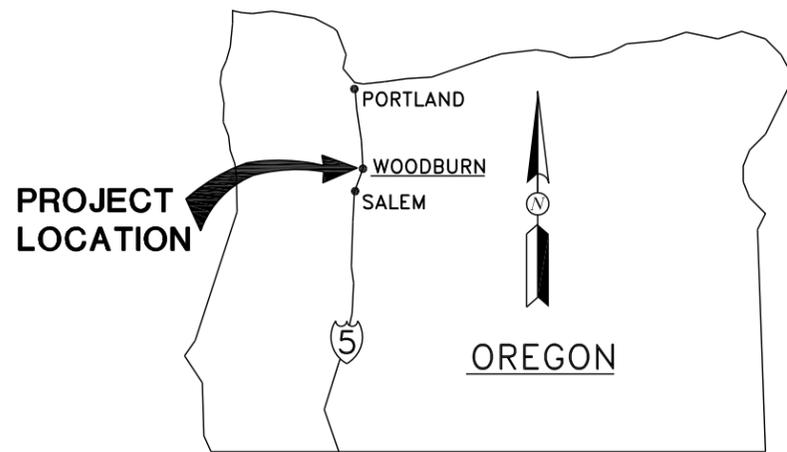


PART IV – PLANS

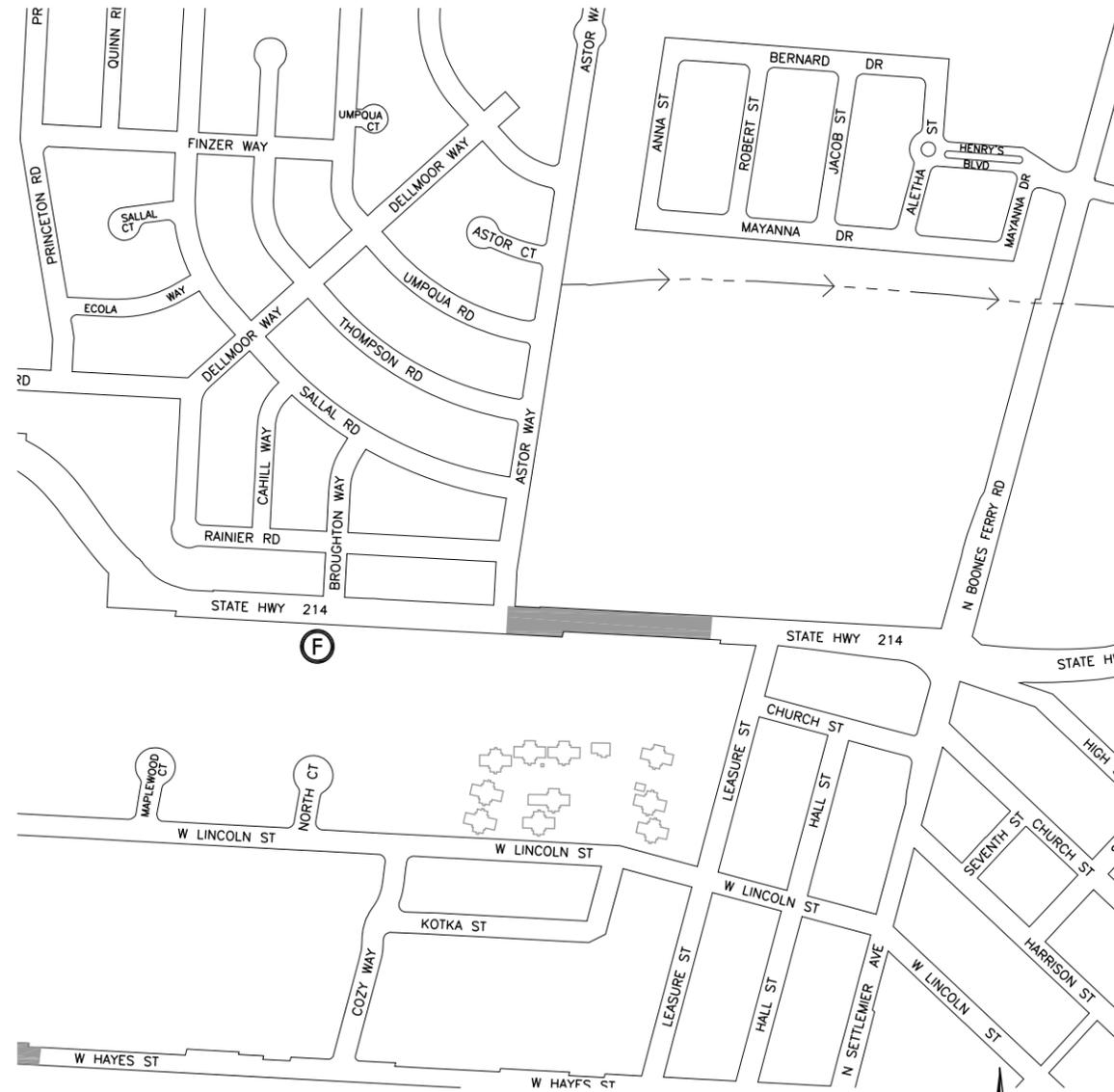
G-1	TITLE SHEET
G-2	LEGENDS AND CONSTRUCTION NOTES
C-1	PLAN AND PROFILE SHEET
D-1	DETAIL SHEET
D-2	DETAIL SHEET
D-3	DETAIL SHEET
RD700	DETAIL SHEET
RD720	DETAIL SHEET
RD725	DETAIL SHEET

I-5 INTERCHANGE FORCE MAIN AND SANITARY SEWER SERVICES RELOCATION EAST OF ASTOR WAY PROJECT No. 2012-026-12 BID No. 2013-07



AREA MAP
NTS

DATUM IS BASED ON CITY SURVEYING:



VICINITY MAP
NTS

PROJECT LOCATION

INDEX OF DRAWINGS

SHEET NO.	TITLE	DWG NO.
1	TITLE SHEET	G-1
2	LEGENDS AND CONSTRUCTION NOTES	G-2
3	PLAN & PROFILE	C-1
4	DETAILS	D-1
5	DETAILS	D-2
6	SANITARY SEWER SERVICES PROFILES	D-3
7	ODOT DETAIL	RD700
8	ODOT DETAIL	RD720
9	ODOT DETAIL	RD735

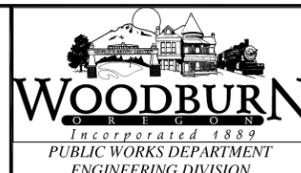
BID SET



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DESIGNED: DG, PG
 DRAWN: GK
 REVIEWED: EL
 APPROVED: EL
 HORIZONTAL DATUM: LOCAL
 VERTICAL DATUM: LOCAL



REVISIONS:	

I-5 INTERCHANGE - FORCE MAIN AND SANITARY SEWER SERVICES RELOCATION EAST OF ASTOR WAY

TITLE SHEET

PROJECT NO. 2012-026-12
DATE FEB. 2013
DWG NO. G-1
SHEET 1 OF 9

SYMBOLS

DESCRIPTION	EXST	NEW
GAS METER		
SANITARY MANHOLE		
STORM MANHOLE		
CATCHBASIN		
WATER METER		
SERVICE UTILITY LINE CAPPED OFF		
PHONE J-BOX		
STREET/AREA LIGHT		
POWER POLE W/ LIGHT		
POWER POLE		
POWER POLE W/ TRANSFORMER		
GUY POLE		
DECIDUOUS TREE		
SIGN POST, SINGLE POLE		
FIRE HYDRANT		

GENERAL NOTES:

- CONTRACTOR SHALL CONFORM TO ALL CITY OF WOODBURN, OREGON DEPARTMENT OF TRANSPORTATION AND MARION COUNTY STANDARD SPECIFICATIONS, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, AND OREGON ADMINISTRATIVE RULES (OAR), EXCEPT AS MODIFIED HEREIN. THE CONTRACTOR SHALL MAINTAIN ONE SET OF PLANS AND SPECIFICATIONS ON SITE DURING WORK HOURS.
- WORKING HOURS SHALL COMPLY WITH ODOT REQUIREMENTS SET IN PERMIT NO. 03M42495.
- CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS, INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE REQUIREMENTS AND PROVIDE A COMPLETE PROJECT.
- RESTORATION SHALL BE COMPLETED TO ALL PROPERTIES THAT ARE AFFECTED DUE TO CONSTRUCTION ACTIVITIES. RESTORATION SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
- CONSTRUCTION WILL BE RUNNING ADJACENT TO RESIDENTIAL PROPERTIES. OWNER/RESIDENTS SHALL BE AFFORDED ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO MAKE ALLOWANCES FOR ANY LOCAL DELIVERIES AND/OR GARBAGE PICK-UP. PROVIDE WRITTEN NOTICE TO ALL PROPERTY OWNERS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF WORK IN AND OR CROSSING DRIVEWAYS.
- ANY INSPECTIONS BY THE ENGINEER AND/OR HIS REPRESENTATIVE SHALL NOT, IN ANYWAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, AND TRAFFIC CONES PER THE CITY APPROVED TRAFFIC CONTROL PLAN AND IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS) AND ODOT TEMPORARY TRAFFIC CONTROL HANDBOOK. ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NEVER LEAVE THE SITE IN A STATE THAT IS DEEMED, BY THE ENGINEER AND/OR OTHER APPROVED AGENT, TO BE A PUBLIC HEALTH OR SAFETY RISK.
- THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED PLAN DRAWINGS ON SITE AT ALL TIMES WHEREON HE WILL RECORD ALL APPROVED CHANGES AND/OR DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE DRAWINGS SHALL ALWAYS BE AVAILABLE TO THE ENGINEER FOR INSPECTION.
- UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, THE CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER.
- THE CONTRACTOR SHALL PROCURE AND CONFORM TO DEQ STORM WATER PERMIT No. 1200C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRE OR MORE AREA IS DISTURBED.
- CONTRACTOR MAY PROCURE WATER FROM A CITY FIRE HYDRANT ONLY AFTER APPROVAL OF THE ENGINEER, INSTALLATION OF BACKFLOW PREVENTER BY CITY DRINKING WATER SECTION CREWS, AND PAYMENT OF APPROPRIATE FEES TO THE WATER SECTION.
- CONTRACTOR SHALL NOTIFY CITY AND ALL UTILITY COMPANIES A MINIMUM OF 2 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES AND COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.541 TO 757.571.
- CONTRACTOR SHALL CONFINE ALL PUBLIC IMPROVEMENT WORK TO THE DEDICATED RIGHT-OF-WAY AND UTILITY EASEMENT AREAS.
- EROSION CONTROL, DUST CONTROL AND DRAINAGE CONTROL IS REQUIRED AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL WORK, ADJACENT PROPERTIES AND ALL FACILITIES FROM EROSION AND SILTATION DURING THE COURSE OF THE WORK. DAMAGE TO EXISTING FACILITIES AND PROPERTIES DUE TO EROSION AND SILTATION SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DUST CONTROL MEASURES TO REDUCE DUST EMISSIONS.
- THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE COMPILED FROM THE BEST AVAILABLE RECORDS AND FIELD SURVEYS. THE ENGINEER AND UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION IN ORDER FOR THE ENGINEER TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. ALL UTILITY CROSSINGS SHALL BE POTHOLED PRIOR TO EXCAVATING OR BORING TO MITIGATE POTENTIAL GRADE CONFLICTS. POTHOLES SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
- THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED AND RECORDED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE AWARE THAT OTHER UTILITIES ARE TO BE RELOCATED BY OTHERS IN SAME AREA OF CONSTRUCTION SHOWN IN THE PLANS. CONTRACTOR SHALL COORDINATE WORK WITH FRANCHISE UTILITIES FOR RELOCATION OF UTILITY LINES.
- ONLY CITY STAFF CAN OPERATE LIVE WATER VALVES AND FIRE HYDRANTS. NOTIFY THE CITY OF WOODBURN PRIOR TO THE NEED FOR THE OPERATION OF LIVE WATER LINES.
- UTILITIES OR PORTION OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAIN EXPOSED ENDS OF ABANDONED UTILITIES.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OR PLACE CONTROLLED DENSITY FILL IN ABANDONED FACILITIES.
- CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, AND ETC. AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.
- ANY AND ALL WELLS, SEPTIC TANKS AND/OR FUEL TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT. CONTRACTOR SHALL THEN ABANDON THEM IN ACCORDANCE WITH DEQ OR OREGON WATER RESOURCES DEPARTMENT REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST AND/OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
- CONSTRUCTION ACTIVITIES SHALL BE MONITORED AND MAINTAINED TO INSURE NO PONDING OF EXCESS WATER OCCURS.
- WHEN APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PUMP FLUIDS AND DEBRIS FROM DEWATERING ACTIVITIES INTO THE CITY SANITARY COLLECTION SYSTEM.
- GRADES SHOWN ON PLANS SHALL BE ACCOMPLISHED TO THE TOLERANCES INDICATED IN THE STANDARD TECHNICAL SPECIFICATIONS WITHIN THE BID DOCUMENTS.
- BITUMINOUS HOT MIX FOR TRENCH CAPS, SURFACE COURSE REPAIRS AND/OR FULL DEPTH REPAIRS SHALL BE EQUAL TO THE THICKNESS OF EXISTING, ADJACENT CONDITIONS OR MINIMUM SHOWN ON THE PLANS (WHICHEVER IS GREATER).
- AT THE END OF EACH WORKING DAY ALL OPEN TRENCHES SHALL BE BACKFILLED AND ALL TRENCHES WITHIN THE STREET SHALL BE TEMPORARILY PAVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYS.
- ALL NON-METALLIC PIPES SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE RUN.
- PRIOR TO MANDREL TESTING OF FINAL ACCEPTANCE, FLUSH AND CLEAN ALL STORM DRAINS, AND REMOVE ALL FOREIGN MATERIALS FROM THE MAINLINES, MANHOLES AND CATCH BASINS.



CALL BEFORE YOU DIG!
1-800-332-2344

ATTENTION:

OREGON LAW REQUIRES CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503.232.1987)

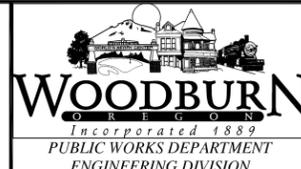
BID SET



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DESIGNED: DG, PG
DRAWN: GK
REVIEWED: EL
APPROVED: EL
HORIZONTAL DATUM: LOCAL
VERTICAL DATUM: LOCAL

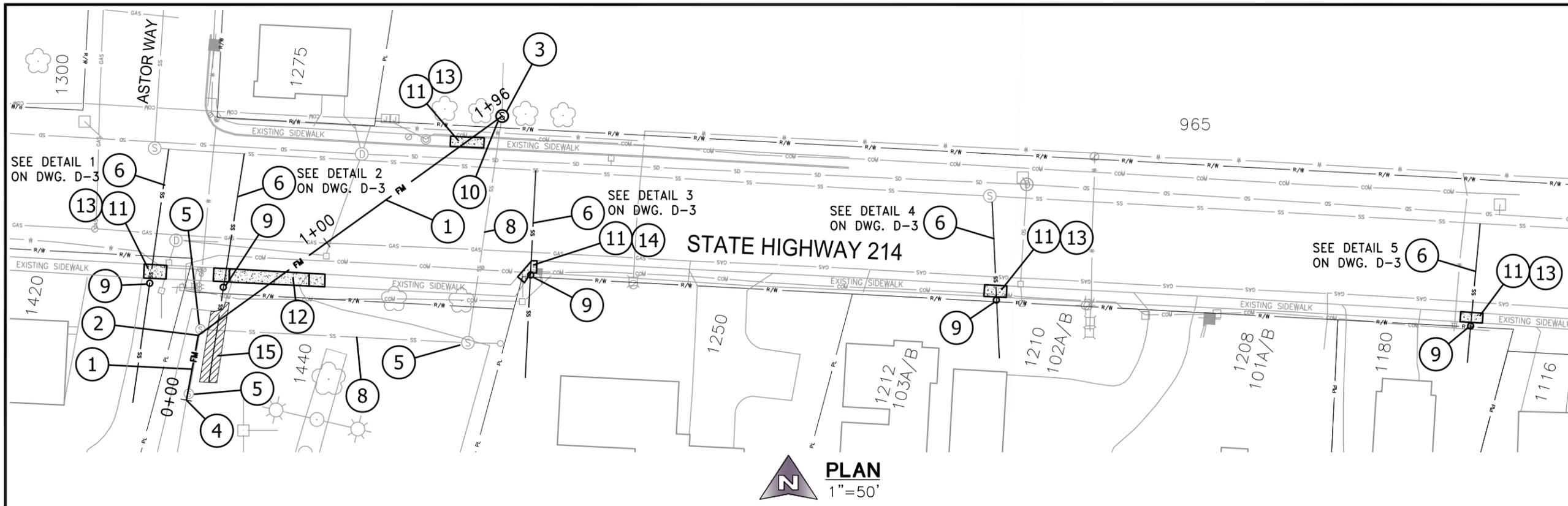


REVISIONS:		

I-5 INTERCHANGE - FORCE MAIN AND SANITARY SEWER SERVICES
RELOCATION EAST OF ASTOR WAY

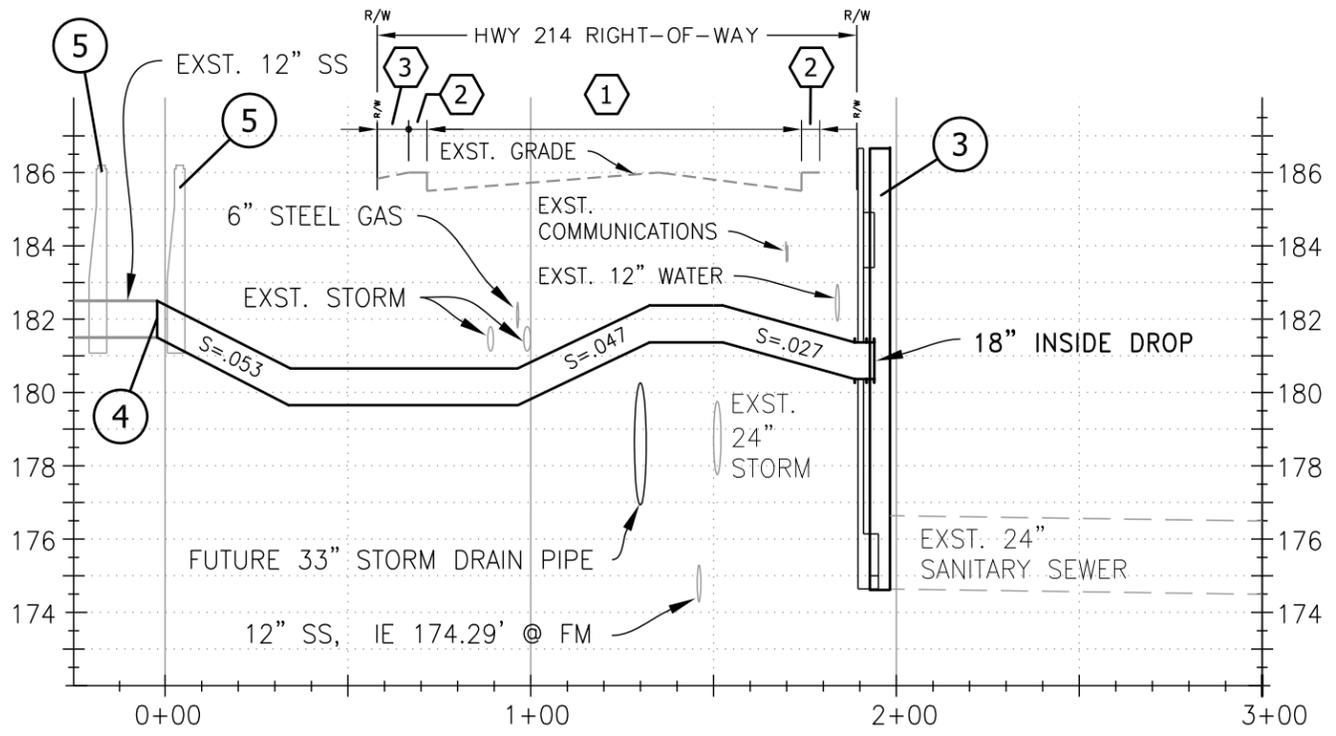
LEGENDS AND CONSTRUCTION NOTES

PROJECT NO. 2012-026-12
DATE FEB. 2013
DWG NO. G-2
SHEET 2 OF 9



PLAN
1"=50'

- PLAN NOTES:**
1. INSTALL 12" DI. CLASS 52 WITH PROTECTO 401 FORCE MAIN. ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL. USE FIELD LOCK GASKETS IN ALL PUSH-ON JOINTS.
 2. INSTALL 12" D.I CLASS 52 45° BEND WITH PROTECTO 401.
 3. REPLACE 48" MANHOLE WITH NEW 60" FLAT TOP MANHOLE, SEE DETAIL 1 ON DWG. D-1.
 4. CONNECT TO EXISTING 12" LINE, IE 181.5.
 5. REMOVE EXISTING MANHOLE.
 6. INSTALL NEW SANITARY SERVICE AND CONNECT TO MAIN. SEE DETAIL 6200-3 ON DWG. D-1. SEE DETAILS ON DWG. D-3 FOR PIPE SIZE AND PROFILE.
 7. INSTALL CLEANOUT. SEE DETAIL 6200-3 ON DWG. D-1.
 8. ABANDON EXISTING SANITARY LINE AND FILL WITH CDF AFTER NEW FORCE MAIN IS INSTALLED.
 9. INSTALL NEW CLEANOUT. SEE DETAIL 6200-3 ON DWG. D-1
 10. CONSTRUCT OUTSIDE DROP. SEE DETAIL 1 ON DWG. D-1.
 11. CONSTRUCT 5FT WIDE SIDEWALK. SEE ODOT'S STANDARD DETAIL RD720 ON SHEET 8.
 12. CONSTRUCT CURBLINE SIDEWALK DRIVEWAY AS PER ODOT'S STANDARD DETAIL RD735 ON SHEET 9.
 13. CONSTRUCT CURB AND GUTTER. SEE ODOT'S STANDARD DETAIL RD700 ON SHEET 7.
 14. CONSTRUCT STANDARD CURB. SEE ODOT'S STANDARD DETAIL RD700 ON SHEET 7.
 15. RESTORE TRENCH CAP MIN. 4" THICK OF HMAC AT THE PARKING LOT.



PROFILE
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

- GENERAL NOTES:**
1. RESTORE HMAC PAVEMENT AND BACKFILL TRENCH AS PER ODOT'S T-CUT TYPICAL SECTION, SEE DETAIL ON DWG. D-2.
 2. RESTORE SIDEWALK SURFACE AND BACKFILL AS PER ODOT'S TYPICAL SECTION UNDER SIDEWALK, SEE DETAIL ON DWG. D-2.
 3. CONTRACTOR SHALL SUBMIT BY-PASS PLAN PRIOR TO CONSTRUCTION.

BID SET



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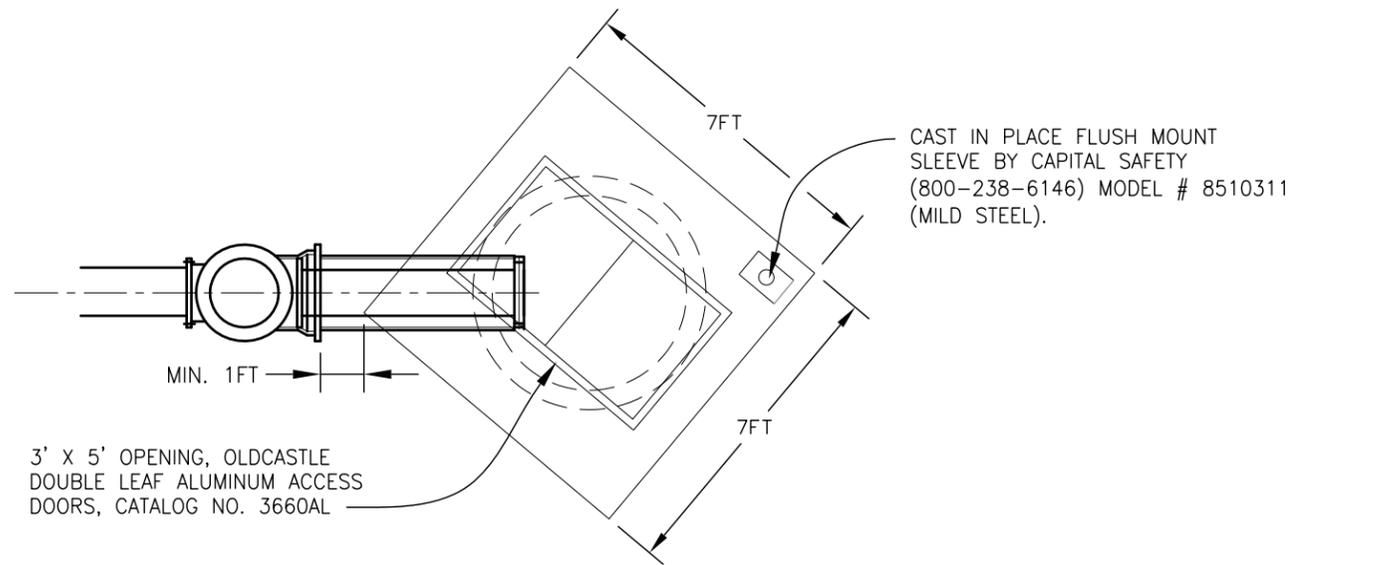


REVISIONS:	

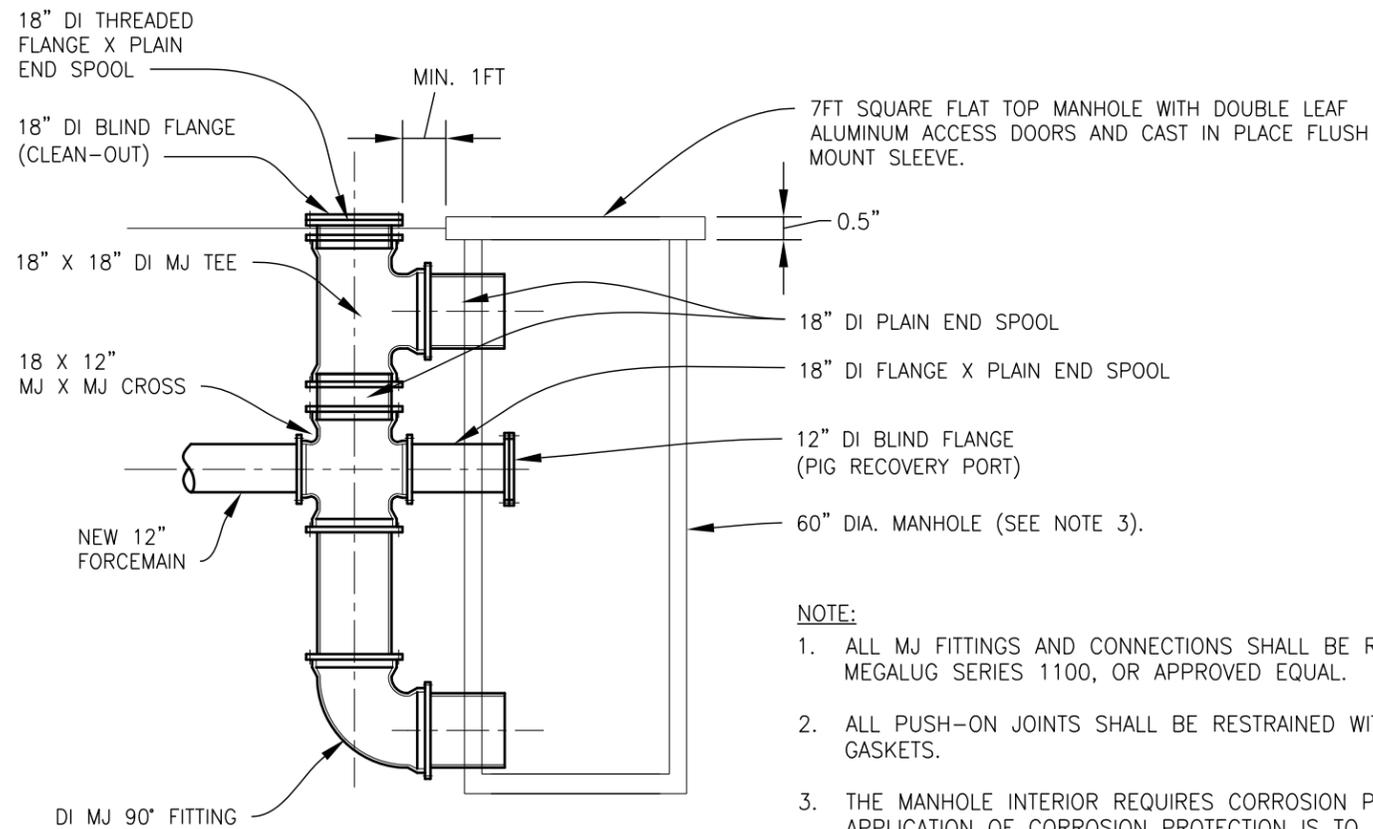
I-5 INTERCHANGE - FORCE MAIN AND SANITARY SEWER SERVICES
 RELOCATION EAST OF ASTOR WAY

PLAN AND PROFILE

PROJECT NO. 2012-026-12
DATE FEB. 2013
DWG NO. C-1
SHEET 3 OF 9



CAST IN PLACE FLUSH MOUNT SLEEVE BY CAPITAL SAFETY (800-238-6146) MODEL # 8510311 (MILD STEEL).

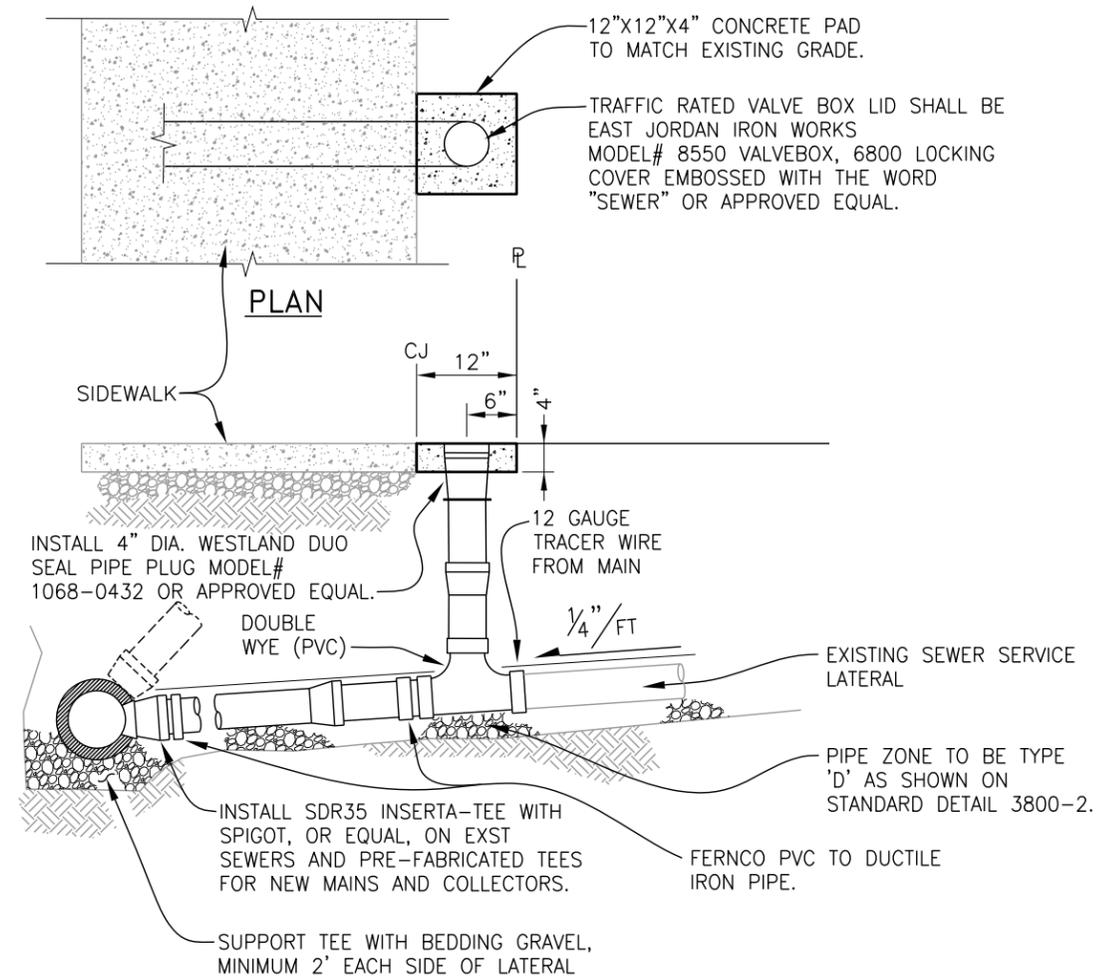


NOTE:

1. ALL MJ FITTINGS AND CONNECTIONS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL.
2. ALL PUSH-ON JOINTS SHALL BE RESTRAINED WITH FIELD LOCK GASKETS.
3. THE MANHOLE INTERIOR REQUIRES CORROSION PROTECTION. THE APPLICATION OF CORROSION PROTECTION IS TO BE INSPECTED AND APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE CORROSION MATERIAL AND APPLICATION RATE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO APPLICATION.

OUTSIDE DROP DETAIL AND MANHOLE

SCALE: NTS



ELEVATION

NOTES:

1. PIPE AND FITTINGS SHALL BE COMPATIBLE. ONLY MANUFACTURED FITTINGS SHALL BE USED.
2. MINIMUM DEPTH AT RIGHT-OF-WAY OR EASEMENT LINE SHALL BE 4 FEET.
3. REFERENCE TECHNICAL SPEC. SECTION 6200.

SEWER SERVICE CONNECTION

SCALE: NTS

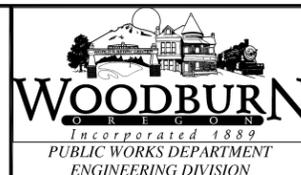
6200-3



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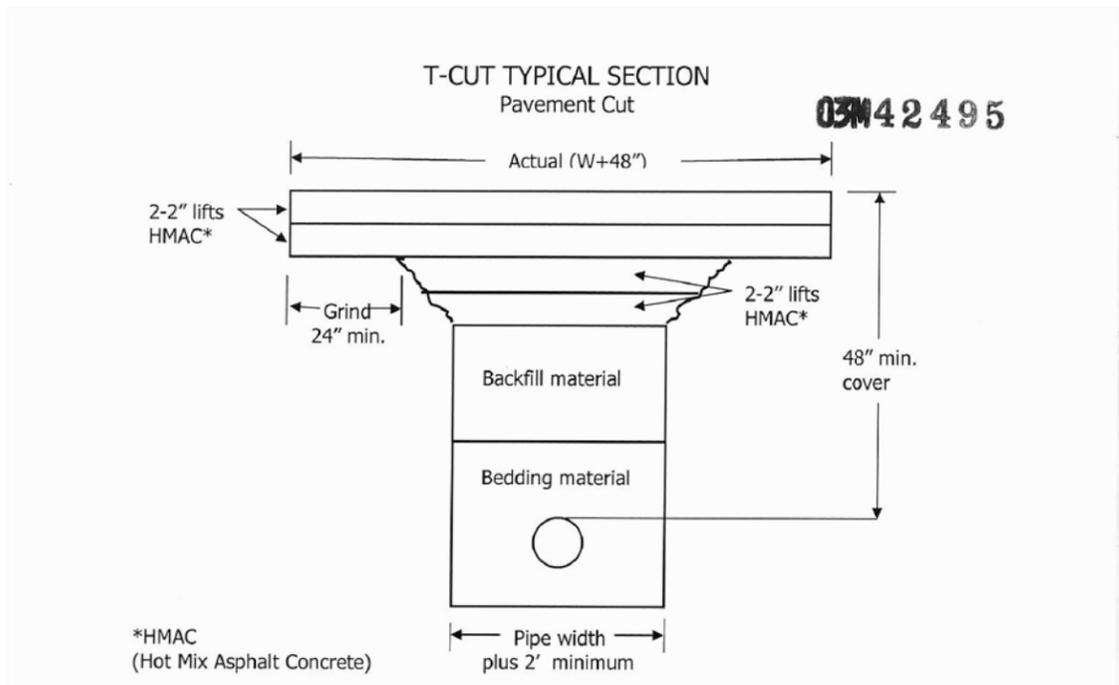
REVISIONS:	

I-5 INTERCHANGE - FORCE MAIN AND SANITARY SEWER SERVICES
 RELOCATION EAST OF ASTOR WAY

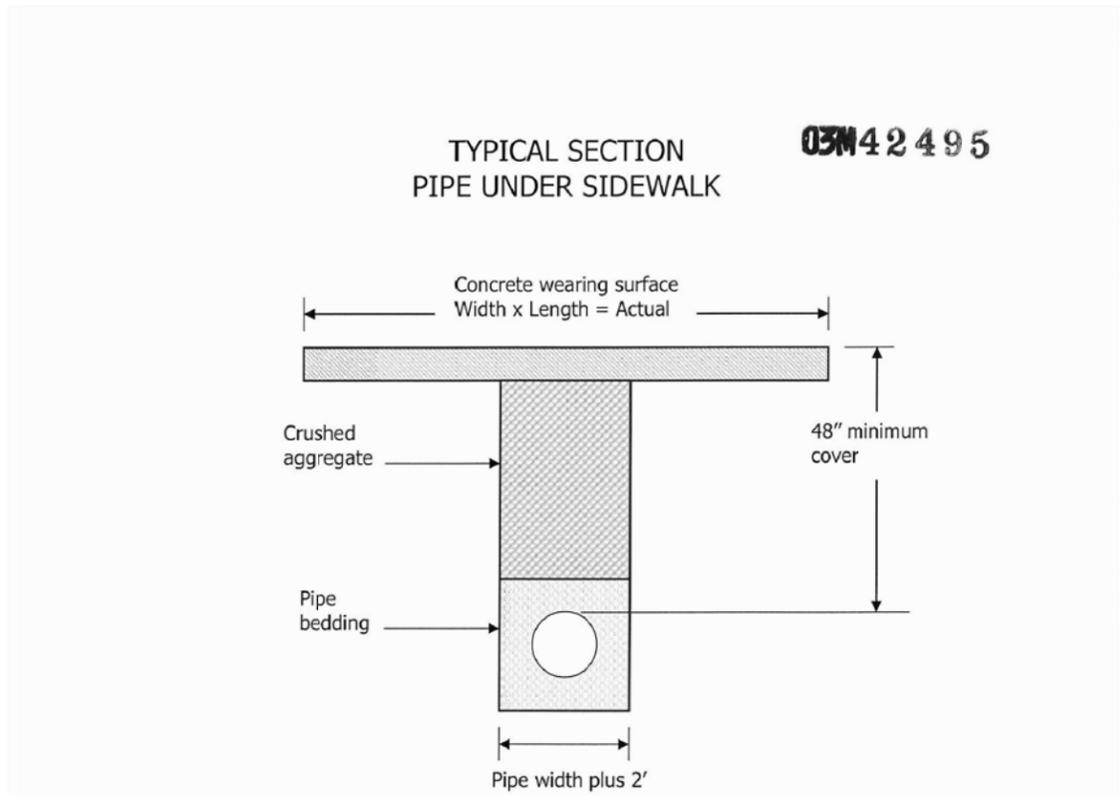
DETAIL SHEET

BID SET

PROJECT NO. 2012-026-12
DATE FEB. 2013
DWG NO. D-1
SHEET 4 OF 9



- Grind a 48" perimeter at a depth of 4".
- Minimum cover between top of utility and wearing surface is to be no less than 48-inches.
- Asphalt emulsion tack coat shall be used to seal the HMAC* to the edges of the existing asphalt pavement. Saw cut all pavement edges, cuts are to be vertical and clean. Use tack coat on surface and edges of grind out.
- The minimum HMAC* depth is to be eight inches or match existing whichever is greater. (By this reference the eight-inch minimum supersedes the six-inch minimum as noted in the General Provisions).
- The wearing surface is to have a minimum of 2-2" lifts of compacted class 'C' HMAC*.
- Backfill material to be either CDF (control density fill), 1"-0 or 3/4"-0 crushed rock compacted to 95% relative maximum density per AASHTO T-99 placed in 12-inch lifts. Crushed rock shall meet State specifications.
- Bedding material is to be clean sand or equivalent.
- For temporary pavement restoration use cold patch. Patch to be maintained until full pavement restoration is made using HMAC*. Cold patch to be removed and replaced with HMAC* within five calendar days or as directed by ODOT in writing.
- Pavement markings/legends that are removed are to be restored with like kind materials or per agreement of the District Manager.
- Applicant will be responsible for pavement stress or settlement of the T-cut restoration for a minimum of two-years.

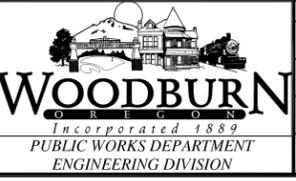


- All edges shall be smooth cut to a sufficient depth allowing removal of concrete without damage to the remaining sidewalk. Cuts are to be made at the concrete joints whenever possible.
- Backfill to be either 1"-0 or 3/4"-0 moist crushed aggregate compacted to a minimum of 95% of the maximum density of the material placed in 6" maximum lifts.
- Applicant will be responsible for the condition of the sidewalk repair for a minimum of two years and shall repair any areas that settle, crack, break or are otherwise found faulty. Any area found to be unsafe will be repaired immediately.
- If necessary cold patch may be used for temporary or emergency patches. These patches are to be removed and replaced with concrete within 24 hours.



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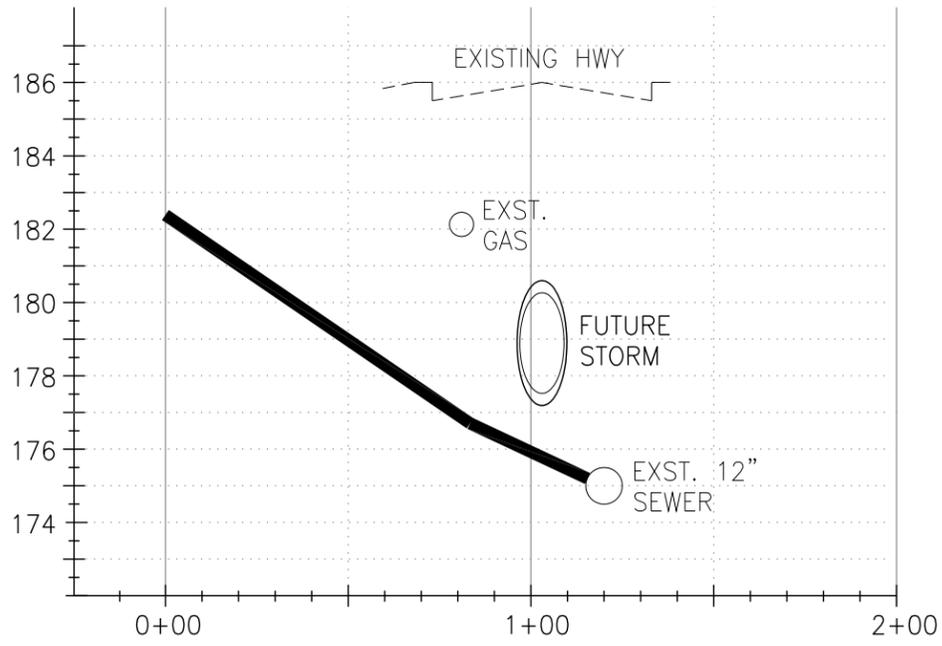


REVISIONS:	

I-5 INTERCHANGE – FORCE MAIN AND SANITARY SEWER SERVICES
 RELOCATION EAST OF ASTOR WAY

DETAIL SHEET

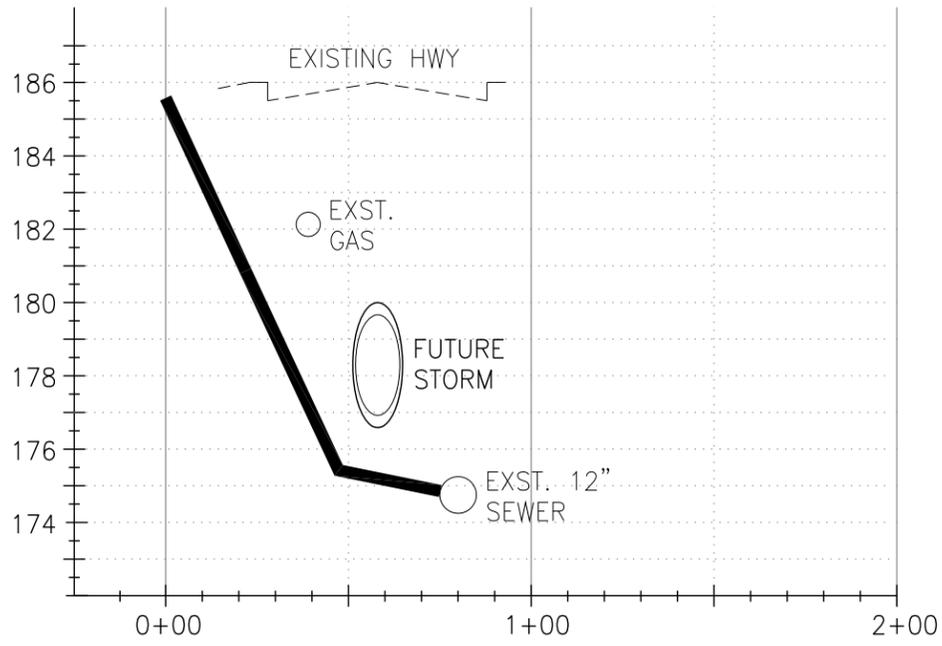
BID SET	
PROJECT NO.	2012-026-12
DATE	FEB. 2013
DWG NO.	D-2
SHEET	5
OF	9



4" SANITARY SEWER SERVICE @ 1420 NEWBERG HWY

SCALE: HORIZONTAL 1:50 VERTICAL 1:5

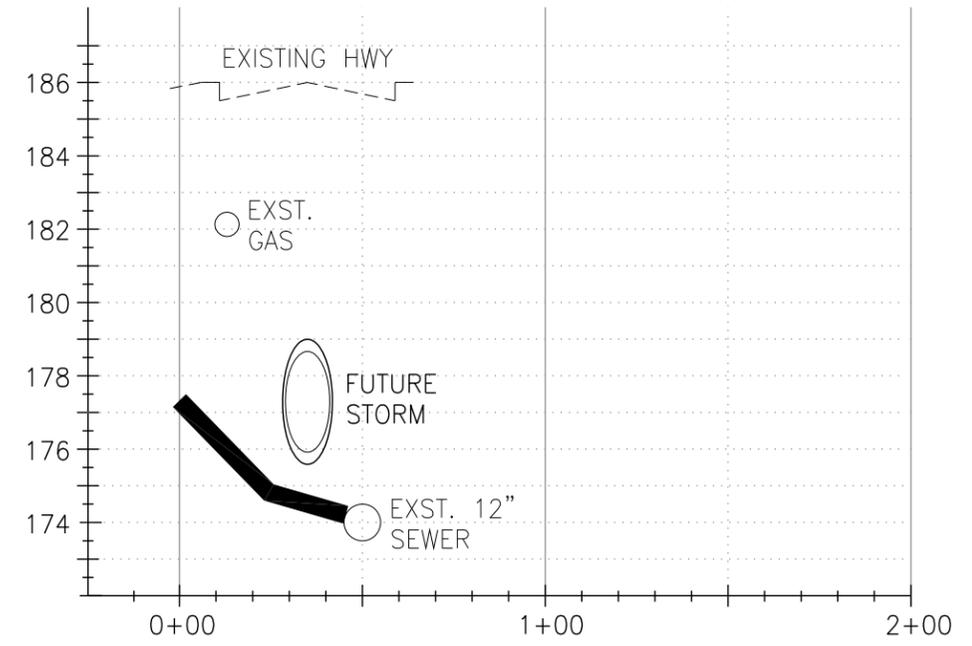
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4" SANITARY SEWER SERVICE @ 1250 NEWBERG HWY

SCALE: HORIZONTAL 1:50 VERTICAL 1:5

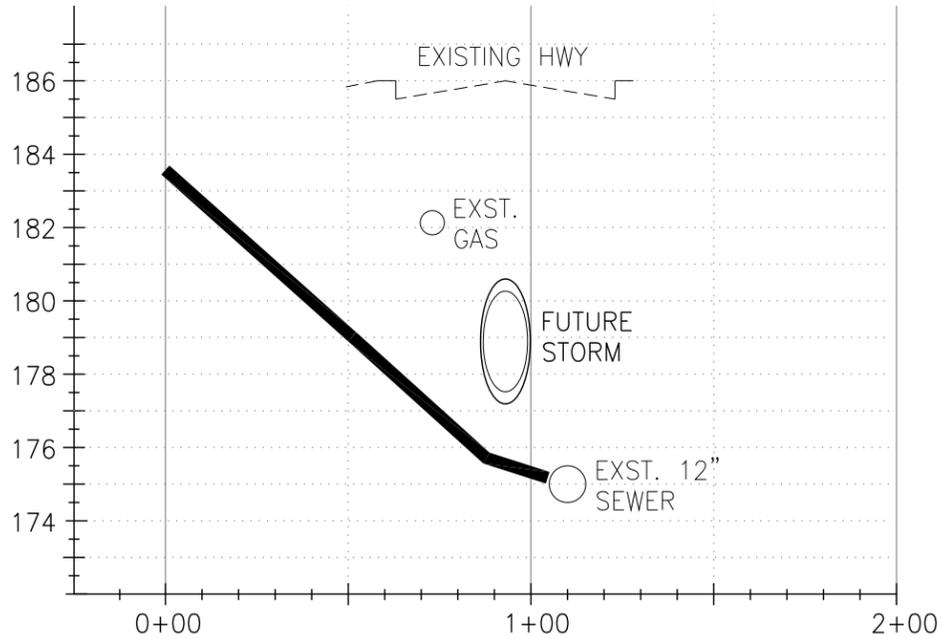
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6" SANITARY SEWER SERVICE @ 1180 NEWBERG HWY

SCALE: HORIZONTAL 1:50 VERTICAL 1:5

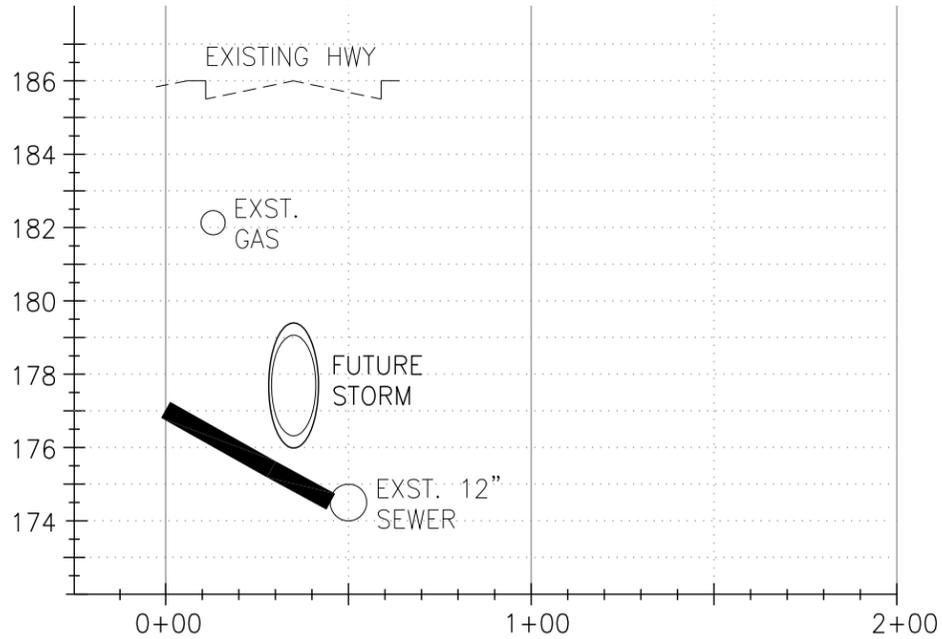
5



4" SANITARY SEWER SERVICE @ 1440 NEWBERG HWY

SCALE: HORIZONTAL 1:50 VERTICAL 1:5

2



6" SANITARY SEWER SERVICE @ 1210 NEWBERG HWY

SCALE: HORIZONTAL 1:50 VERTICAL 1:5

4

GENERAL NOTES:

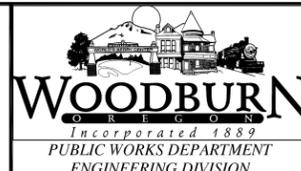
1. CLEANOUTS TO BE INSTALLED ON EACH SANITARY SEWER SERVICE LINE PER DWG. C-1.



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REVISIONS:	

I-5 INTERCHANGE - FORCE MAIN AND SANITARY SEWER SERVICES RELOCATION EAST OF ASTOR WAY

SANITARY SEWER SERVICES PROFILES

BID SET

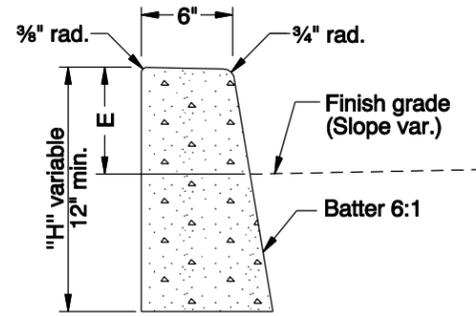
PROJECT NO. 2012-026-12

DATE FEB. 2013

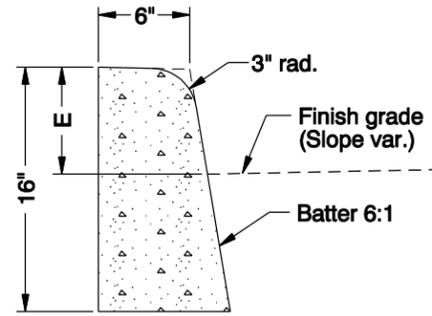
DWG NO. D-3

SHEET 6 OF 9

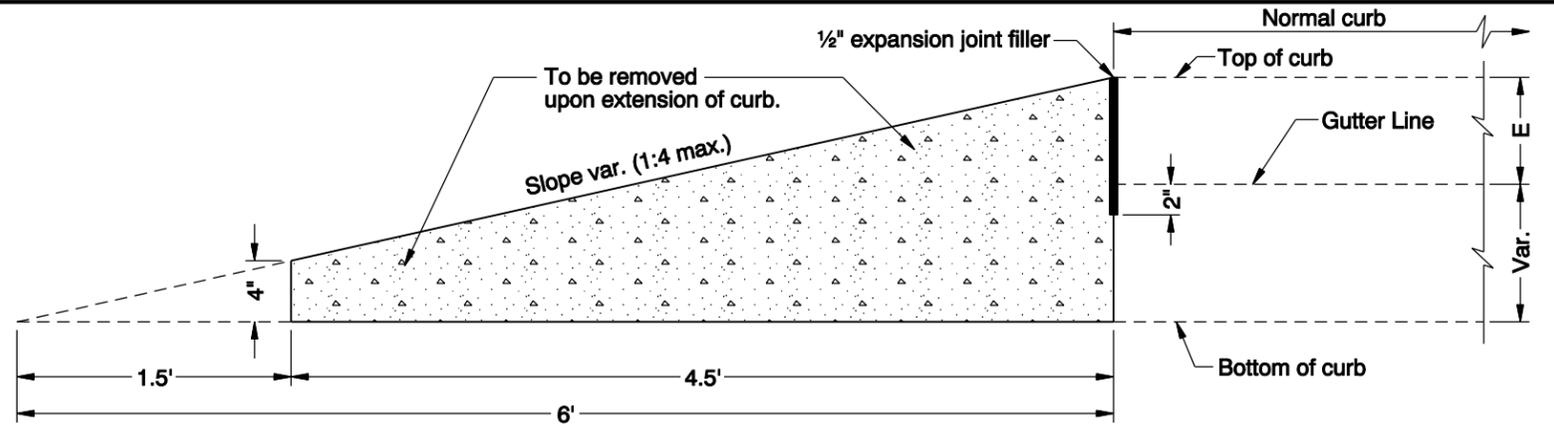
rd700.dgn 30-JUN-2009



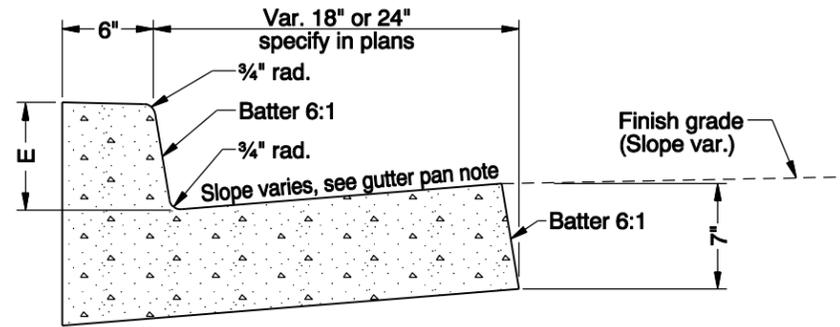
O.D.O.T. & City of Portland Standard "H"⁼16"
STANDARD CURB



MOUNTABLE CURB

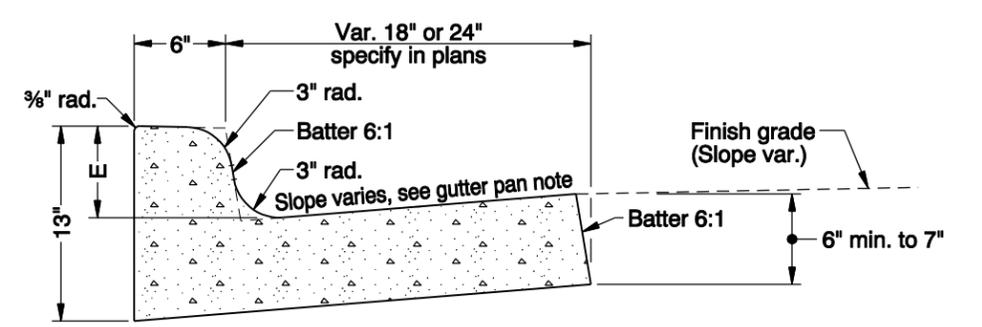


CURB ENDING DETAIL

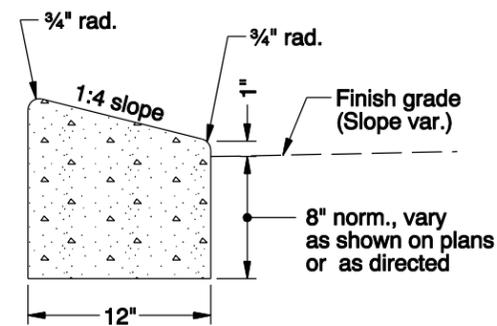


CURB AND GUTTER

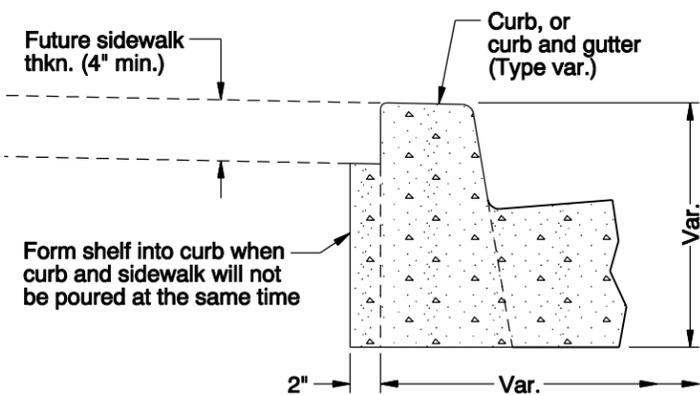
GUTTER PAN NOTES:
Slope 8% normal.
Use 5% slope for gutter width greater than 24".
Slope 4% at ramps. Vary slope as reqd. for drainage.
Vary where shown on plans, and allowed by jurisdiction.



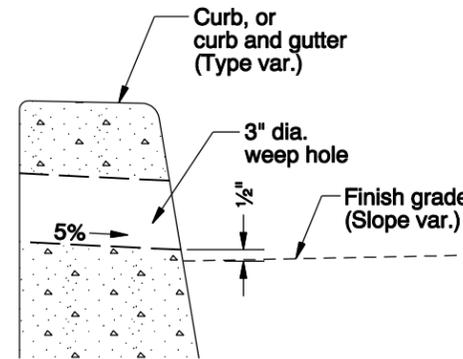
MOUNTABLE CURB AND GUTTER



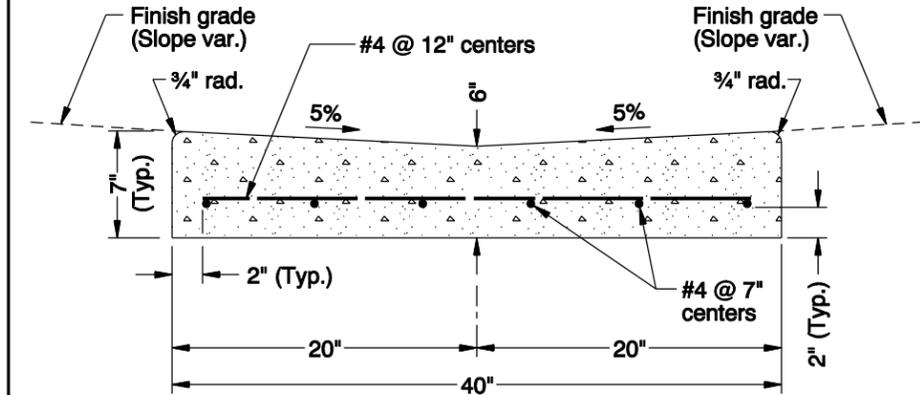
LOW PROFILE
MOUNTABLE CURB



MODIFICATION FOR KEYWAY
(Where shown on plans)



WEEP HOLE DETAIL
(Where shown on plans, and allowed by jurisdiction)



VALLEY GUTTER

CALC. BOOK NO. N/A
BASELINE REPORT DATE 30-JUN-2009

GENERAL NOTES FOR ALL DETAILS:

1. Curb exposure "E" = 6" to 9", as measured vertically from flowline to highest point on curb. Vary as shown on plans or as directed. O.D.O.T standard "E"⁼7".
2. Const. expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveways.
3. Const. contraction joints at 15' maximum spacing, and at ends of each inlet and ramp.
4. Transitions shall be used to connect curbs of different exposures "E". ("E" is the total vertical dimension of those curb surfaces having a slope of 1:1 or steeper). Minimum desirable transition length shall be 20' for each 1" difference in "E".

5. Tops of all curbs shall slope toward the roadway at 2% normal, unless otherwise shown, or as directed.
6. Dimensions are nominal, vary to conform with curb machine approved by the engineer.
7. Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
8. For sidewalk details, and monolithic curb & sidewalk, see Std. Drg. RD720.
9. For drainage curbs, see Std. Drg. RD701.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

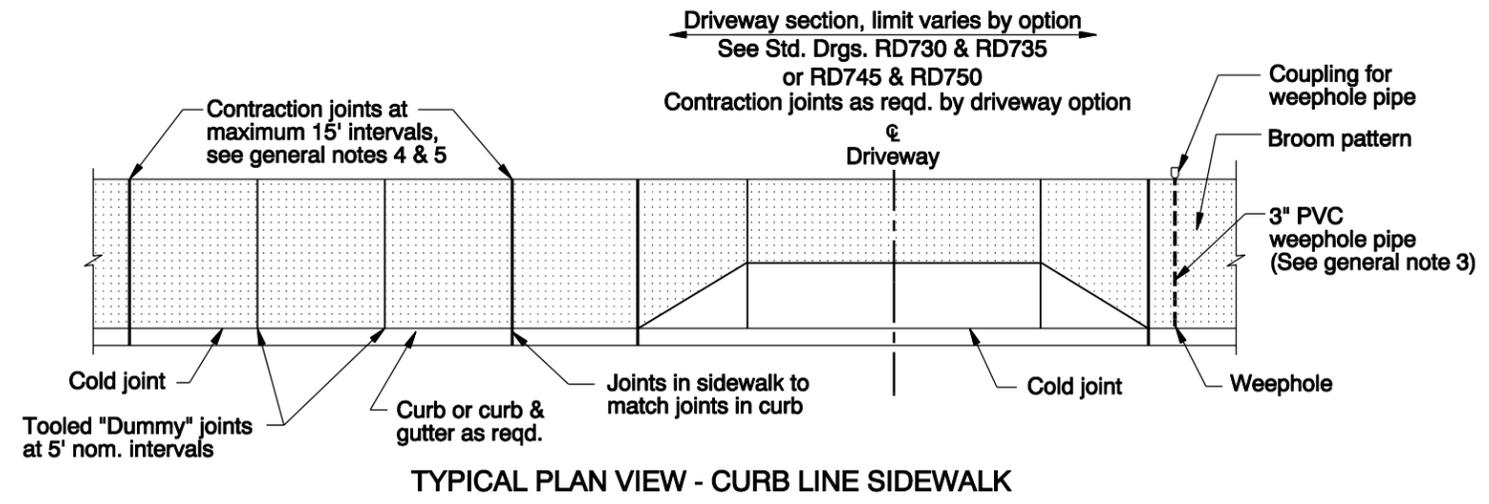
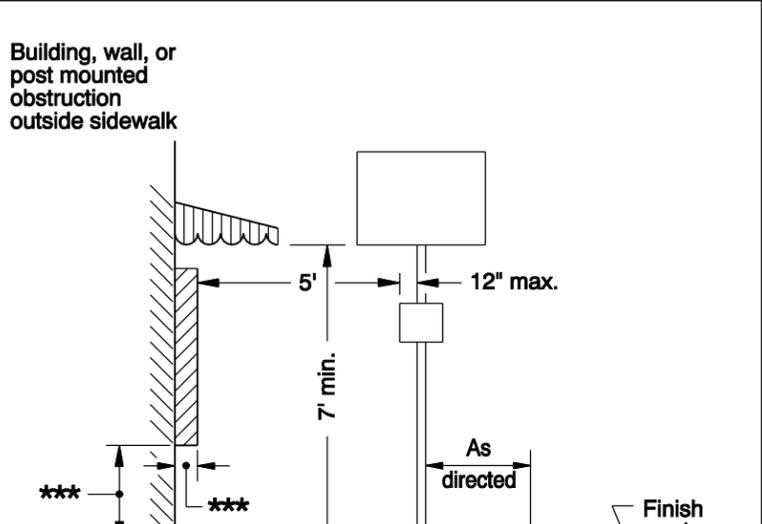
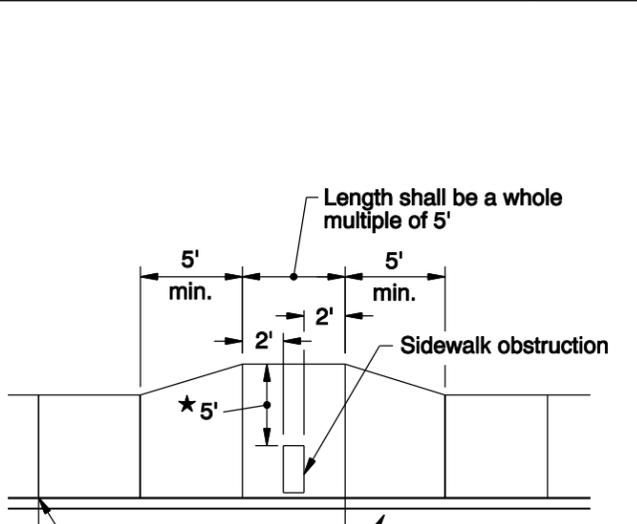
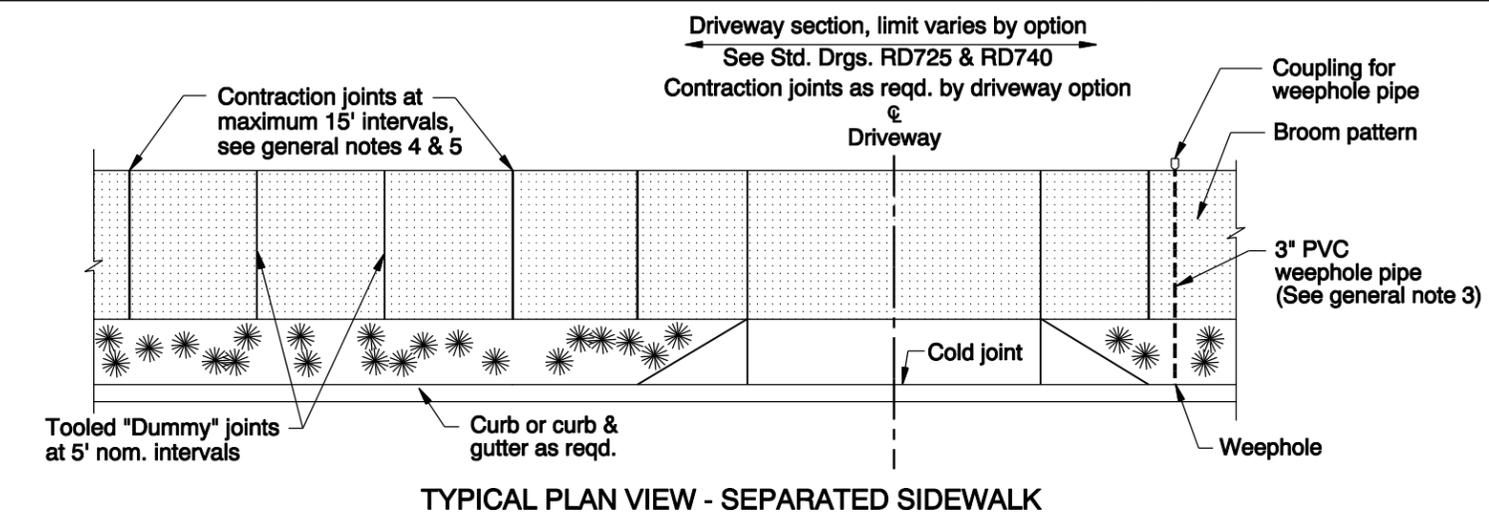
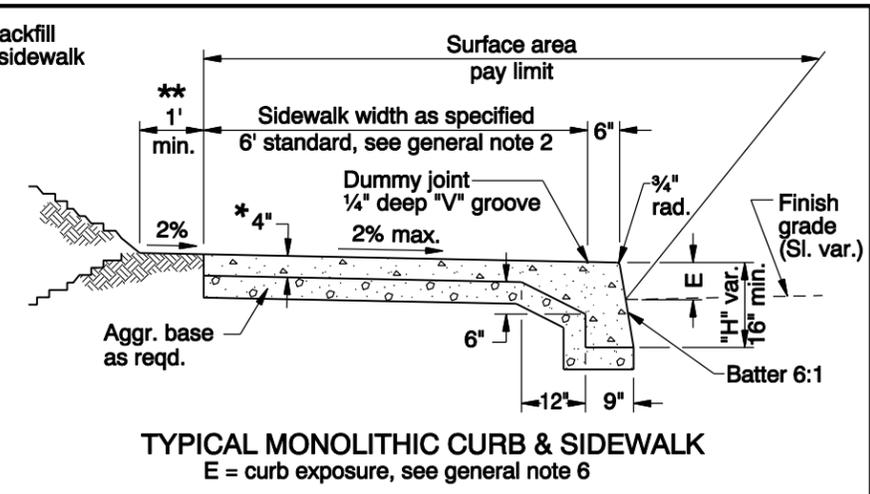
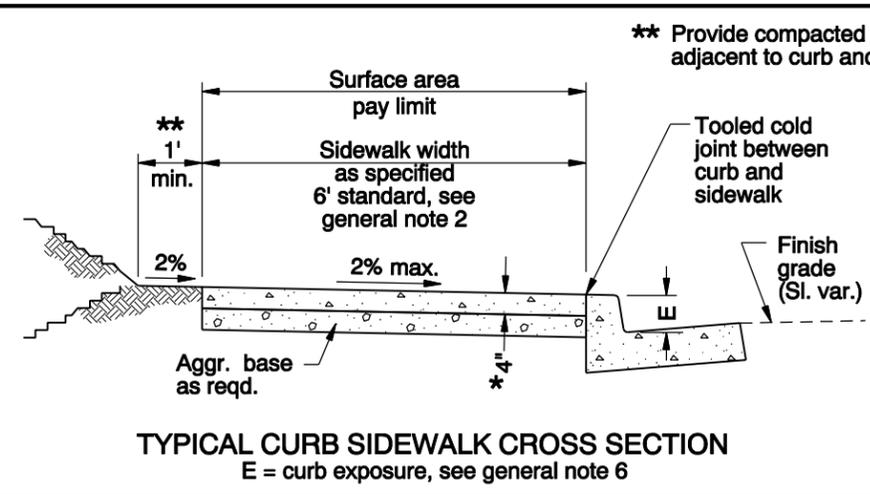
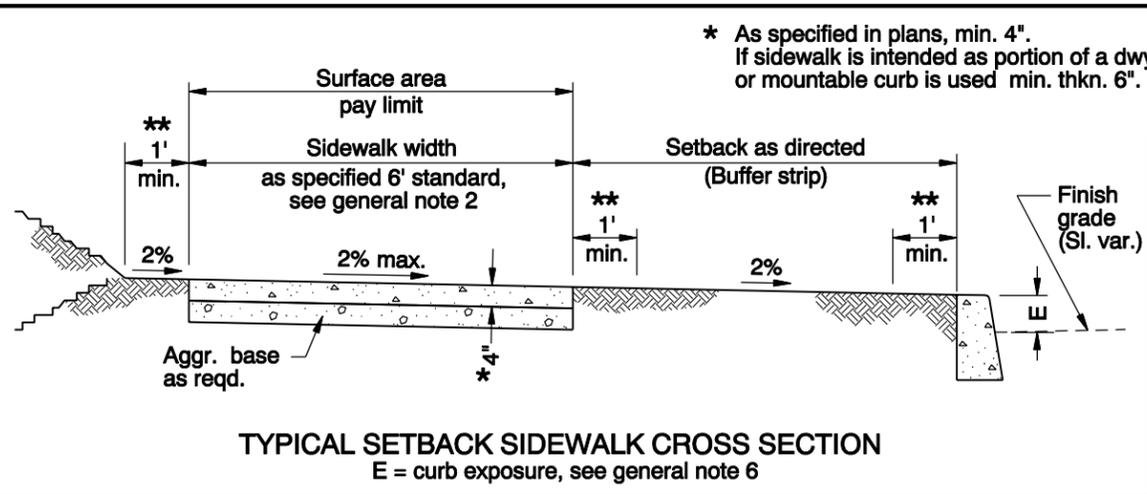
CURBS

2008

DATE	REVISION	DESCRIPTION
07-2009	REVISED	DETAILS & NOTES

RD700

rd720.dgn 31-DEC-2009



★ When site constraints prohibit a 5' passage, the Engineer may direct this to be reduced, but no less than 4'.

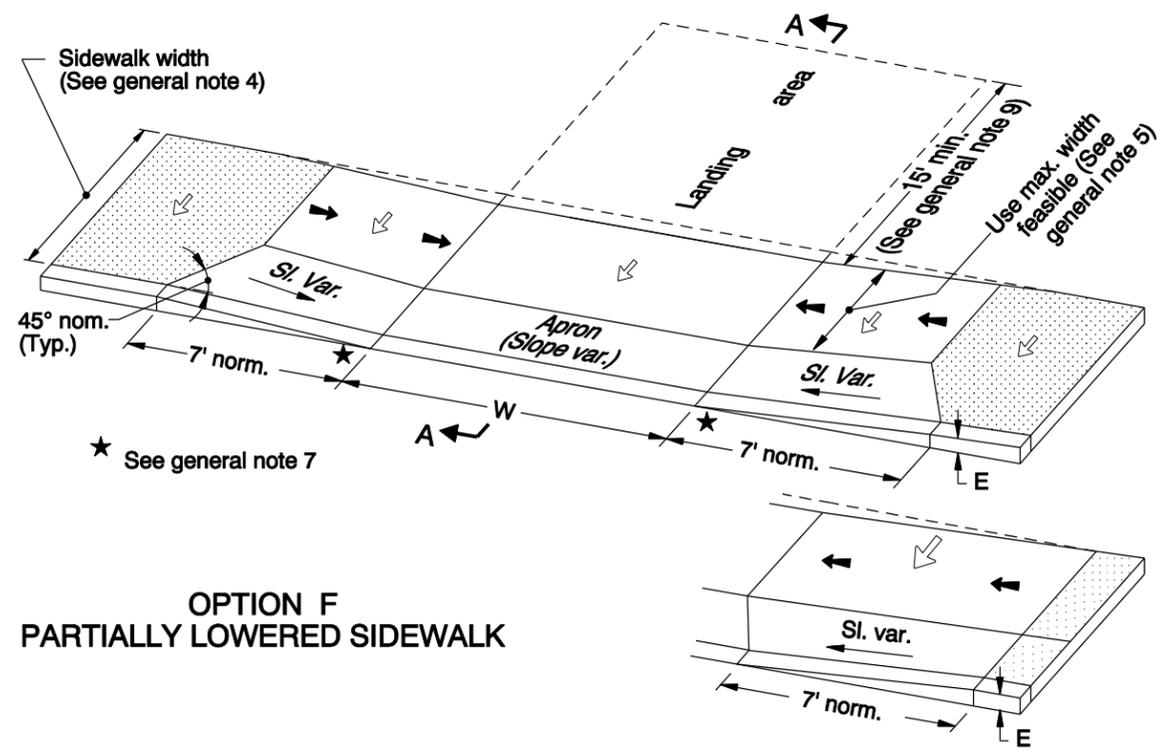
- GENERAL NOTES FOR ALL DETAILS:**
1. Include additional paved or unpaved 2' clearance to vertical faces higher than 5' such as retaining walls, sound walls, fences and buildings.
 2. Curb type and sidewalk width as shown on plans or as directed. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.
 3. Install 3" pvc weephole pipes in sidewalks where shown on plans, and allowed by jurisdiction. Place contraction joint over top of pipe.

4. Const. expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveway. For monolithic curb & sidewalk, const. expansion joints at 45' maximum spacing.
5. Const. contraction joints at 15' maximum spacing, and at ends of each driveway and ramp.
6. For curb details, see Std. Drgs. RD700 & RD701.
7. Sidewalk details are based on United States Access Board Standards.
8. For driveway details, see Std. Drgs. RD725, RD730, RD735, RD740, RD745 & RD750.

CALC. BOOK NO. N/A	BASELINE REPORT DATE 11-DEC-2009
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
OREGON STANDARD DRAWINGS	
SIDEWALKS	
2008	
DATE	REVISION DESCRIPTION
06-2009	REVISED DETAILS & NOTES
12-2009	REVISED DETAILS, DETAIL TITLES & NOTES

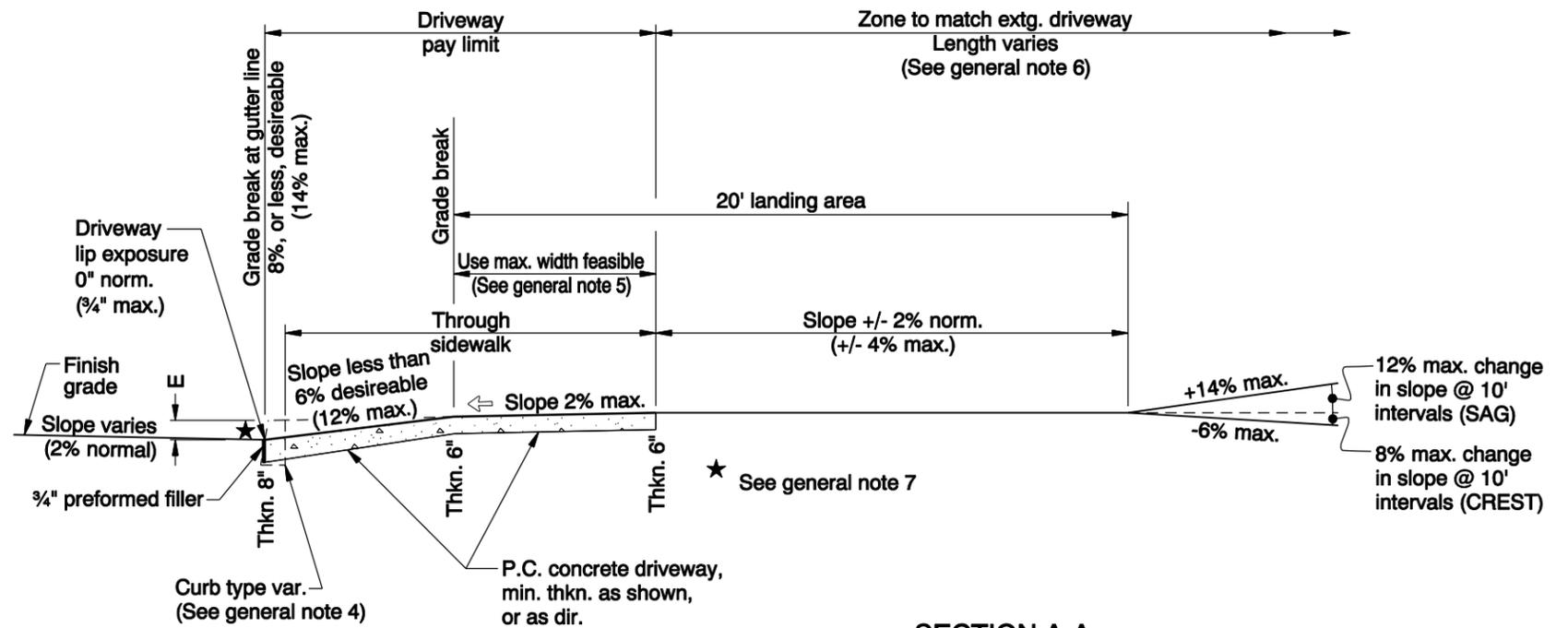
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

rd735.dgn 15-JUL-2011

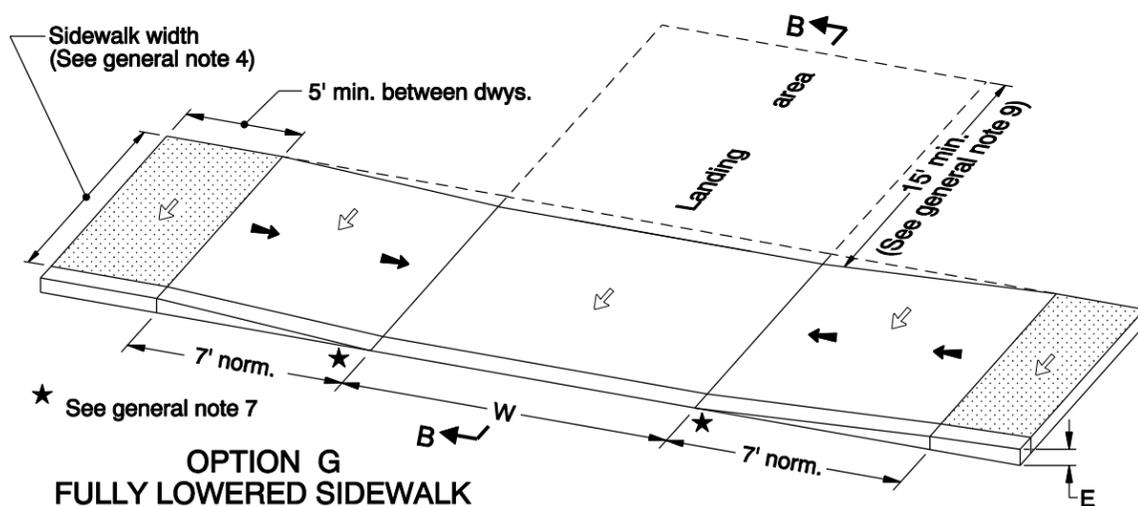


**OPTION F
PARTIALLY LOWERED SIDEWALK**

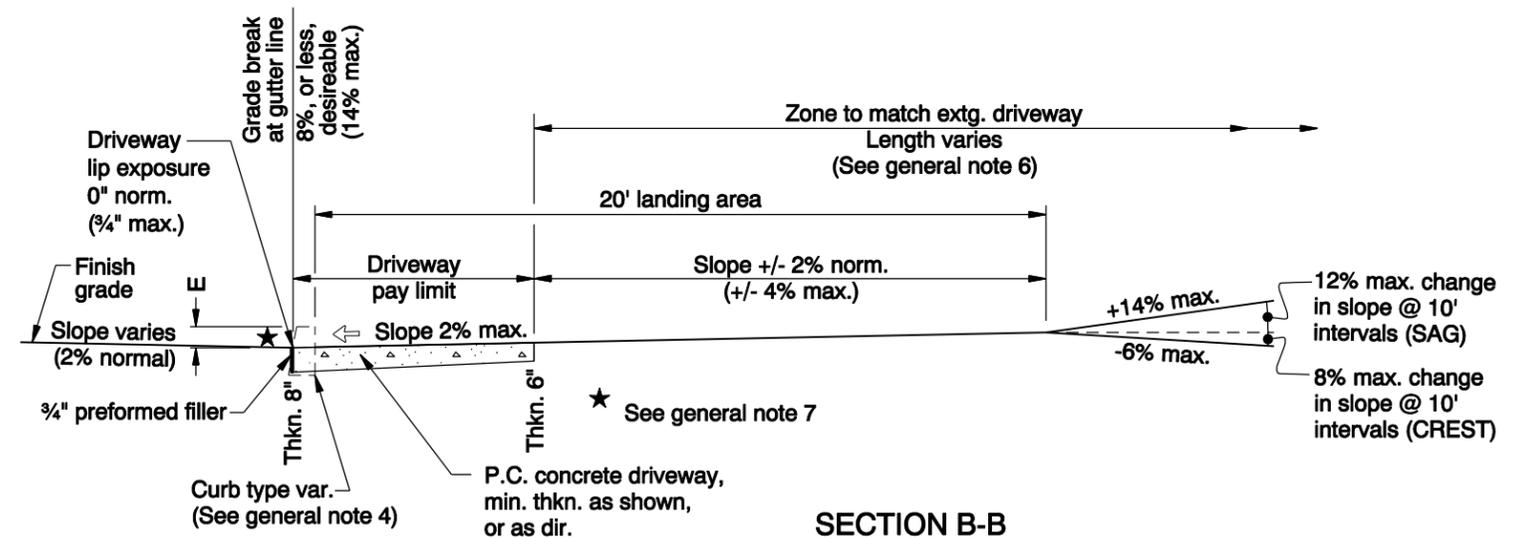
ALTERNATE SLOPE CONSTRUCTION DETAIL



SECTION A-A



**OPTION G
FULLY LOWERED SIDEWALK**



SECTION B-B

GENERAL NOTES FOR ALL DETAILS:

1. Details are based on United States Access Board Standards.
2. Only use details allowed by jurisdiction.
3. The following dimensions are as shown on plans, or as directed: driveway width, driveway slope, sidewalk width, curb exposure, driveway lip exposure, landing area length and width.
4. Curb, gutter, and sidewalk types varies, see plans. See Std. Drgs. RD700 & RD701 for curb details. See Std. Drg. RD720 for sidewalk details.
5. 4' unobstructed clear passage with slope of 2% max. is required behind driveway apron. 3.5' width is acceptable where sidewalk width is less than standard 6'.
6. Where existing driveway is in good condition, and meets slope requirements, construct only as much as required for satisfactory connection with new work.
7. Check the gutter flow depth at driveway locations to assure that the design flood does not overtop the back of sidewalk at driveway. If overtopping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
8. Tooled joints are required at all driveway slope break lines.
9. 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.
10. Monolithic curb & sidewalk shall retain thickened edge through lowered profile, to accommodate driveway use. See Std. Drg. RD720 for details.
11. In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".

- ↖ Slope 2% max.
- ← Slope 8.33% (1":12") max. (Ramp length 15' max.) (See general note 11)
- W Width of driveway
- E Curb exposure

CALC. BOOK NO. N/A

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

BASELINE REPORT DATE 14-JUL-2011

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS
CURB LINE SIDEWALK DRIVEWAYS
OR ALLEYS (OPTIONS F & G)
ODOT HIGHWAYS**

2008

DATE	REVISION DESCRIPTION
06-2009	REVISED DETAILS & NOTES
12-2009	REVISED DETAIL
07-2010	REVISED DETAILS & NOTES
07-2011	REVISED DETAILS & NOTES

RD735