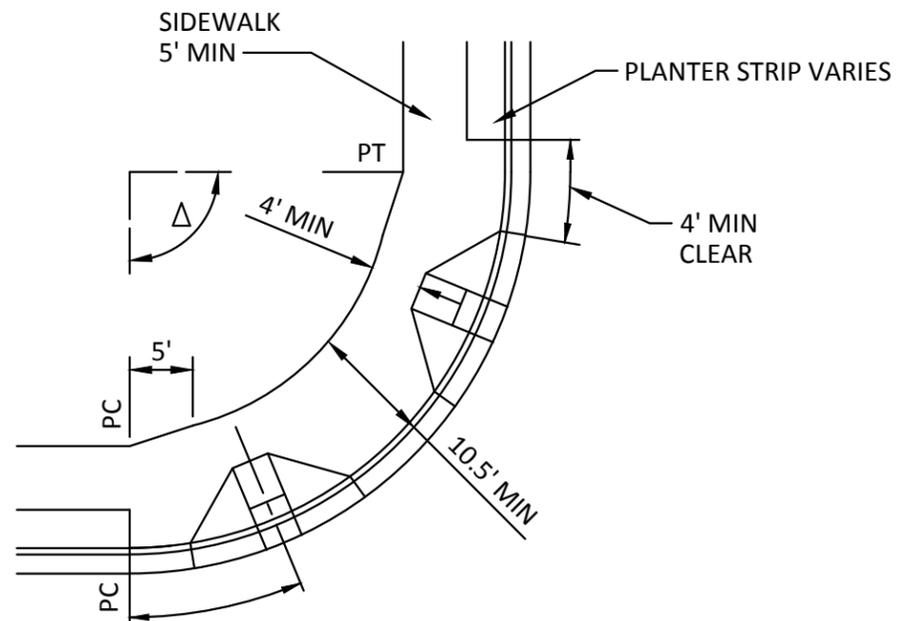
- 1 DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW IN COMPLIANCE WITH WSDOT/APWA STANDARD SPEC SECTION 8-14.3(3).
- 2 CURB RAMPS SHALL NOT BE POURED INTEGRAL WITH SIDEWALK AND SHALL BE ISOLATED FROM ADJACENT SIDEWALK BY A 3/8" FULL DEPTH EXPANSION JOINT.
- 3 GUTTER SECTION AT CURB RAMP SHALL NOT BE POURED INTERGAL WITH ADJACENT GUTTER SECTIONS AND SHALL BE ISOLATED BY A 3/8" FULL DEPTH EXPANSION JOINT.
- 4 CURB RAMP AND GUTTER SECTION AT CURB RAMP MAY BE POURED AS AN INTERGAL SECTION.
- 5 6"W X 10"H X 17'/18'L POURED IN PLACE CONCRETE CURB. INTERGAL WITH RAMP.
- 6 THICKEN EDGE TO FULL DEPTH OF ADJACENT CURB SECTION.
- 7 TYPE A-1 INTEGRAL CURB AND GUTTER PER CITY STD DWG 305A.
- 8 FOR RETROFIT INSTALLATION SAWCUT AND REMOVE EXISTING SIDEWALK TO FIRST EXISTING JOINT EITHER SIDE OF NEW RAMP. SAWCUT AND REMOVE EXISTING CURB AND GUTTER SECTION AS REQUIRED. SAWCUT EXISTING PAVEMENT AS REQUIRED FOR FORMING OF NEW CURB AND GUTTER. PATCH PAVEMENT AS REQUIRED.
- 9 FLUSH WITH GUTTER (NO LIP PERMITTED)

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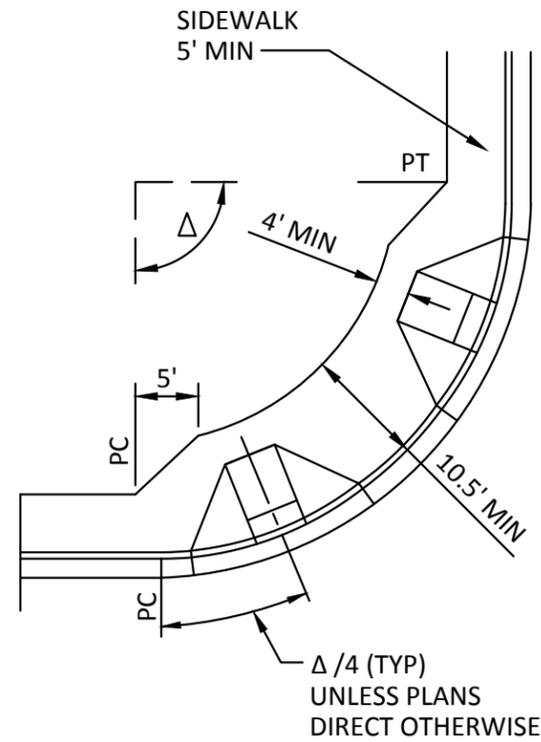
**CITY OF EVERETT**  
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE			Current Rev Date <b>12/30/2016</b>
<b>TYPE D CURB RAMP</b>			STANDARD DRAWING No. <b>321</b>

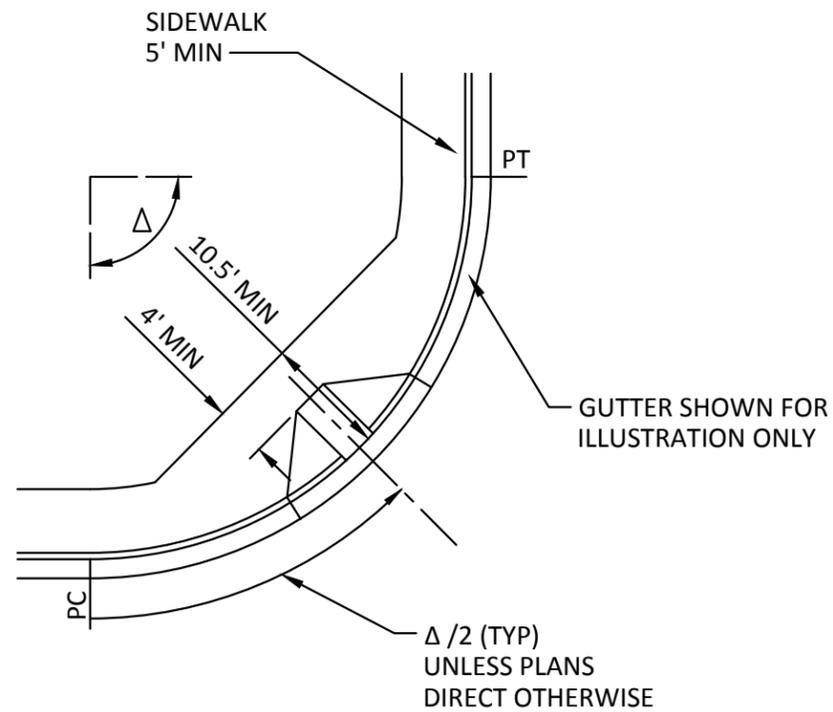
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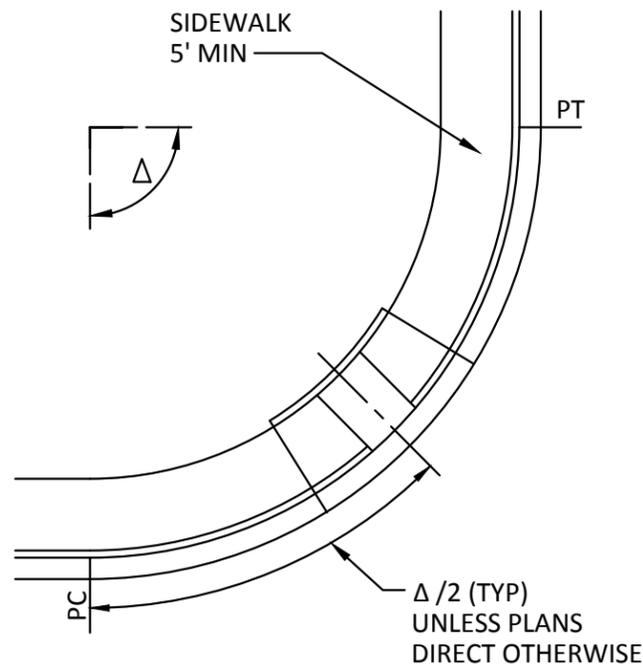
**ALTERNATE "A"**



**ALTERNATE "B"**



**ALTERNATE "C"**



**ALTERNATE "D"**

**NOTES**

1. ALTERNATES "A" & "B" FOR USE AT ARTERIAL/ARTERIAL AND ARTERIAL/LOCAL ACCESS INTERSECTIONS.
2. ALTERNATES "C" & "D" FOR USE AT LOCAL ACCESS/LOCAL ACCESS INTERSECTIONS OR AS APPROVED BY CITY ENGINEER.
3. FOR ALTERNATE "A", "B" AND "C" USE CURB RAMP PER STD DWGS 306A AND 310B.
4. FOR ALTERNATE "D" USE CURB RAMP PER STD DWGS 306A AND 310D.
5. THE USE OF ALTERNATE "C" & "D" SHALL NOT DIRECT THE WHEEL CHAIR INTO A THROUGH TRAFFIC LANE. USE OF ALTERNATE "A" & "B" MAY BE NECESSARY TO ACCOMPLISH THIS.
6. THE USE OF ALTERNATE "C" & "D" SHALL NOT DIRECT THE WHEEL CHAIR INTO A THROUGH TRAFFIC LANE. USE ALTERNATE "A" OR "B" MAY BE NECESSARY TO ACCOMPLISH THIS.

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 12/30/2016 9:40 AM



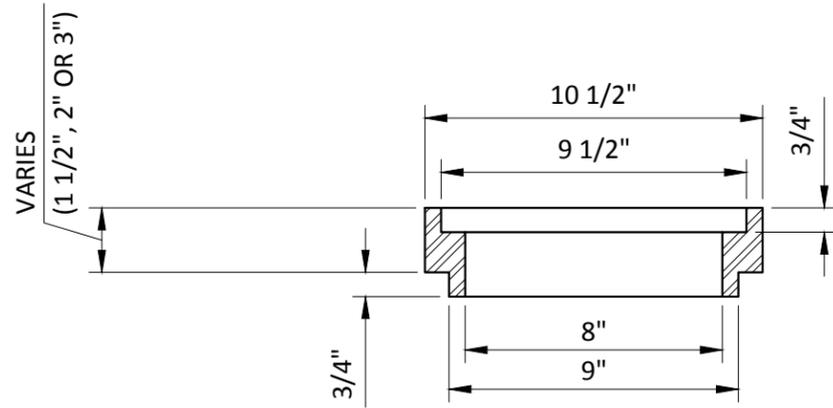
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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TITLE  
**TYPICAL CURB RAMP LOCATIONS**

STANDARD DRAWING No.

**322**

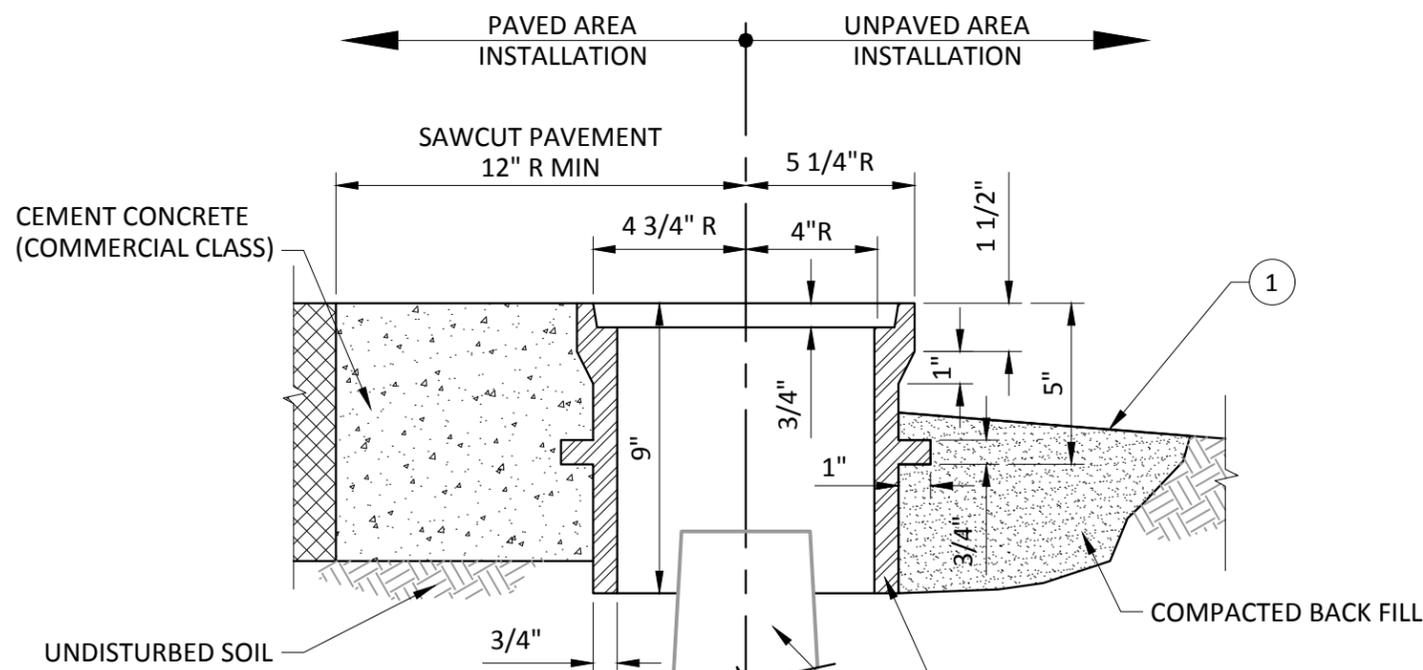
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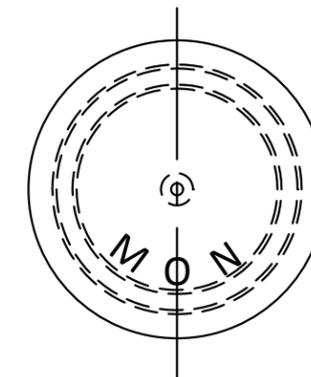
**EXTENSION SECTION**

**NOTES**

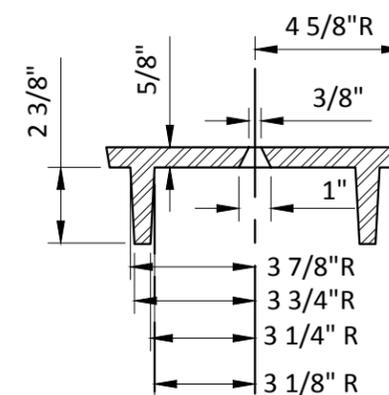
1. MONUMENTS IN UN-IMPROVED AREAS SHALL BE 3" ABOVE GRADE.
2. MONUMENT CASE AND RISER SECTION SHALL BE CAST IRON PER ASTM-A48, CLASS 30, WITH BITUMINOUS COATING.
3. COVER SHALL BE CAST IRON PER ASTM-A48 CLASS 30. WITH BITUMINOUS COATING.
4. LEGEND ON COVER SHALL BE 1/8" RAISED INTEGRALLY CAST LETTERS 1" HIGH WITH A MIN FACE WIDTH OF 3/16".



**CASE SECTION**



**COVER PLAN**



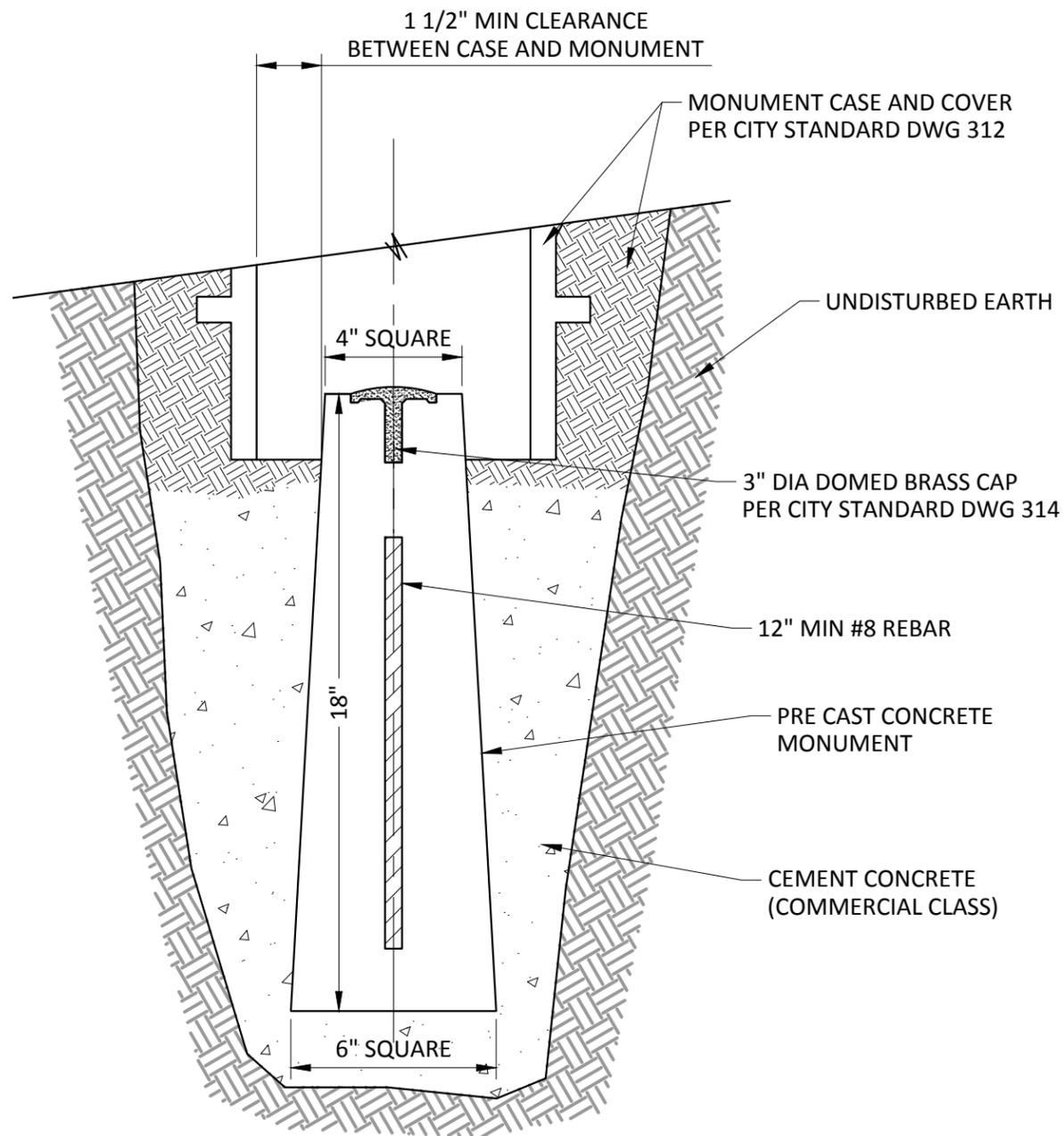
**COVER SECTION**

MONUMENT CASE  
 EXISTING MONUMENT OR  
 NEW MONUMENT SET BY  
 PLANS PER CITY OF EVERETT  
 STANDARD DRAWING 313  
 CENTER MONUMENT CASE  
 MONUMENT CENTERLINE

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 12/30/2016 9:40 AM

**DRAFT**

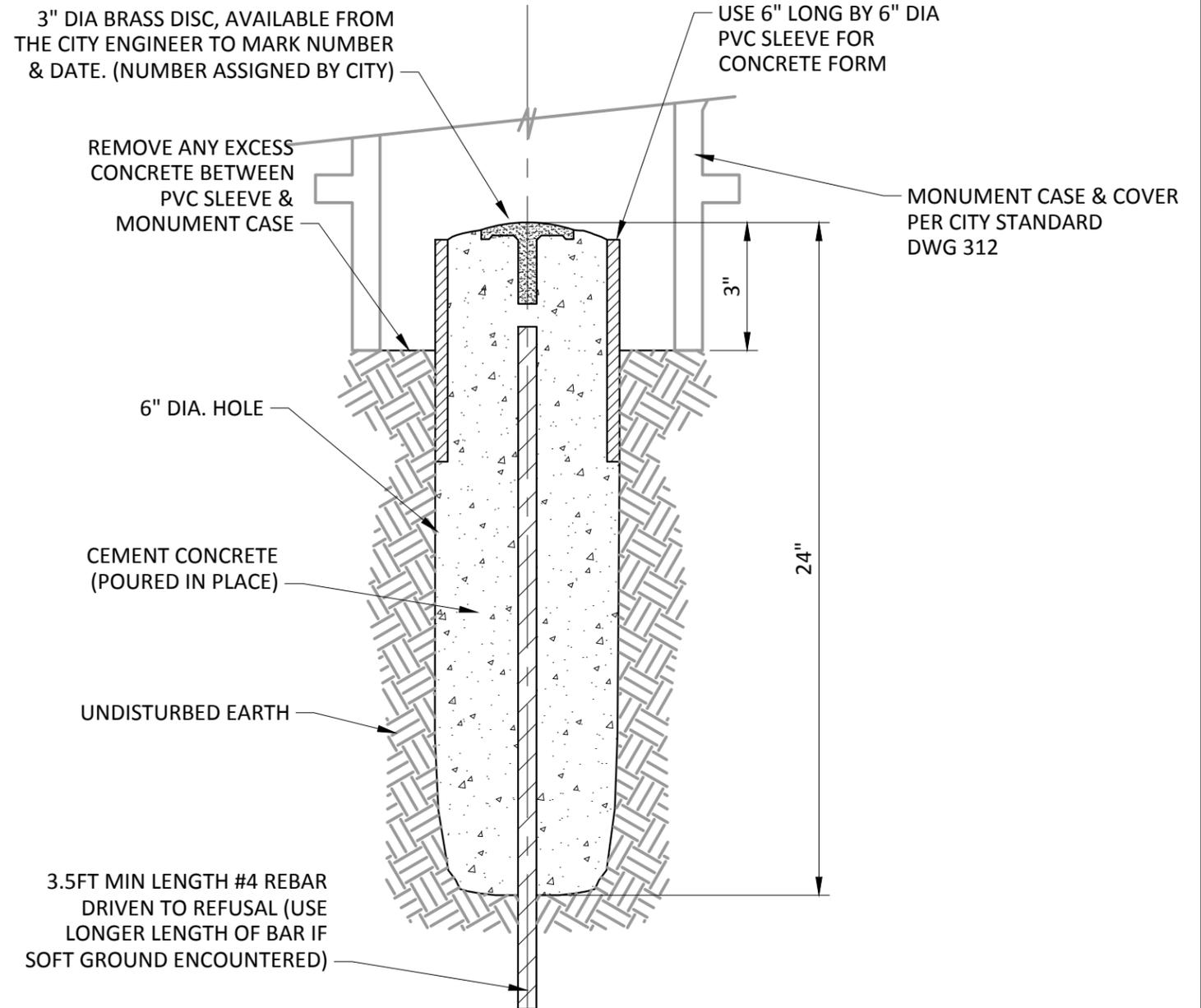
		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE <b>MONUMENT CASE &amp; COVER          DESCRIPTION &amp; INSTALLATION</b>			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>323</b>



**PRECAST MONUMENT SECTION**

**NOTE**

ALL NEW MONUMENTS SHALL BE PRECAST OR CAST IN PLACE COMMERCIAL CLASS CONC, WITH REBAR AND 3" DIA BRASS CAP.



**CAST IN PLACE MONUMENT SECTION**

**NOTE**

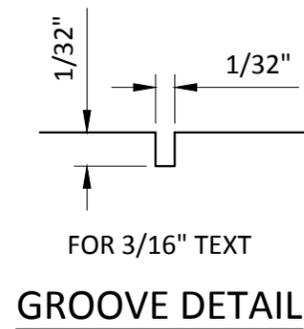
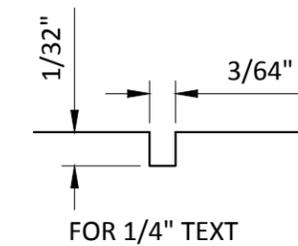
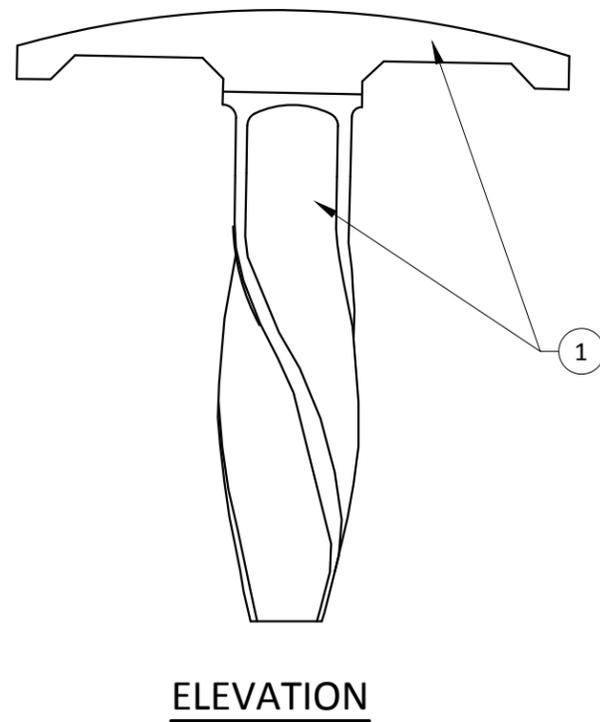
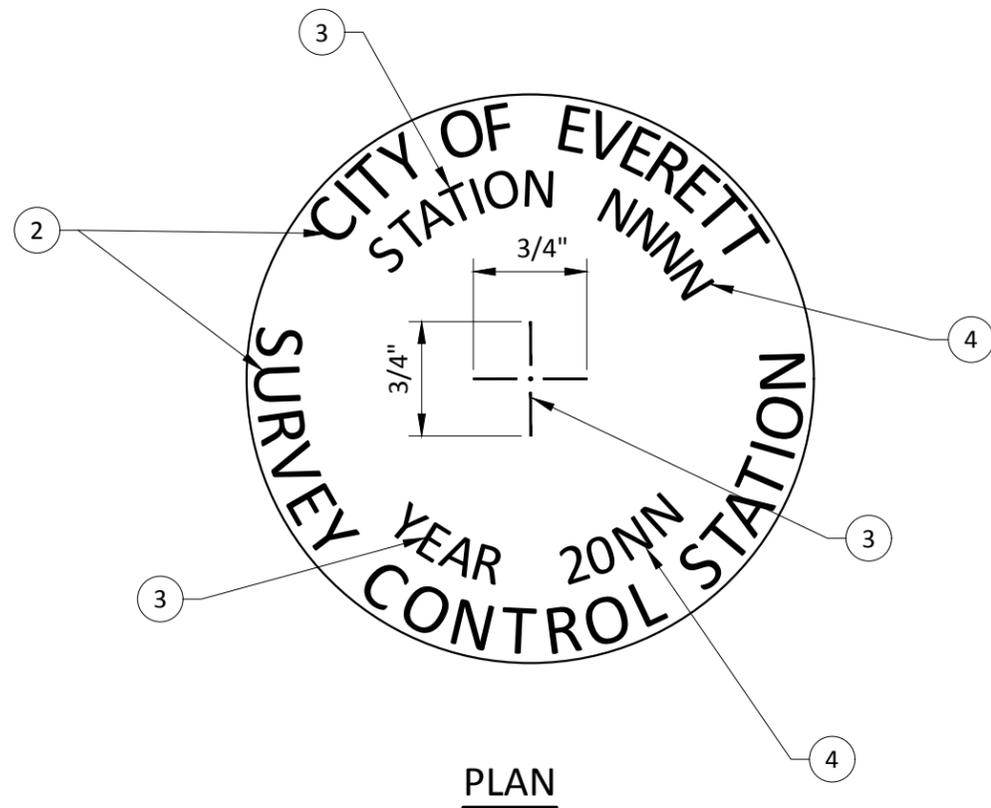
THIS MONUMENT SHALL BE USED ONLY FOR CONTROL MONUMENTATION SURVEYS AT LOCATIONS AS APPROVED BY THE CITY ENGINEER.



ORIENTATE BRASS CAP SO LETTERING CAN BE READ FROM SOUTH

**DRAFT**

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE			Current Rev Date 12/30/2016
<b>SURVEY CONTROL MONUMENTS</b>			STANDARD DRAWING No. <b>324</b>

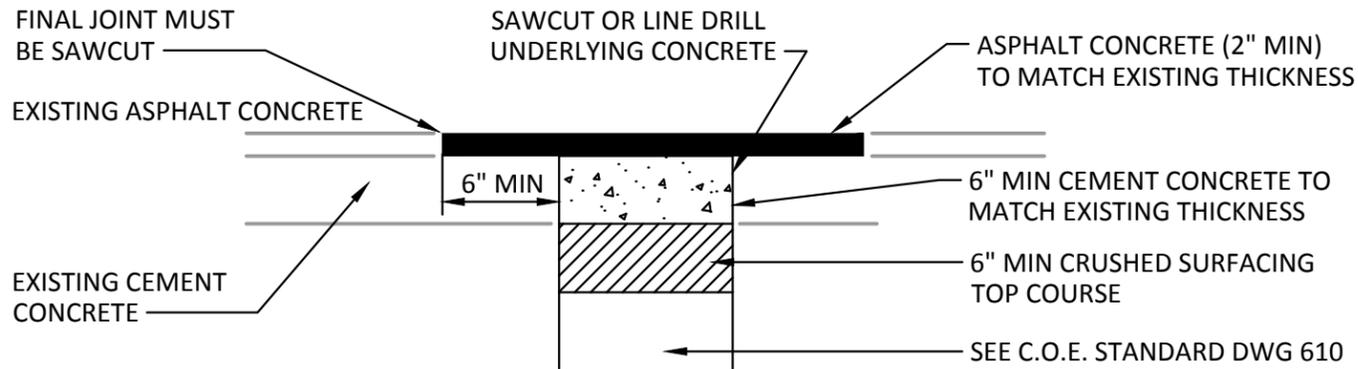


## NOTES

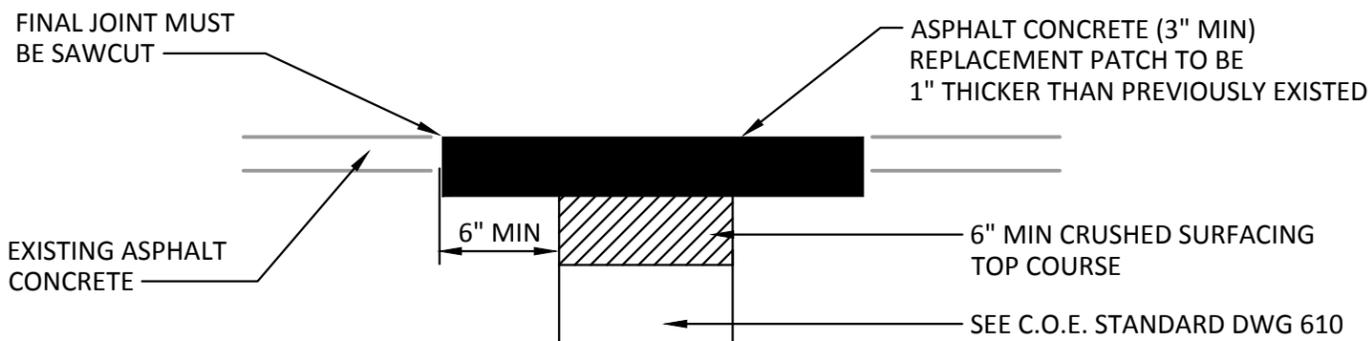
1. DIMENSIONS OF CASTING BASE & CAP PER WSDOT/APWA STANDARD PLAN H-6.
2. GROOVE FOR 1/4" HIGH CAST LETTERING ON CAP SHALL BE 1/32 IN DEEP BY 3/64 IN WIDE.
3. GROOVE FOR 3/16" HIGH CAST LETTERING AND LINES ON CAP SHALL BE 1/32 IN DEEP BY 1/32 IN WIDE.
4. FIELD STAMPED "STATIONING" AND "YEAR" NUMBERS SHALL BE OF SUFFICIENT DEPTH AND WIDTH SO AS TO BE CLEARLY READABLE AND SHALL BE A MIN. OF 3/16 IN. HIGH.
5. THIS BRASS DISC SHALL ONLY BE USED FOR CONTROL MONUMENTATION PER STD DWG 314 AND AS DIRECTED BY THE CITY SURVEYOR. BRASS DISC AND STATION NO SHALL BE SUPPLIED BY CITY SURVEYOR.

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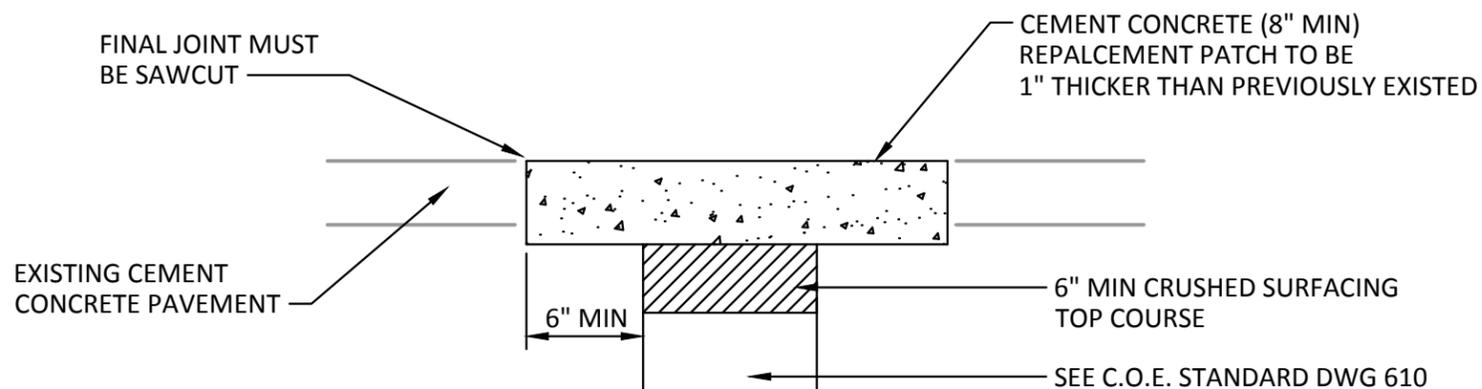
<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>		City Engineer	Section Manager	CAD Manager	Drawn By	Current Rev Date	
		TITLE	STANDARD DRAWING No.	RYAN SASS	TOM HOOD	PAUL WILHELM	WRB
<b>DRAFT</b>						Survey Control Monuments	325



**EXISTING ASPHALT CONCRETE OVER CEMENT CONCRETE**



**EXISTING ASPHALT CONCRETE OVER PREPARED GRADE**



**EXISTING CEMENT CONCRETE OVER PREPARED GRADE**

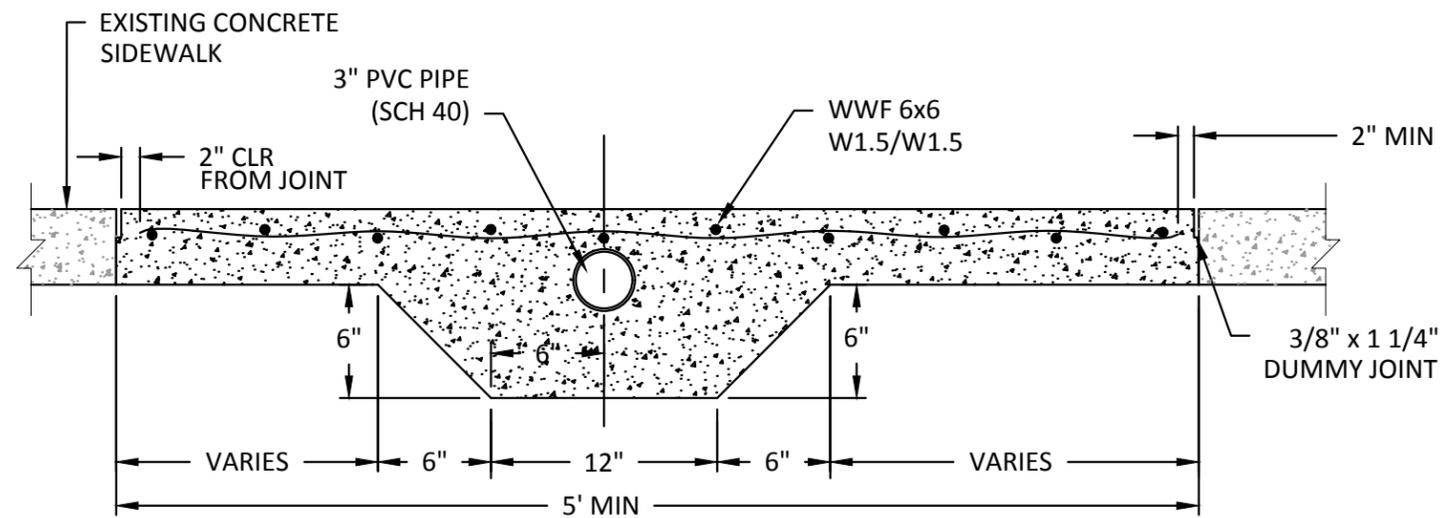
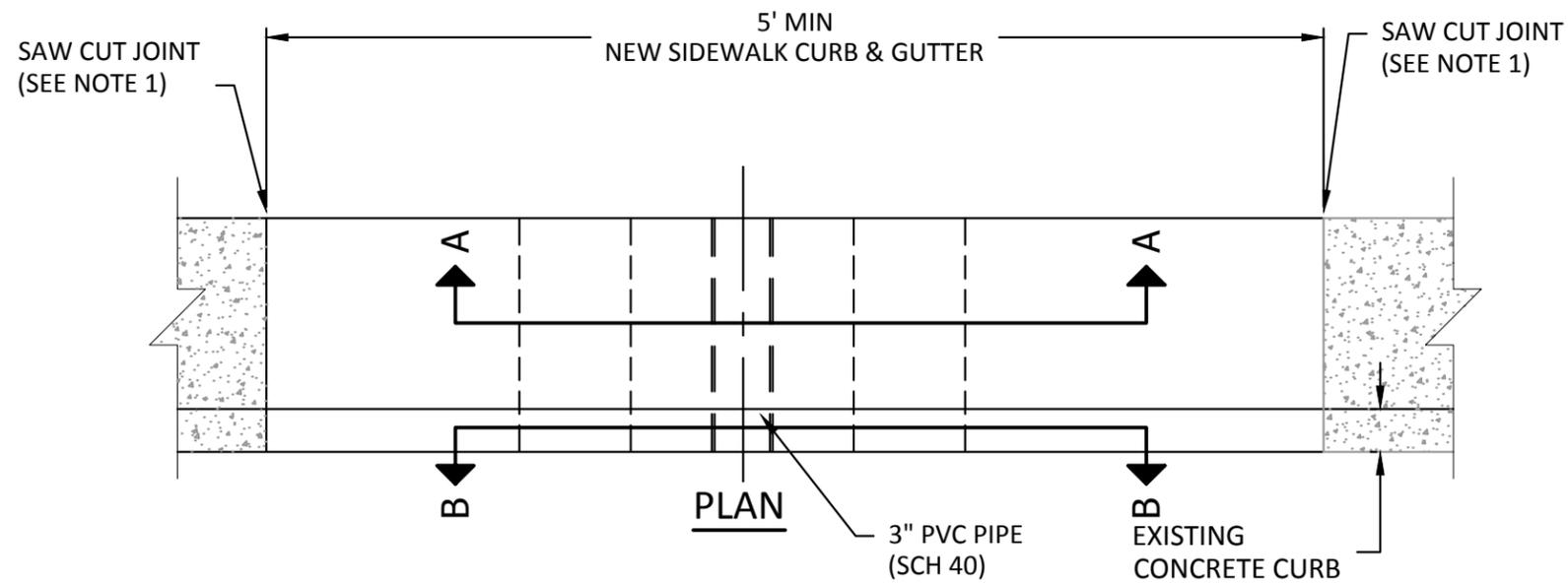
**NOTES**

1. ALL TRENCHES IN ROADWAY AREAS SHALL BE BACKFILLED AND PATCHED WITH TEMPORARY ASPHALT AT THE END OF EACH WORK DAY, UNLESS PERMISSION IS GRANTED TO DO OTHERWISE BY THE CITY ENGINEER.
2. ALL TEMPORARY PATCHES ON TRENCHES SHALL BE PERMANENTLY PATCHED WITHIN 2 WEEKS OF COMPLETION OF WORK WITHIN ROADWAY AREA.
3. CEMENT CONCRETE FOR PATCHING SHALL BE COMMERCIAL MIX AS CALLED OUT IN WSDOT STD SPECS.

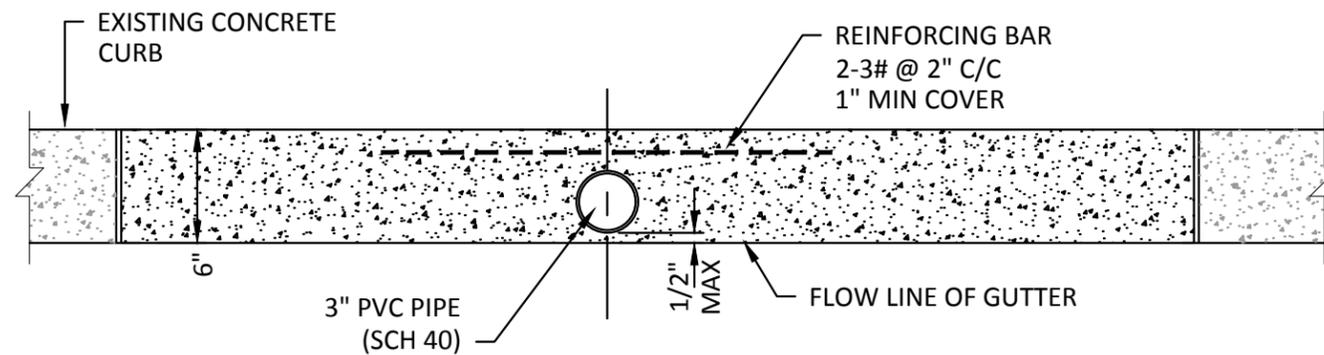
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 <b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>				
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE PAVEMENT PATCHING DETAILS				STANDARD DRAWING No. 326

**DRAFT**



**SIDEWALK SECTION A-A**



**CURB SECTION B-B**

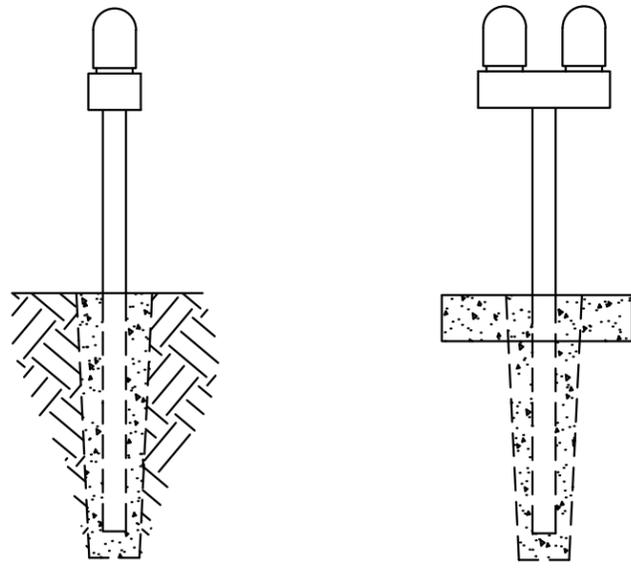
**NOTES**

1. SIDEWALK AND CURBING MUST BE SAW-CUT AT A DUMMY JOINT OR FULL EXPANSION JOINT.
2. FULL DEPTH OF CURB AND GUTTER MUST BE REMOVED AND REPLACED.
3. ALL NEW CURB, GUTTER AND SIDEWALK SHALL BE CLASS 3000 CEMENT CONCRETE.

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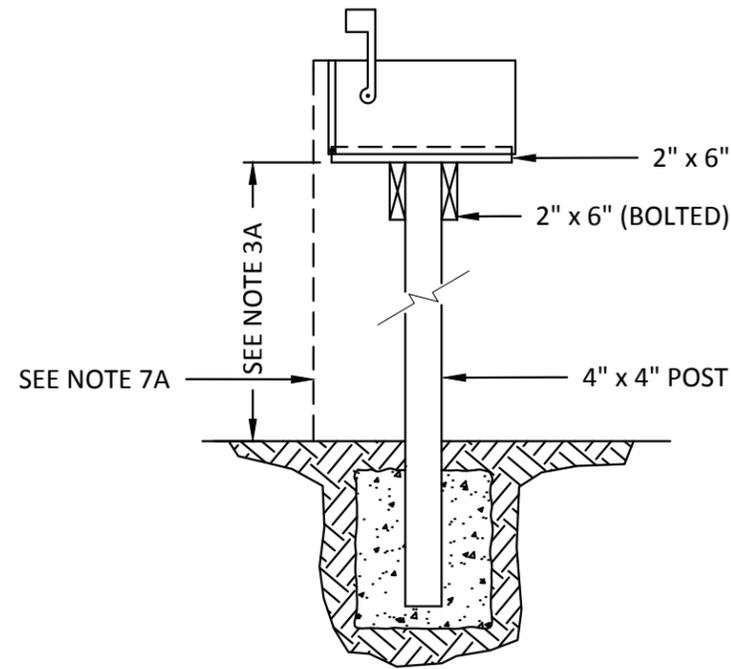
		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE			Current Rev Date <b>12/30/2016</b>
RESIDENTIAL SIDEWALK DRAIN			STANDARD DRAWING No. <b>327</b>



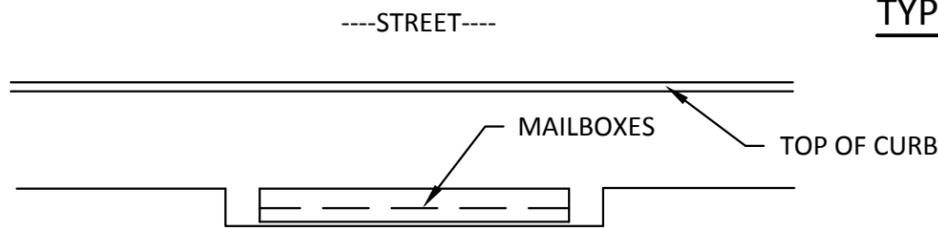
SINGLE

DOUBLE

**TYPICAL CONFIGURATIONS**

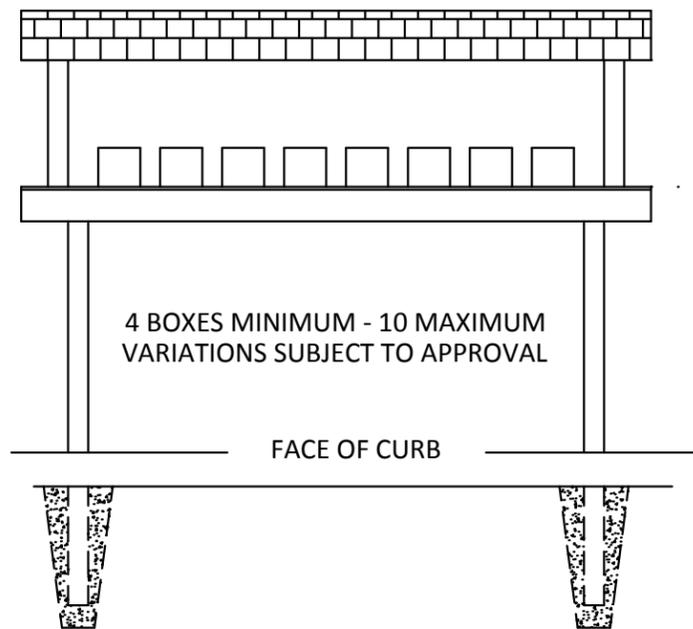


**TYPICAL SECTION**

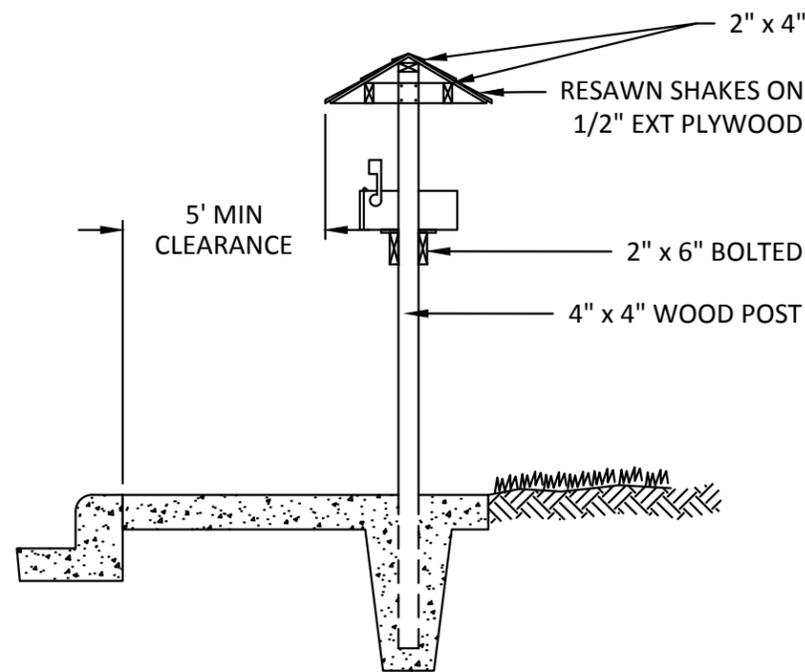


**PLAN**

COVER GABLE ENDS WITH 1/2" EXT. PLYWOOD TRIANGLE 27"x 16"x 16"



**ELEVATION FROM STREET**



**STANDARD CURB**

**NOTES (1 OR 2 MAILBOXES)**

1. FOR 1 OR 2 MAILBOXES PER STRUCTURE USE SINGLE 4"x4" POST.
2. ALL WOOD TO BE PRESSURE TREATED FIR OR HEMLOCK.
- 3A. MAILBOX HEIGHT VARIES ACCORDING TO THE TYPE OF DELIVERY VEHICLE. WHERE MAIL DELIVERY IS ACCOMPLISHED BY MAIL TRUCKS ("MOUNTED" ROUTES) THE MAILBOX HEIGHTS SHALL BE 44". WHERE MAIL DELIVERY IS ACCOMPLISHED BY PASSENGER VEHICLE ("RURAL" ROUTES) THE MAILBOX HEIGHT SHALL BE 36" TO 38".
4. MAILBOXES MUST BE POSTMASTER APPROVED WITH A UNIFORM BOX STYLE AND METHOD OF ADDRESS IDENTIFICATION.
5. LOCATIONS OF MAILBOXES ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER FOR PROTECTION OF VIEWS AND ACCESS.
6. THIS DRAWING DEPICTS A MINIMUM STRUCTURAL AND DIMENSIONAL STANDARD. INNOVATIVE DESIGNS MEETING OR EXCEEDING THIS MINIMUM STANDARD MUST BE APPROVED BY THE CITY ENGINEER.
- 7A. ALL MAILBOX STRUCTURES SHALL BE PLACED BACK OF SIDEWALK WITH NO PORTION OF THE BOX OR STRUCTURE PROTRUDING INTO THE SIDEWALK. IF NO SIDEWALK EXISTS SETBACK WILL BE SET BY THE CITY ENGINEER.

**NOTES (3 OR MORE MAILBOXES)**

1. MAILBOX MUST BE TYPE "APPROVED BY THE POSTMASTER GENERAL" WITH A UNIFORM BOX STYLE AND METHOD OF ADDRESS IDENTIFICATION PER EACH STANDARD.
2. LOCATION IS SUBJECT TO APPROVAL BY THE CITY FOR PROTECTION OF VIEWS AND ACCESS AND IS TO BE SHOWN ON STREET IMPROVEMENT PLANS.
3. THE SKETCH DEPICTS A MINIMUM STRUCTURAL AND DIMENSIONAL STANDARD. INNOVATIVE DESIGNS MEETING THE MINIMUM DIMENSIONAL AND STRUCTURAL REQUIREMENTS ARE ACCEPTABLE.
4. ALL WOOD TO BE PRESSURE TREATED FIR OR HEMLOCK.

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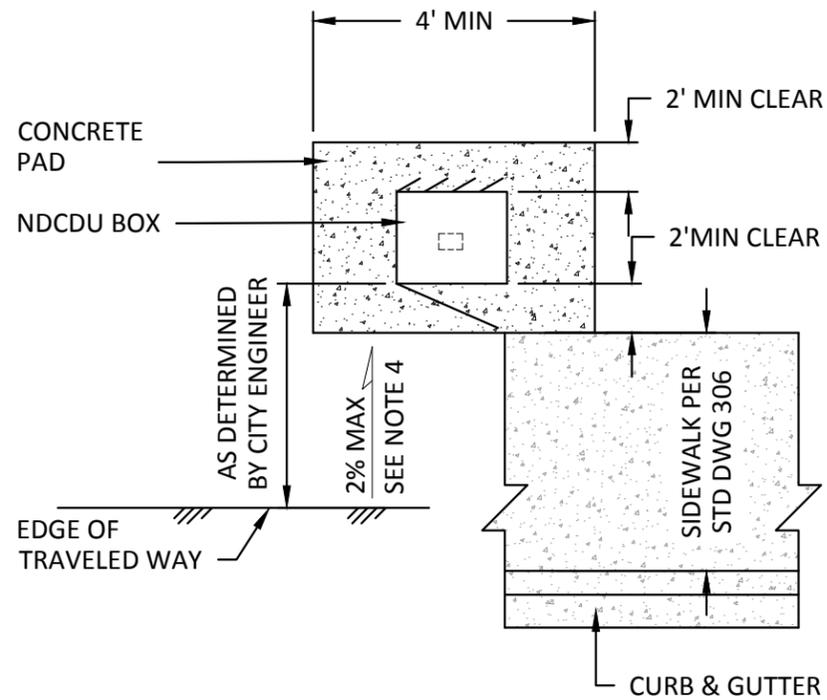


City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
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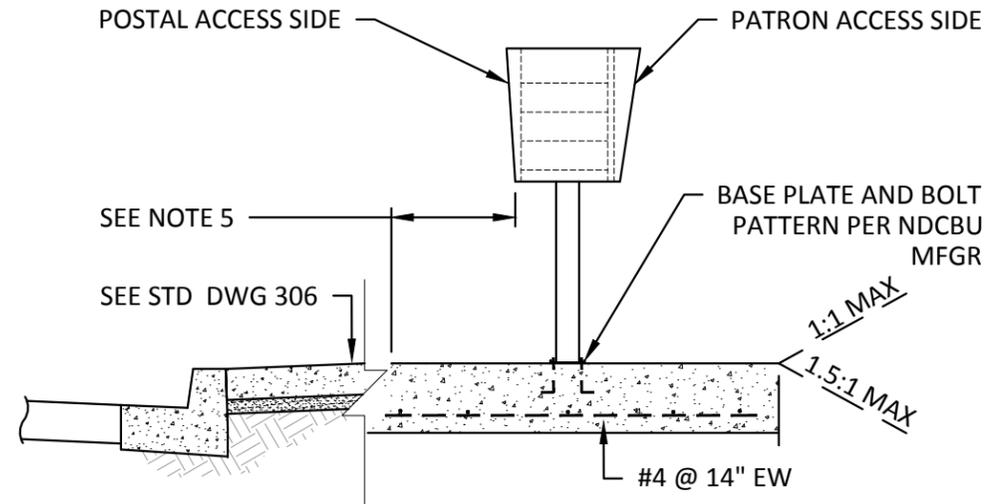
**MAILBOX STRUCTURE INSTALLATION**

328

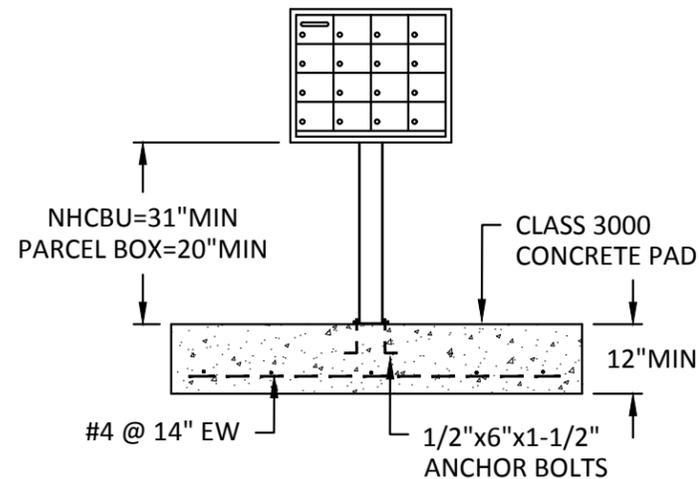
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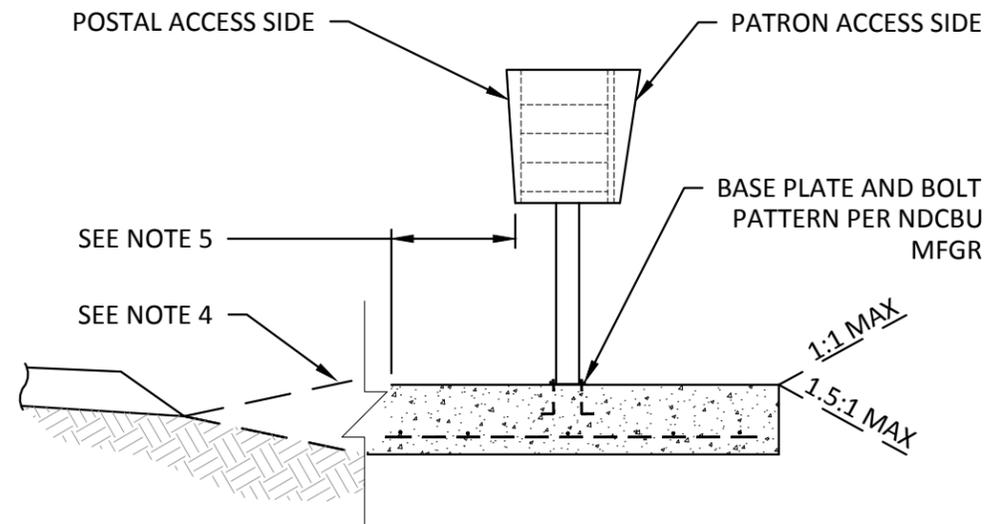
**SETBACK PLAN**



**SIDE ELEVATION WITH SIDEWALK**



**FRONT ELEVATION**



**SIDE ELEVATION WITH OUT SIDEWALK**

**NOTES**

1. THIS DRAWING DEPICTS A MINIMUM STRUCTURAL AND DIMENSIONAL STANDARD FOR NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (NDCBU) AND PADS FOR SPECIFIC POSTAL REQUIREMENTS CONTACT THE POSTMASTER.
2. MAILBOXES MUST BE POSTMASTER APPROVED WITH A UNIFORM BOX STYLE AND METHOD OF ADDRESS IDENTIFICATION.
3. LOCATIONS OF MAILBOXES ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER FOR PROTECTION OF VIEWS AND ACCESS.
4. INSTALLATION OF DRAINAGE CULVERT MAY BE NECESSARY IN AREAS WHERE THERE IS NO CONCRETE SIDEWALK AND THE REQUIRED SETBACK SPANS A ROADSIDE DITCH. ACCESS TO SUCH STRUCTURES WILL HAVE A MAX. SLOPE OF 2%. AND SHALL HAVE A PAD CONSISTING OF A MINIMUM OF 2" OF CRUSHED SURFACING TOP COURSE COMPACTED TO 95% MAXIMUM DENSITY.
5. ALL MAILBOX STRUCTURES SHALL BE PLACED BACK OF SIDEWALK WITH NO PORTION OF BOX OR STRUCTURE PROTRUDING INTO THE SIDEWALK. IF NO SIDEWALK EXISTS SETBACK WILL BE SET BY THE CITY ENGINEER.
6. SUGGESTED SOURCE SECURITY MFG CORP (800) 762-6937, 8000 SERIES PEDESTAL BOXES, SALSBURY INDUSTRIES (800) 323-3003 OR POSTAL APPROVED EQUAL.
7. PLACEMENT LOCATION OF PEDESTAL PARCEL LOCKER WILL BE APPROVED BY THE CITY ENGINEER AND THE POSTAL SERVICE.

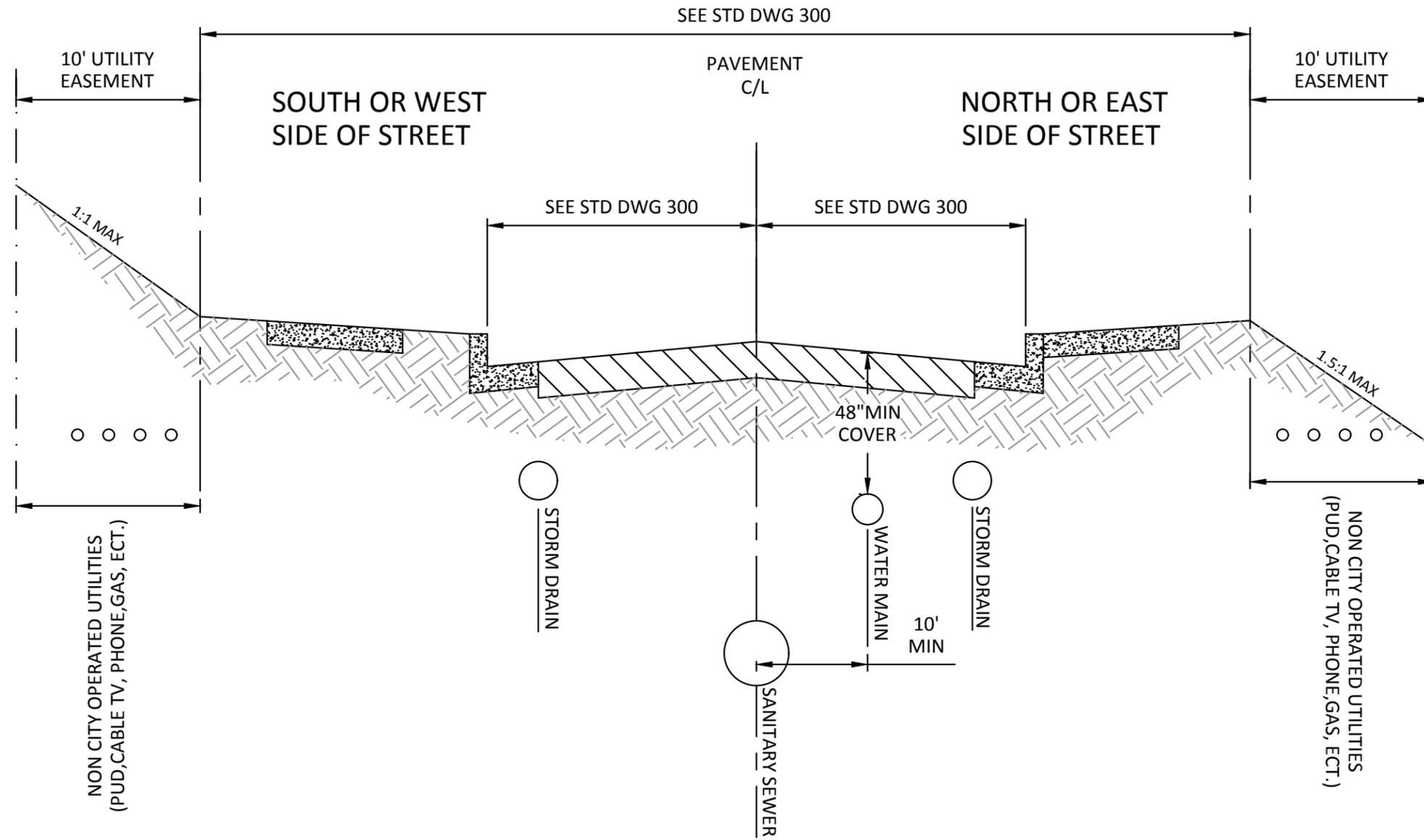
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**DRAFT**

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
TITLE NDCBU MAILBOX CLUSTER				STANDARD DRAWING No. 329

**NOTES**

1. 5' MIN SEPARATION BETWEEN PUBLIC UTILITIES OR FROM PRIVATE UTILITIES.
2. MIN SEPARATION REQUIREMENTS FROM PUBLIC UTILITIES APPLY WITHIN EASEMENTS AND PRIVATE PROPERTY.

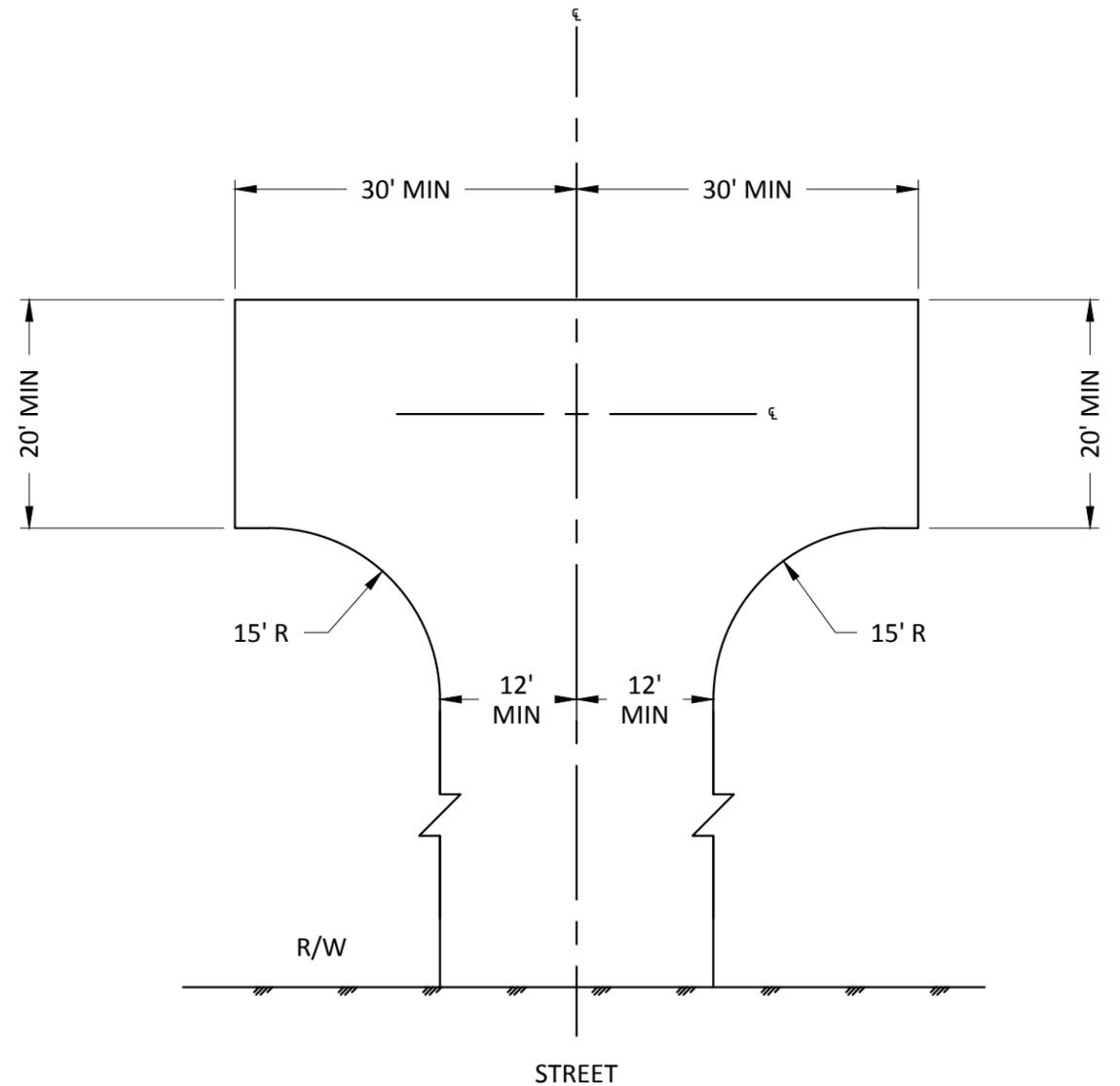
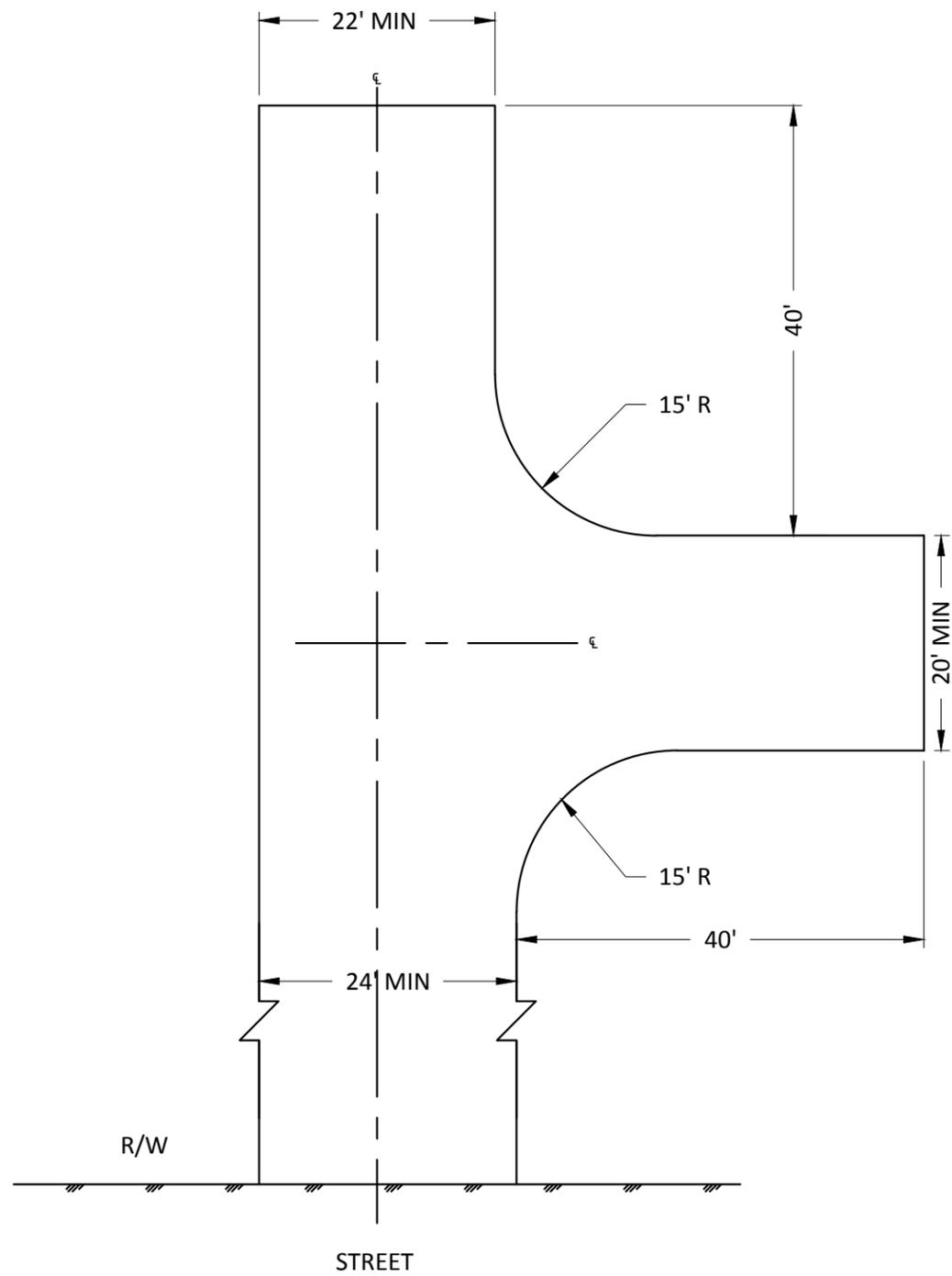


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		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE <b>TYPICAL UTILITY LOCATIONS</b>			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>330</b>

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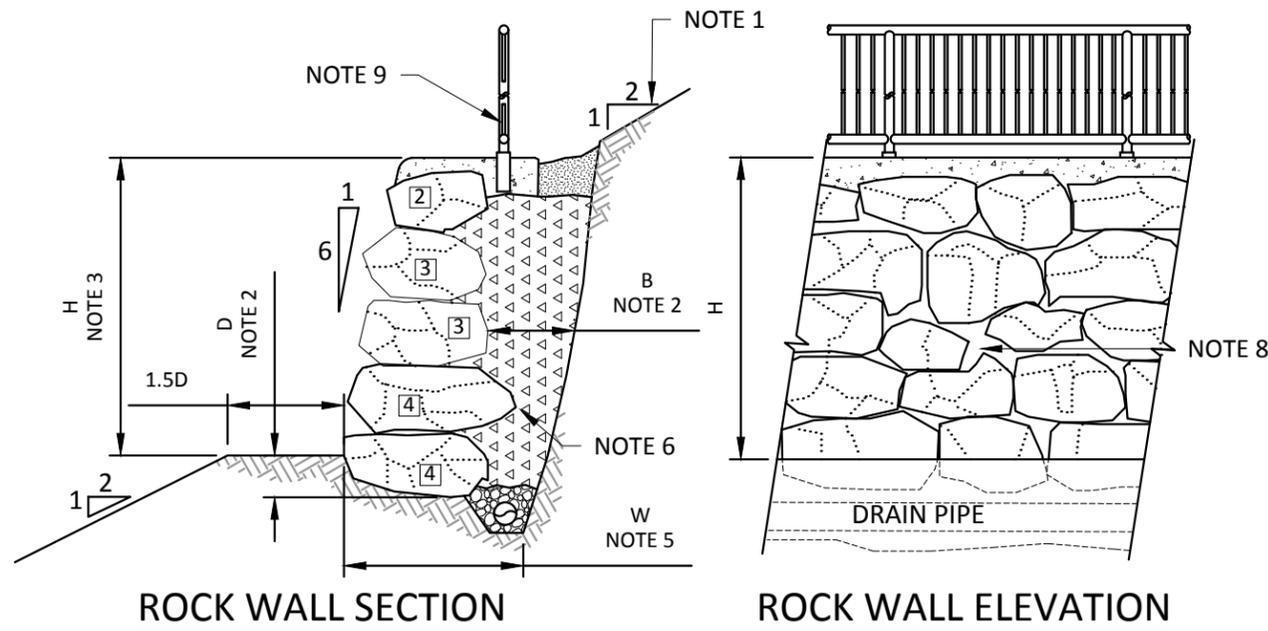


City Engineer RYAN SASS Section Manager TOM HOOD CAD Manager PAUL WILHELM Drawn By ESH Current Rev Date 12/30/2016

TITLE STANDARD DRAWING No.

TEMPORARY TURNAROUNDS 331

**DRAFT**



**LEGEND**

- DRAINAGE MATERIALS TO CONSIST OF CLEAN 4"-2" ANGULAR SPALLS.
- GRADING #57 AGGREGATE PER SECTION 9.03.1(4)C OF WSDOT/APWA STANDARD SPECIFICATION
- CONCRETE ROCKERY CAP. REQUIRED IN R.O.W., OPTIONAL ON PRIVATE PROPERTY.
- UNDISTURBED FIRM NATIVE SOIL
- SEED OR SOD ON 12" OF TOPSOIL WITH UNDERLAYER OF FILTER FABRIC.
- 4 INCH DIAMETER, HDPE OR SDR35 PVC, PERFORATED OR SLOTTED, WITH SMOOTH INTERIOR PIPE. SET SLIGHTLY LOWER THAN THE BASE ROCK TO PREVENT DAMAGE. LAY WITH A POSITIVE SLOPE TO DISCHARGE AWAY FROM ROCKERY.
- DESIGNATES SIZE OF ROCK, I.E. 4 MAN. SEE NOTE 11.

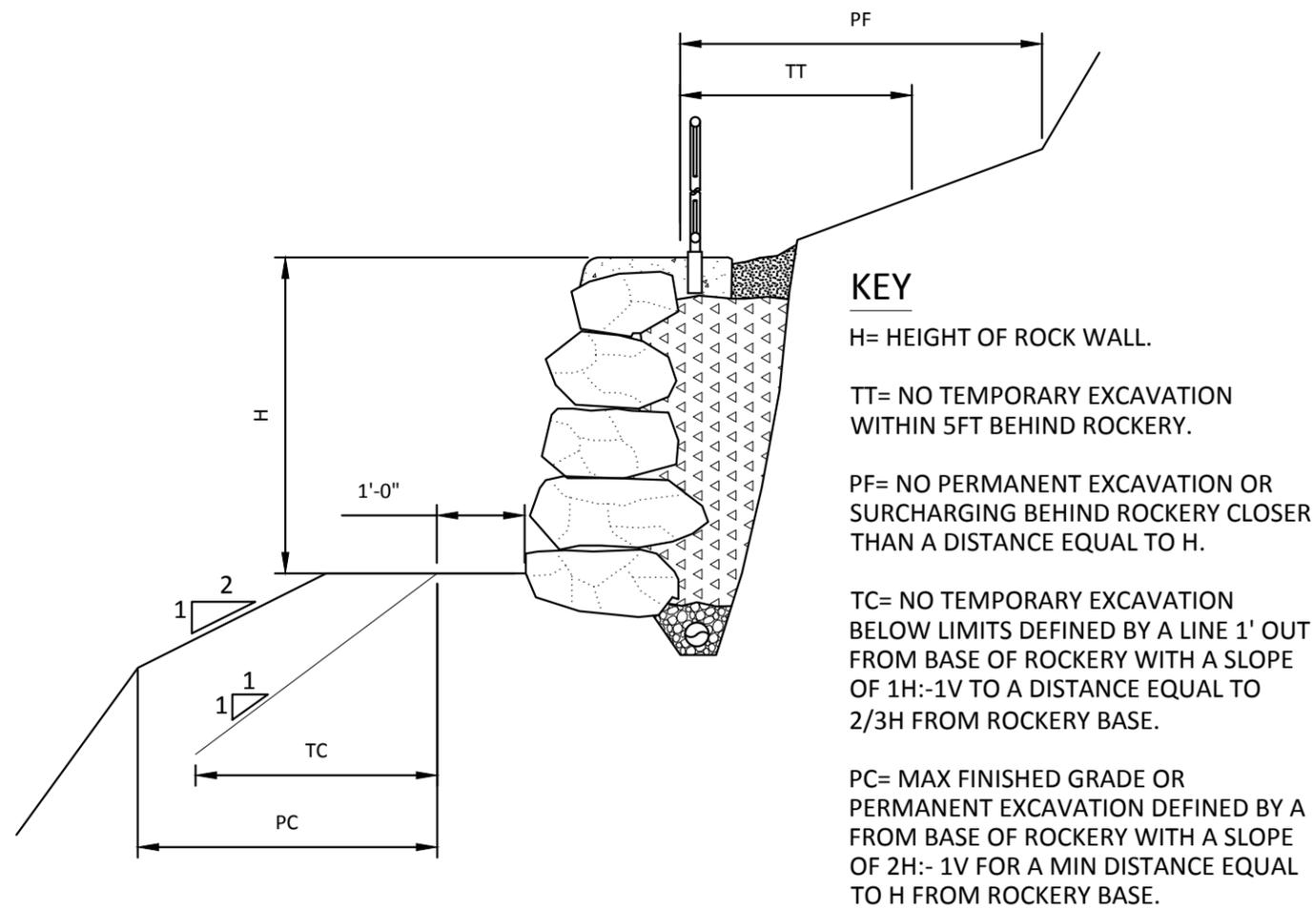
**NOTES**

1. MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCK WALL SHALL BE 2:1 (HORIZONTAL:VERTICAL)
2. MINIMUM THICKNESS OF ROCK FILTER LAYER B=12 INCHES. MINIMUM EMBEDMENT D=12 INCHES.
3. MAXIMUM ROCK WALL HEIGHT H=8 FEET. ROCK WALLS GREATER THAN 8 FEET IN HEIGHT SHALL BE DESIGNED BY A CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
4. ROCK SHALL BE PLACED TO GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
5. MINIMUM WIDTH OF KEYWAY EXCAVATION W, SHALL BE EQUAL TO THE THICKNESS OF THE BASE ROCK PLUS B (ROCK FILTER)
6. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND BACK TOWARDS THE CUT OR FILL FACE TO PROVIDE MAXIMUM STABILITY.
7. WHENEVER POSSIBLE EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.
8. WHERE VOIDS OF GREATER THAN 6 INCHES IN DIMENSIONS EXIST IN THE ROCK FACE AND THERE IS NO ROCK CONTACT WITHIN THE ROCK WALL THICKNESS, THE VOID SHALL BE CHINKED WITH SMALL PIECES OF ROCK.
9. ROCKERIES WHICH ARE MORE THAN 30 INCHES ABOVE GRADE OR FLOOR BELOW SHALL BE PROTECTED BY GUARDRAIL SUCH AS A ORNAMENTAL OR PEDESTRIAN RAIL. TYPE TO BE DETERMINED BY THE CITY ENGINEER, SEE DWGS 325 & 326
10. FOR DESIGN LOCATION AND UNDERGROUND UTILITY LIMITATIONS REFER TO STD DWG 324B.
11. THE DENSITY OF ROCK MATERIAL SHALL BE A MINIMUM OF 155 PCF. THE SIZE CATEGORIES FOR ROCK SHALL BE AS FOLLOWS:

SIZE	APPROXIMATE WEIGHT - LBS	APPROXIMATE DIAMETER-INCHES
1 MAN	50-200	12-18
2 MAN	200-700	18-28
3 MAN	700-2000	28-36
4 MAN	2000-4000	36-48
5 MAN	4000-6000	48-54
6 MAN	6000-8000	54-60

**PLACEMENT NOTES**

1. ALL NEW ROCKERY DESIGN AND PLACEMENT WILL FOLLOW TO CONSTRUCTION LIMITATIONS DESCRIBE ABOVE, AND FOLLOW THE GUIDELINES ESTABLISHED BY THE ASSOCIATED ROCKERY CONTRACTORS "STANDARD ROCK WALL CONSTRUCTION GUIDELINES" DATED 12/2/92 INCLUDING ANY AND ALL REVISIONS.
2. MODIFICATIONS TO OR PLACEMENT OF SUBSEQUENT UNDERGROUND UTILITIES WILL ALSO FOLLOW LIMITATIONS DESCRIBED ABOVE.



**KEY**

- H= HEIGHT OF ROCK WALL.
- TT= NO TEMPORARY EXCAVATION WITHIN 5FT BEHIND ROCKERY.
- PF= NO PERMANENT EXCAVATION OR SURCHARGING BEHIND ROCKERY CLOSER THAN A DISTANCE EQUAL TO H.
- TC= NO TEMPORARY EXCAVATION BELOW LIMITS DEFINED BY A LINE 1' OUT FROM BASE OF ROCKERY WITH A SLOPE OF 1H:-1V TO A DISTANCE EQUAL TO 2/3H FROM ROCKERY BASE.
- PC= MAX FINISHED GRADE OR PERMANENT EXCAVATION DEFINED BY A FROM BASE OF ROCKERY WITH A SLOPE OF 2H:- 1V FOR A MIN DISTANCE EQUAL TO H FROM ROCKERY BASE.

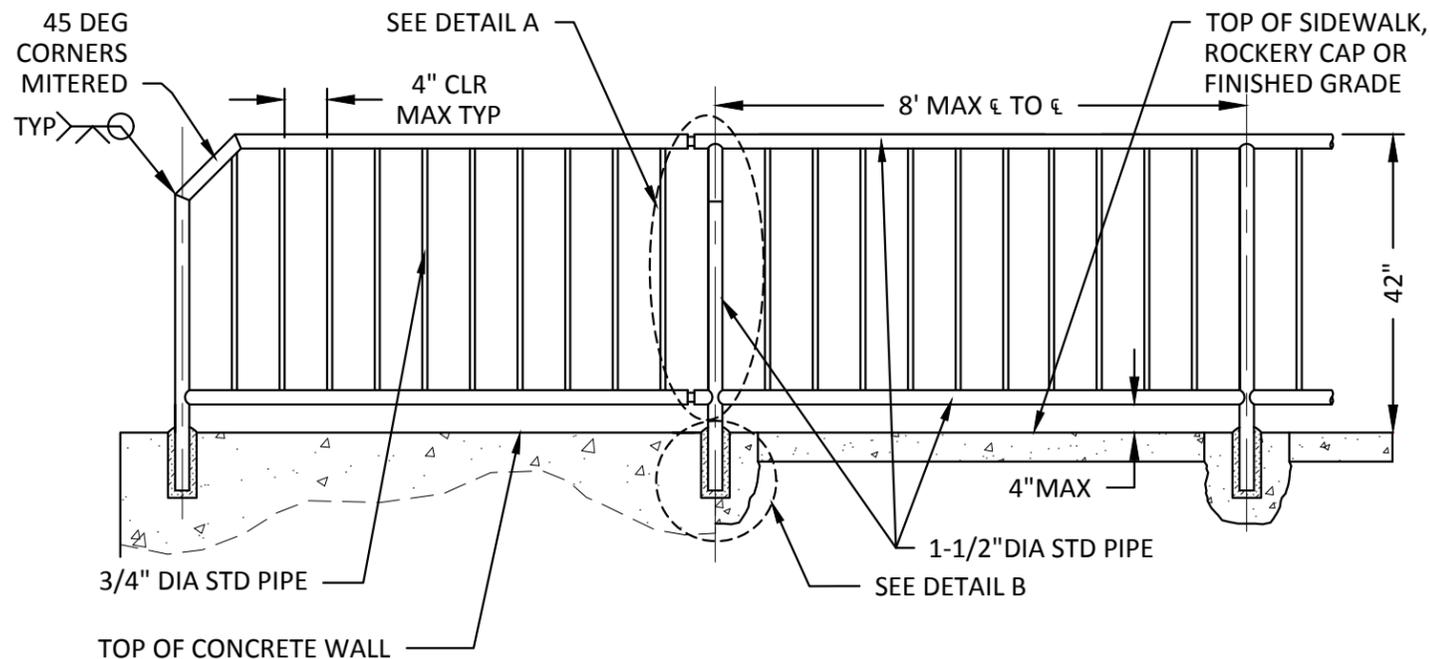
**DESIGN AND POST CONSTRUCTION LIMITATIONS**

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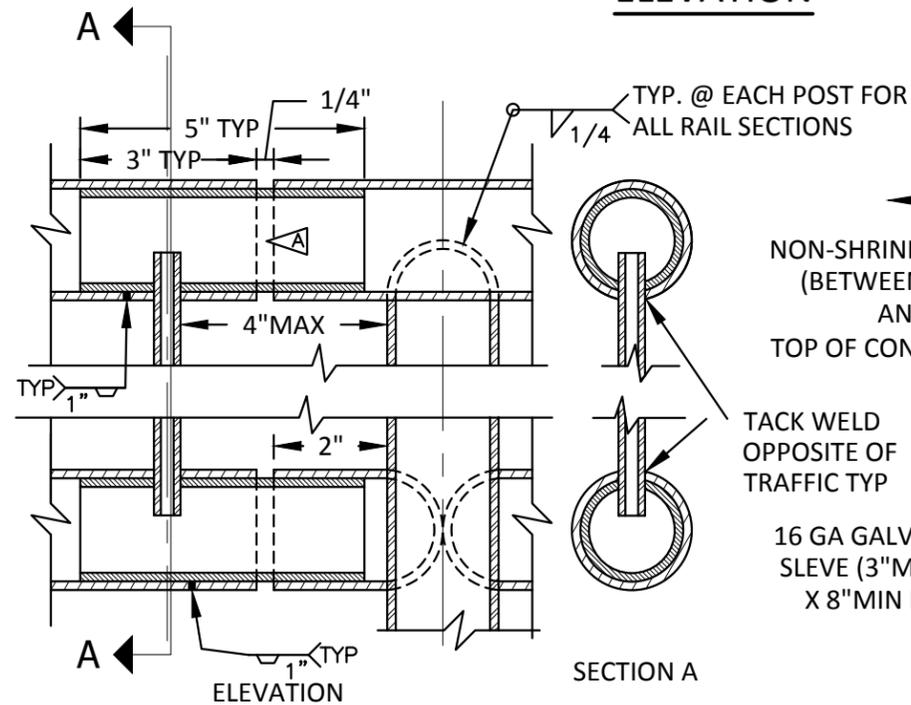


**CITY OF EVERETT**  
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date <b>12/30/2016</b>
<b>ROCKERY</b>				STANDARD DRAWING No.
DESIGN, CONSTRUCTION REQUIREMENTS, PLACEMENT & POST CONSTRUCTION LIMITS				<b>332</b>

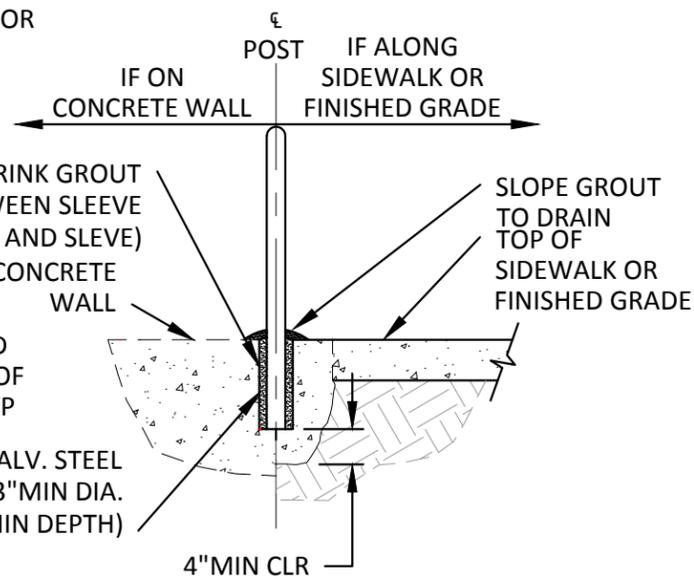


**ELEVATION**



**SLIP JOINT & RAIL CONNECTIONS TO POSTS**

**DETAIL A**



**POST MOUNTING**

**DETAIL B**

**NOTES**

1. MATERIAL FOR PEDESTRIAN HANDRAIL SHALL BE ALUMINUM (ASTM B-429) OR GALVANIZED STEEL (ASTM 120) AS APPROVED BY THE CITY ENGINEER.
2. SEE SHEET 2 OF 2 THIS DRAWING FOR ADDITIONAL FABRICATION AND SPECIFICATION REQUIREMENTS.
3. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS AND AT EVERY 24 FEET ON CENTER MAXIMUM.

**ALUMINUM PEDESTRIAN RAIL NOTES**

1. ALUMINUM PEDESTRIAN RAIL SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS AND THIS DRAWING.
2. ALUMINUM PEDESTRIAN RAIL SHALL BE NATURAL ALUMINUM COLOR.
3. COMPLETED ALUMINUM RAILING UNITS SHALL BE ANODIZED AFTER FABRICATION CONFORMING TO THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION STANDARD FOR ANODIZED ARCHITECTURAL ALUMINUM, CLASS I ANODIC COATING, AA-C22-A41.
4. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR ALUMINUM STRUCTURES" OF THE ALUMINUM ASSOCIATION. ALL EXPOSED WELDS SHALL BE GROUND FLUSH WITH ADJACENT SURFACES.
5. THE BASE METAL FOR ALUMINUM RAILING SHALL BE ASA ALLOY DESIGNATION 6063-T6. PIPE AND TUBING SHALL BE EXTRUDED CONFORMING TO THE REQUIREMENTS OF ASTM B 429, PLATES AND SHEETS SHALL BE ROLLED CONFORMING TO ASTM B 209, AND RODS, BARS OR SHAPES SHALL BE EXTRUDED CONFORMING TO ASTM B 221.
6. HORIZONTAL RAILS AND VERTICAL SUPPORT POSTS SHALL BE 1 1/2 INCH DIAMETER STANDARD ALUMINUM PIPE AND BALUSTERS SHALL BE 3/4 INCH DIAMETER STANDARD ALUMINUM PIPE. RAILS, POSTS, AND BALUSTERS SHALL BE MACHINE CUT TO PROVIDE A UNIFORM LENGTH PRIOR TO ASSEMBLY.
7. RAILING SHALL BE ERECTED AND ADJUSTED, IF NECESSARY, TO ASSURE A CONTINUOUS LINE AND GRADE.

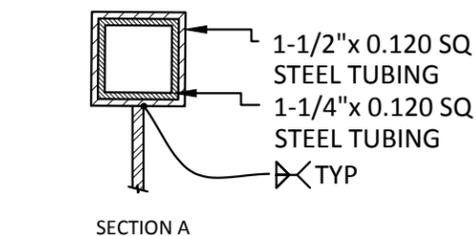
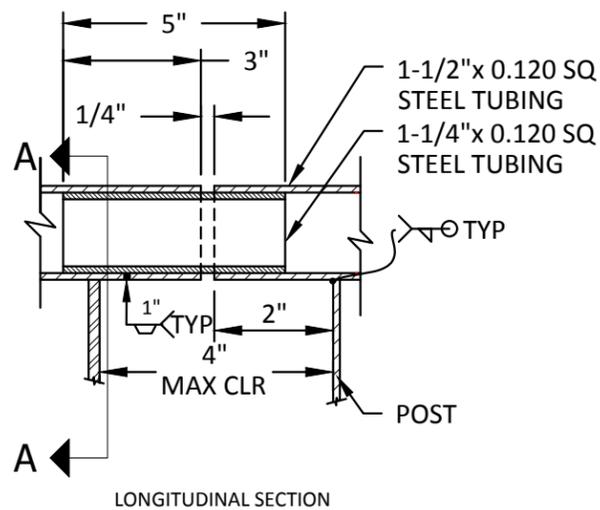
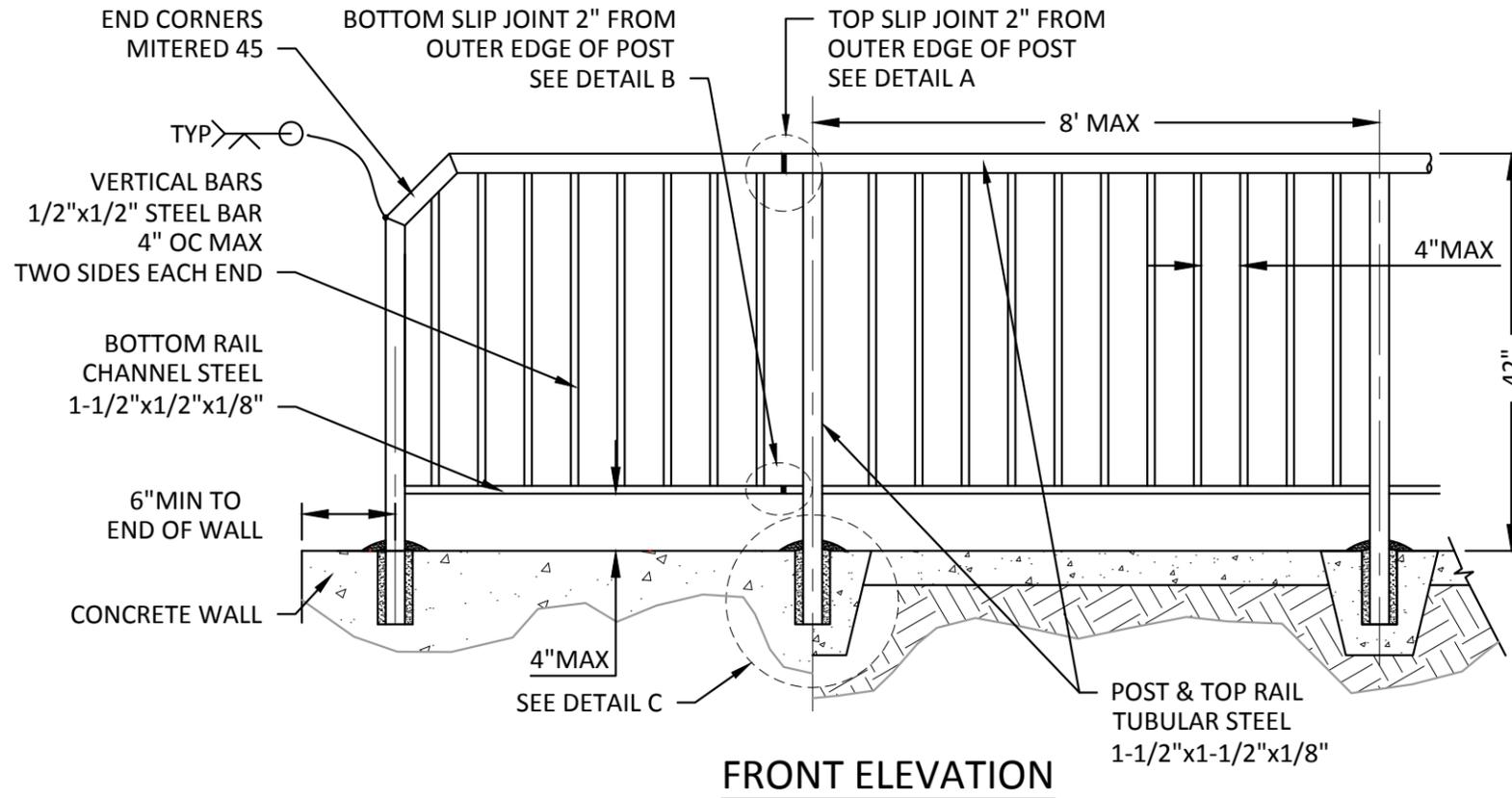
**GALVANIZED STEEL PEDESTRIAN RAIL NOTES**

1. GALVANIZED PEDESTRIAN RAIL SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS AND THIS DRAWING.
2. STEEL RAILINGS MATERIALS SHALL BE WELDED OR SEAMLESS STEEL PIPE CONFORMING TO THE REQUIREMENTS OF ASTM A 53, STRUCTURAL STEEL CONFORMING TO ASTM A 36, OR TUBULAR SECTIONS OF HOT ROLLED MILD STEEL, CONFORMING TO ASTM A 501. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1. AFTER FABRICATION EACH SECTION OF RAILING SHALL BE HOT-DIPPED GALVANIZED WITH A MINIMUM ZINC COATING OF 2 OUNCES PER SQUARE FOOT. ALL BURRS AND SHARP EDGES SHALL BE REMOVED PRIOR TO GALVANIZING.
3. FIELD WELDS SHALL BE GALVANIZED WITH SUCH MATERIALS AS "GALVALLOY" OR "GALVICON". PAINTING OF WELDS WILL NOT BE PERMITTED.
4. HORIZONTAL RAILS AND VERTICAL SUPPORT POSTS SHALL BE BE 1 1/2 INCH DIAMETER AND BALUSTERS SHALL BE 3/4 INCH DIAMETER STANDARD WEIGHT GALVANIZED STEEL PIPE. RAILS, POSTS AND BALUSTERS SHALL BE MACHINE CUT TO PROVIDE A UNIFORM LENGTH PRIOR TO ASSEMBLY.
5. RAILING SHALL BE ERECTED AND ADJUSTED, IF NECESSARY, TO ASSURE A CONTINUOUS LINE AND GRADE.

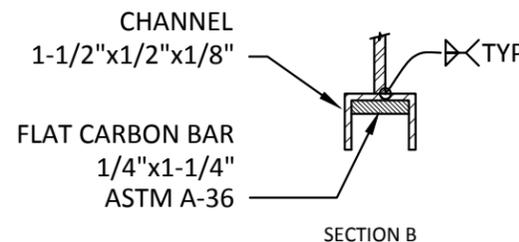
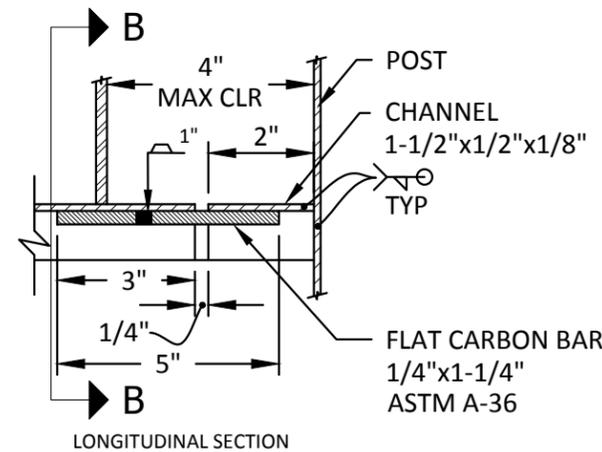
T:\ACAD\EPS-COE DESIGN & CONSTR SPECS FOR DEVELOPMENT\IN-WORK\STD333.DWG

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
<b>PEDESTRIAN HANDRAIL</b> DESIGN, & CONSTRUCTION (ALUMINUM & GALVANIZED STEEL)			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>333</b>

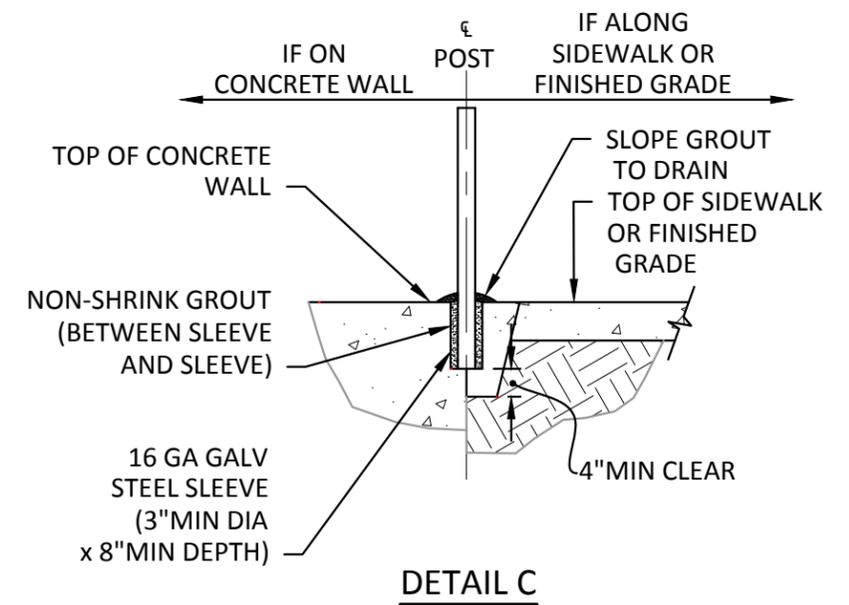
**DRAFT**



**TOP SLIP JOINT  
DETAIL A**



**BOTTOM SLIP JOINT  
DETAIL B**



**NOTES**

1. ORNAMENTAL RAILING SHALL BE CONSTRUCTED OF STEEL CONFORMING TO ASTM A-53.
2. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" AWS D 1.1.
3. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS AND AT EVERY 24 FEET ON CENTER MAXIMUM.
4. MAXIMUM SPACING OF POSTS SHALL BE 8 FEET ON STRAIGHT ALIGNMENT AND 6 FEET ON CURVED ALIGNMENT LESS THAN 30 FEET RADIUS.
5. AFTER FABRICATION, ALL BURRS AND SHARP EDGES SHALL BE REMOVED.
6. APPLY RUST PROOF METAL PRIMER AND ONE COAT OF BLACK ORNAMENTAL IRON METAL PAINT.

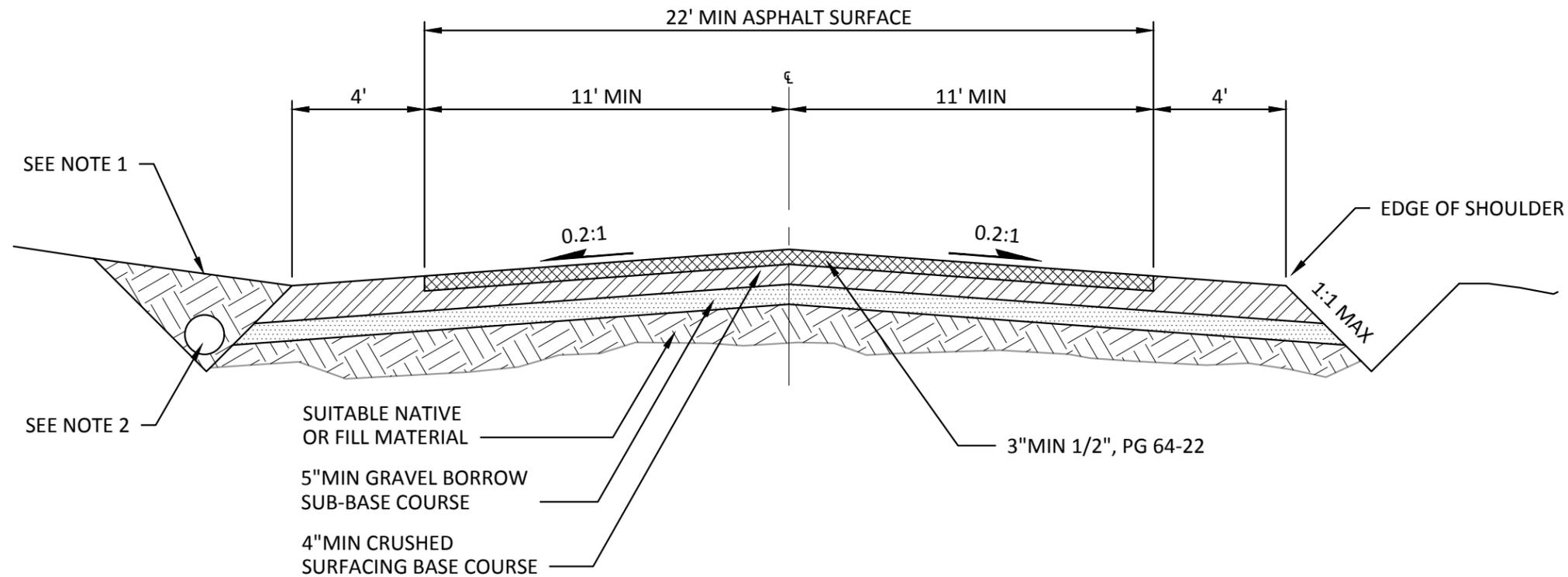
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City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
TITLE				STANDARD DRAWING No.
<p style="text-align: center;"><b>ORNAMENTAL HANDRAIL</b></p>				<p style="text-align: center;"><b>334</b></p>

**DRAFT**

## NOTES

1. DRIVE GRADE AT RIGHT-OF-WAY LINE SHALL CONFORM TO SECTION 3 EVERETT STANDARDS UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
2. A 12 INCH MINIMUM CORRUGATED POLYETHYLENE SMOOTH INTERIOR PIPE IS REQUIRED UNDER ALL DRIVEWAYS.
3. SUB-BASE AND TOP COURSE MATERIALS SHALL BE COMPACTED TO 95% AASHTO MAXIMUM DRY DENSITY.
4. ALL MANHOLES, CATCH BASINS, HAND HOLES AND OTHER STRUCTURES IN THE ASPHALT SURFACE SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS.



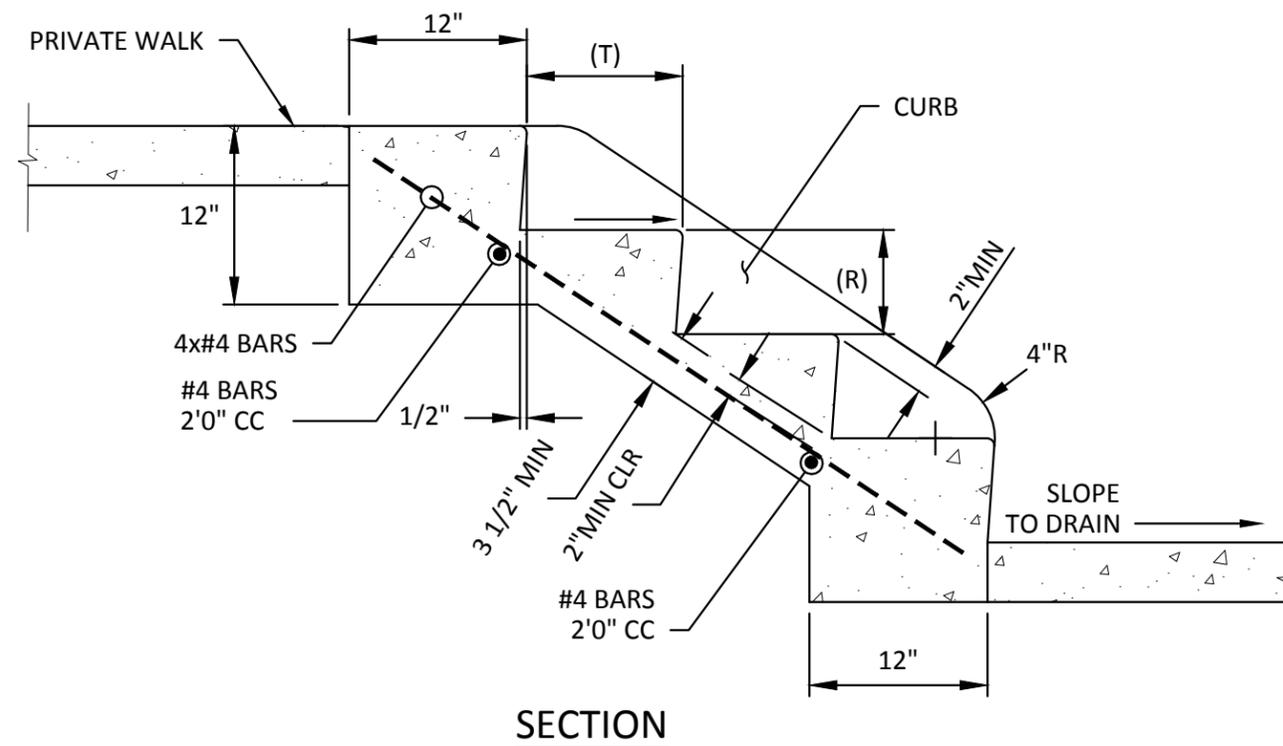
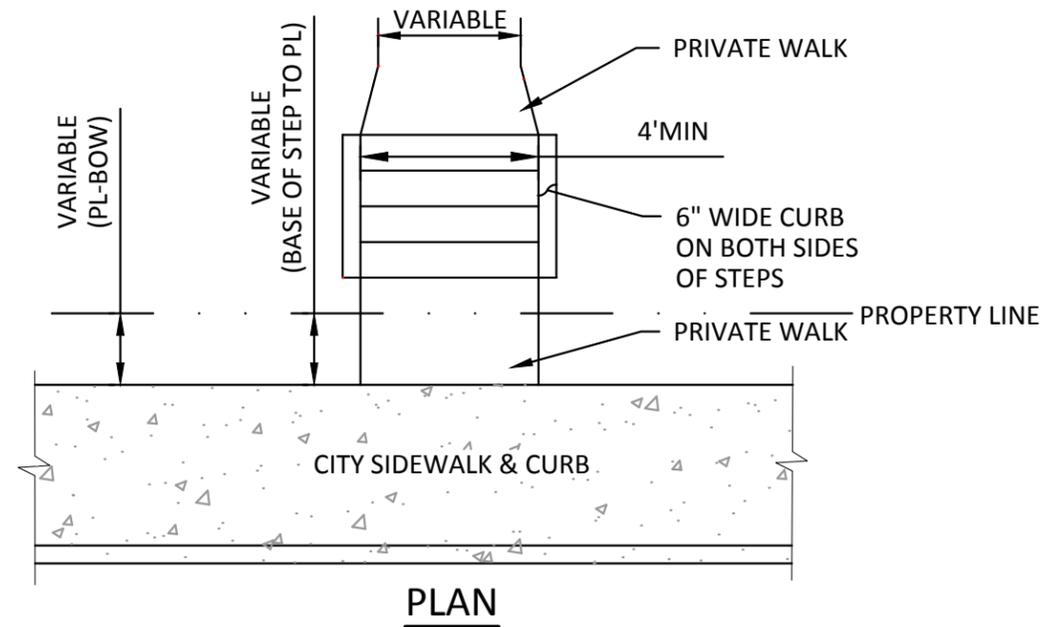
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12/30/2016 9:44 AM

**DRAFT**

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE TYPICAL ROADWAY SECTION SPECIAL INTERIM STREET			Current Rev Date 12/30/2016 STANDARD DRAWING No. 335

## NOTES

1. STEPS SHALL BE 4'-0" MIN WIDE, CURB TO CURB, PLUS 6" CURBS ON EACH SIDE.
2. CEMENT CONCRETE SHALL BE CLASS 3000, TROWEL FINISHED.
3. NUMBER OF STEPS SHALL SUIT INDIVIDUAL CONDITIONS, WITH TREAD AND RISER DIMENSIONS TO SUIT THE GRADE.
4. RISERS (R) SHALL BE 5" MIN 7" MAX, TREADS (T) (2R+T SHOULD EQUAL BETWEEN 24 AND 25) SHALL BE 11" MIN 14" MAX.
5. STEPS WITH MORE THAN 4 RISERS SHALL HAVE RAILINGS (BOTH SIDES) INSTALLED PER COE STANDARD DRAWING 337.



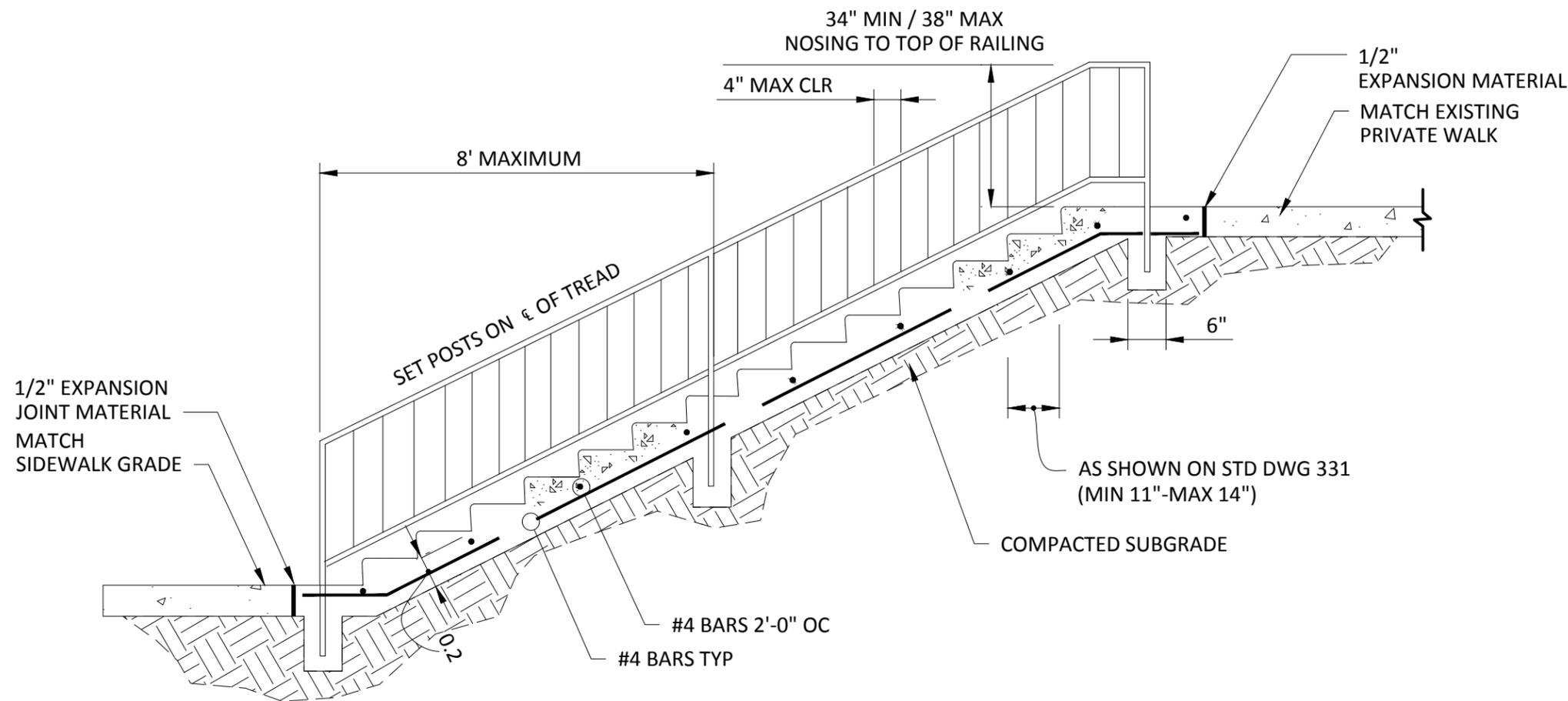
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 12/30/2016 9:45 AM

City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
TITLE <b>CEMENT CONCRETE STEPS</b>				STANDARD DRAWING No. <b>336</b>

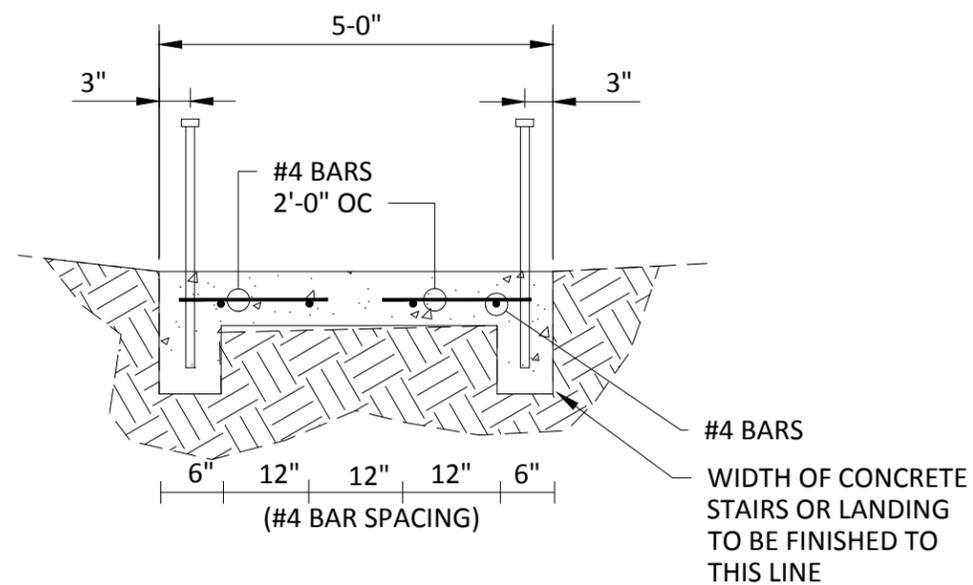
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## NOTES

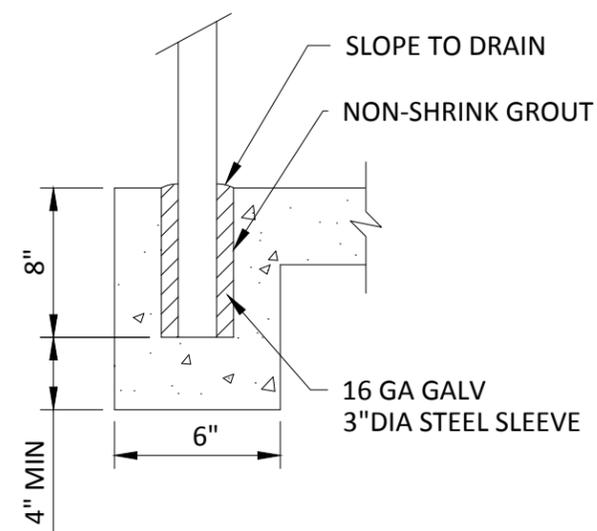
1. CEMENT CONCRETE STEPS AND CURBS SHALL BE CONSTRUCTED WITH COMMERCIAL MIX CONCRETE AS CALLED OUT IN WSDOT STD SPECS. AND AS SHOWN ON STANDARD DRAWING NO. 331.
2. HEIGHT OF RAILING SHALL BE 34" MINIMUM, 38" MAXIMUM TOP OF NOSING TO TOP OF RAILING
3. USE PEDESTRIAN OR ORNAMENTAL HANDRAIL AS DIRECTED BY THE CITY ENGINEER. SEE STANDARD DRAWING NOS. 325, 325A, AND 326.
4. CLEAR SPACE BETWEEN BALUSTERS SHALL BE A MAXIMUM OF 4".
5. STEPS WITH MORE THAN 4 RISERS SHALL HAVE HANDRAIL ON BOTH SIDES.



**ELEVATION**



**SECTION A-A**

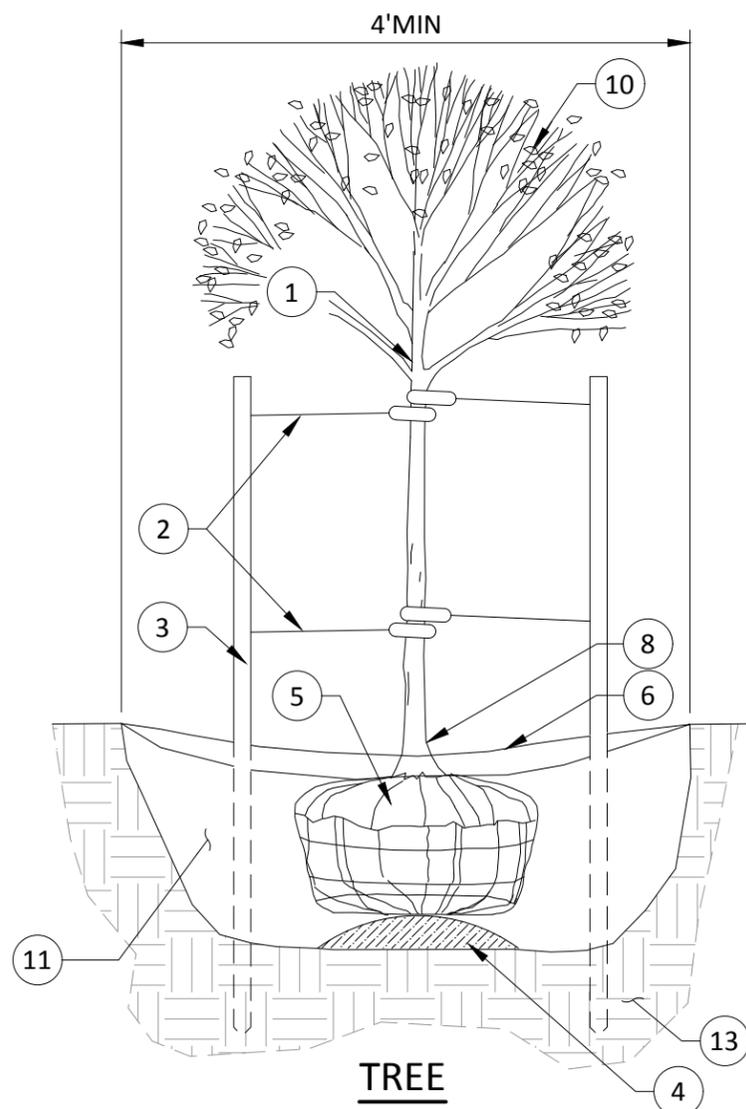
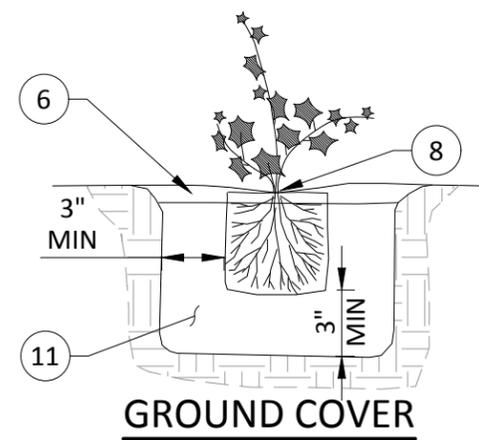
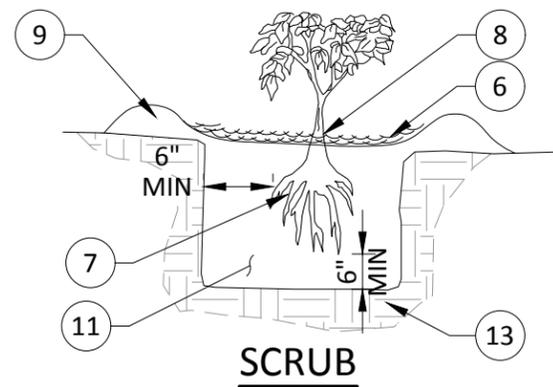
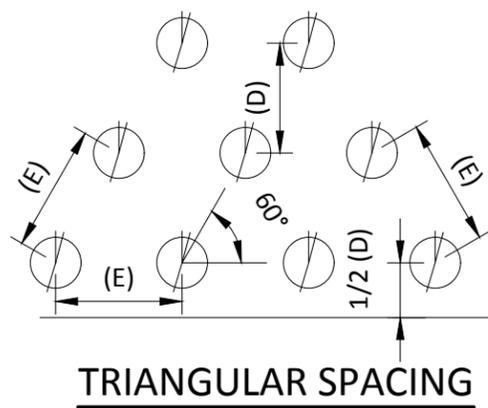


**POST DETAIL**

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 12/30/2016 9:45 AM

**DRAFT**

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE <b>CEMENT CONCRETE STAIRWAY CONSTRUCTION DETAILS</b>			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>337</b>



# **NOTES**

1. APPROVED EVERETT SMALL OR MEDIUM TREE SPECIES.
2. PLASTIC TREE STRAPS (1/2" WIDE). UPPER TIES 3" MIN (6" MAX) FROM TOP OF STAKE. IF UPPER TIE IS MORE THAN 4' ABOVE FINISHED GROUND, LOCATE LOWER TIES MIDPOINT UPPER TIE AND FINISHED GRADE. TOP STRAP SHALL BE A MIN. OF 1/3 OF THE TREE HEIGHT.
3. TWO STAKES MIN. 2"X2"X8' CEDAR/DOUGLAS FIR OR 2"X8' ROUND POLES. POUND 1' MIN. INTO UNDISTURBED OR CONSTRUCTED SOIL. TRIPLE STAKE DECIDUOUS TREES LARGER THAN 2" CALIPER.
4. PLACE ROOT BALL ON 6" MIN COMPACTED TOPSOIL MIX.
5. REMOVE TOP 1/3 OF BURLAP AND WIRE BASKET, REMOVE ALL TIES.
6. 2" MIN BARK MULCH OVER ALL PLANTED AREAS.
7. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK". PRUNE ALL DAMAGED, DISEASED OR WEAK ROOTS. DO NOT ALLOW ROOTS TO DRY OUT DURING INSTALLATION PROCESS. SOAK ROOTS IN WATER OVERNIGHT BEFORE PLANTING ANY BARE ROOT STOCK.
8. SHRUBS AND TREES SHALL BE SLIGHTLY HIGHER IN RELATIONSHIP TO THE OLD SOIL MARK ON THE TRUNK AND THE FINISHED GRADE OF THE PLANTING.
9. CREATE SAUCER WITH TOPSOIL (6"R MIN.)
10. IF NECESSARY, THIN BRANCHES BY 1/8 RETAINING NORMAL PLANT SHAPE
11. GENTLY COMPACTED PLANTING MIX (AS SPECIFIED).
12. ALL GROUND COVER/SHRUB SPACING SHALL BE EQUIDISTANT UNLESS OTHERWISE SPECIFIED. DISTANCE ON CENTER AS SPECIFIED 'E'. SPACING BETWEEN ROWS 'D' AS SPECIFIED. START FIRST ROW OF PLANTING AT 1/2 'D' FROM PLANTING BORDER.
13. UNDISTURBED NATIVE SOIL OR CONSTRUCTED SOIL.

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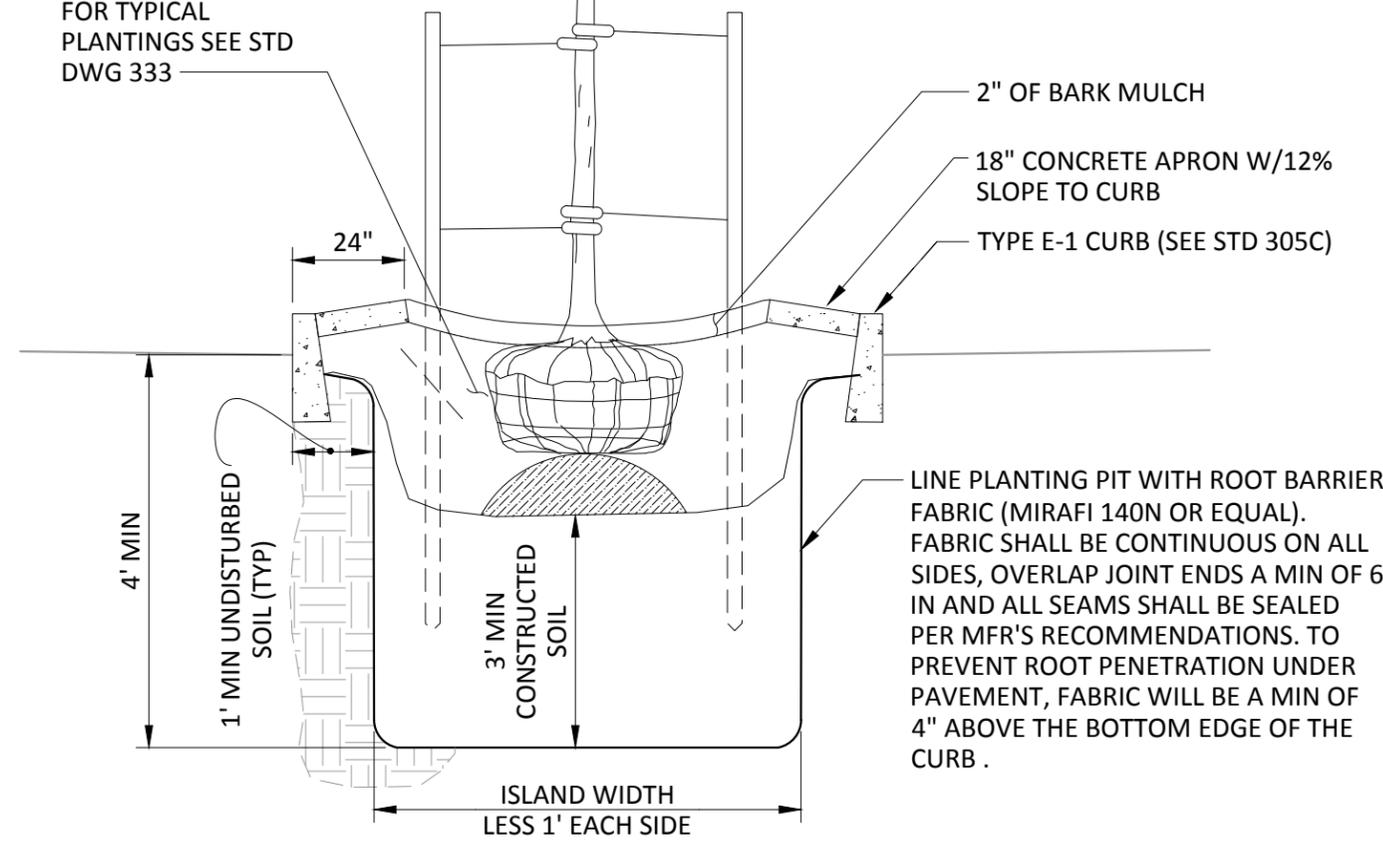
**DRAFT**

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE PLANTING TREES, SHRUBS & GROUND COVER			Current Rev Date 12/30/2016 STANDARD DRAWING No. 338

EXCAVATE CONSTRUCTION SOIL AS REQUIRED FOR LANDSCAPING. FOR TYPICAL PLANTINGS SEE STD DWG 333



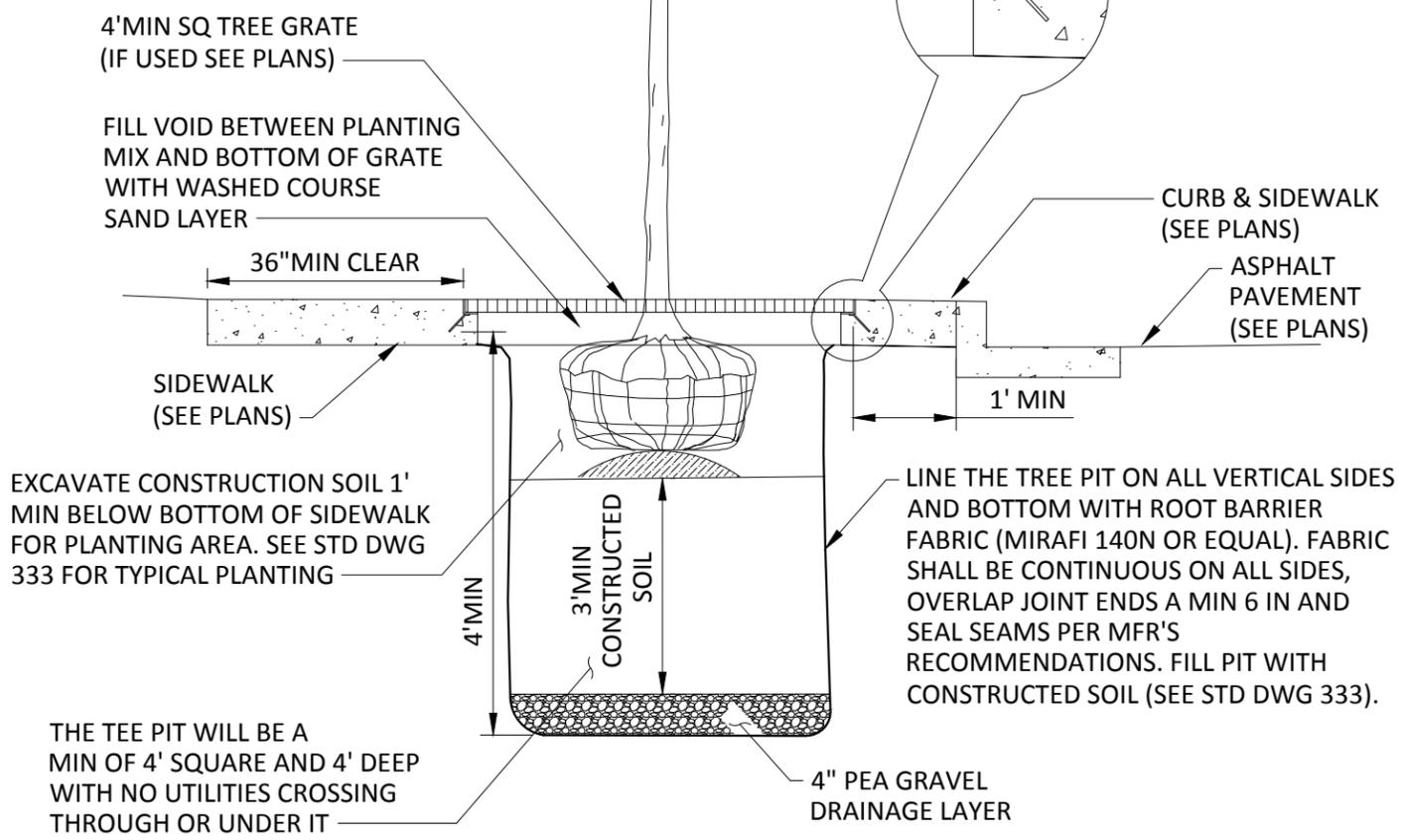
EVERETT STD "SMALL" OR "MEDIUM TREE SPECIES (SEE PLANS)



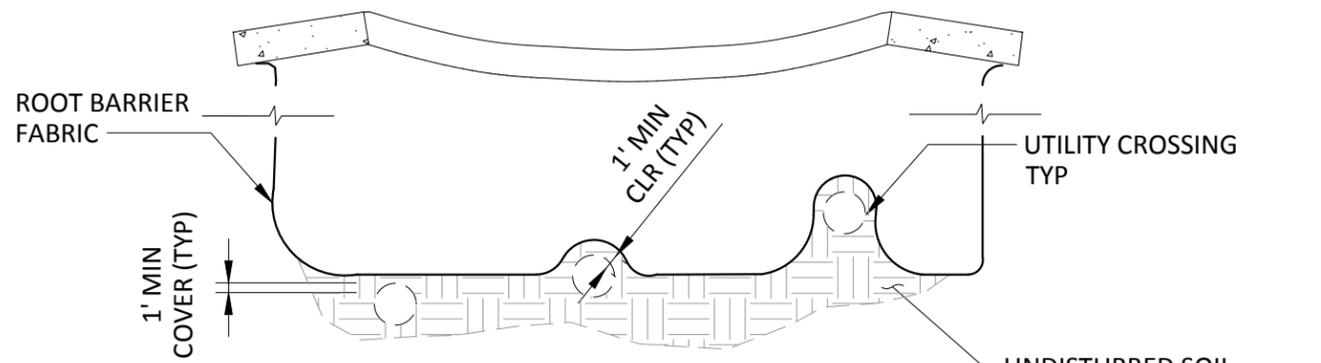
**TRAFFIC ISLAND/MEDIAN**



TREE GRATE STEEL FRAME  
#4 REBAR (8" SPACING LATERALLY)



**SIDEWALK**

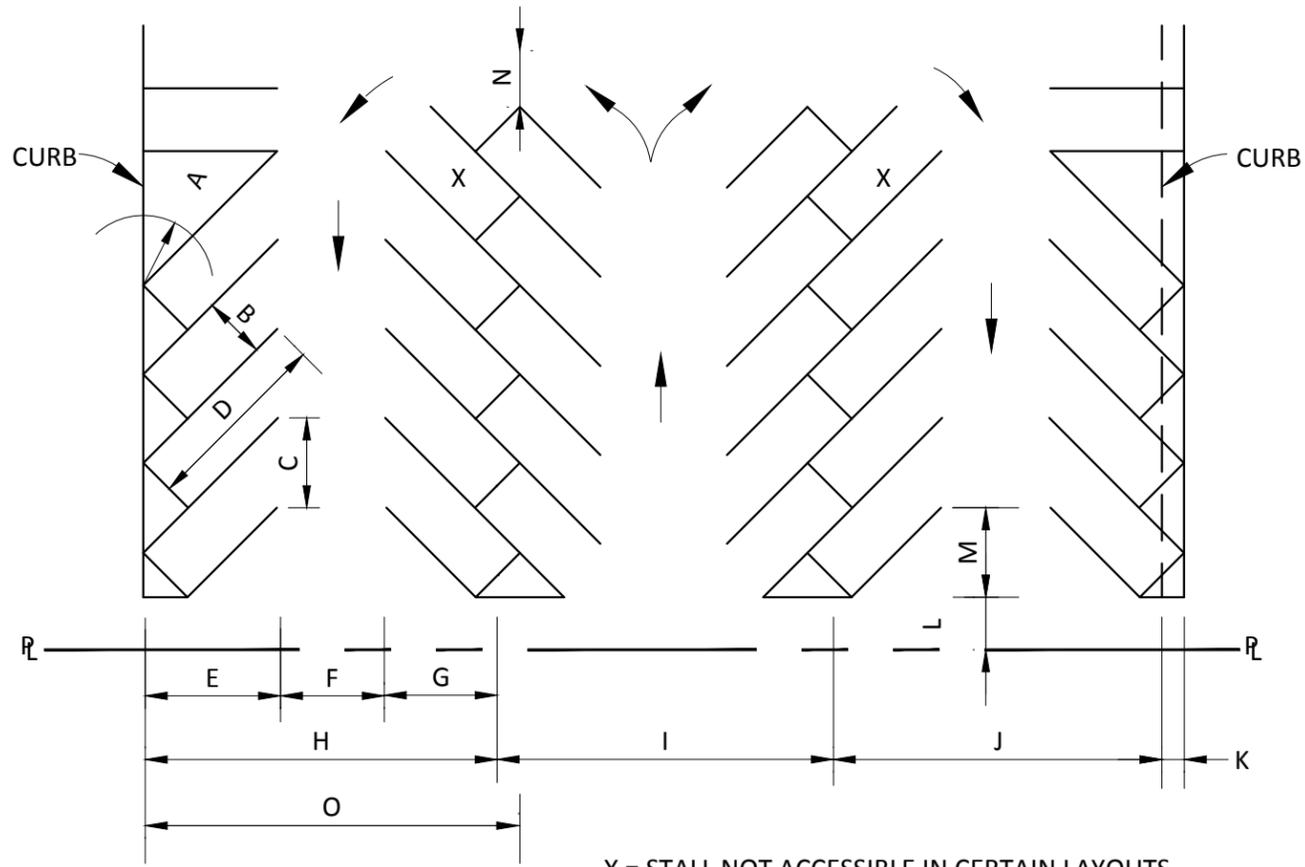


**TYP LONGITUDINAL SECTION**

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		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE			Current Rev Date <b>12/30/2016</b>
<b>PLANTING</b> IN TRAFFIC ISLANDS OR MEDIANS			STANDARD DRAWING No. <b>339</b>

**DRAFT**



X = STALL NOT ACCESSIBLE IN CERTAIN LAYOUTS.

### STALL GEOMETRY

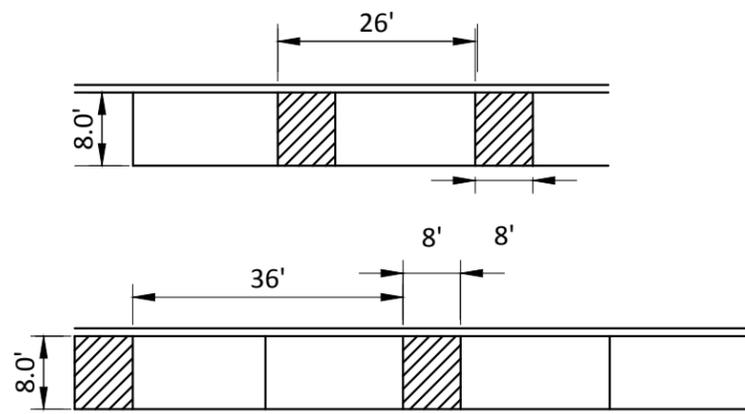
PARKING ANGLE (DEGREES)	STALL WIDTH PERPENDICULAR TO STALL LINES	STALL WIDTH PARALLEL TO AISLE	LENGTH OF STALL LINE	STALL DEPTH PERPENDICULAR TO AISLE	STALL DEPTH BETWEEN STALL LINES (SEE NOTE)	STALL DEPTH INTERLOCKING	MODULE, WALL TO INTERLOCK	MODULE, INTERLOCK TO INTERLOCK	MODULE, INTERLOCK TO INTERLOCK TO CURB BUMPER	CURB BUMPER OVERHANG (TYPICAL)	OFFSET	SETBACK	CROSS AISLE (ONE WAY)	CROSS AISLE (TWO WAY)	MODULE, WALL TO WALL
A	B	C	D	E	F	G	H	I	J	K	L	M	N		O
45	8.5	12.0			13.0		49.0	46.0	47.0	2.0	6.4	13.1	14.0	24.0	52.0
	9.0	12.7	27.5	19.5	12.0	16.5	48.0	45.0	46.0						51.0
	9.5	13.4			11.0		47.0	44.0	45.0						50.0
	C	8.0	11.3	22.5	17.0	11.0									45.0
	A	13.0	18.3	27.5	19.5	11.0									
	V	16.0	22.5	27.5	22.6	12.0									
60	8.5	9.8			18.0		57.0	55.0	54.7	2.3	2.6	9.3	14.0	24.0	59.0
	9.0	10.4	23.7	20.5	16.0	18.5	55.0	53.0	53.7						57.0
	9.5	11.0			15.0		54.0	52.0	51.7						56.0
	C	8.0	9.3	19.5	17.8	15.0									51.0
	A	13.0	15.0	23.7	20.5	15.0									
	V	16.0	18.5	23.7	23.3	16.0									
75	8.5	8.8			25.0		64.0	63.0	61.5	2.5	0.6	4.8	14.0	24.0	65.0
	9.0	9.3	20.9	20.0	23.0	19.0	62.0	61.0	59.5						63.0
	9.5	9.8			22.0		61.0	60.0	58.5						62.0
	C	8.0	8.3	17.0	17.5	19.0									54.0
	A	13.0	13.5	20.9	20.0	22.0									
	V	16.0	16.6	20.9	22.4	24.0									
90	8.5	8.5			28.0		65.0	65.0	62.5	2.5	0.0	0.0	14.0	24.0	65.0
	9.0	9.0	18.5	18.5	26.0	18.5	63.0	63.0	60.5						63.0
	9.5	9.5			25.0		62.0	62.0	59.5						62.0
	C	8.0	8.0	15.0	16.0	23.0									55.0
	A	13.0	13.0	18.5	18.5	25.0									
	V	16.0	16.0	18.5	20.0	24.0									

### LEGEND

- A = PARKING ANGLE
- B = STALL WIDTH, PERPENDICULAR TO STALL LINES
- C = STALL WIDTH, PARALLEL TO AISLE
- D = LENGTH OF STALL LINE
- E = STALL DEPTH, PERPENDICULAR TO AISLE
- F = AISLE WIDTH, BETWEEN STALL LINES
- G = STALL DEPTH, INTERLOCKING
- H = MODULE, WALL TO INTERLOCK
- I = MODULE, INTERLOCK TO INTERLOCK
- J = MODULE, INTERLOCK TO CURB
- K = BUMPER OVERHANG
- L = OFFSET
- M = SETBACK
- N = CROSS AISLE, ONE WAY
- N = CROSS AISLE, TWO WAY
- O = MODULE, WALL TO WALL

### NOTES

1. SEE SECTION 3-5 OF DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR FURTHER CONDITIONS AND RESTRICTIONS.
2. AISLE WIDTH MAY BE REQUIRED TO BE WIDER IF MULTIPLE UTILITY LINES ARE LOCATED WITHIN THE AISLE CORRIDOR.
3. C = COMPACT SPACE, SEE SECTION 3-5 OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR DETAILS AND RESTRICTIONS. EACH SPACE SHALL BE IDENTIFIED BY PAINTING "COMPACT" ON PAVEMENT.
4. A = ACCESSIBLE SPACE, PER ADA. REQUIRES A 5' ACCESS AISLE, MINIMUM ADJOINING AN 8' PARKING SPACE.
5. V = VAN ACCESSIBLE SPACE PER ADA. REQUIRES AN 8' ACCESS AISLE ADJOINING AN 8' PARKING SPACE. OR A 5' ACCESS AISLE ADJOINING AN 11' PARKING SPACE. ACCESS ISLE TO BE ON PASSENGER SIDE FOR ANY ANGLE PARKING OTHER THAN 90 DEGREE PARKING WHICH ALLOW FOR AISLE BEING ON EITHER SIDE OF PARKING SPACE.



PARALLEL

**DRAFT**

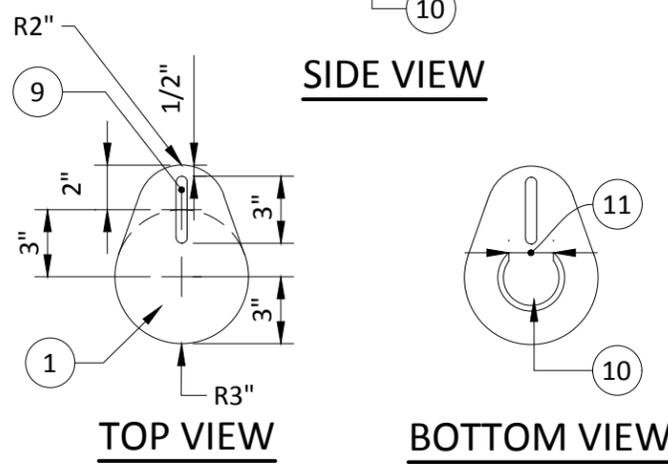
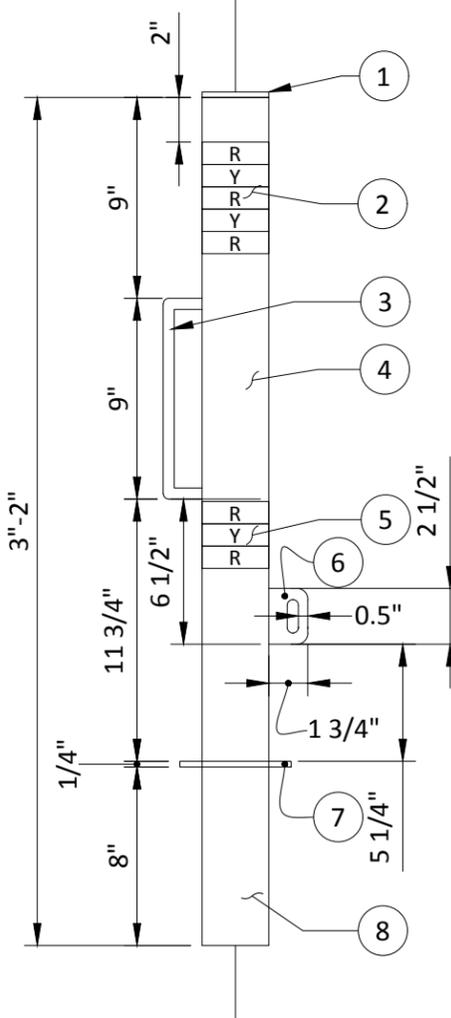
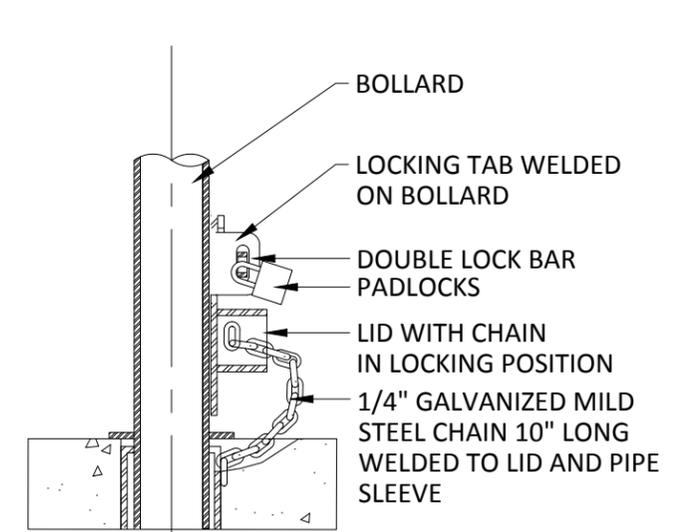
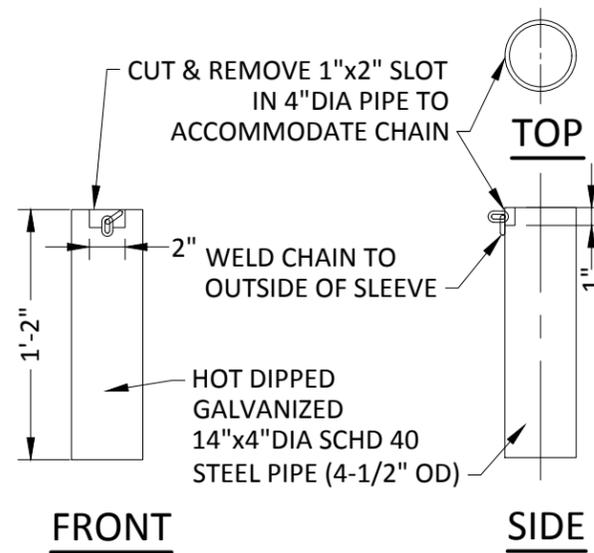
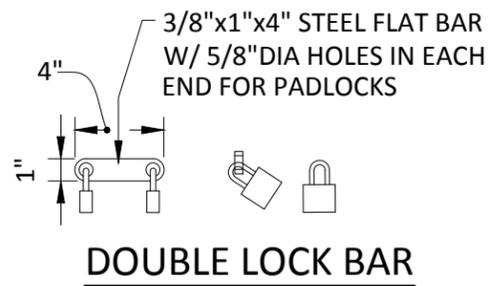
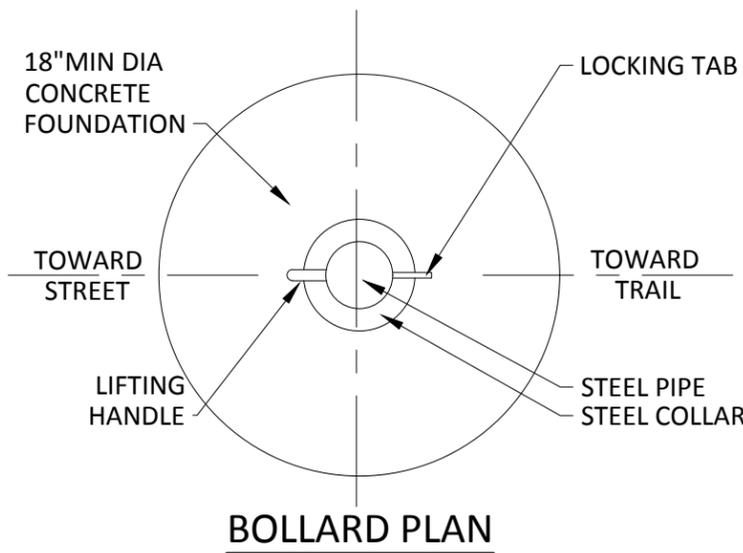


## CITY OF EVERETT

### PUBLIC WORKS DEPARTMENT

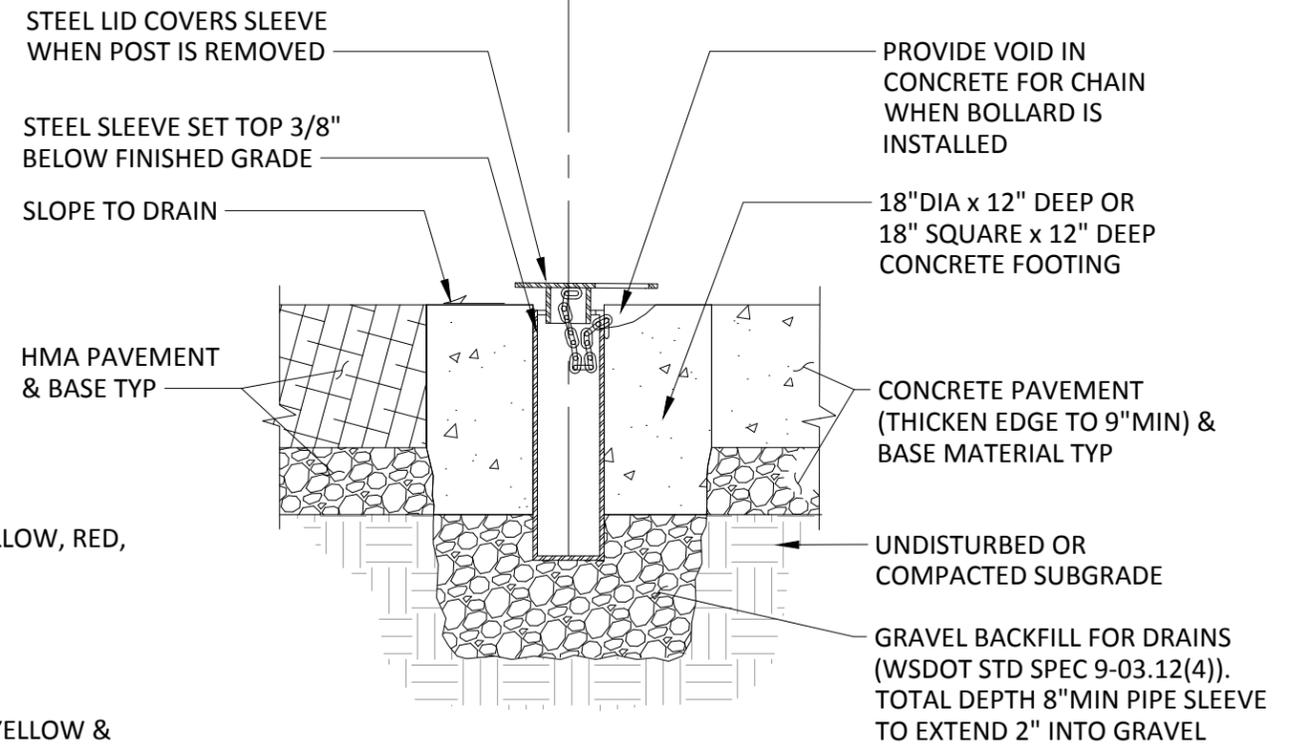
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date <b>12/30/2016</b>
<b>PARKING LOT</b>				STANDARD DRAWING No.
<b>DETAILS AND DIMENSIONS</b>				<b>340</b>

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**NOTES**

1. 1/4" THICK STEEL CAP WELD TO 3" PIPE (GRIND SMOOTH).
2. FIVE ROWS HIGH INTENSITY PRISMATIC 1" WIDE REFLECTIVE TAPE (RED, YELLOW, RED, YELLOW & RED).
3. 1/2" DIA STEEL ROD HANDLE WELD TO 3" DIA STEEL PIPE.
4. PAINT BOLLARD FLUORESCENT "YELLOW-GREEN" ABOVE LOCKING TAB.
5. THREE ROWS HIGH INTENSITY PRISMATIC 1" WIDE REFLECTIVE TAPE (RED, YELLOW & RED).
6. 1/4" THICK LOCKING TAB WELD TO 3" DIA STEEL PIPE. PROVIDE 1/2"x1-1/2" SLOT FOR DOUBLE LOCK BAR, ROUND CORNERS 1/2" RADIUS.
7. 5" DIA x 1/4" THICK COLLAR WELD TO 3" STEEL PIPE.
8. 3" NOMINAL PIPE SIZE (3 1/2" OUTER DIA).
9. CUT AND REMOVE 3"x1/2" SLOT IN 1/4" STEEL CAP FOR LOCK TAB.
10. 3" DIA SCH 40 PIPE WELD TO STEEL CAP.
11. PROVIDE WITH 2" W x FULL DEPTH SLOT IN 3" DIA x 2" STEEL PIPE AND WELD TO UNDERSIDE OF CAP.

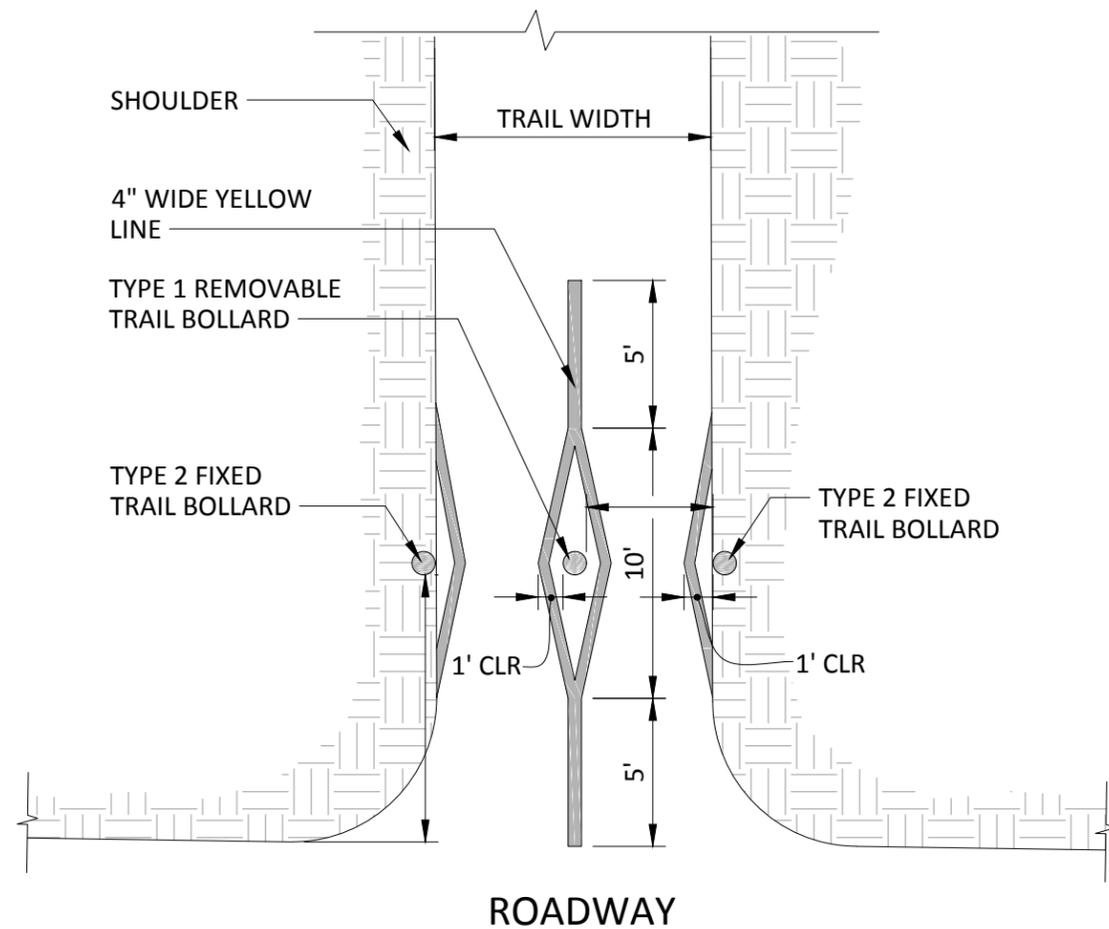


**FOUNDATION SECTION (POST REMOVED)**



City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
TITLE <b>TRAIL BOLLARD</b> TYPE 1 STEEL REMOVABLE				STANDARD DRAWING No. <b>341</b>

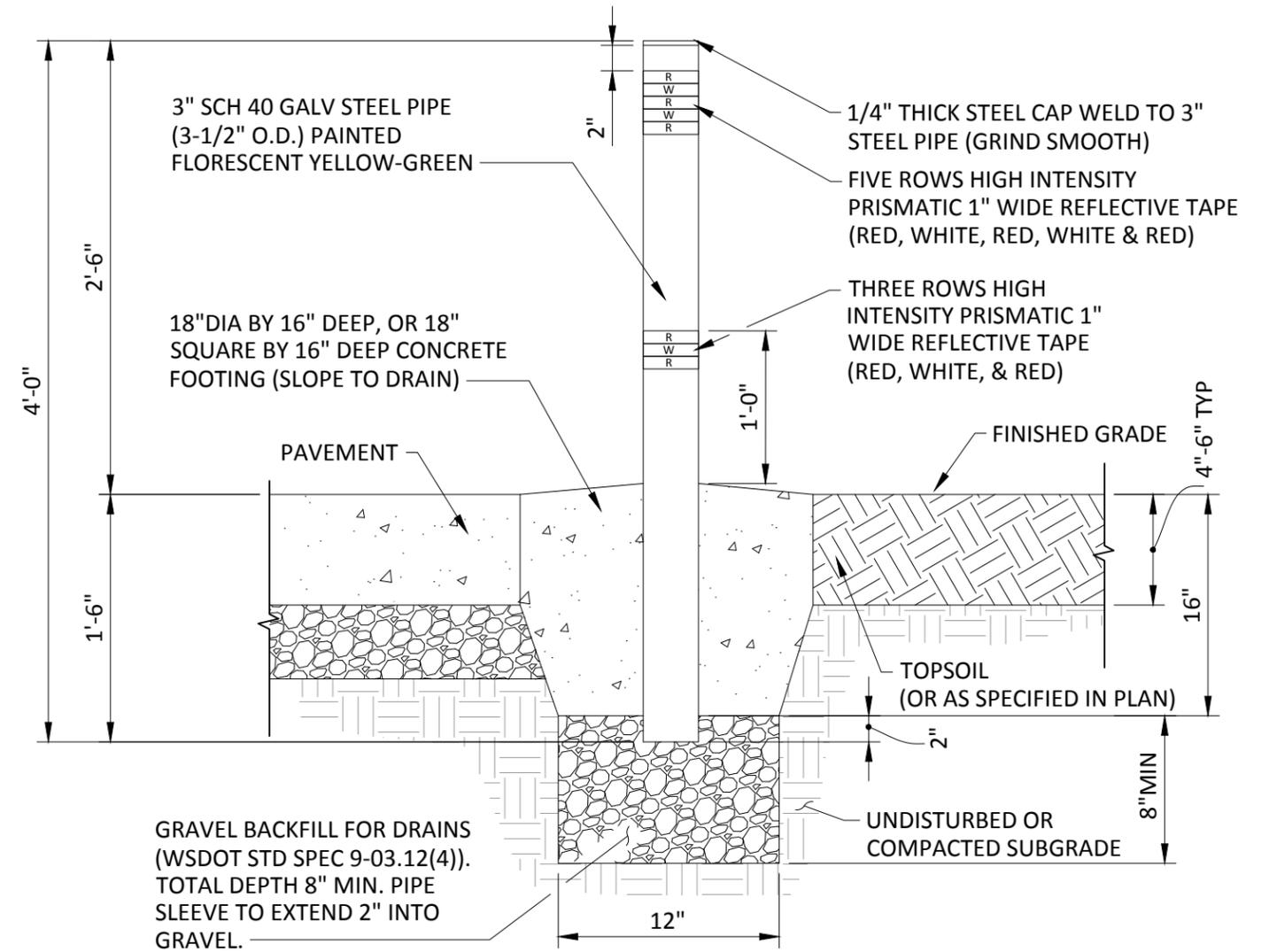
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**PLACEMENT & STRIPING**

**NOTES**

1. DIMENSIONS PER PLANS. RECOMMENDED: 10' TO 30' BACK OF SIDEWALK OR ROADWAY EDGE. 5' TO 10' FROM BRIDGE.
2. 5'-2" CLEAR BETWEEN BOLLARDS TYP ± 2".
3. 4" WIDE WHITE EDGE LINE TO BE ADDED IF SIDE BOLLARDS ARE WITHIN TRAIL PAVEMENT OR ARE WITHIN 4" FROM THE EDGE OF PAVEMENT.



**TYPE 2 BOLLARD ELEVATION**

**NOTES**

1. ALL PIPE SECTIONS SHALL BE CONSTRUCTED OF SCHEDULE 40 STEEL PIPE.
2. ALL CUTS OR HOLES TO BE SHOP DRILLED OR CUT AND GROUND SMOOTH WITH NO REMAINING SHARP EDGES.
3. ALL STEEL COMPONENTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
4. FLORESCENT YELLOW-GREEN TO MATCH PANTONE COLOR 382C (SHERWIN-WILLIAMS 39121031)

		<b>CITY OF EVERETT</b> <b>EVERETT PUBLIC WORKS DEPARTMENT</b>	
City Engineer RYAN SASS	Section Manager TOM HOOD	CAD Manager PAUL WILHELM	Drawn By ESH
<b>TITLE</b> <b>TRAIL BOLLARD</b> TYPE 2 FIXED & TYPE 1 & 2 PLACEMENT/STRIPING			Current Rev Date <b>12/30/2016</b> STANDARD DRAWING No. <b>342</b>

**DRAFT**