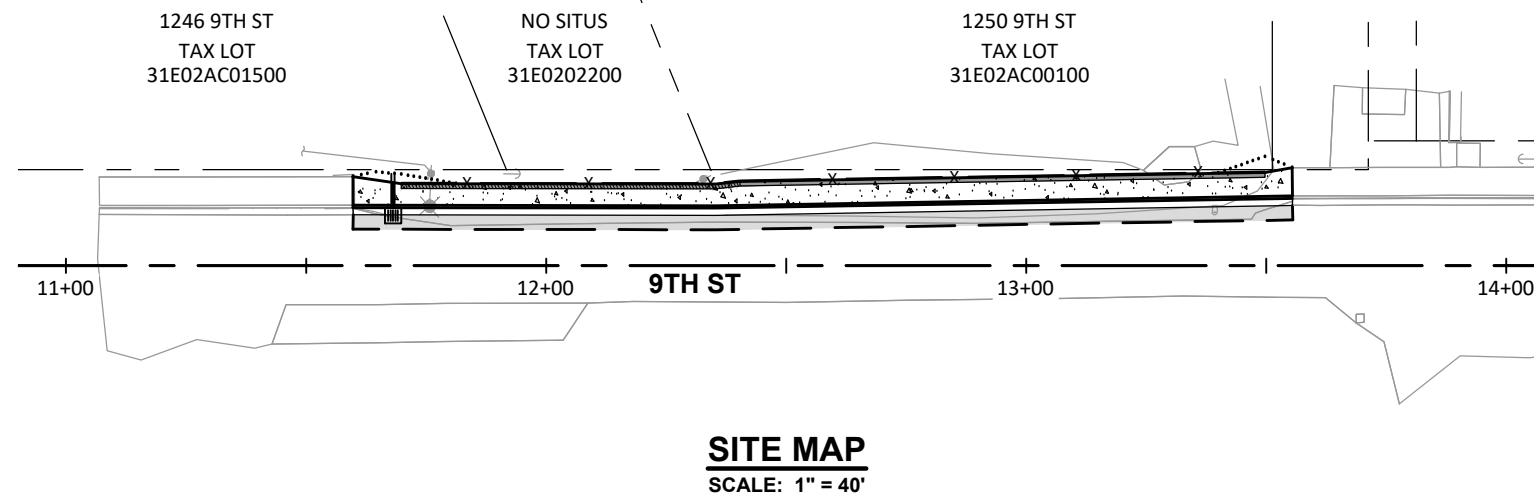
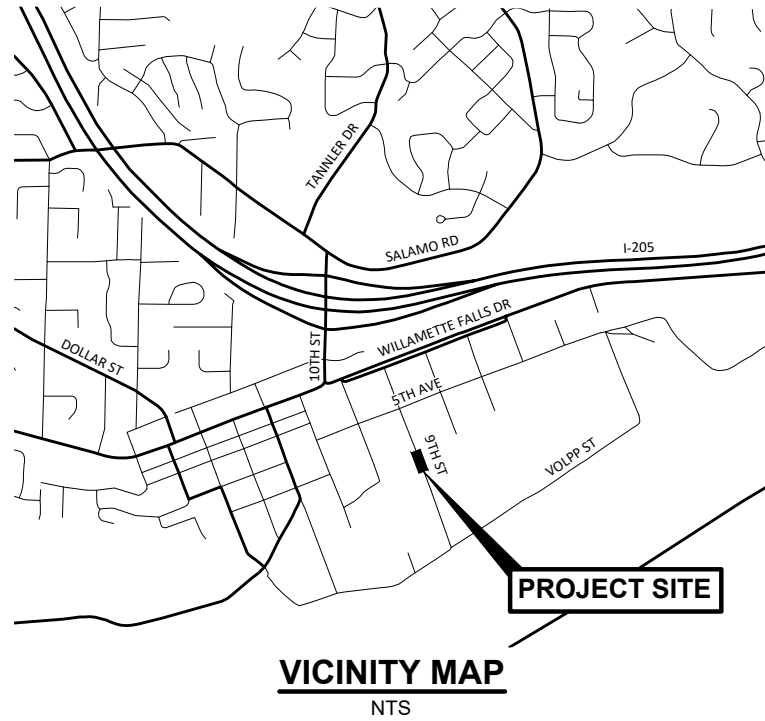


9TH ST SIDEWALK

WEST LINN, OREGON



OWNER/DEVELOPER

CITY OF WEST LINN
DEPARTMENT OF PUBLIC WORKS
22500 SALAMO RD
WEST LINN, OR 97068
CONTACTS:
ERICH LAIS, PE
PHONE:(503) 722-3434
CLARK IDE, PE
PHONE:(503) 722-3437

ENGINEER

HARPER HOUF PETERSON RIGHELLIS INC.
205 SE SPOKANE STREET, SUITE 200
PORTLAND, OREGON 97202
PHONE: (503) 221-1131
CONTACTS: JIMMY HOUF, PE

SITE INFORMATION

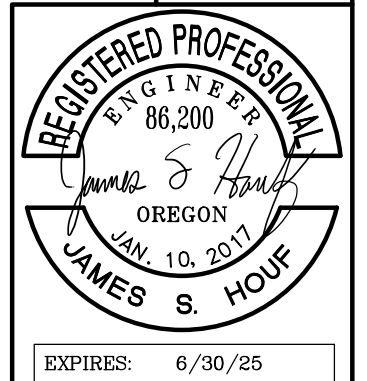
WILLAMETTE MERIDAN
CLACKAMAS COUNTY, OREGON
TOWNSHIP 3S, RANGE 1E, SECTION 2

SHEET INDEX

Sht. No.	Sheet Title
A01	COVER SHEET
B01	TYPICAL SECTIONS
C01	9TH ST PLAN AND PROFILE
DC01 - DC06	STANDARD DETAILS
WA01 - WA02	WALL PLAN AND DETAILS
XS01	CROSS SECTIONS

COVER SHEET
9TH STREET SIDEWALK
WEST LINN, OREGON

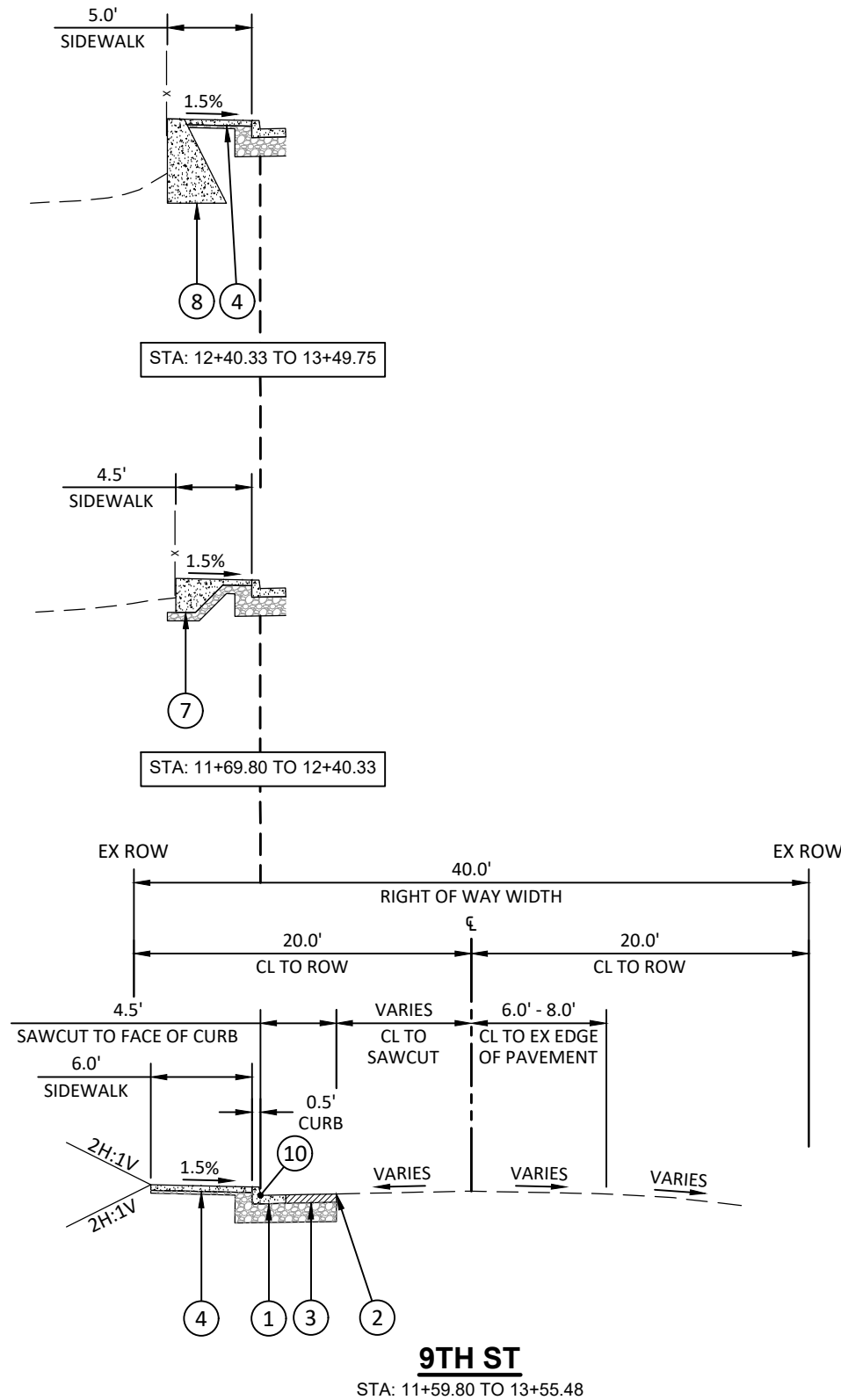
Harper Houf Peterson
Righellis Inc.
ENGINEERS * PLANNERS
LANDSCAPE ARCHITECTS * SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com fax: 503.221.1171



DESIGNED: HHPR TEAM	SHEET NO. A01
DRAWN: JCW	
CHECKED: JSH	
DATE: 3-14-25	JOB NO. CWL-13

BID SET

**TYPICAL SECTIONS SHOWN
(SEE SHEET C01 FOR LOCATIONS OF VARIATION)**



9TH ST

STA: 11+59.80 TO 13+55.48

CONSTRUCTION NOTES:

- ① CONSTRUCT CURB AND GUTTER (E=6"; GUTTER PAN=18") PER CITY DWG WL-RD700 ON SHEET DC01.
- ② SAWCUT EXISTING ASPHALT.
- ③ CONSTRUCT ROADWAY PAVEMENT SECTION.
2" OF LEVEL 2, 1/2 INCH ACP (TOP LIFT)
2" OF LEVEL 2, 1/2 INCH ACP (BASE LIFT)
2" OF 3/4"-0 AGGREGATE BASE
10" OF 1 1/2"-0 AGGREGATE BASE
- ④ CONSTRUCT CONCRETE SIDEWALK.
4" OF PCC (MIN)
2" OF 3/4"-0 AGGREGATE BASE
- ⑦ CONSTRUCT THICKENED EDGE SIDEWALK WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE CL-4R. SEE "WA" SHEET SERIES FOR DETAILS.
- ⑧ CONSTRUCT CONCRETE GRAVITY WALL WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE. SEE "WA" SHEET SERIES FOR DETAILS.
- ⑩ FINISHED GRADE ELEVATION AT GUTTER. SEE PROFILE ON SHEET C01.

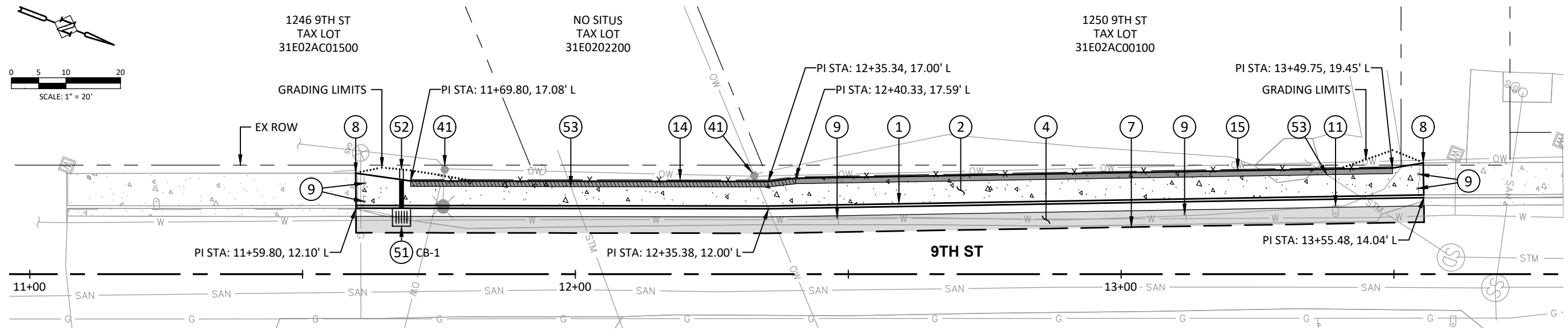
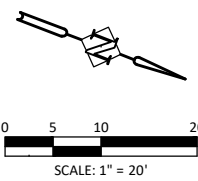
TYPICAL SECTIONS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson Righellis Inc.
ENGINEERS * PLANNERS
LANDSCAPE ARCHITECTS * SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

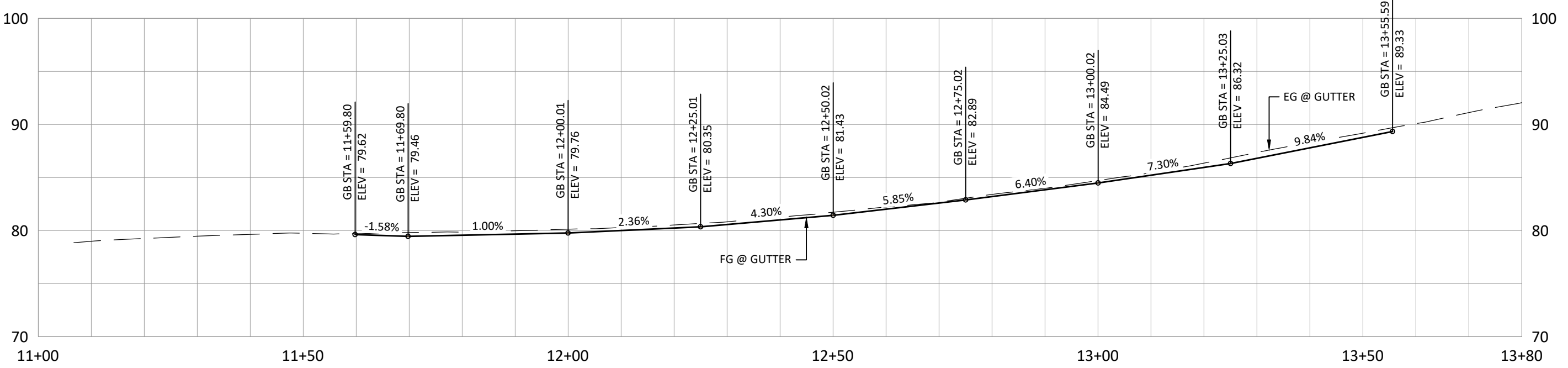


EXPIRES: 6/30/25

DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	B01
CHECKED: JSH	
DATE: 3-14-25	JOB NO. CWL-13



9TH ST - PLAN VIEW
SCALE: 1" = 20' (HORZ.)



9TH ST - PROFILE VIEW
SCALE: 1" = 20' (HORZ.)
1" = 10' (VERT.)

CONSTRUCTION NOTES:

- 1 CONSTRUCT CURB AND GUTTER (E=6"; GUTTER PAN=18") PER CITY DWG WL-RD700 ON SHEET DC01.
- 2 CONSTRUCT CONCRETE SIDEWALK PER TYPICAL SECTION ON THIS SHEET. FOR DETAILS, SEE ODOT STANDARD DWG RD735 ON SHEET DC02.
- 4 CONSTRUCT FULL DEPTH PAVEMENT SECTION PER TYPICAL SECTION ON SHEET B01.
- 7 SAWCUT EXISTING ASPHALT OR CONCRETE AND REMOVE AS REQUIRED AND DIRECTED.
- 8 MATCH NEW CURB TO EXISTING CURB AND/OR MATCH NEW SIDEWALK TO EXISTING SIDEWALK, AS REQUIRED AND DIRECTED. FIELD COORDINATE SAWCUT LIMITS, AS REQUIRED AND DIRECTED. PROTECT EXISTING CURB AND/OR CONCRETE SIDEWALK.
- 9 REMOVE EXISTING SIGN.
- 11 RELOCATE EXISTING MAILBOX. SEE ODOT STANDARD DRAWING RD100 AND RD101 ON SHEET DC03 & DC04. COORDINATE LOCATION WITH ENGINEER.
- 14 CONSTRUCT THICKENED EDGE SIDEWALK WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE CL-4R. SEE "WA" SHEET SERIES FOR DETAILS.
- 15 CONSTRUCT CONCRETE GRAVITY WALL WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE CL-4R. SEE "WA" SHEET SERIES FOR DETAILS.
- 41 PROTECT EXISTING UTILITY POLE AND CONDUIT.
- 51 CONSTRUCT CG-2 INLET CATCH BASIN AND 8" C900 LATERAL PER ODOT STANDARD DWG RD366 ON SHEET DC06.
- 52 CONSTRUCT 8" C900 OUTFALL. GRADE BEHIND WALK AS REQUIRED FOR POSITIVE FLOW.
- 53 PROTECT EXISTING STORM OUTFALL. RECONSTRUCT AS REQUIRED OR DIRECTED.

NOTE: CONTRACTOR TO INSTALL EROSION CONTROL MEASURES INCLUDING STRAW WATTLES AT LIMITS OF WORK AND INLET PROTECTION AT NEAREST DOWNSTREAM INLET.

ROADWAY PLAN & PROFILE
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson Righellis Inc.
ENGINEERS & PLANNERS
LANDSCAPE ARCHITECTS & SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

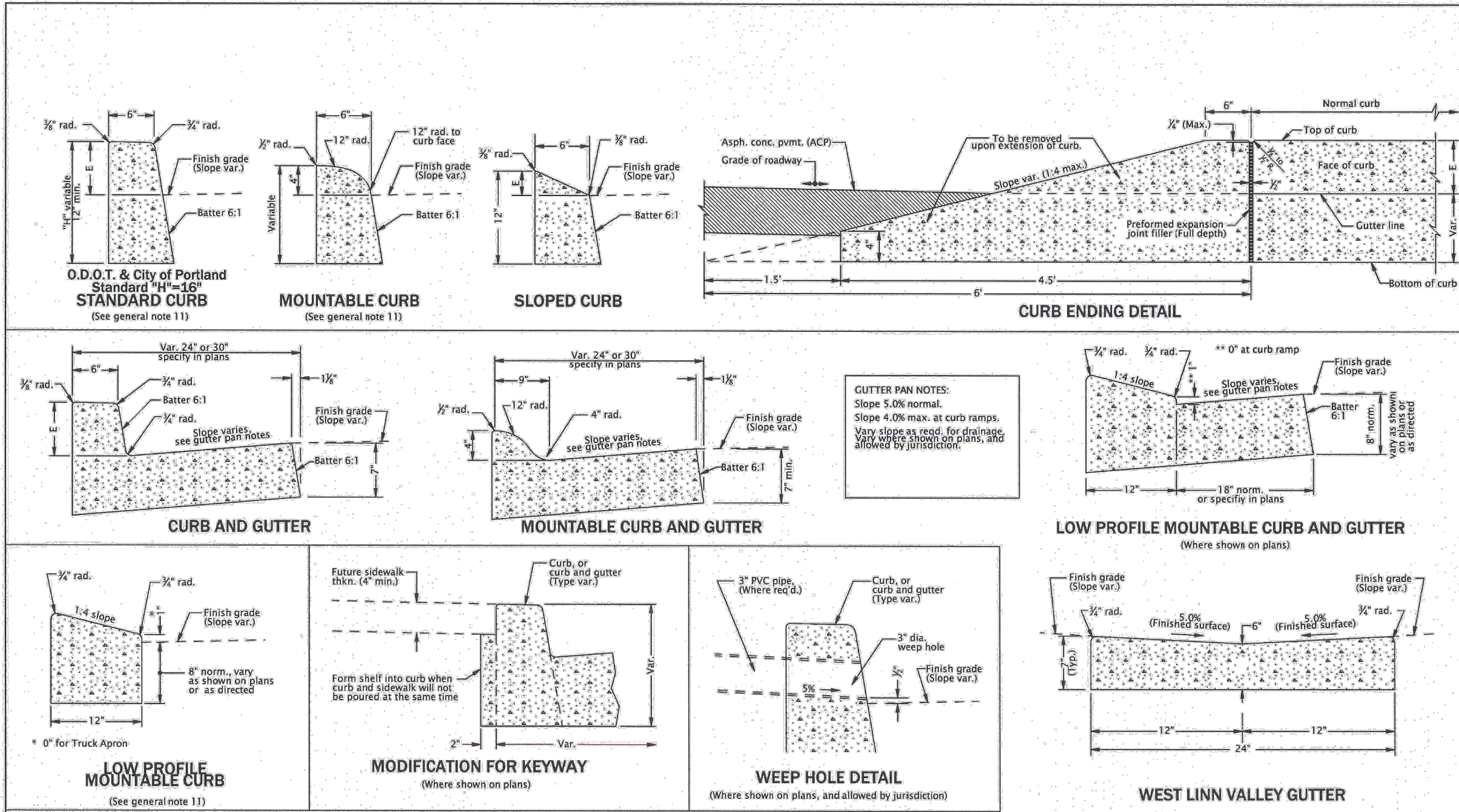


EXPIRES: 6/30/25

DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	C01
CHECKED: JSH	
DATE: 5-7-25	JOB NO. CWL-13

DRAWING NAME: CWL13-C01 ROADWAY PLAN AND PROFILE.DWG

DRAWING NAME: CWL13-DC01 STANDARD DETAILS.DWG



GUTTER PAN NOTES:
Slope 5.0% normal.
Slope 4.0% max. at curb ramps.
Vary slope as reqd. for drainage.
Vary where shown on plans, and allowed by jurisdiction.

Standard Drawing No.	WL-RD700
Effective Date:	02/22/22
Title:	CURBS
City Engineer	
Approved	
City of West Linn	
PUBLIC WORKS DEPARTMENT - STANDARD DRAWINGS	22500 Solesno Road, West Linn, OR 97068
Phone: 503-722-5500	www.westlinnoregon.gov
NOTE:	All material and workmanship shall be in accordance with the City of West Linn Standard Construction Specifications, without consulting a Registered Professional Engineer.
File	WL-RD700.dwg

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- Curb exposure "E" = 6" to 9", as measured vertically from flowing to highest point on curb. Vary as shown on plans or as directed, O.D.O.T standard "E"=7".
 - Const. curb expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveways.
 - Const. curb contraction joints at 15' maximum spacing, and at ends of each inlet and curb ramp.
 - 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".
 - Tops of all curbs shall slope toward the roadway at 1.5% max. (Max. 2.0% finished surface slope), unless otherwise shown, or as directed.
 - Dimensions are nominal, vary to conform with curb machine approved by the engineer.
 - Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
 - For sidewalk details, and monolithic curb & sidewalk, see Std. Dwgs. RD720 & RD721.
 - For drainage curbs, see Std. Dwg. RD701.
 - For curb ramp details, see Std. Dwgs. RD900 series.
 - On or along state highways, curb and gutter is required at curb ramp.

STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson
Righellis Inc.

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LANDSCAPE ARCHITECTS & SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

CITY OF
West Linn

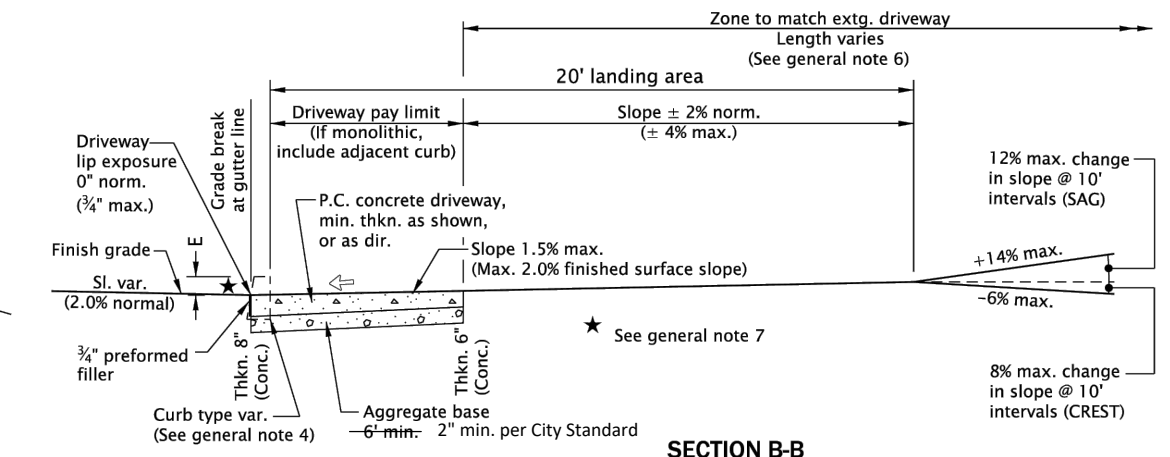
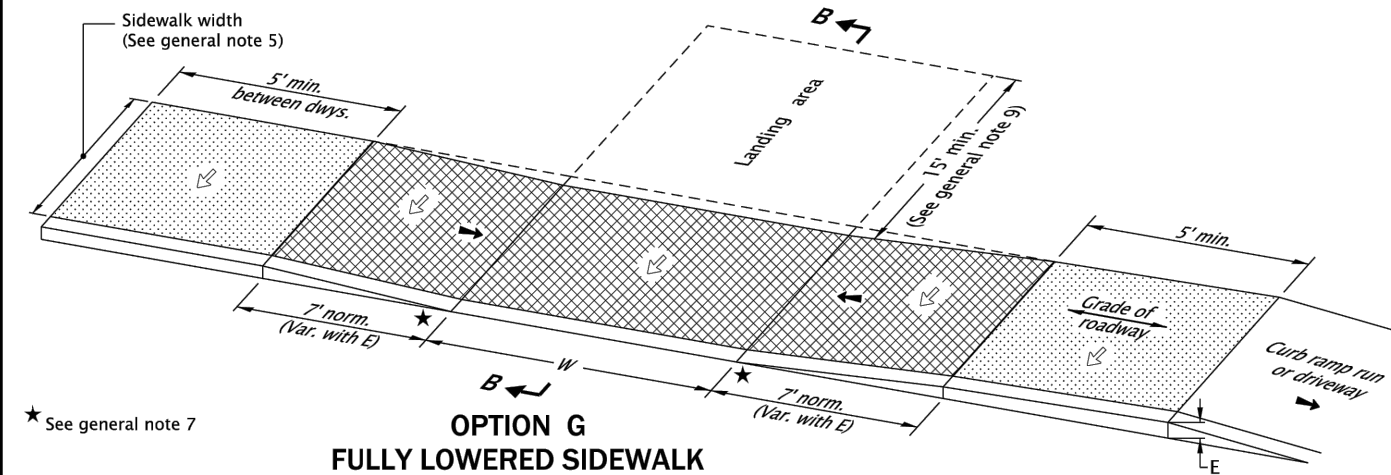
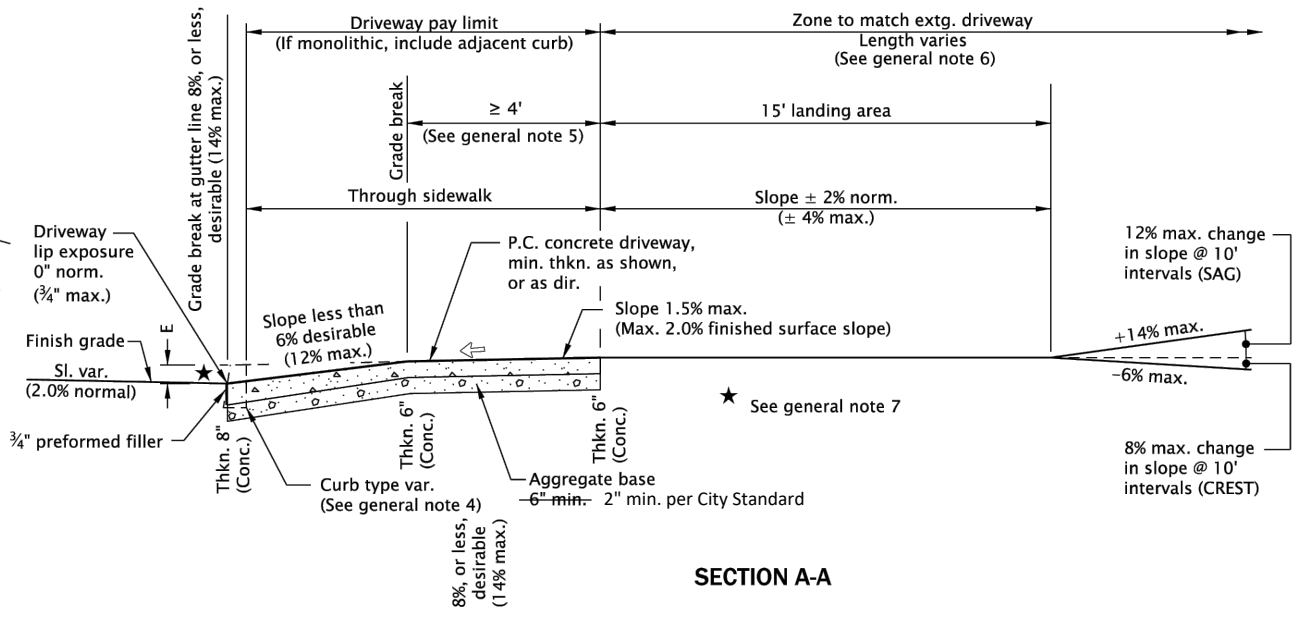
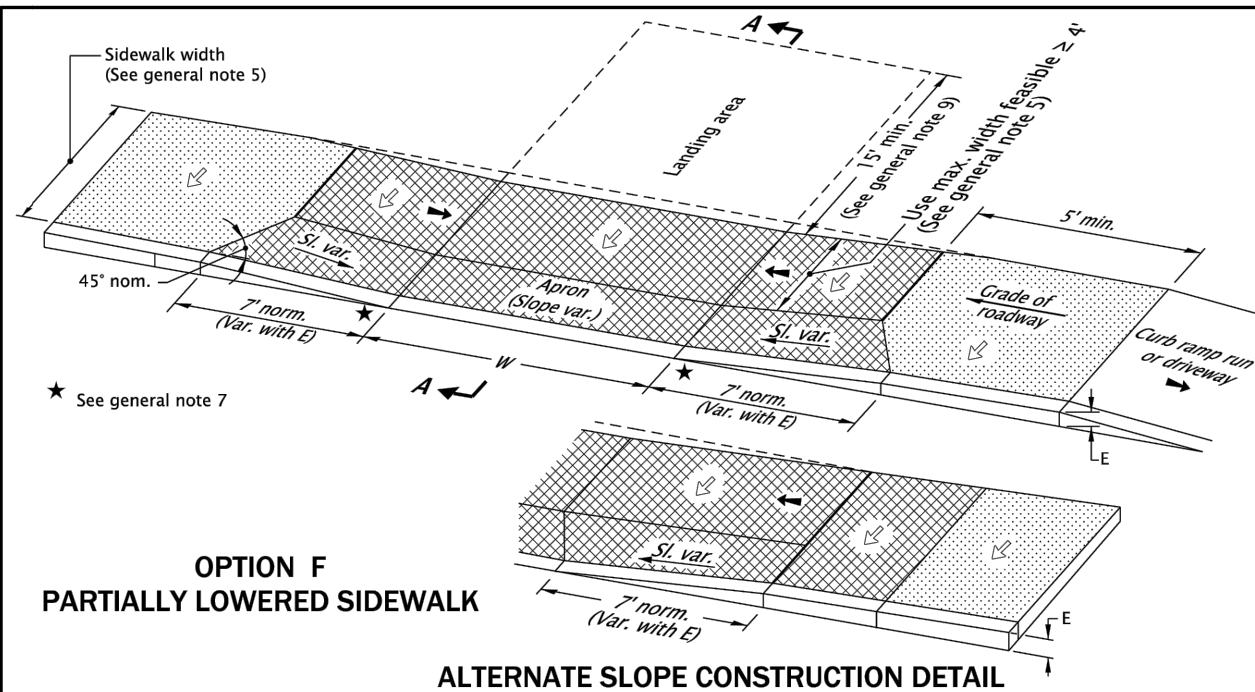
REGISTERED PROFESSIONAL ENGINEER
86,200

OREGON
JAN. 10, 2017
JAMES S. HOUF

EXPIRES: 6/30/25

DESIGNED:	HHPR TEAM	SHEET NO.	DC01
DRAWN:	JCW		
CHECKED:	JSH		
DATE:	3-14-25	JOB NO.	

RD735.dgn 14-JAN-2022



- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- Details are based on applicable ODOT Standards.
 - Only use details allowed by jurisdiction.
 - 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. See project plans for details not shown.
 - Curb, gutter, and sidewalk types varies, see plans. See Std. Dwgs. RD700 & RD701 for curb details. See Std. Dwg. RD720 for sidewalk details. See Std. Dwg. RD722 for joint details.
 - A greater than or equal 4' unobstructed clear passage with cross slope 1.5% max. (Max. 2.0% finished surface slope) is required behind driveway apron.
 - Where existing driveway is in good condition, and meets slope requirements, construct only as much landing area as required for satisfactory connection with new work.
 - 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.
 - Construct a full depth expansion joints with 1#2" (ln) preformed joint filler at ends of each driveway. Tooled joints are required at all driveway slope break lines.
 - 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.
 - Monolithic curb & sidewalk shall retain thickened edge through lowered profile, to accommodate driveway use. See Std. Dwg. RD720 for details.

LEGEND:

	Sidewalk
	Driveway pay limit (If monolithic, include adjacent curb) (See project plans for details not shown)
	Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
	Running slope 7.5% max. (Max. 8.3% finished surface slope)
W	Width of driveway
E	Curb exposure

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 first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

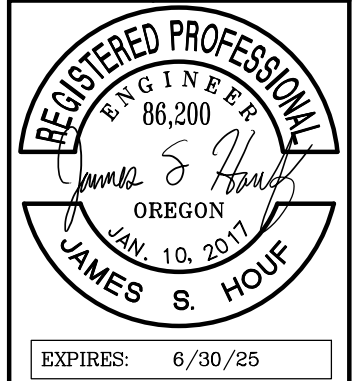
CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS F & G) ODOT HIGHWAYS

2024

DATE	REVISION	DESCRIPTION

CALC. BOOK NO. --- N/A ---	SDR DATE: 20-JUL-2020	RD735
----------------------------	-----------------------	--------------

Effective Date: December 1, 2024 – May 31, 2025



DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	DC02
CHECKED: JSH	JOB NO.
DATE: 3-14-25	CWL-13

STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

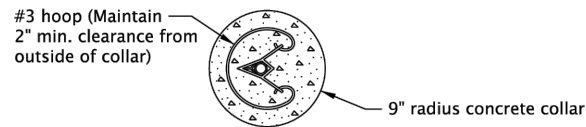
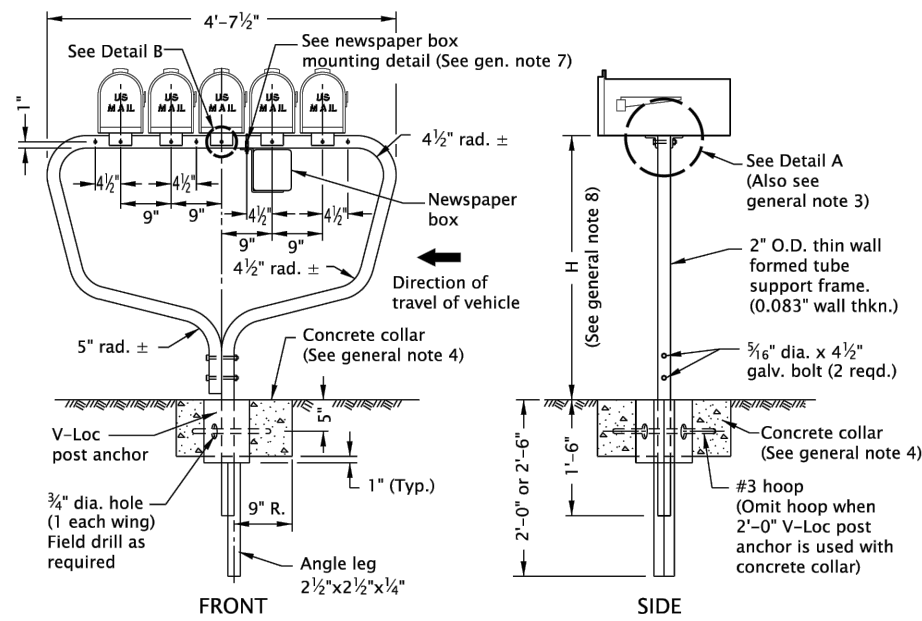
Harper Houf Peterson Righellis Inc.
ENGINEERS & PLANNERS
LANDSCAPE ARCHITECTS & SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171



DRAWING NAME: CWL13-DC01 STANDARD DETAILS.DWG

19-JAN-2024

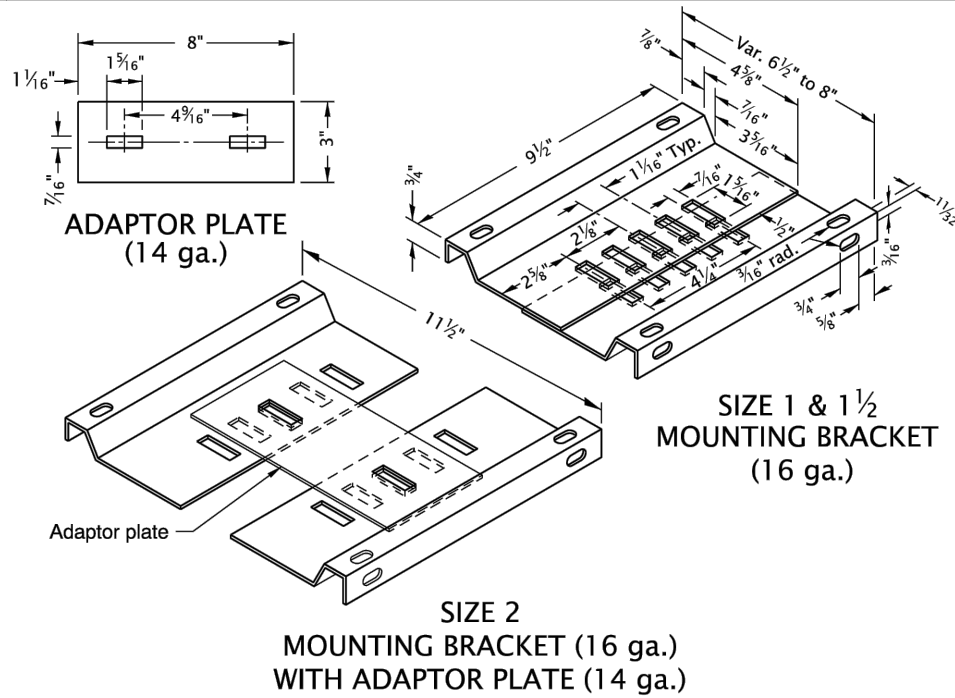
RD100.dgn



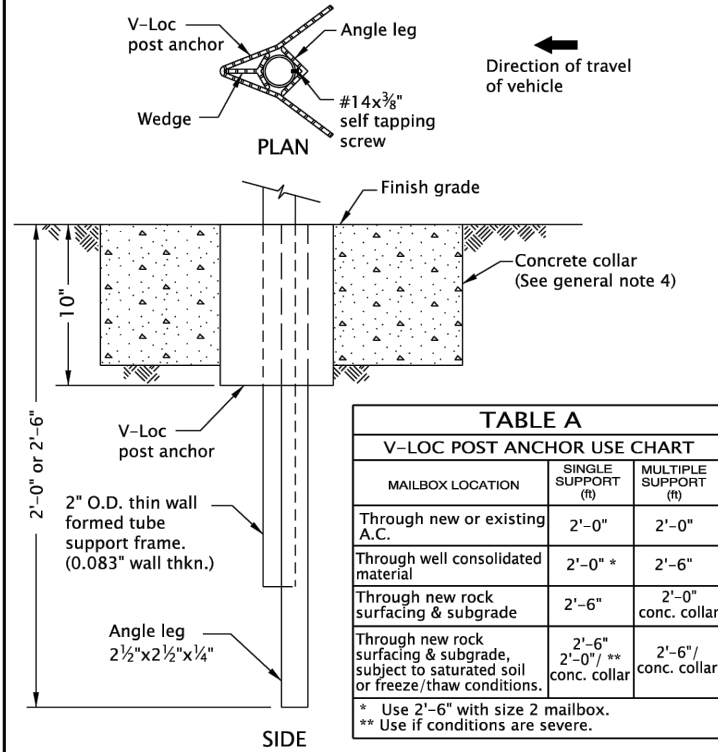
CONCRETE COLLAR
(See general note 4)

MULTIPLE SUPPORT

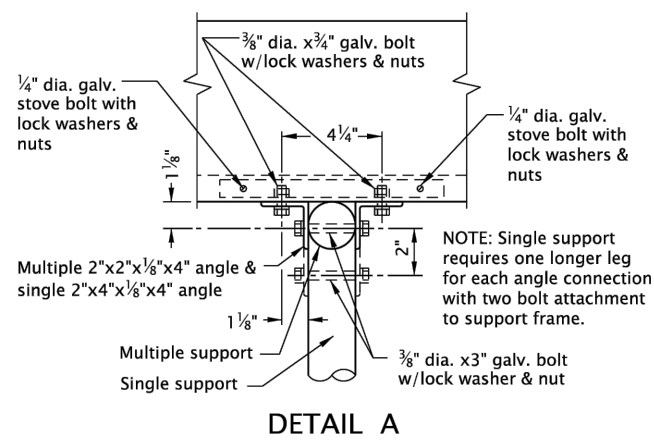
(Supports 5 standard (Sizes 1 & 1 1/2) mailboxes or 4 large (Size 2) mailboxes)



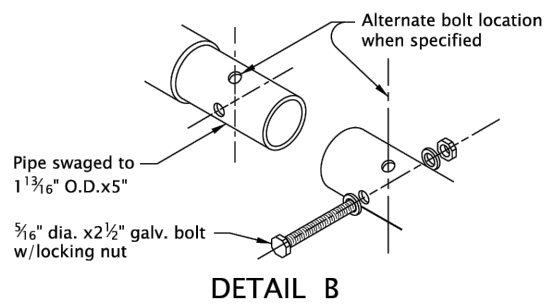
SIZE 2 MOUNTING BRACKET (16 ga.) WITH ADAPTOR PLATE (14 ga.)



POST MOUNTING SOCKET

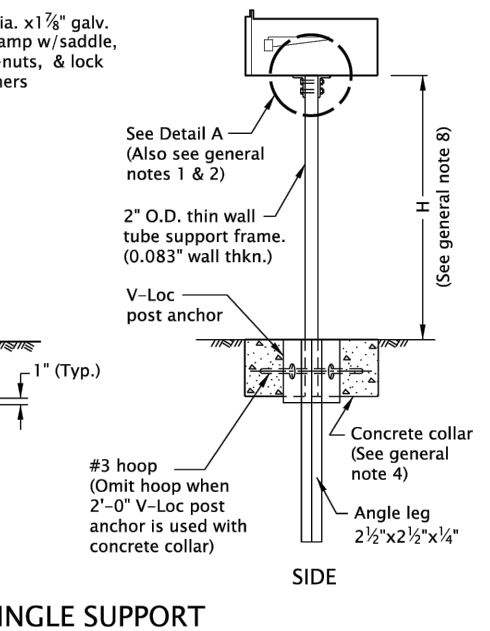


DETAIL A



DETAIL B

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 first consulting a Registered Professional Engineer.



SINGLE SUPPORT

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Angle connections to be parallel to traffic flow for Size 2 mailbox mounted on single post.
 - All holes in the tube support frame are to be predrilled by the manufacturer.
 - Size 2 mailbox mounted on a multiple support requires 2 each 3/8 inch dia. x 3/8 inch galv. bolts with lock washers and nuts to attach the adaptor plate to the mounting bracket. The unit will then require 4 angle connections to attach to the formed tube support frame. See Detail A.
 - Provide concrete collar when any of the following conditions exist:
 - when required in Table A
 - when required by project plans
 - as directed by the Engineer
- Concrete collar, when required, to be poured in place after V-Loc post anchor has been installed, level and plumb. Do not excavate below bottom of V-Loc post anchor. Care shall be taken that no concrete is placed within anchor.
- Other proprietary products available as listed in ODOT's QPL.
 - For mailbox installation locations, see Std. Dwg. RD101 and project plans.
 - For Newspaper Box Mounting Detail, see Std. Dwg. RD101.
 - Mounting height (H) shall be from 41" Min. to 45" Max. (42" nominal), measured from vehicle driving surface.
 - See project plans for detail not shown.

All materials shall be in accordance with the current Oregon Standard Specifications.
OREGON STANDARD DRAWINGS

MAILBOX SUPPORT

2024

DATE	REVISION	DESCRIPTION
12-2023	REVISED NOTES AND DETAILS	

CALC. BOOK NO. --- N/A --- SDR DATE: 19-JAN-2024 **RD100**

Effective Date: December 1, 2024 – May 31, 2025

STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson Righellis Inc.
ENGINEERS & PLANNERS
LANDSCAPE ARCHITECTS & SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com

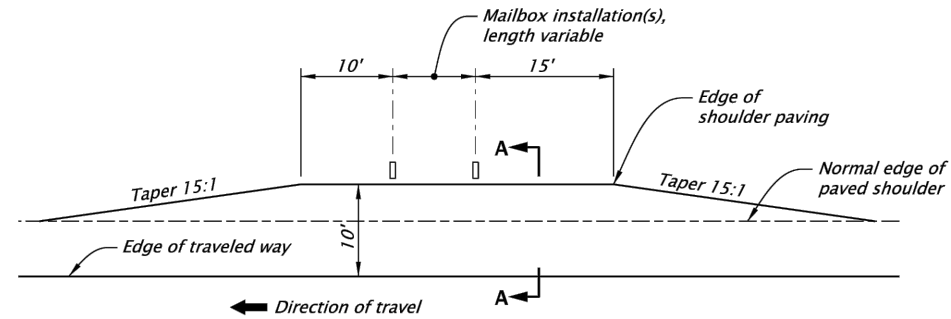
CITY OF
West Linn



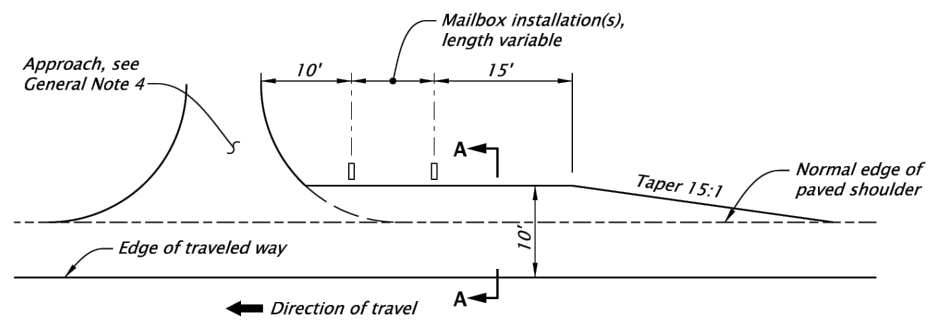
DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	DC03
CHECKED: JSH	JOB NO.
DATE: 3-14-25	CWL-13

DRAWING NAME: CWL13-DC03 STANDARD DETAILS.DWG

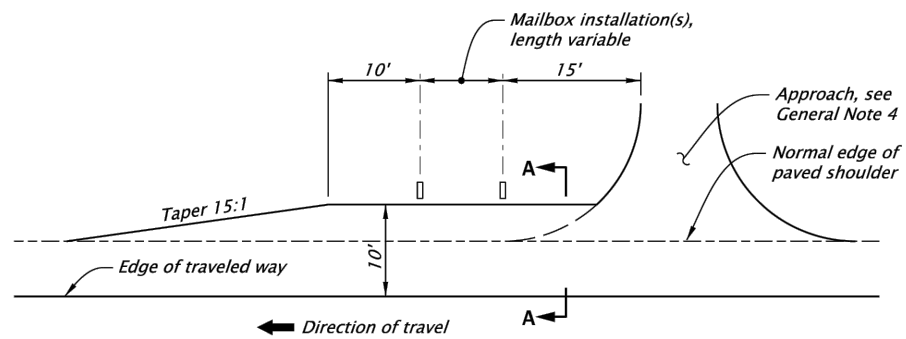
RD101.dgn 19-JAN-2024



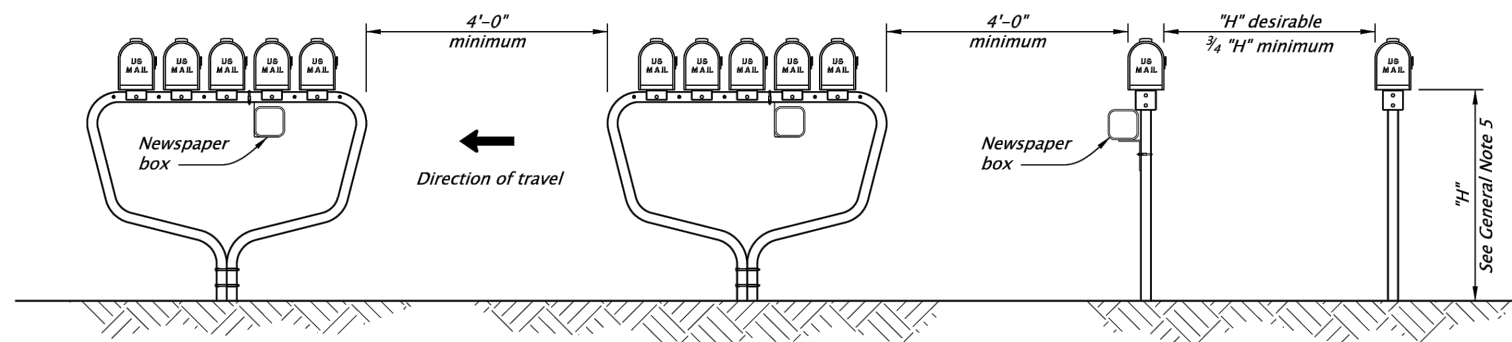
MAILBOX SERVICE TURNOUT



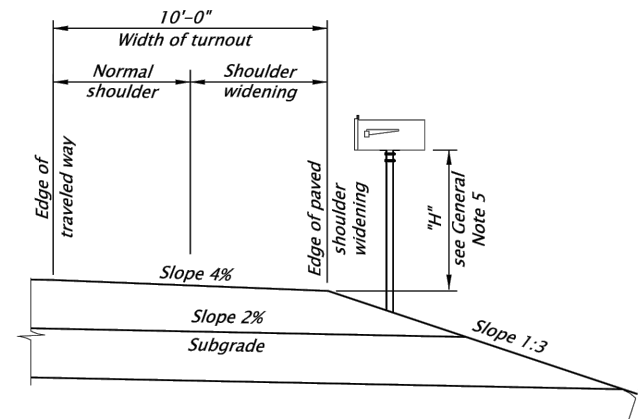
MAILBOX SERVICE TURNOUT BEFORE APPROACH



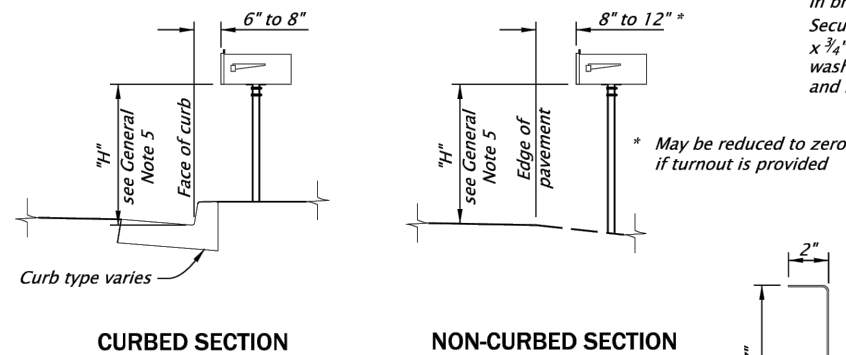
MAILBOX SERVICE TURNOUT AFTER APPROACH



TYPICAL MAILBOX SUPPORT SPACING



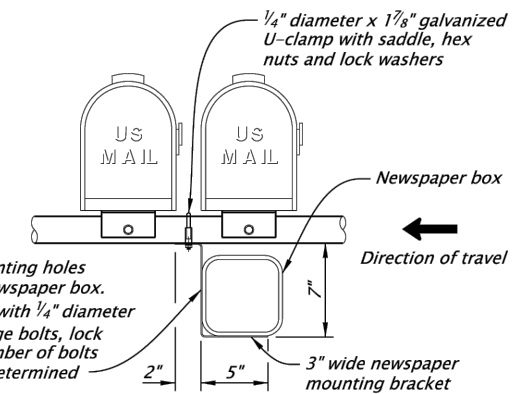
INSTALLATION AT MAILBOX TURNOUT SECTION A-A



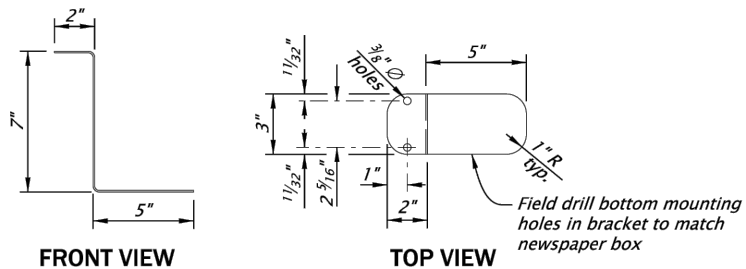
TYPICAL MAILBOX INSTALLATIONS

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. All holes in the tube support frame are to be predrilled by the manufacturer.
2. Other proprietary products available as listed in ODOT's QPL.
3. For mailbox support details, see Std. Dwg. RD100.
4. For approach details, see Std. Dwg. RD715.
5. Mounting height ("H") shall be from 41 inches minimum to 45 inches maximum (42 inches nominal), measured from vehicle driving surface.
6. See project plans for details not shown.



NEWSPAPER BOX MOUNTING DETAIL



NEWSPAPER BOX MOUNTING BRACKET (14 ga.)

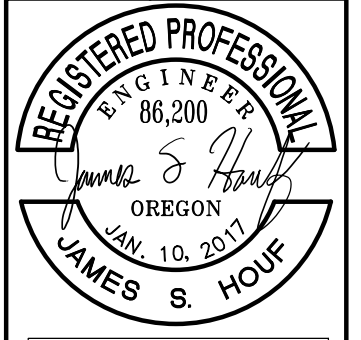
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.		
OREGON STANDARD DRAWINGS		
MAILBOX INSTALLATION		
2024		
DATE	REVISION	DESCRIPTION
01-2024		REVISED NOTES AND DETAILS, UPDATED DRAWING CAD STANDARDS
CALC. BOOK NO.	N/A	SDR DATE: 19-JAN-2024
		RD101

Effective Date: December 1, 2024 – May 31, 2025

STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson
Righellis Inc.
ENGINEERS & PLANNERS
LANDSCAPE ARCHITECTS & SURVEYORS
205 SE Spokane Street, Suite 200, Portland, OR 97202
Phone: 503.221.1131 www.hhpr.com fax: 503.221.1171



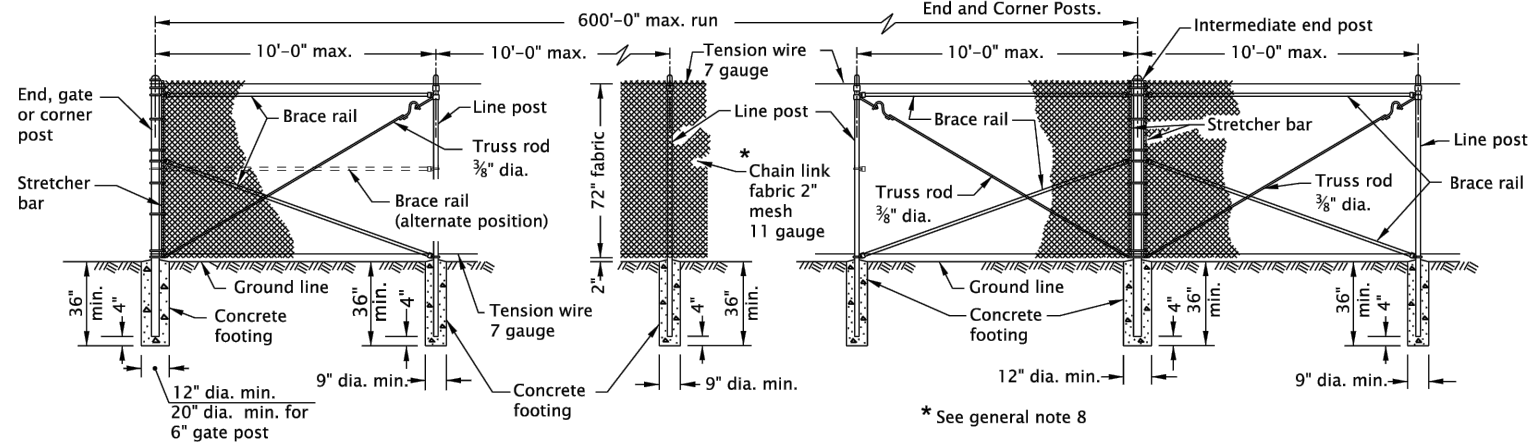
DESIGNED:	HHPR TEAM	SHEET NO.	DC04
DRAWN:	JCW		
CHECKED:	JSH		
DATE:	3-14-25	JOB NO.	

DRAWING NAME: CWL13-DC01 STANDARD DETAILS.DWG

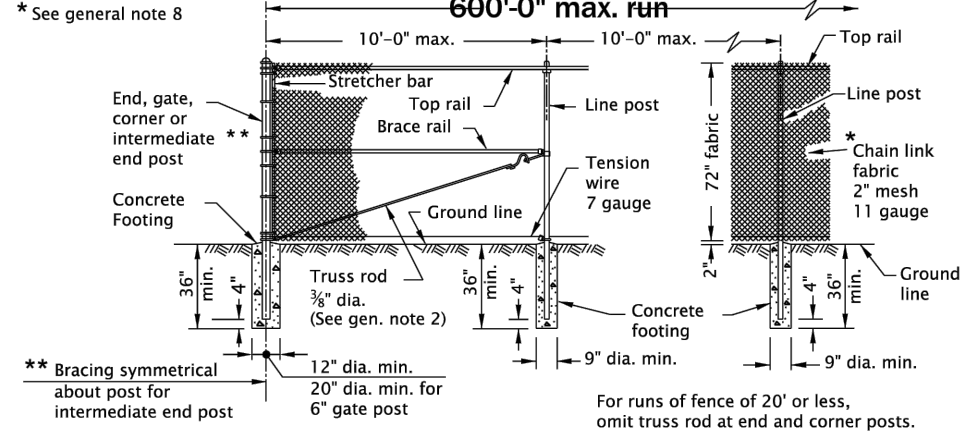
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RD815.dgn

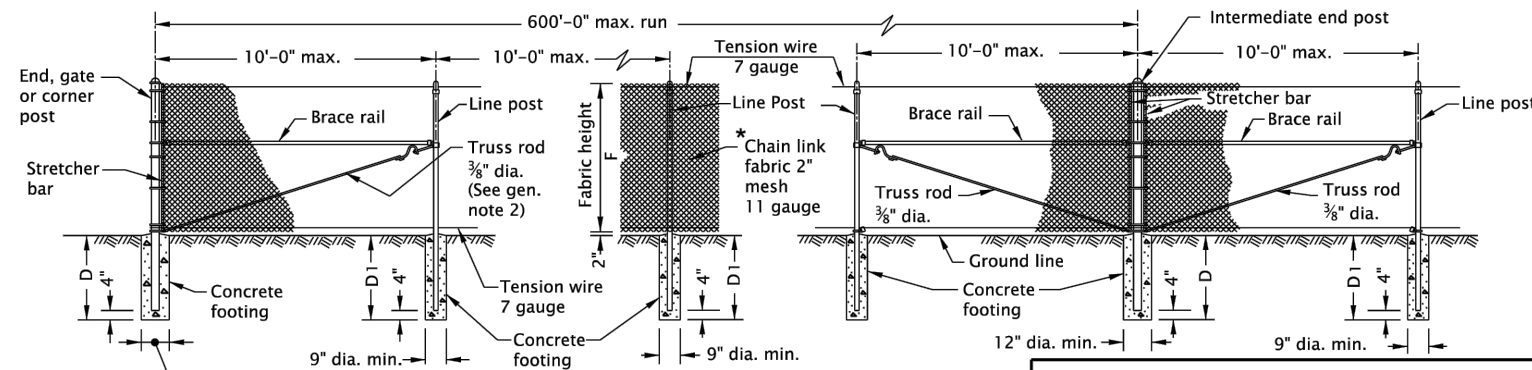
TYPE CL-6



TYPE CL-6R

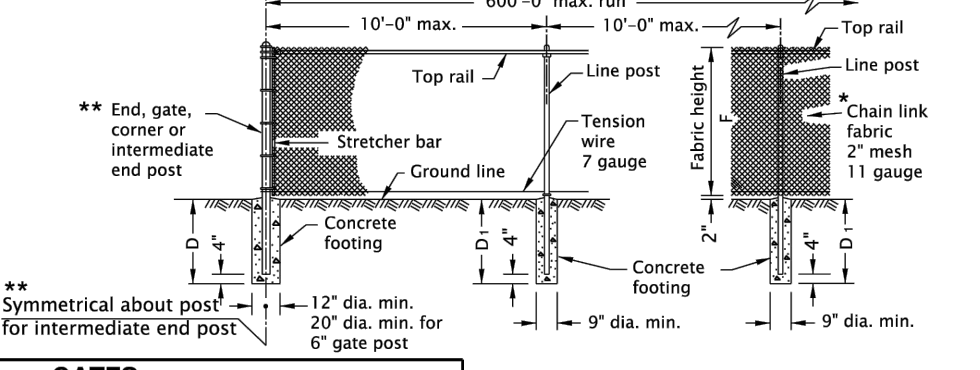


TYPES CL-4 & CL-5



TYPE	D min. (in)	D1 min. (in)	F nom. (in)
CL-4	30	24	48
CL-5	36	36	60

TYPES CL-4R & CL-5R



TYPE	D min. (in)	D1 min. (in)	F nom. (in)
CL-4R	30	24	48
CL-5R	36	36	60

GATES

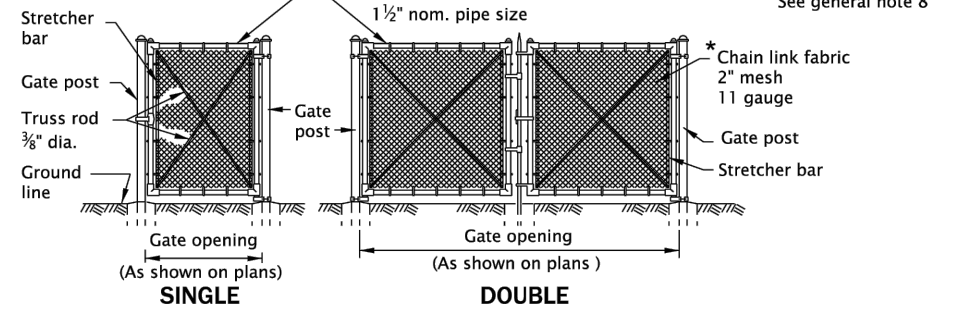


TABLE 1

TYPE	MEMBER								GATE OPENING (ft)		GATE POSTS	
	BRACE AND TOP RAILS		LINE POSTS		END, CORNER & INTERMEDIATE END POST		SINGLE GATE	DOUBLE GATE	TUBULAR			
	TUBULAR	TUBULAR	TUBULAR	H-SECTION	TUBULAR	Fence Industry (in)			Nom. Dia. (in)	Fence Industry (in)	Nom. Dia. (in)	
CL-4 & CL-4R CL-5 & CL-5R	1 3/8	1 1/4	1 7/8	1 1/2	1 7/8 x 1 3/8	2.72	2 3/8	2	Up thru 6	Up thru 12	2 7/8	2 1/2
CL-6 & CL-6R	1 3/8	1 1/4	2 3/8	2	2 1/4 x 2	4.10	2 7/8	2 1/2	7 thru 13	13 thru 26	4	3 1/2
									14 thru 18	27 thru 36	6 5/8	6

NOTE: For CL-6, CL-6R, CL-8, CL-8R, CL-10 & CL-10R, the hardware is minimum and does not include slat wind loading.

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- Do not use top rail where fence can be struck by an errant vehicle.
 - Fittings shown are illustrative of use and not specific as to design.
 - Gate posts on each side of a gate opening to be the same size. At a double gate installation with unequal width gates, size of both posts to be as indicated for a single gate installation of the wider gate width.
 - For cross sectional dimensions of members, see Table 1.
 - Posts and rails with sections not shown that meet the requirements of AASHTO M181 are acceptable alternates. See ODOT's QPL for acceptable alternates.
 - All concrete shall be commercial grade concrete.
 - All chain link fabric top and bottom selvage shall be knuckled finish.
 - Chain link fabric for the fence to be installed with pickets shall be 9 gauge wire woven in 3 1/2" by 5 1/2" diamond mesh.
 - See project plans for details not shown.
 - Add fence grounding as required.

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 first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

CHAIN LINK FENCE

2024

DATE	REVISION	DESCRIPTION

CALC. BOOK NO. --- N/A --- SDR DATE: 13-JAN-2020 **RD815**

STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson Righellis Inc.
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205 SE Spokane Street, Suite 200, Portland, OR 97202
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CITY OF
West Linn

REGISTERED PROFESSIONAL ENGINEER
86,200
James S. Houf
OREGON
JAN. 10, 2017
JAMES S. HOUF
EXPIRES: 6/30/25

DESIGNED: HHPR TEAM
DRAWN: JCW
CHECKED: JSH
DATE: 3-14-25

SHEET NO.
DC05
JOB NO.
CWL-13

Effective Date: December 1, 2024 – May 31, 2025

DRAWING NAME: CWL13-DC05 STANDARD DETAILS.DWG

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

- Where precast inlets are used as an alternate to cast-in-place inlets, a 4" compacted leveling bed of sand or 1/4"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
- Graphics show CG-1 inlet with Type 2 grate. See Table A for inlet dimensions. Type 1 grate allowed only in locations not subject to bicycle or pedestrian use. For frame and grate details, see Std. Dwg. RD365.
- Provide sump only where shown on plans, and allowed by jurisdiction. See Detail B for inlet without sump.
- For curb details, see Std. Dwgs. RD700 & RD701.
- See Std. Dwg. RD336 for tracer wire details, or approved alternate.
- Max. pipe diameter varies with pipe material.
- Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
- All concrete shall be commercial grade concrete.
- 3/4" preformed filler (in concrete pavement or gutter only) to extend through thickness of concrete.
- See Std. Dwg. RD363 for gutter transition section, when curb and gutter are required. (Pay limit for inlet is expanded when curb and gutter are monolithic)
- See Std. Dwg. RD339 for pipe to structure connections.

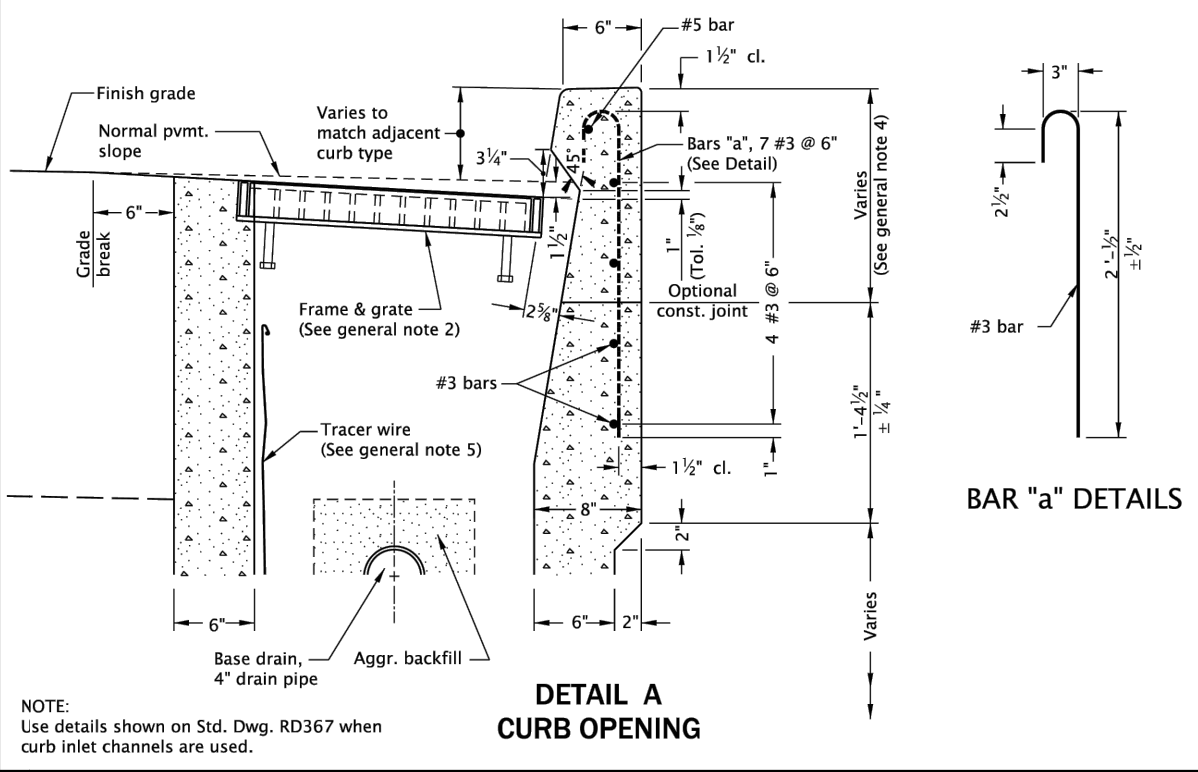
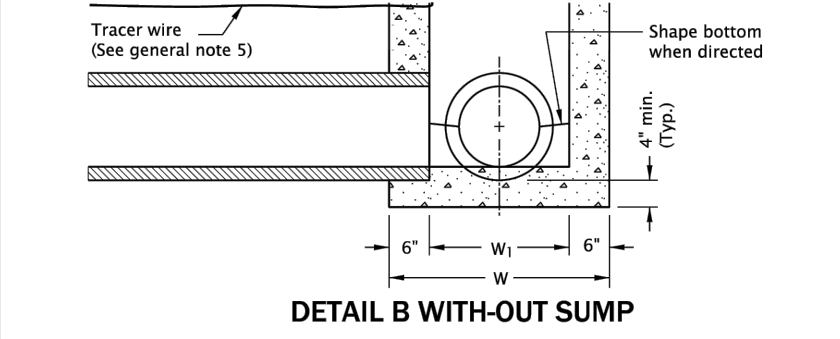
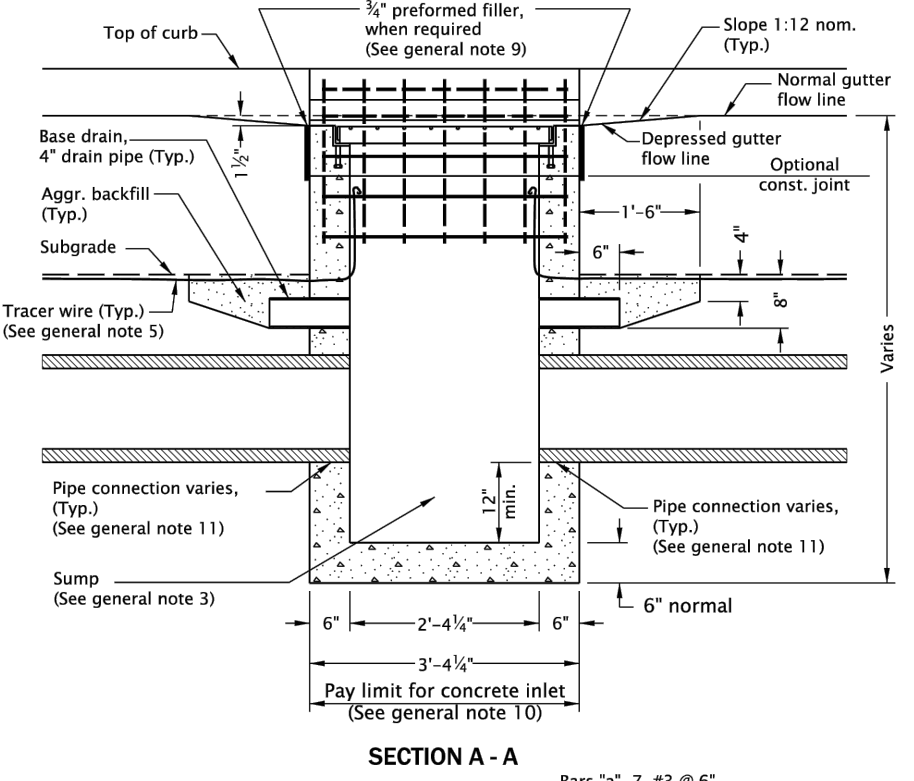
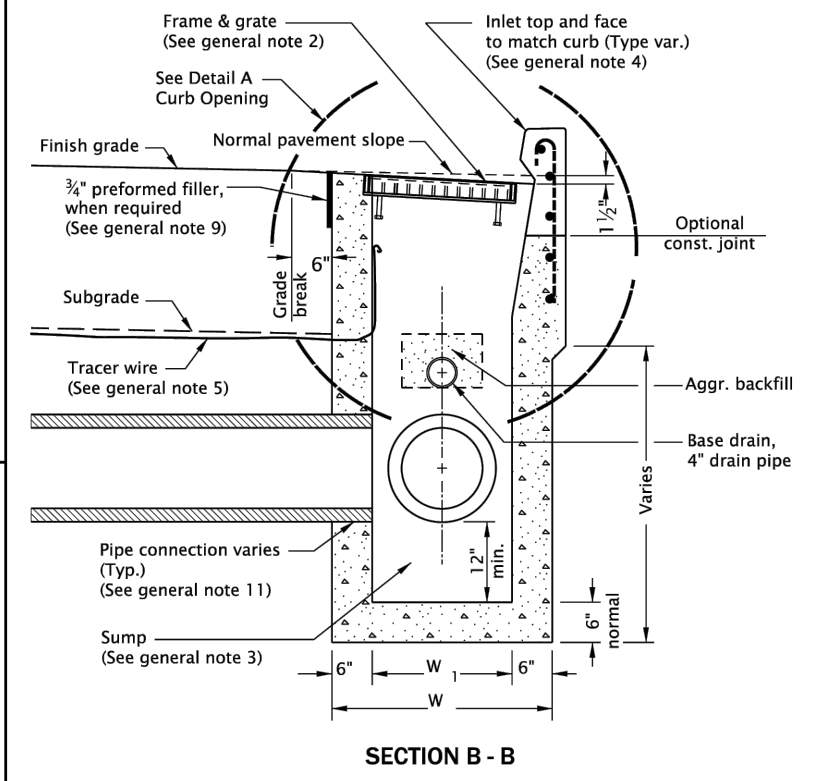
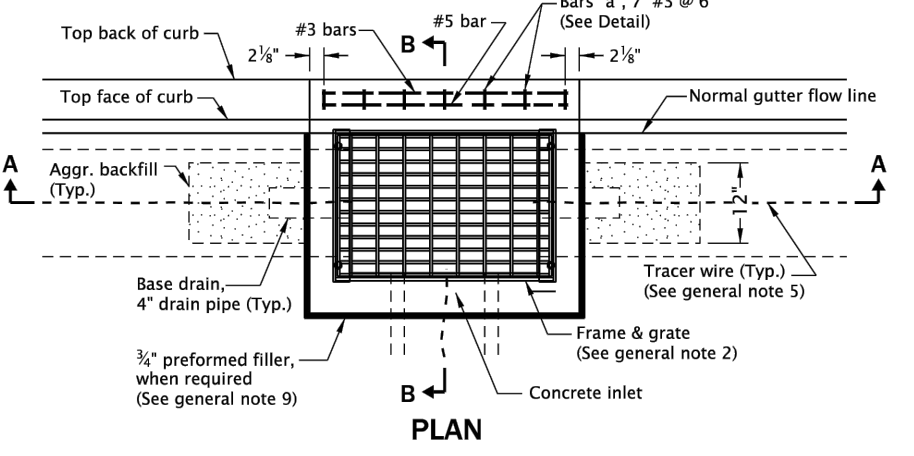


TABLE A

INLET TYPE	W	W ₁
CG-1	2'-8 7/8"	1'-8 7/8"
CG-2	3'-3 3/8"	2'-3 3/8"

- NOTES:**
- #3 "a" bars to be placed during curb construction.
 - All bars to be placed 1 1/2" clear of nearest face of concrete unless shown or noted otherwise.
 - All bars shall be full length.



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 first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

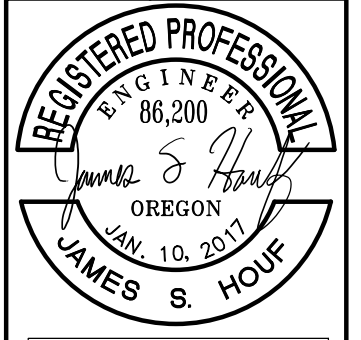
OREGON STANDARD DRAWINGS

CONCRETE INLETS
TYPE CG-1, CG-2

2024

DATE	REVISION	DESCRIPTION

CALC. BOOK NO. N/A SDR DATE: 20-JUL-2020 RD366



DESIGNED: HHPR TEAM SHEET NO. DC06

DRAWN: JCW

CHECKED: JSH

DATE: 3-14-25 JOB NO. CWL-13

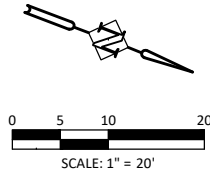
STANDARD DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

Harper Houf Peterson Righellis Inc.
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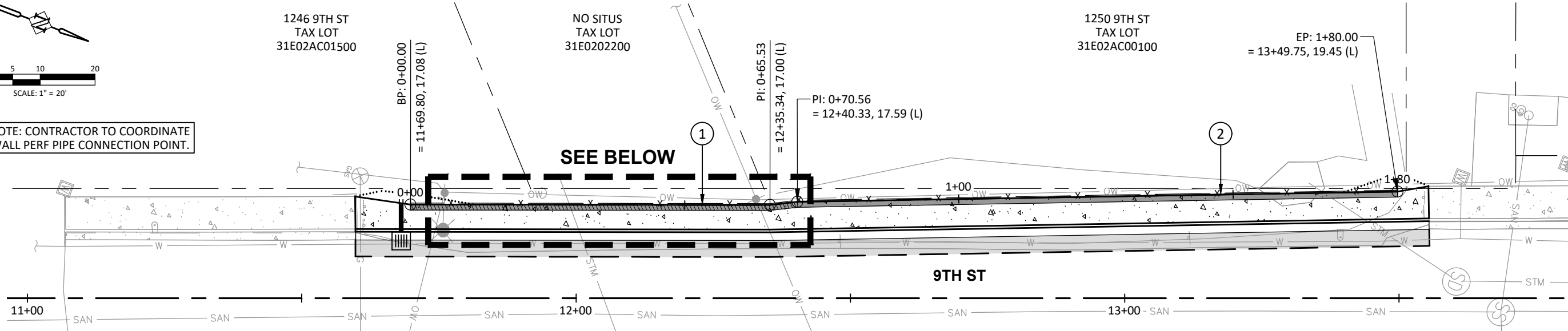


20-JUL-2020 RD366.dgn

Effective Date: December 1, 2024 - May 31, 2025



NOTE: CONTRACTOR TO COORDINATE WALL PERF PIPE CONNECTION POINT.

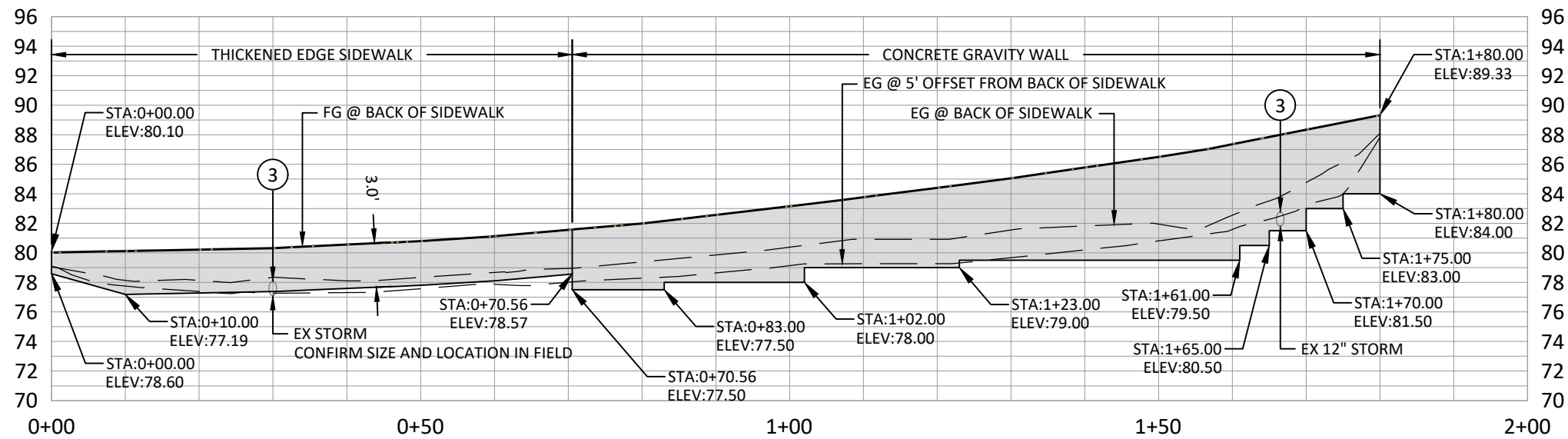


CONSTRUCTION NOTES:

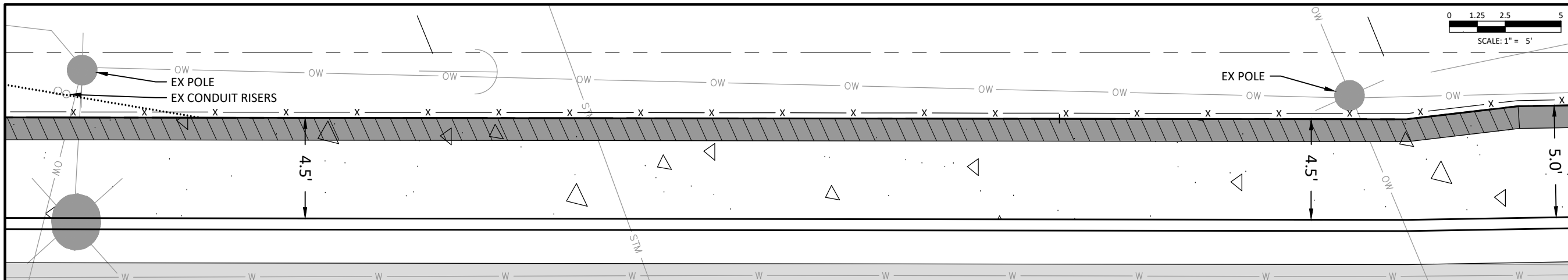
- ① CONSTRUCT THICKENED EDGE SIDEWALK WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE CL-4R PER THICKENED EDGE SIDEWALK DETAIL ON SHEET WA02, FENCE MOUNTING DETAIL ON SHEET WA02, AND ODOT STANDARD DRAWING RD815 ON SHEET DC05.
- ② CONSTRUCT CONCRETE GRAVITY WALL WITH FACE MOUNTED 4' BLACK VINYL COATED CHAIN-LINK FENCE CL-4R PER CONCRETE GRAVITY WALL DETAIL ON SHEET WA02, FENCE MOUNTING DETAIL ON SHEET WA02, AND ODOT STANDARD DRAWING RD815 ON SHEET DC05.
- ③ CONTRACTOR SHALL FIELD VERIFY ELEVATION OF EXISTING PIPE AND CONTACT ENGINEER-OF-RECORD (EOR) PRIOR TO ANY CONSTRUCTION FOR RETAINING WALL OR THICKENED EDGE ACCOMMODATIONS.

WALL 1 - PLAN VIEW
SCALE: 1" = 20' (HORZ.)

ALTERNATIVE WALL TYPE WILL BE CONSIDERED IF PROPOSED BY CONTRACTOR. CONTRACTOR TO SUBMIT ENGINEER-STAMPED DRAWINGS AND CALCULATIONS SUPPORTING THE PROPOSED ALTERNATIVE.



WALL 1 - PROFILE VIEW
SCALE: 1" = 20' (HORZ.)
1" = 10' (VERT.)



EXISTING POLES AND CONDUITS - PLAN VIEW
SCALE: 1" = 5' (HORZ.)

WALL PLAN & PROFILE
9TH STREET SIDEWALK
WEST LINN, OREGON

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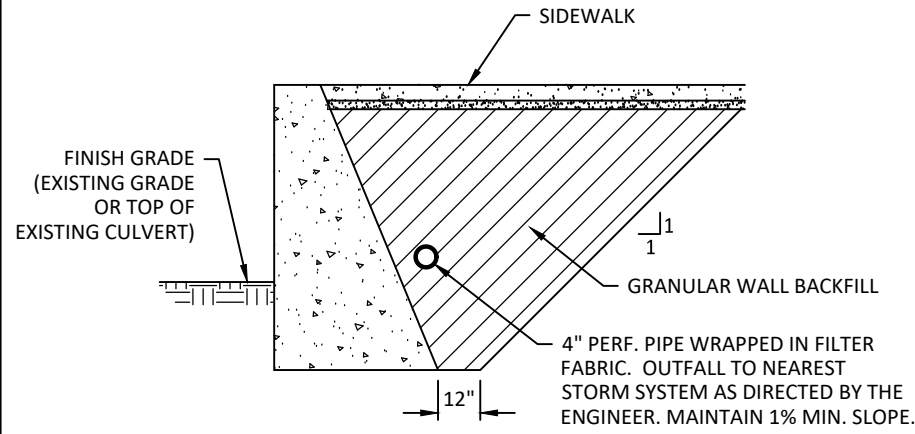


EXPIRES: 6/30/25

DESIGNED: HHPR TEAM
DRAWN: JCW
CHECKED: JSH
DATE: 3-14-25

SHEET NO.
WA01
JOB NO.
CWL-13

DRAWING NAME: CWL13-WA01 WALLS.DWG

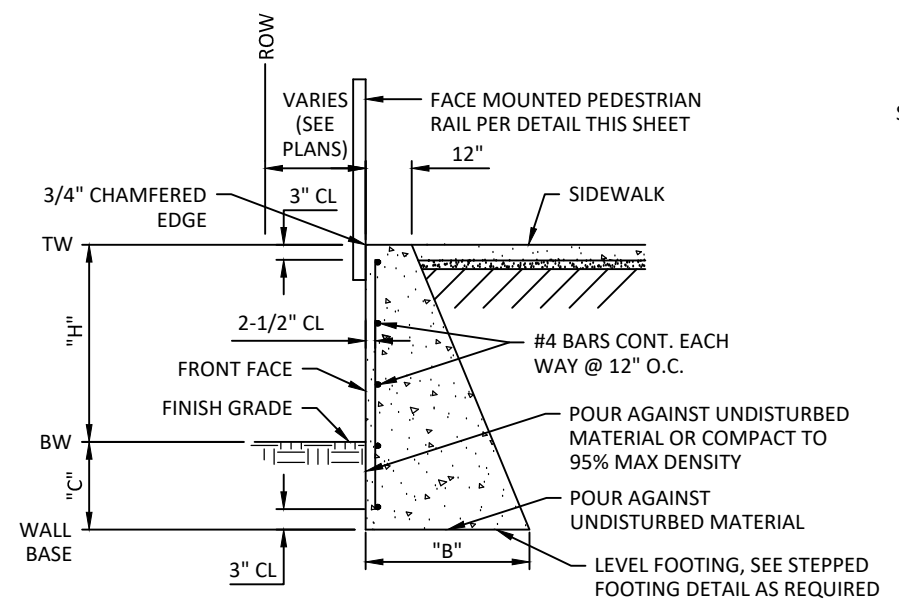


GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE SPECIAL PROVISIONS.
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A706M OR A615M GRADE 420.
3. ALL CONCRETE SHALL BE "MINOR STRUCTURE CONCRETE".
4. PLACE EXPANSION JOINTS IN APPROX. 100' O.C. AND CONTRACTION JOINTS AT APPROX. 32' O.C. UNLESS OTHERWISE SHOWN.
5. THERE IS NO BATTER ON THE FRONT FACE OF WALL.

BACKFILL AND DRAINAGE DETAILS

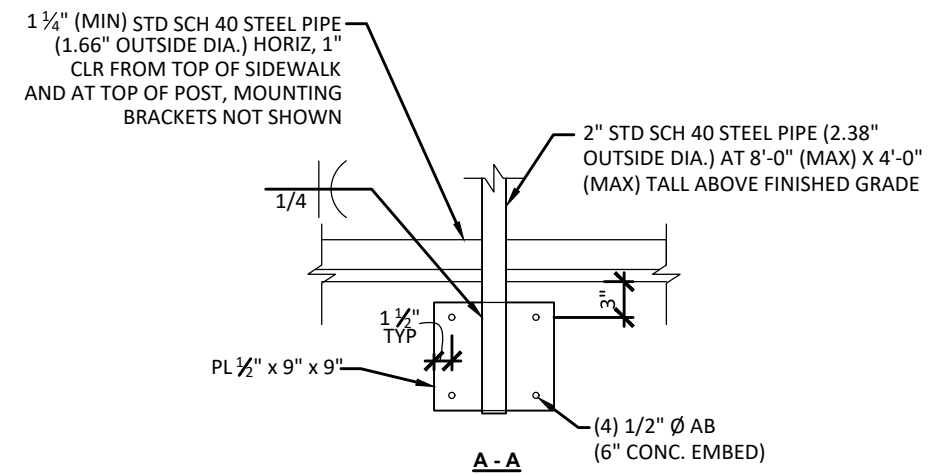
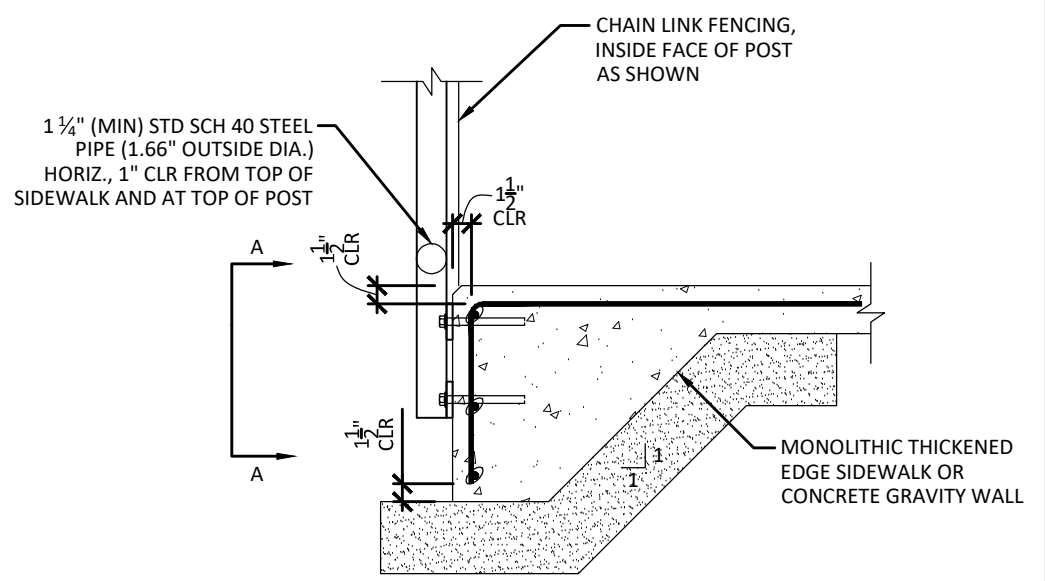
NTS



WALL DIMENSIONS		
H (FT)	B (FT)	C (INCHES)
0-2	1.5'	12"
2-4	2.5'	18"
4-6	4.0'	24"

CONCRETE GRAVITY WALL DETAILS

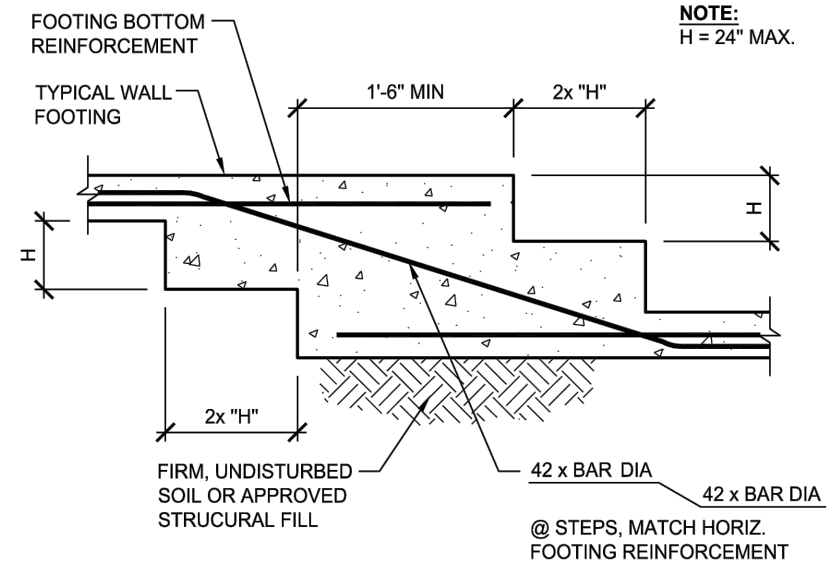
NTS



- NOTES:
1. ANCHOR BOLTS (AB) SHALL CONSIST OF SIMPSON STRONG-BOLT 2 OR APPROVED EQUAL, STAINLESS STEEL, PERIODIC SPECIAL INSPECTION REQUIRED.
 2. ALL MEMBERS & HARDWARE SHALL BE HOT-DIP GALVANIZED.
 3. ANCHOR BOLTS SHALL BE OFFSET FROM COPING REBAR, DO NOT DRILL THROUGH AT AB INSTALLATION.
 4. OFFSET ALL ANCHOR BOLTS 2'-0" MIN FROM WALL JOINTS.

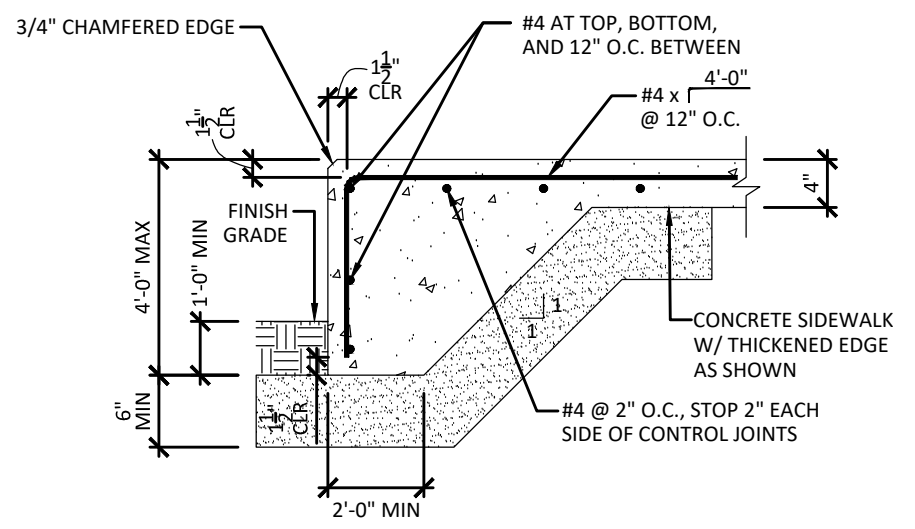
ATTACHMENT DETAILS
FENCE MOUNTING DETAILS

NTS



STEPPED FOOTING DETAIL

NTS



THICKENED EDGE SIDEWALK DETAILS

NTS

WALL DETAILS
9TH STREET SIDEWALK
WEST LINN, OREGON

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CITY OF
West Linn

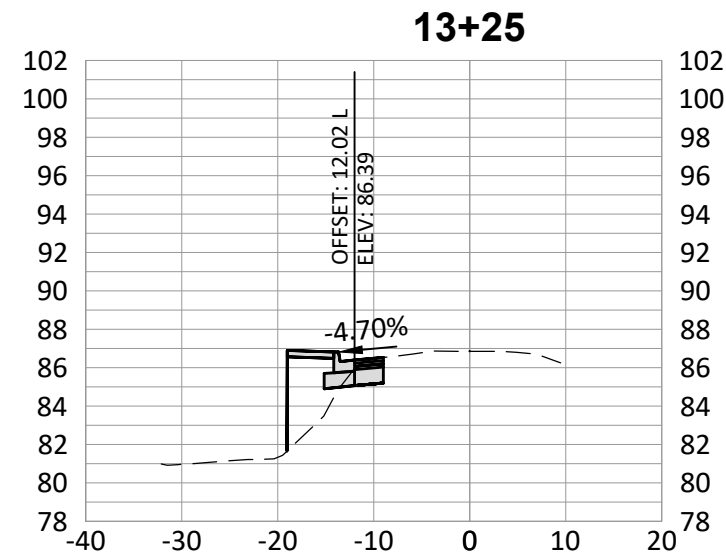
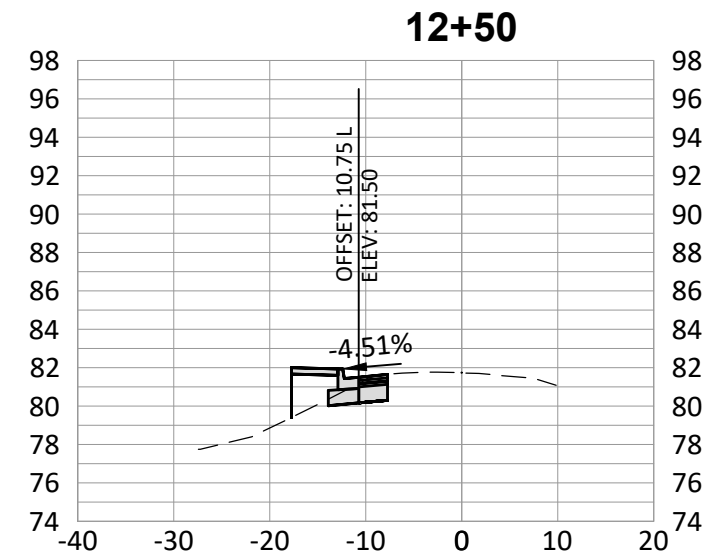
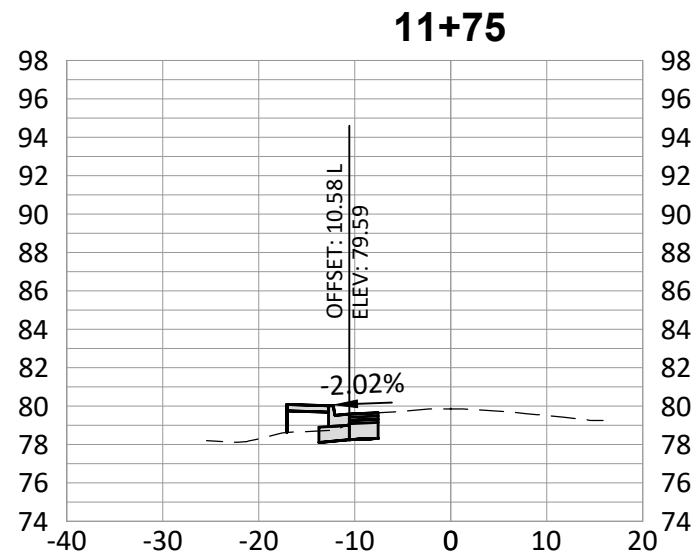
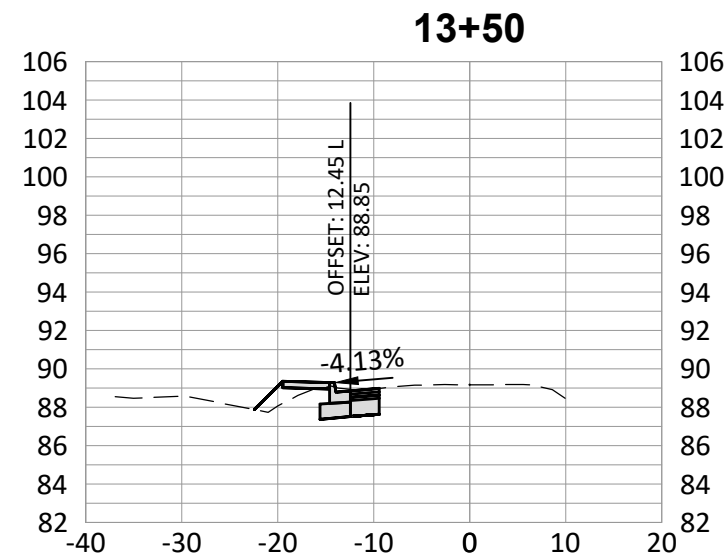
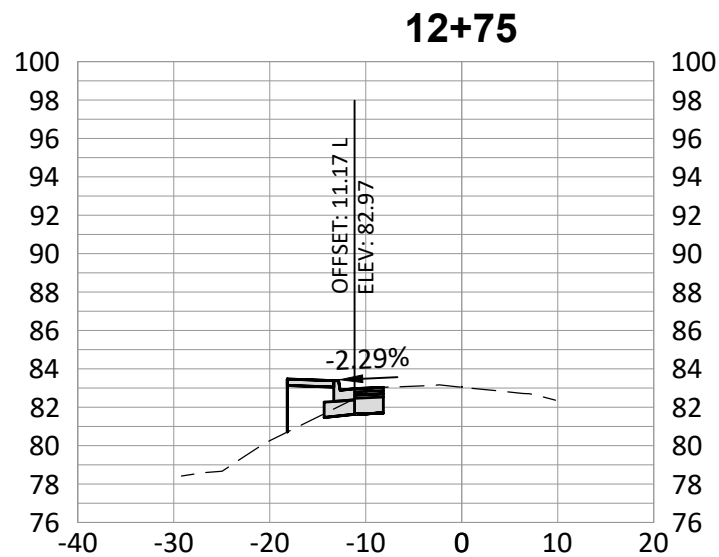
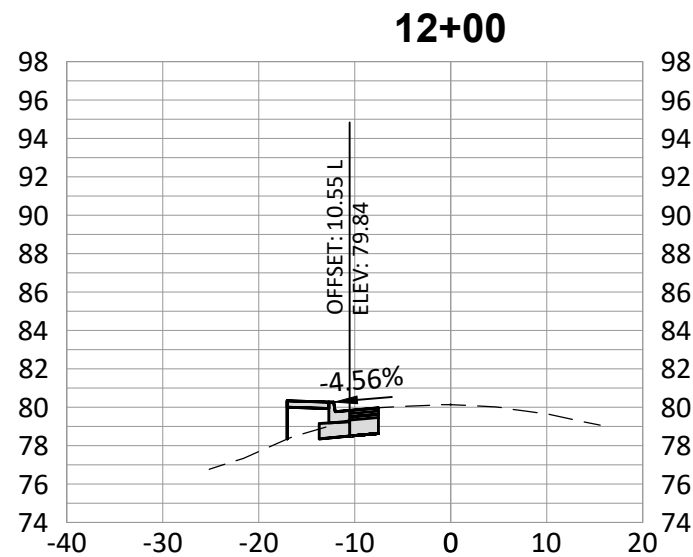
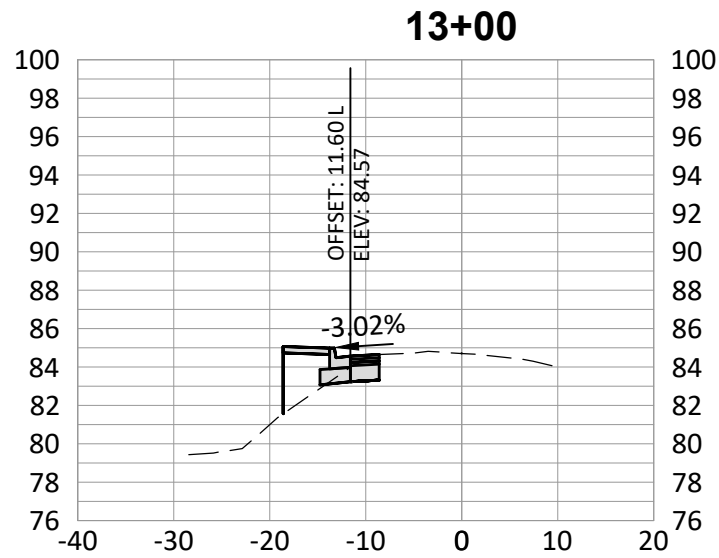
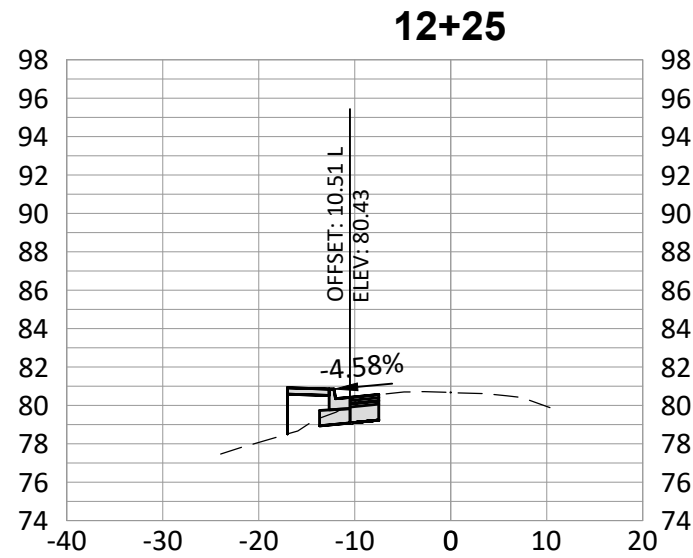
REGISTERED PROFESSIONAL ENGINEER
86,200
James S. Houf
OREGON
JAN. 10, 2017
JAMES S. HOUF

EXPIRES: 6/30/25

DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	WA02
CHECKED: JSH	JOB NO.
DATE: 3-14-25	CWL-13

DRAWING NAME: CWL13-WA02 WALLS.DWG

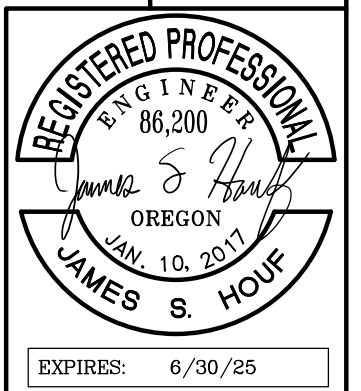
DRAWING NAME: CWL13-XS01 CROSS SECT.DWG



9TH ST - CROSS SECTIONS
 SCALE: 1" = 20' (HORZ.)
 1" = 10' (VERT)

CROSS SECTIONS
 9TH STREET SIDEWALK
 WEST LINN, OREGON

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DESIGNED: HHPR TEAM	SHEET NO.
DRAWN: JCW	XS01
CHECKED: JSH	
DATE: 3-14-25	JOB NO. CWL-13