



DAN JOHNSON
DIRECTOR

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DEVELOPMENT SERVICES BUILDING
150 BEAVERCREEK ROAD OREGON CITY, OR 97045

July 24, 2025

BCC Agenda Date/Item: _____

Board of County Commissioners
Clackamas County

Approval of an Amendment to a Contract with Eagle-Elsner for the South Ivy Street Pedestrian Intersection Improvements Project. Amendment Value is \$441,131.38 for 15 days. Total Contract Value is \$4,099,131.38 for 18 months. Funding is through the Oregon Department of Transportation, City of Canby and County Road Fund. No County General Funds are involved.

Previous Board Action/Review	<p>05/16/24: Approval of a Public Improvement Contract with Eagle-Elsner Inc. for the South Ivy Street Pedestrian Intersection Improvements Project.</p> <p>12/07/23: Approval of Amendment #1 to the Intergovernmental Agreement between Clackamas County and the City of Canby related to the South Ivy Street Sidewalk Improvement Project.</p> <p>09/07/23: Approval of Amendment #3 with Kittelson & Associates, Inc. for the South Ivy Street Pedestrian Intersection Improvements.</p> <p>11/04/21: Approval of Amendment #2 with Kittelson & Associates, Inc. for the Design Services for South Ivy Street Pedestrian Intersection Improvements.</p> <p>9/26/19: Approval of a Contract with Kittelson & Associates, Inc. for Design Services for South Ivy Street Pedestrian Intersection Improvements.</p> <p>01/24/19: Approval of Supplemental Project Agreement 32756 with Oregon Department of Transportation for the S. Ivy Street (Canby) Project.</p> <p>01/24/19: Approval of an Intergovernmental Agreement with the City of Canby Related to the South Ivy Street Sidewalk Improvement Project.</p> <p>07/13/17: Approval of Supplemental Project Agreement 31172 with Oregon Department of Transportation for the South Ivy Street Project in Canby.</p>
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For Filing Use Only

Performance Clackamas	The project will build a strong infrastructure and ensure safe, healthy and secure communities.		
Counsel Review	Yes	Procurement Review	Yes
Contact Person	Jordan Cools	Contact Phone	503-742-4654

EXECUTIVE SUMMARY: The City of Canby obtained State Funded Local Projects (SFLP) funds through an Intergovernmental Agreement (IGA) with the Oregon Department of Transportation to provide bicycle lanes and sidewalk improvements on Ivy Street. The project will provide enhanced bicycle and pedestrian connectivity and include constructing bike lanes and sidewalks on both sides of the road, ADA Curb Ramp improvements, and installing a signal at the intersection of South Ivy Street and Township Road. The total length of project is approximately ¾ of a mile and Ivy Street will be transferred to the City upon project completion.

Eagle-Elsner Inc. was contracted to perform the construction of the project for an original contract value of \$3,658,000.00. The City has requested additional work be completed as part of the project to repair and replace poor pavement and sidewalk conditions to the south of the project limits and at side street intersections where pavement cracking and rutting are severe. Contract Amendment #1 has a not to exceed value of \$441,131.38 and includes construction of pavement repair; replacement of curb, gutter, and sidewalk; and associated traffic control and sediment and erosion control measures for the additional work.

Funding for this contract is from the SFLP Program (\$1,751,053), City of Canby (\$1,941,160.38), and County Road Fund (\$406,918). No County funds are required for Amendment #1 as the cost of the added work as requested by the City will be the City's responsibility in accordance with the IGA. The project completion date will be extended by 15 calendar days, requiring construction to be substantially completed by November 15, 2025. The contract end date of December 31, 2026 will not change and is needed for plant establishment.

PROCUREMENT PROCESS: This Amendment is in accordance with LCRB C-049-0910(2) in order to add components or phases of work specified or reasonably related to the scope of the original construction contract. The result of this Amendment #1 is a 12.1 percent increase to the original construction contract.

RECOMMENDATION: Staff recommend that the Board of County Commissioners approve and sign Amendment #1 to the Contract with Eagle-Elsner Inc. for the S. Ivy Street Improvements Project.

Respectfully submitted,

Dan Johnson

Dan Johnson, Director
Department of Transportation & Development

**AMENDMENT #1
TO THE CONTRACT DOCUMENTS WITH EAGLE-ELSNER INC., FOR BID# 2024-12 S. IVY
STREET PEDESTRIAN INTERSECTION IMPROVEMENTS PROJECT
Contract #9478**

This Amendment #1 is entered into between **Eagle-Elsner Inc.** ("Contractor") and Clackamas County ("Owner") and shall become part of the Contract documents entered into between both parties on **May 16, 2024** ("Contract").

The Purpose of this Amendment #1 is to make the following changes to the Contract:

1. Section 1. **Contract Price, Contract Documents and Work** is hereby amended as follows:
 - a. Owner authorizes an increase to the Work for quantity increases for cold plane pavement removal; hot mix asphalt concrete pavement; replacement of curb and gutter, and sidewalk; replacement of detection loops; pavement spot repairs; and associated traffic control and erosion and sediment control. The additional Work is described in Change Order #001, attached hereto as Exhibit "A" to this Amendment #1 and hereby incorporated by reference. Work will be performed in accordance with the terms and conditions of the Contract.
 - b. The Owner authorizes additional compensation in the amount of \$441,131.38 for the additional Work described in Exhibit "A" to this Amendment #1. Consideration is in accordance with the terms and conditions of the Contract. The maximum compensation authorized under this Contract shall not exceed Four Million Ninety-Nine Thousand One-Hundred Thirty-One Dollars and Thirty-Eight Cents (\$4,099,131.38).

ORIGINAL CONTRACT	\$ 3,658,000.00
<u>AMENDMENT #1</u>	<u>\$ 441,131.38</u>
TOTAL AMENDED CONTRACT	\$ 4,099,131.38

Except as expressly amended above, all other terms and conditions of the Contract shall remain in full force and effect. By signature below, the parties agree to this Amendment #1, effective upon the date of the last signature below.

Eagle-Elsner Inc.

Clackamas County

Richard Eagle, Pres 07-14-25
Authorized Signature Date

Richard Eagle, President
Printed Name

Date

Approved as to Form

Amanda Kelly 7/14/2025
County Counsel Date

Exhibit A
Change Order #001

CONTRACT CHANGE ORDER ("CCO" or "Order") (Page 1)

PROJECT NAME (SECTION) S Ivy Street Pedestrian Intersection Improvements Project		HIGHWAY S Ivy Street	CONTRACT NO. 9478
CONTRACTOR REPRESENTATIVE Dick Eagle Dave Elsner Brent Williams	NON-AGENCY REPRESENTATIVE	AGENCY REPRESENTATIVE Jordan Cools	CCO NO. 001
CONTRACTOR ADDRESS Eagle-Elsner, Inc. P.O. Box 23294 Tigard, OR 97281	NON-AGENCY REPRESENTATIVE ADDRESS	AGENCY REPRESENTATIVE ADDRESS 150 Beavercreek Rd Oregon City, OR 970450	FA PROJECT NO. N/A
CONTRACTOR PHONE # 503-628-1137	NON-AGENCY REPRESENTATIVE PHONE #	AGENCY REPRESENTATIVE PHONE # 503-742-4654	KEY NO. N/A
CONTRACTOR EMAIL ADDRESS brent@eagle-elsner.com	NON-AGENCY REPRESENTATIVE EMAIL ADDRESS	AGENCY REPRESENTATIVE EMAIL ADDRESS jcools@clackamas.us	REGION N/A
			EA (CON NO.) N/A

THIS CONTRACT IS HEREBY MODIFIED AS FOLLOWS BY THIS CCO (DESCRIPTION AND LOCATION OF WORK COVERED BY THIS ORDER):

This change order is in response to the City of Canby's request for added work to be completed in similar scope to the original project. This change includes quantity increases for cold plane pavement removal, hot mix asphalt concrete pavement, and replacement of curb & gutter and sidewalk, as well as adjustment of structures, replacement of detection loops in the roadway, pavement spot repairs and associated traffic control and erosion and sediment control for the additional work. The extra work is needed to repair and replace poor pavement and sidewalk conditions in the primary travel facilities and at side street intersections where pavement cracking and rutting are worst. In addition, 15 contract days will be added to the contract in Section 00180.50(h)(1).

On Page 3 of this change order is a listing of 4 new bid items and 23 adjustments of bid items from the contract's Schedule of Items, including original quantities and prices followed by the revised quantities and total bid item cost. Specifications for administering and payment of these revised bid items will be under the original contract special provisions and/or as found in the Oregon Standard Specifications for Construction 2024.

SPECIFICATIONS AND PROVISIONS - THE WORK TO BE DONE UNDER THIS CCO IS TO BE PERFORMED, MEASURED, AND PAID FOR IN ACCORDANCE WITH THE TERMS FOR THE ABOVE CONTRACT EXCEPT AS MODIFIED AS FOLLOWS:

Add new pay items as follows:

4001 Detector Installation, Traffic Loops	5 EA
4002 Detector Installation, Bicycle Loop	1 EA
4003 Cold Plane Pavement Removal, 3 Inches Deep	3400 SY
4004 Extra For Spot Grind Repairs	3400 SY

Make the following changes to pay items in the existing Schedule of Items with unit pricing to remain unchanged:

- 04 Temporary Work Zone Traffic Control, Complete (LS) increased by \$57,250.00 for a new total of 1.0 LS (\$289,920.35)
- 07 Erosion Control (LS) increased by \$3,350.00 for a new total of 1.0 LS (\$25,350.00)
- 08 Sediment Fence increased by 1350 LF (\$5,872.50) for a new total of 5,694.00 LF (\$24,768.90)
- 09 Inlet protection, Type 3 increased by 3 EA (\$270.00) for a new total of 55 EA (\$4,950.00)
- 13 Construction Survey Work (LS) increased by \$15,050.00 for a new total of 1.0 LS (\$75,050.00)
- 18 Clearing and Grubbing (LS) increased by \$12,350.00 for a new total of 1.0 LS (\$62,350.00)
- 19 General Excavation increased by 400 CY (\$14,400.00) for a new total of 3,484.00 CY (\$125,424.00)
- 22 Subgrade Geotextile increased by 600 SY (\$900.00) for a new total of 4,703.00 SY (\$7,054.50)
- 34 Adjusting Boxes increased by 5 EA (\$875.00) for a new total of 75 EA (\$13,125.00)
- 38 Cold Plane Pavement Removal, 0 - 2 1/2 Inches Deep increased by 5500 LF (\$15,675.00) for a new total of 19,215.00 LF (\$54,762.75)
- 39 Aggregate Base increased by 500 TON (\$21,500.00) for a new total of 4,573.00 TON (\$196,639.00)
- 40 Level 3, 1/2" ACP Mixture increased by 1350 TON (\$132,300.00) for a new total of 4,173.00 TON (\$408,954.00)
- 41 Extra for Asphalt Approaches increased by 2000 SF (\$4,500.00) for a new total of 9,302.00 SF (\$20,929.50)
- 43 Concrete Curbs - Standard Curb & Gutter increased by 1350 LF (\$33,750.00) for a new total of 6,983.00 LF (\$174,575.00)
- 47 Concrete Walks increased by 7500 LF (\$75,000.00) for a new total of 29,775.00 LF (\$297,750.00)

(Cont. on Page 2)

CONTRACTOR SIGNATURE MAKES THIS CCO A SUPPLEMENTAL AGREEMENT AND IS: Required

FOR SUPPLEMENTAL AGREEMENTS ONLY: Contractor: Confirm your agreement by signing, dating and returning the original to the Resident Engineer. Work shall not begin until you are notified that the agreement has either been approved or that work may commence under advance approval. Your signature further confirms agreement that payments in accordance with the agreement constitute full and complete compensation for all costs, both direct and indirect, arising out of the described work covered by this agreement, and releases and discharges the State from other costs except as provided herein.

AGREED TO BY CONTRACTOR	DATE	AGENCY REPRESENTATIVE	DATE
Print		Print	
Sign		Sign	
RECOMMENDED BY LOCAL AGENCY	DATE	AGENCY MANAGER	DATE
Print		Print	
Sign		Sign	
RECOMMENDED BY NON-AGENCY REPRESENTATIVE	DATE	CONSTRUCTION	DATE
Print		Print	
Sign		Sign	

CONTRACT CHANGE ORDER ("CCO" or "Order") (Page 2)

PROJECT NAME (SECTION) S Ivy Street Pedestrian Intersection Improvements Project		HIGHWAY S Ivy Street	CONTRACT NO. 9478
CONTRACTOR REPRESENTATIVE Dick Eagle Dave Elsner Brent Williams	NON-AGENCY REPRESENTATIVE	AGENCY REPRESENTATIVE Jordan Cools	CCO NO. 001
CONTRACTOR ADDRESS Eagle-Elsner, Inc. P.O. Box 23294 Tigard, OR 97281	NON-AGENCY REPRESENTATIVE ADDRESS	AGENCY REPRESENTATIVE ADDRESS 150 Beavercreek Rd Oregon City, OR 970450	FA PROJECT NO. N/A
CONTRACTOR PHONE # 503-628-1137	NON-AGENCY REPRESENTATIVE PHONE #	AGENCY REPRESENTATIVE PHONE # 503-742-4654	KEY NO. N/A
CONTRACTOR EMAIL ADDRESS brent@eagle-elsner.com	NON-AGENCY REPRESENTATIVE EMAIL ADDRESS	AGENCY REPRESENTATIVE EMAIL ADDRESS jcools@clackamas.us	REGION N/A
			EA (CON NO.) N/A

THIS CONTRACT IS HEREBY MODIFIED AS FOLLOWS BY THIS CCO (DESCRIPTION AND LOCATION OF WORK COVERED BY THIS ORDER):

See previous page.

SPECIFICATIONS AND PROVISIONS - THE WORK TO BE DONE UNDER THIS CCO IS TO BE PERFORMED, MEASURED, AND PAID FOR IN ACCORDANCE WITH THE TERMS FOR THE ABOVE CONTRACT EXCEPT AS MODIFIED AS FOLLOWS:

(Cont. from Page 1)

Make the following changes to pay items in the existing Schedule of Items with unit pricing to remain unchanged:

- 53 Bi-Directional Yellow Type I Markers increased by 25 EA (\$450.00) for a new total of 31.00 EA (\$558.00)
- 54 Thermoplastic, Extruded or Sprayed, Surface, Non-profiled increased by 3500 LF (\$4,375.00) for a new total of 23,405.00 LF (\$29,256.25)
- 55 Pavement Legend, Type AB: Arrows increased by 2 EA (\$640.00) for a new total of 24 EA (\$7,680.00)
- 56 Pavement Legend, Type B-HS: Bike Lane Stencil increased by 4 EA (\$1,260.00) for a new total of 26 EA (\$8,190.00)
- 59 Pavement Bar, Type B-HS increased by 200 SF (\$2,400.00) for a new total of 948.00 SF (\$11,376.00)
- 69 Permanent Seeding increased by 0.05 ACRE (\$1,050.00) for a new total of 0.20 ACRE (\$4,137.00)
- 70 Topsoil increased by 20 CY (\$1,900.00) for a new total of 139.00 CY (\$13,205.00)
- 71 Bark Mulch increased by 20 CY (\$1,800.00) for a new total of 312.00 CY (\$28,080.00)

Change Special Provisions *Section 00180.50(h)-Contract Time, (1)* "Complete all Work to be done under the Contract, except for seeding establishment not later than October 31, 2025." to "Complete all Work to be done under the Contract, except for seeding establishment not later than November 15, 2025."

For Item 4004, spot grind repairs shall be performed at the direction of the Engineer after initial cold plane pavement removal. Payment under 4003 shall be in addition to payment for cold plane pavement removal under Item 4003 and hot mix asphalt concrete paving under Bid Item 40.



CONTRACT CHANGE ORDER (Page 3)

PROJECT NAME (SECTION)		CONTRACT NO.	CONTINUATION OF CCO NO.:			
S Ivy Street Pedestrian Intersection Improvements Project		9478	001			
REVISED BID ITEMS						
Pay Item	Spec	Description	Est. Qty.	Unit	Unit Price	Amount
4	00221	Temporary Work Zone Traffic Control, Complete	1.00	LS	\$ 232,670.35	\$ 232,670.35
		<u>Revised</u>				
4	00221	Temporary Work Zone Traffic Control, Complete	1.00	LS	\$ 289,920.35	\$ 289,920.35
7	00280	Erosion Control	1.00	LS	\$ 22,000.00	\$ 22,000.00
		<u>Revised</u>				
7	00280	Erosion Control	1.00	LS	\$ 25,350.00	\$ 25,350.00
8	00280	Sediment Fence	4,344.00	LF	\$ 4.35	\$ 18,896.40
		<u>Revised</u>				
8	00280	Sediment Fence	5,694.00	LF	\$ 4.35	\$ 24,768.90
9	00280	Inlet protection, Type 3	52.00	EA	\$ 90.00	\$ 4,680.00
		<u>Revised</u>				
9	00280	Inlet protection, Type 3	55.00	EA	\$ 90.00	\$ 4,950.00
13	00305	Construction Survey Work	1.00	LS	\$ 60,000.00	\$ 60,000.00
		<u>Revised</u>				
13	00305	Construction Survey Work	1.00	LS	\$ 75,050.00	\$ 75,050.00
18	00320	Clearing and Grubbing	1.00	LS	\$ 50,000.00	\$ 50,000.00
		<u>Revised</u>				
18	00320	Clearing and Grubbing	1.00	LS	\$ 62,350.00	\$ 62,350.00
19	00330	General Excavation	3,084.00	CY	\$ 36.00	\$ 111,024.00
		<u>Revised</u>				
19	00330	General Excavation	3,484.00	CY	\$ 36.00	\$ 125,424.00
22	00350	Subgrade Geotextile	4,103.00	SY	\$ 1.50	\$ 6,154.50
		<u>Revised</u>				
22	00350	Subgrade Geotextile	4,703.00	SY	\$ 1.50	\$ 7,054.50
34	00490	Adjusting Boxes	70.00	EA	\$ 175.00	\$ 12,250.00
		<u>Revised</u>				
34	00490	Adjusting Boxes	75.00	EA	\$ 175.00	\$ 13,125.00
38	00620	Cold Plane Pavement Removal, 0 - 2 1/2 Inches Deep	13,715.00	SY	\$ 2.85	\$ 39,087.75
		<u>Revised</u>				
38	00620	Cold Plane Pavement Removal, 0 - 2 1/2 Inches Deep	19,215.00	SY	\$ 2.85	\$ 54,762.75
39	00641	Aggregate Base	4,073.00	TON	\$ 43.00	\$ 175,139.00
		<u>Revised</u>				
39	00641	Aggregate Base	4,573.00	TON	\$ 43.00	\$ 196,639.00
40	00744	Level 3, 1/2" ACP Mixture	2,823.00	TON	\$ 98.00	\$ 276,654.00
		<u>Revised</u>				
40	00744	Level 3, 1/2" ACP Mixture	4,173.00	TON	\$ 98.00	\$ 408,954.00
41	00749	Extra for Asphalt Approaches	7,302.00	SF	\$ 2.25	\$ 16,429.50
		<u>Revised</u>				
41	00749	Extra for Asphalt Approaches	9,302.00	SF	\$ 2.25	\$ 20,929.50
43	00759	Concrete Curbs - Standard Curb & Gutter	5,633.00	LF	\$ 25.00	\$ 140,825.00
		<u>Revised</u>				
43	00759	Concrete Curbs - Standard Curb & Gutter	6,983.00	LF	\$ 25.00	\$ 174,575.00
47	00759	Concrete Walks	22,275.00	SF	\$ 10.00	\$ 222,750.00
		<u>Revised</u>				
47	00759	Concrete Walks	29,775.00	SF	\$ 10.00	\$ 297,750.00
53	00865	Bi-Directional Yellow Type I Markers	6.00	EA	\$ 18.00	\$ 108.00
		<u>Revised</u>				
53	00865	Bi-Directional Yellow Type I Markers	31.00	EA	\$ 18.00	\$ 558.00
54	00867	Thermoplastic, Extruded or Sprayed, Surface, Non-profiled	19,905.00	LF	\$ 1.25	\$ 24,881.25
		<u>Revised</u>				
54	00867	Thermoplastic, Extruded or Sprayed, Surface, Non-profiled	23,405.00	LF	\$ 1.25	\$ 29,256.25

(Cont. on Pg. 4)



CONTRACT CHANGE ORDER (Page 4)

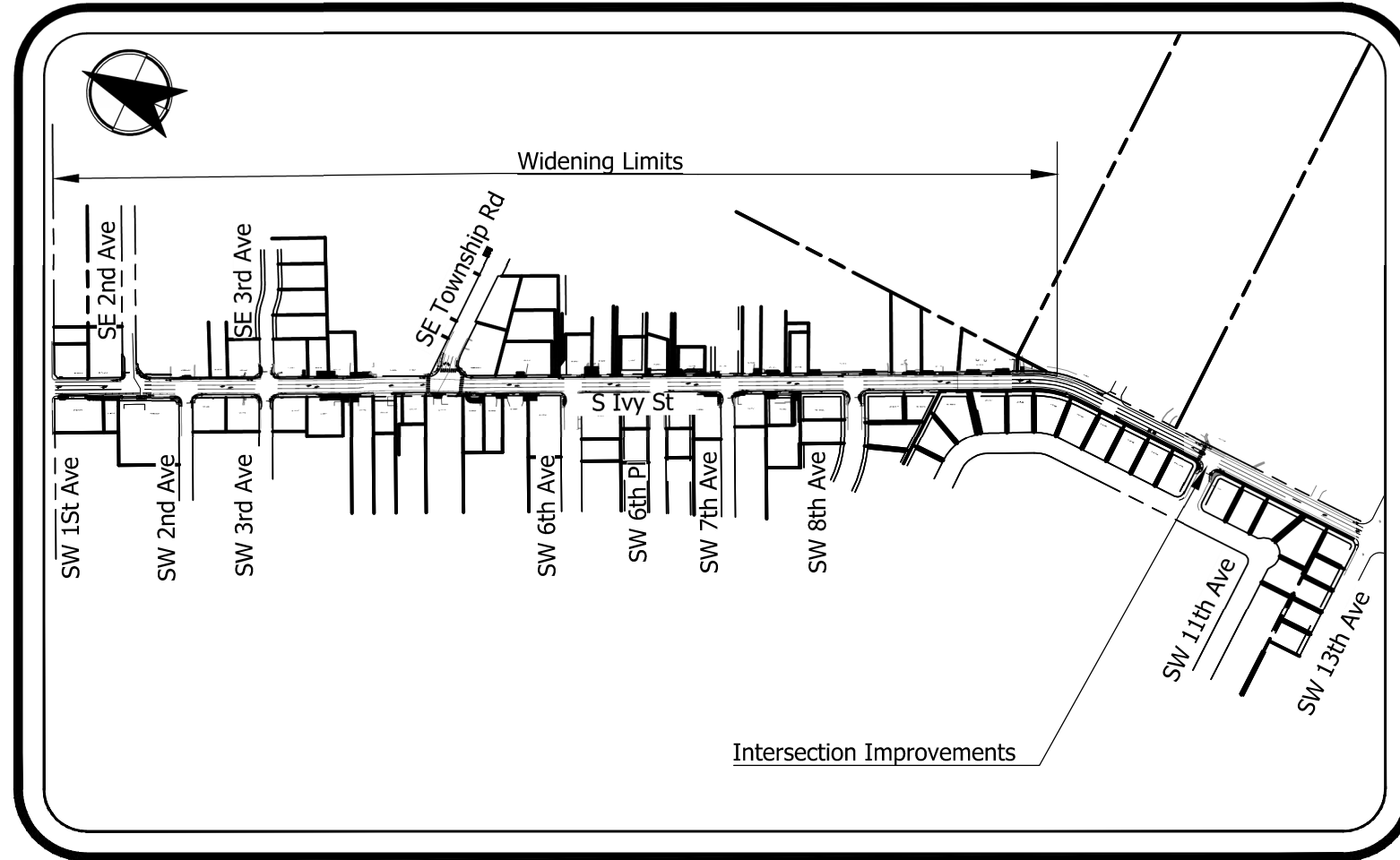
PROJECT NAME (SECTION)			CONTRACT NO.	CONTINUATION OF CCO NO.:		
S Ivy Street Pedestrian Intersection Improvements Project			9478	001		
(Cont. from Page 3)						
REVISED BID ITEMS (CONT.)						
55	00867	Pavement Legend, Type AB: Arrows	22.00	EA	\$ 320.00	\$ 7,040.00
		<u>Revised</u>				
55	00867	Pavement Legend, Type AB: Arrows	24.00	EA	\$ 320.00	\$ 7,680.00
56	00867	Pavement Legend, Type B HS: Bike Lane Stencil	22.00	EA	\$ 315.00	\$ 6,930.00
		<u>Revised</u>				
56	00867	Pavement Legend, Type B-HS: Bike Lane Stencil	26.00	EA	\$ 315.00	\$ 8,190.00
59	00867	Pavement Bar, Type B HS	748.00	SF	\$ 12.00	\$ 8,976.00
		<u>Revised</u>				
59	00867	Pavement Bar, Type B-HS	948.00	SF	\$ 12.00	\$ 11,376.00
69	01030	Permanent Seeding	0.15	ACRE	\$ 21,000.00	\$ 3,087.00
		<u>Revised</u>				
69	01030	Permanent Seeding	0.20	ACRE	\$ 21,000.00	\$ 4,137.00
70	01040	Topsoil	119.00	CY	\$ 95.00	\$ 11,305.00
		<u>Revised</u>				
70	01040	Topsoil	139.00	CY	\$ 95.00	\$ 13,205.00
71	01040	Bark Mulch	292.00	CY	\$ 90.00	\$ 26,280.00
		<u>Revised</u>				
71	01040	Bark Mulch	312.00	CY	\$ 90.00	\$ 28,080.00
ADDED BID ITEMS						
Pay Item	Spec	Description	Est. Qty.	Unit	Unit Price	Amount
4001	00990	Detector Installation, Traffic Loops	5.00	EA	\$ 1,799.73	\$ 8,998.65
4002	00990	Detector Installation, Bicycle Loop	1.00	EA	\$ 1,959.23	\$ 1,959.23
4003	00620	Cold Plane Pavement Removal, 3 Inches Deep	3,400.00	SY	\$ 3.42	\$ 11,628.00
4004	00749	Extra For Spot Grind Repairs	3,400.00	SY	\$ 3.42	\$ 11,628.00
ADDED CONTRACT VALUE						\$441,131.38

S Ivy Street Pedestrian Improvements

GRADING, PAVING, DRAINAGE, ROADSIDE DEVELOPMENT, SIGNING, PAVEMENT MARKINGS, SIGNALS

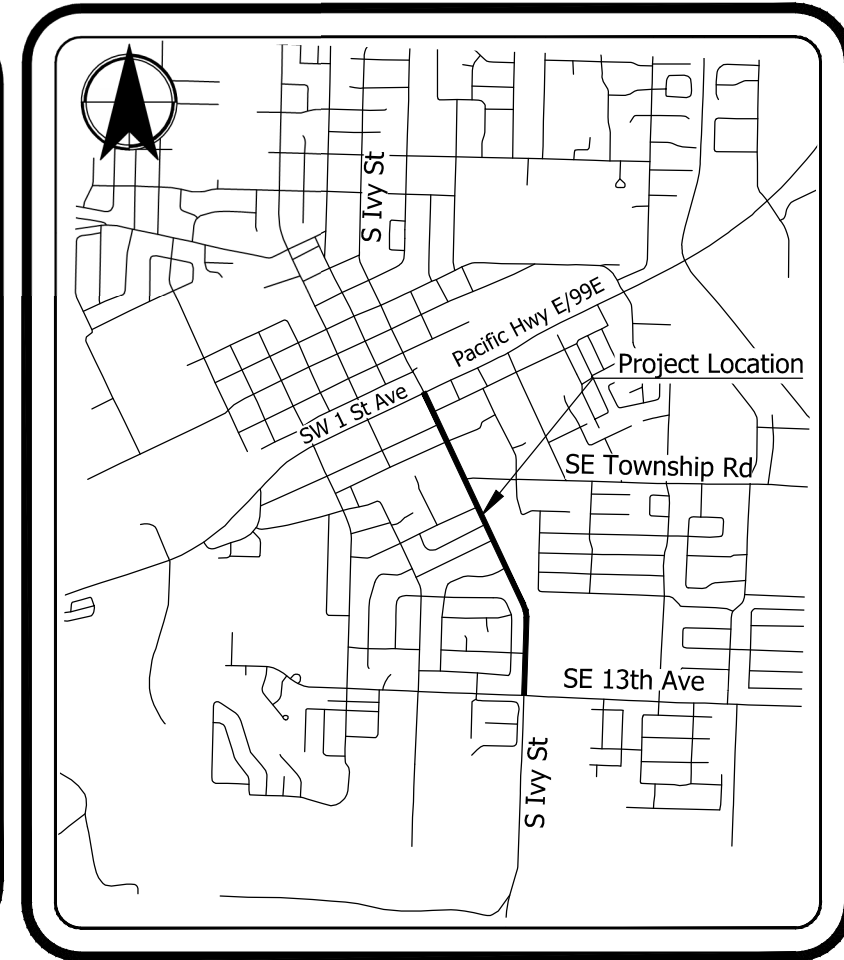
PREPARED FOR:
CLACKAMAS COUNTY, OR

Project Number: CI-300317309
January 2024



SITE MAP

SCALE: NTS



VICINITY MAP

SCALE: NTS

BASIS OF BEARING:

BASIS OF BEARING WAS DERIVED FROM THE OREGON COORDINATE REFERENCE SYSTEM (OCRS), PORTLAND ZONE, LAMBERT CONFORMAL CONIC PROJECTION, NAD 83.

DATUM:

ELEVATION DATUM: NAVD 88, NGS RD0255
BENCHMARK ID: A14
DESCRIPTION: 3-1/2" BRASS DISK IN CONC. AT NW CORNER OF INTERSECTION OF NW 1ST AND NW GRANT STREET.
ELEVATION: 156.53 FEET

PROJECT CONTACTS

OWNER
CLACKAMAS COUNTY
CONTACT: Jordan Cools, P.E.
ADDRESS: 150 Beavercreek Rd
Oregon City, OR, 97045
PHONE: 503.742.4654
EMAIL: jcools@clackamas.us

SURVEYOR
S&F LAND SURVEY
CONTACT: Arrin Oishi, LSIT
ADDRESS: 4858 SW Scholls Ferry Rd suite a,
Portland, OR 97225
PHONE: 503.345.0328
EMAIL: arrin.oishi@t2ue.com

ENGINEER
KITTELSON & ASSOCIATES, INC.
CONTACT: Tony Roos, P.E.
ADDRESS: 851 SW 6th Avenue, Suite 600
Portland, OR 97204
PHONE: 503.535.7444
EMAIL: troos@kittelson.com

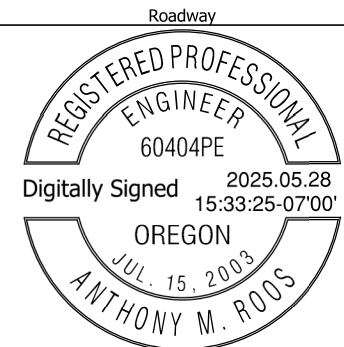
DRAINAGE
KITTELSON & ASSOCIATES
CONTACT: Cedimir Jesic, P.E.
ADDRESS: 851 SW 6th Avenue, Suite 600
Portland, OR 97204
PHONE: 503.535.7507
EMAIL: cjestic@kittelson.com

UTILITY NOTIFICATION:

ATTENTION: Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through 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.)



851 SW 6TH AVENUE, SUITE 600
PORTLAND, OR 97204
P 503.228.5230 F 503.273.8169



EXPIRES: 12/31/2026

REVISIONS

NO	DATE	DESCRIPTION
1	8/21/2024	Relocated RRFB, revised curb ramp design.
2	1/29/2025	Relocated pole 8 and pole 9.
3	3/18/2025	Relocated pole 7.
4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay

Sheet No. A01

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION AND DEVELOPMENT
150 BEAVERCREEK ROAD
OREGON CITY, OR 97045



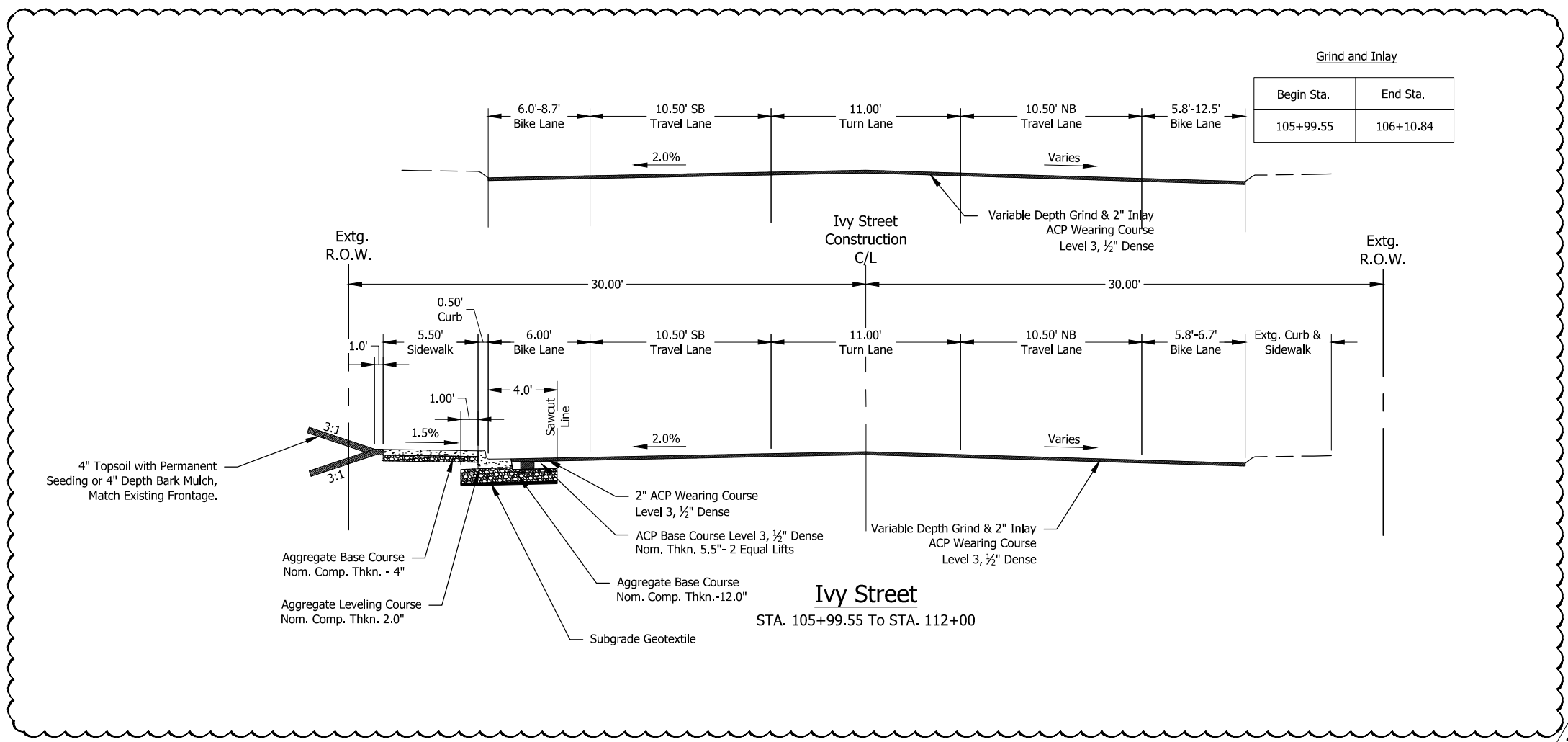
DAN JOHNSON
DIRECTOR

TITLE SHEET

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

DATE: December 2023 PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:43:06 PM - Dimitriyan Shadrin
 File: H:\23\23982 - Ivy Street Pedestrian Improvements\design\CD\BA-TYPICAL SECTIONS.dwg



Begin Sta.	End Sta.
105+99.55	106+10.84

Ivy Street
 STA. 105+99.55 To STA. 112+00

4

KITTELSON & ASSOCIATES
 851 SW 6TH AVENUE, SUITE 600
 PORTLAND, OR 97204
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL
 ENGINEER
 60404PE
 Digitally Signed 2025.05.28
 OREGON
 JUL. 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

TYPICAL SECTIONS
**S IVY ST PEDESTRIAN
 INTERSECTION IMPROVEMENTS**

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION
 AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045

DAN JOHNSON
 DIRECTOR

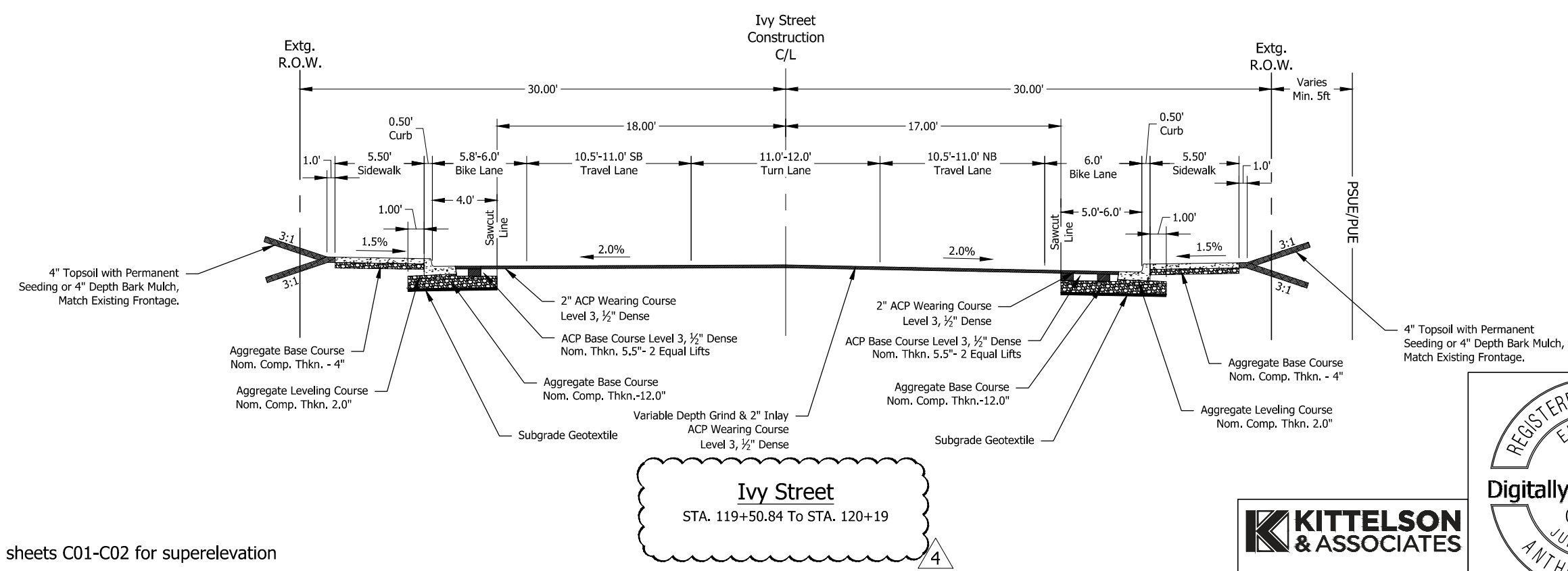
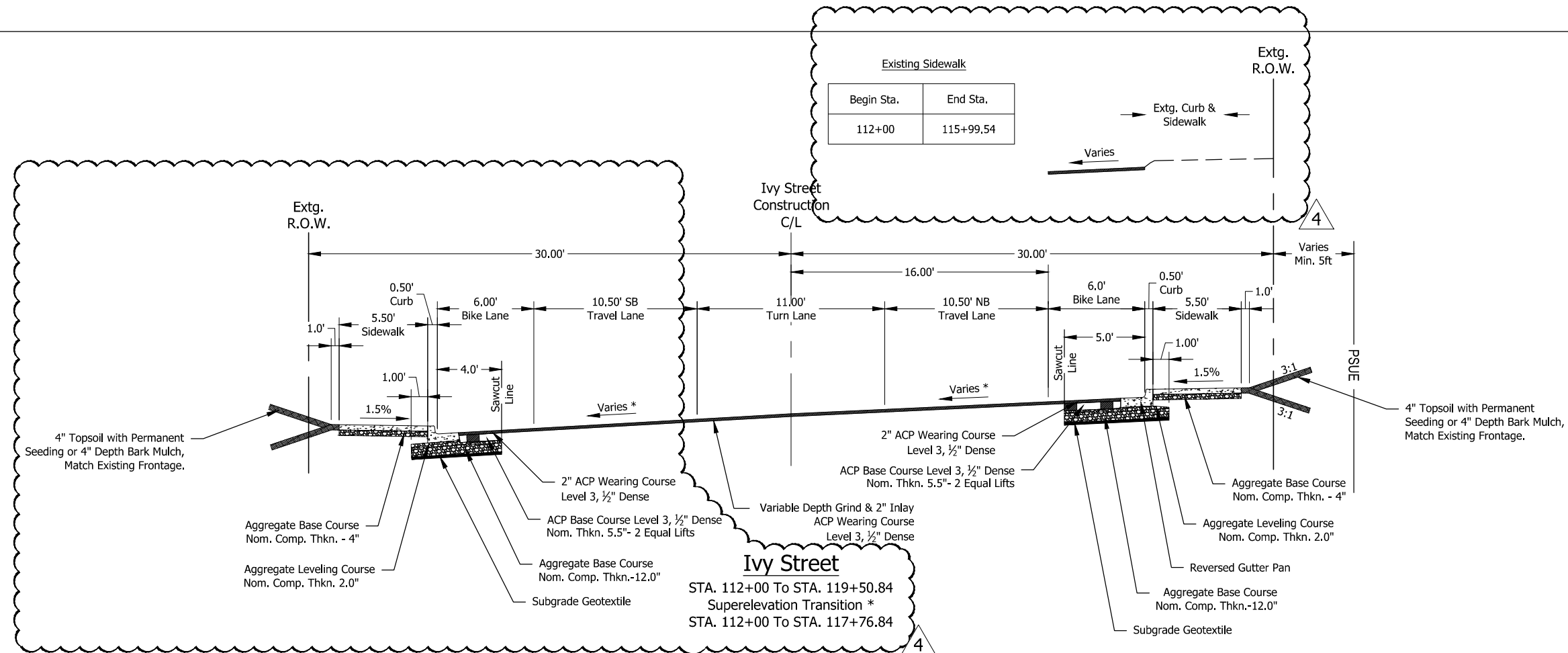
DESIGNED BY:
 C. COX
 DRAFTED BY:
 D. SHADRIN
 CHECKED BY:
 T. ROOS

NO.	DATE	REVISIONS
4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay

Sheet No.
BA00.1

DATE: December 2023 PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:43:39 PM • Dimitriyan Shadrin
 File: H:\23\23982 - Ivy Street Pedestrian Improvements\design\CD\BA-TYPICAL SECTIONS.dwg



Ivy Street
 STA. 119+50.84 To STA. 120+19

*See profiles on sheets C01-C02 for superelevation transition details

KITTELSON & ASSOCIATES
 851 SW 6TH AVENUE, SUITE 600
 PORTLAND, OR 97204
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL ENGINEER
 60404PE
 Digitally Signed 2025.05.28
 OREGON
 JUL 15, 2003
 ANTHONY M. ROOS

TYPICAL SECTIONS

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045

DIRECTOR
 DAN JOHNSON

DESIGNED BY: C. COX
 DRAFTED BY: D. SHADRIN
 CHECKED BY: T. ROOS

NO. DATE: 4 4/29/2025
 Phase 2 sidewalk and pavement grind and inlay

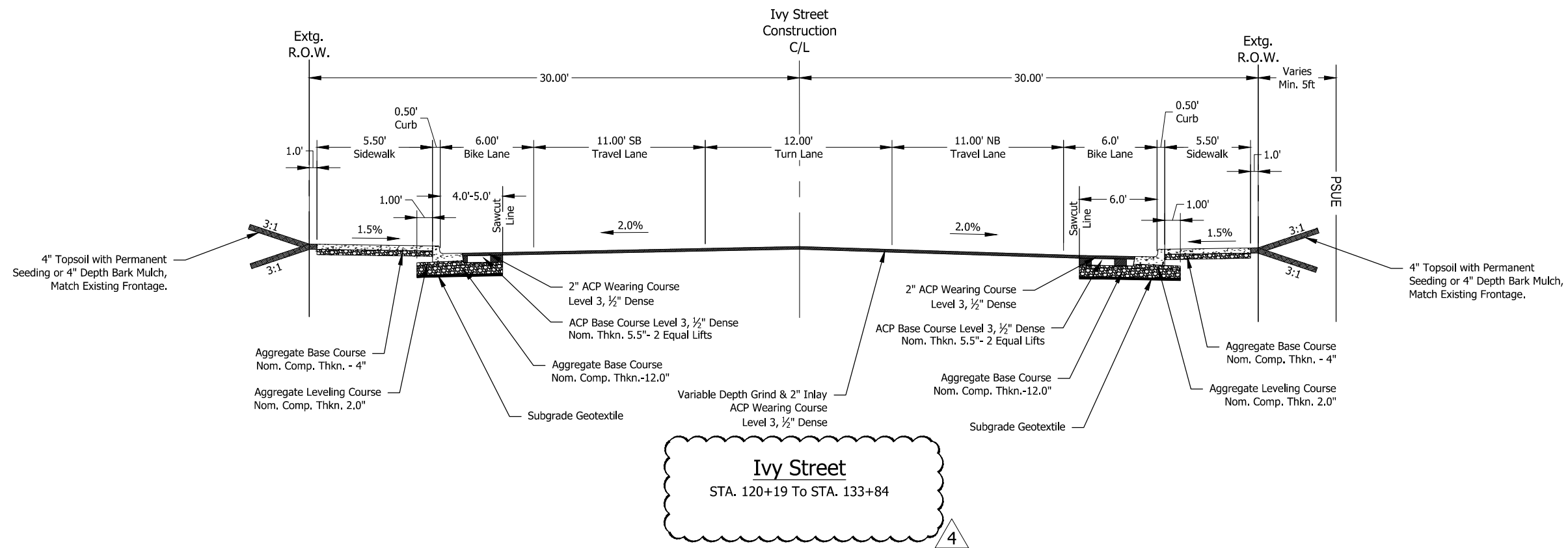
REVISIONS

Sheet No. BA01

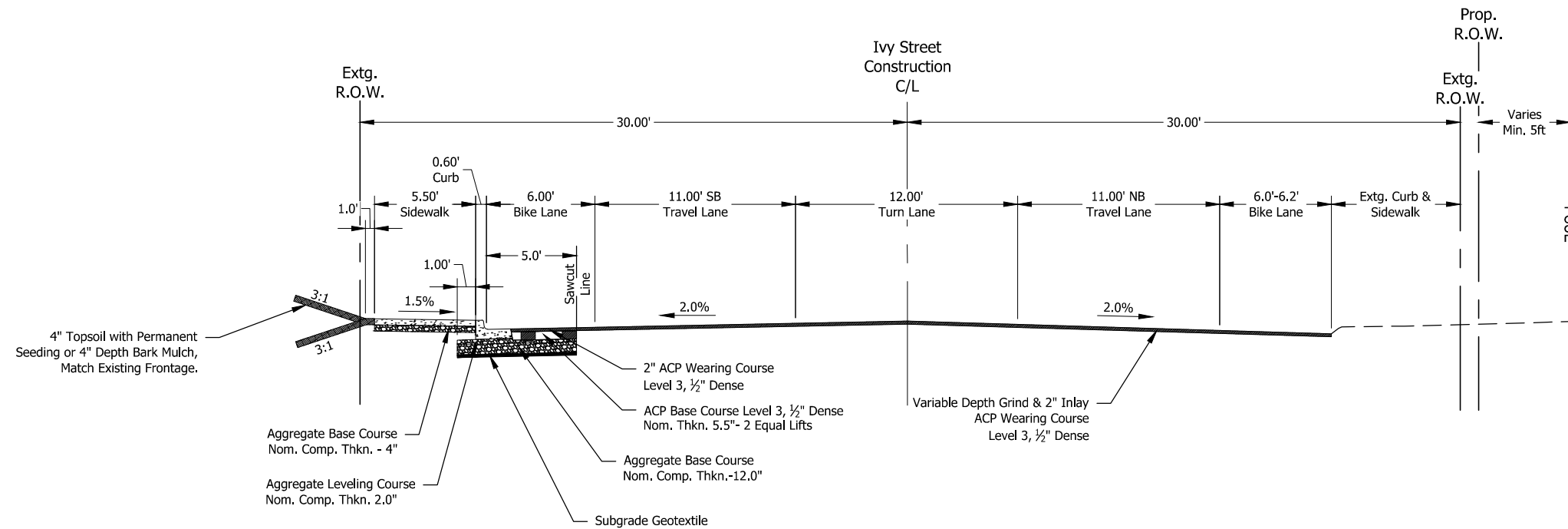
DATE: December 2023 PROJECT NO.: CI-300317309

EXPIRES: 12/31/2026

Plot Stamp: 5/26/2025 12:44:12 PM - Dimitriyan Shadrin
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Ivy Street
 STA. 120+19 To STA. 133+84



Ivy Street
 STA. 133+84 To STA. 135+43

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 PORTLAND, OR 97204
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TYPICAL SECTIONS
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS
 DATE: December 2023 PROJECT NO.: CI-300317309

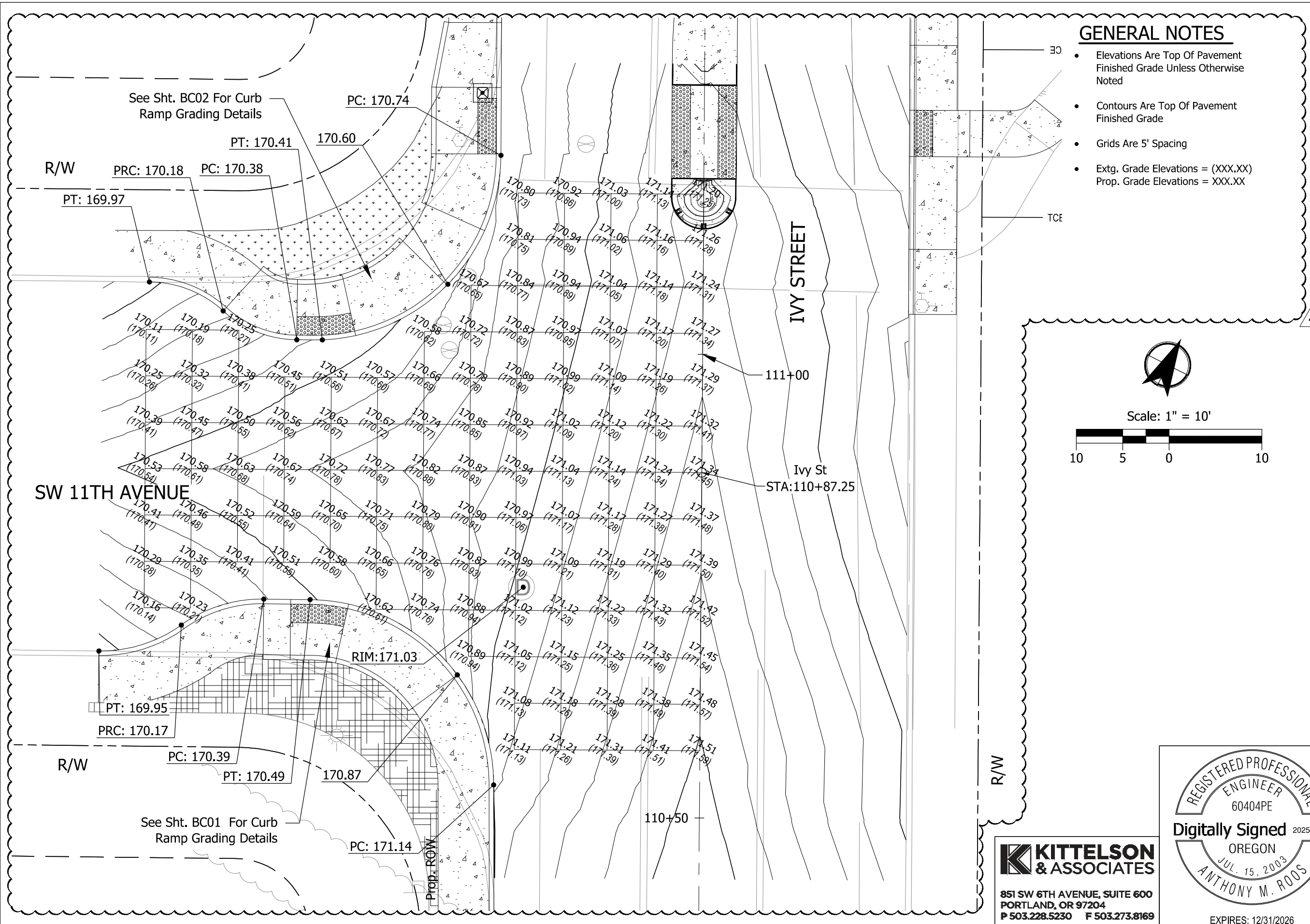
CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045
DAN JOHNSON
 DIRECTOR

DESIGNED BY: C. COX
 DRAFTED BY: D. SHADRIN
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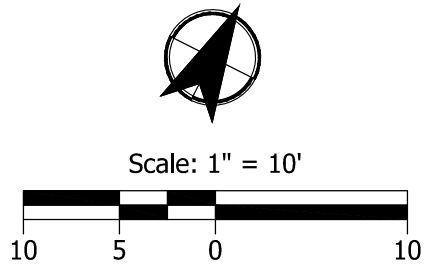
REVISIONS	
NO. DATE:	Phase 2 sidewalk and pavement grind and inlay
4	4/29/2025

Sheet No. BA02

Plot Stamp: 5/26/2025 12:44:29 PM - Dmitryan Shadrin
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- ### GENERAL NOTES
- Elevations Are Top Of Pavement Finished Grade Unless Otherwise Noted
 - Contours Are Top Of Pavement Finished Grade
 - Grids Are 5' Spacing
 - Extg. Grade Elevations = (XXX.XX)
Prop. Grade Elevations = XXX.XX



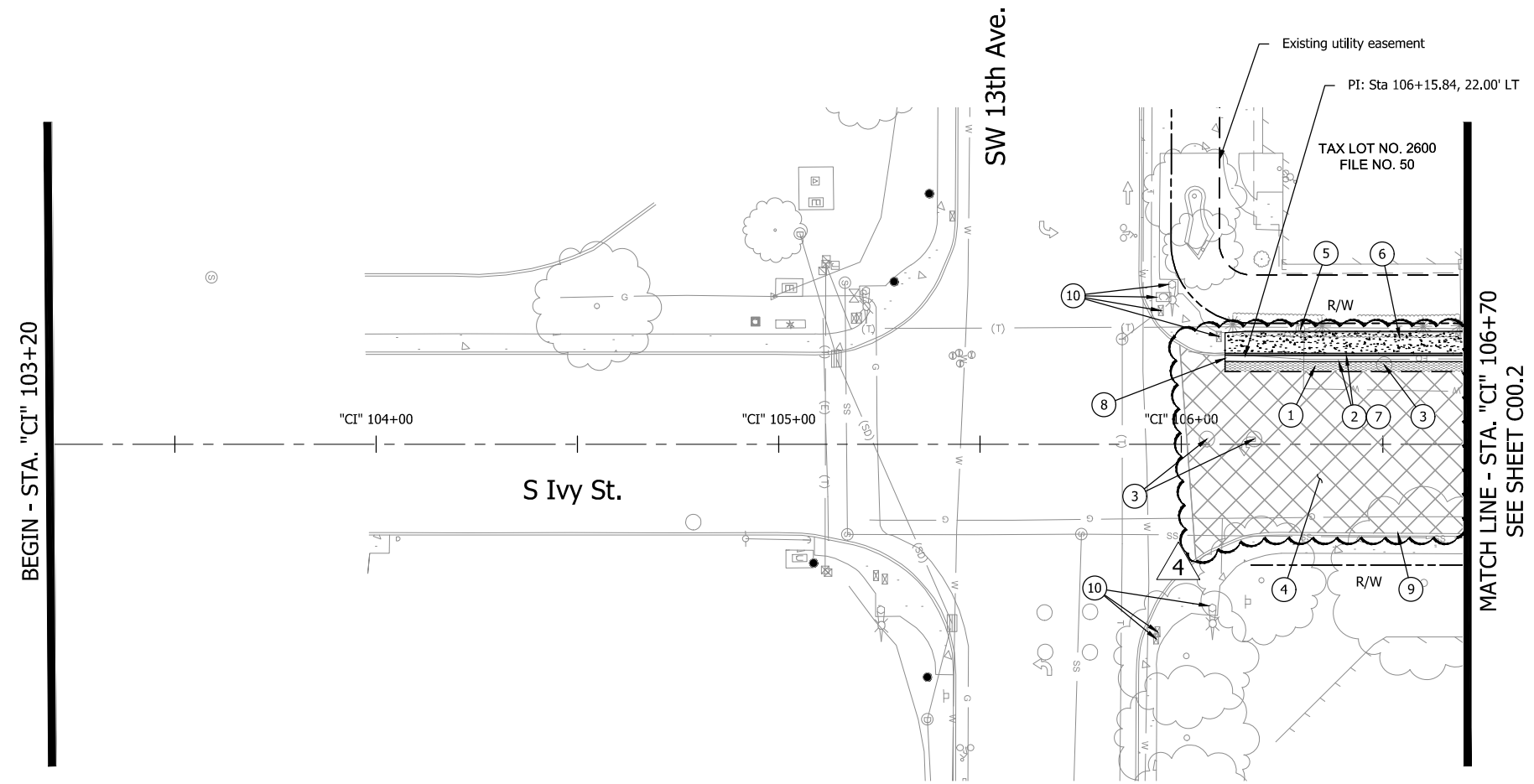
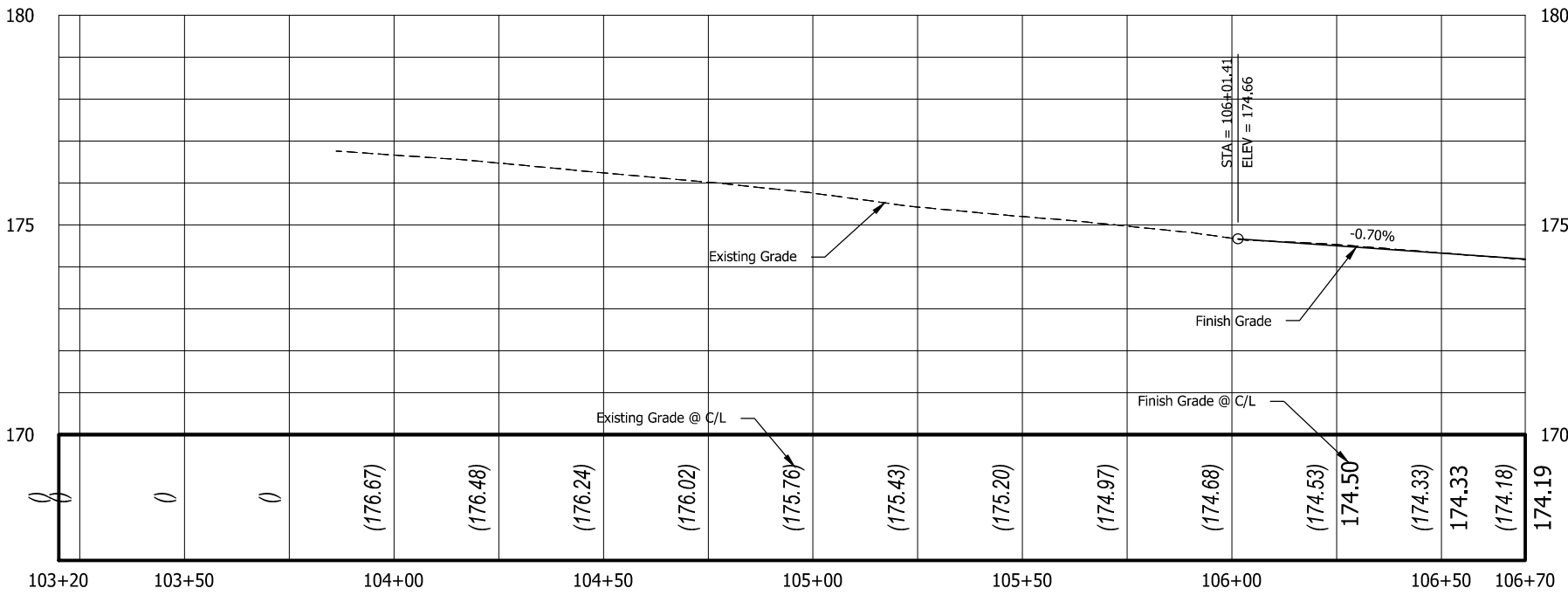
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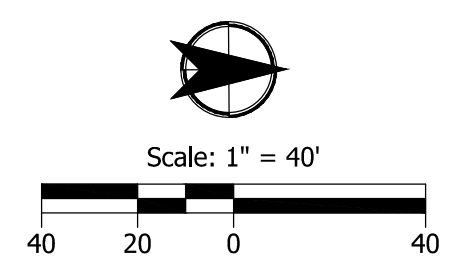
EXPIRES: 12/31/2026

INTERSECTION GRADING DETAILS		S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045		DIRECTOR DAN JOHNSON	
DESIGNED BY: C. COX	DRAFTED BY: D. SHADRIN	CHECKED BY: T. ROOS	PROJECT NO.: CI-300317309
NO. DATE:	Phase 2 sidewalk and pavement grind and inlay		
4 4/29/2025			
Sheet No.	BE00.1		

Plot Stamp: 5/26/2025 12:44:54 PM - Dmitryan Shadrin
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- ### CONSTRUCTION NOTES
- 1 Sta. "CI" 106+10.84, 22.07' LT to Sta. "CI" 110+65.25, 26.19' LT
Sawcut & remove extg. pvmt., curb, & sidewalk
 - 2 Sta. "CI" 106+10.84, 22.07' LT to Sta. "CI" 110+65.25, 26.19' LT
Const. curb and gutter - 455.8 ft. (See Clack. Co. dwg. no. S150)
Const. P.C. conc. sidewalk - 2534.2 sq. ft. (see Clack. Co. dwg. no. S960)
Match existing.
 - 3 Signal equipment (see sht nos. MD01-MD03)
 - 4 Const. variable depth grind & 2" inlay
 - 5 Protect Fire Hydrant
 - 6 Trim hedge to back of walk
 - 7 Const. full depth ACP
 - 8 Const. gutter transition (For details, see sht. BB02)
 - 9 Protect extg. curb and sidewalk
 - 10 Protect extg. signal equipment

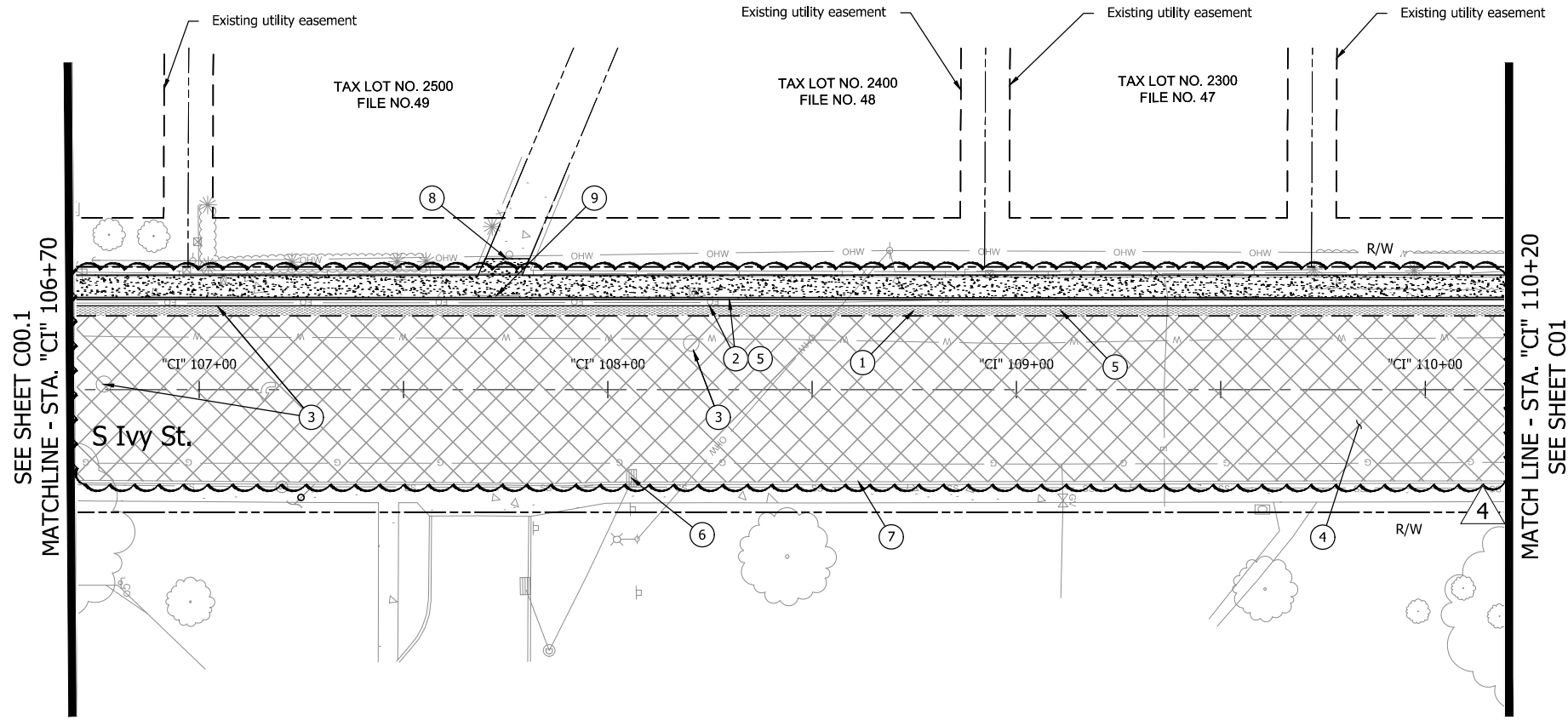


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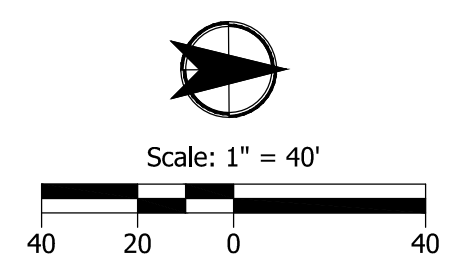
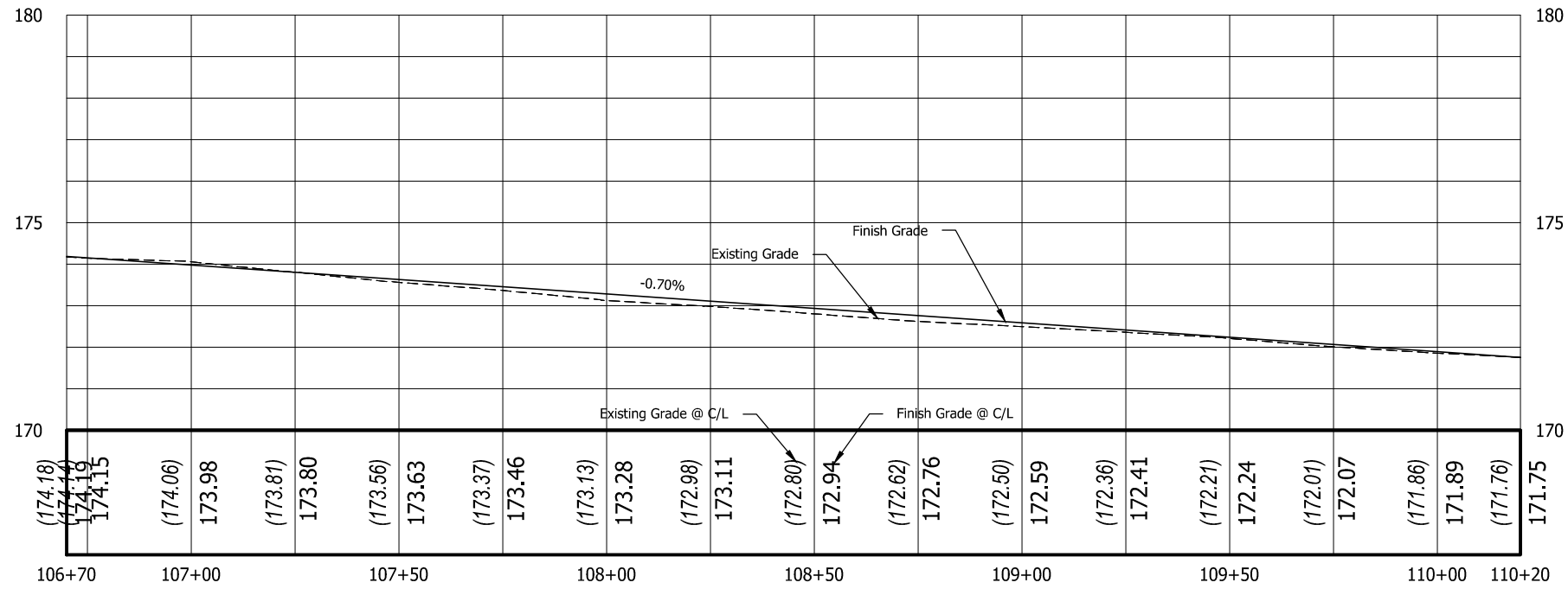
REGISTERED PROFESSIONAL ENGINEER
 60404PE
 Digitally Signed 2025.05.28
 OREGON
 JUL. 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

GENERAL CONSTRUCTION	
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS	
DATE: December 2023 PROJECT NO.: CI-300317309	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: C. COX	CHECKED BY: T. ROOS
DRAFTED BY: D. SHADRIN	NO. DATE: 4 4/29/2025
REVISIONS Phase 2 sidewalk and pavement grind and inlay	
Sheet No. C00.1	

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- ### CONSTRUCTION NOTES
- ① See Sht. C00.1, Note 1
Sawcut & remove extg. pvmt., curb, & sidewalk
 - ② See Sht. C00.1, Note 2
Const. curb and gutter
Const. P.C. conc. sidewalk
 - ③ Signal equipment (see sht nos. MD01-MD03)
 - ④ Const. variable depth grind & 2" inlay
 - ⑤ Const. full depth ACP
 - ⑥ Protect extg. catch basin
 - ⑦ Protect extg. curb and sidewalk
 - ⑧ Construct concrete path connection, match existing
 - ⑨ Remove extg. barricade



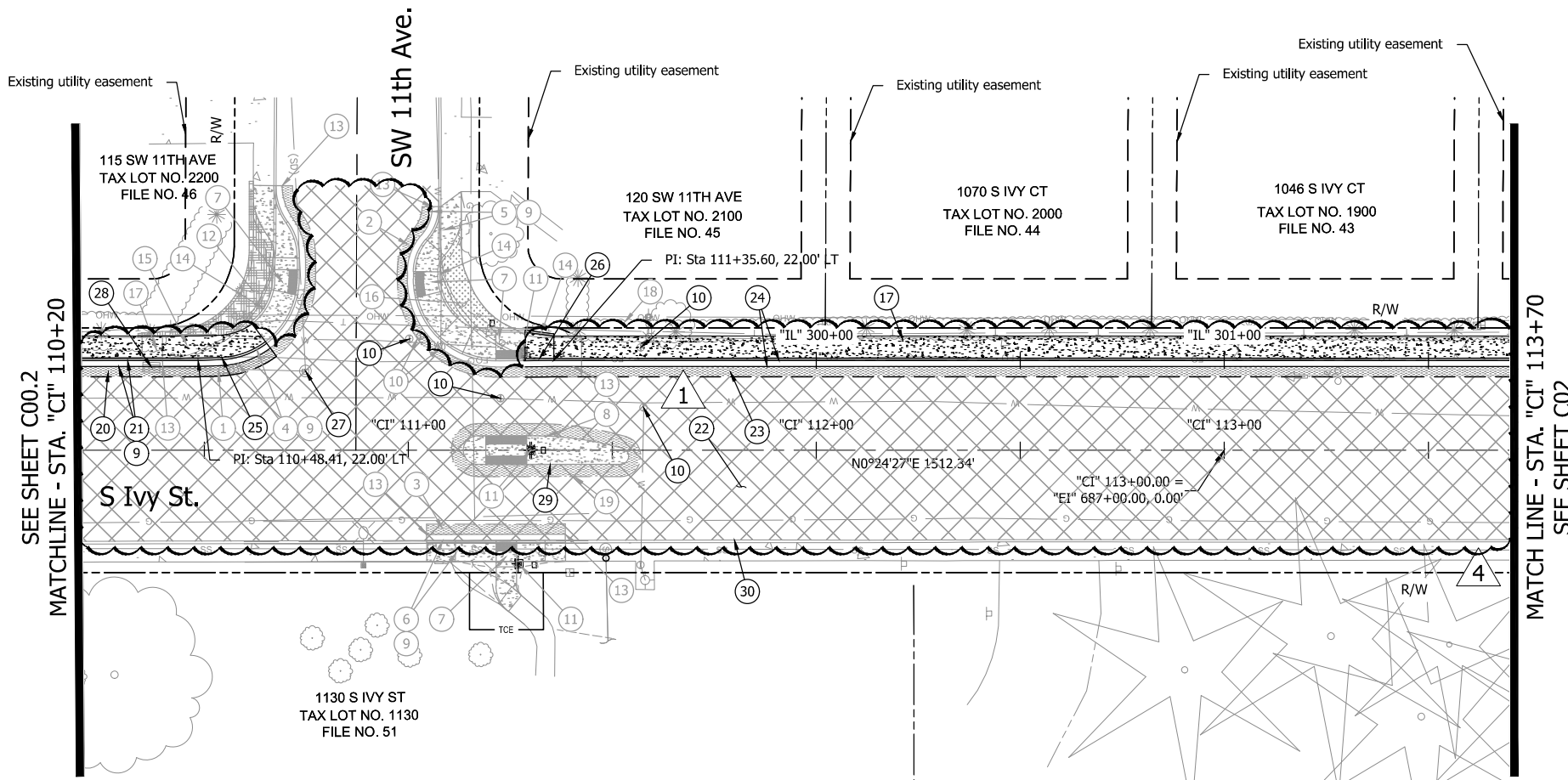
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 ENGINEER
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 EXPIRES: 12/31/2026

GENERAL CONSTRUCTION	
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CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: C. COX	DRAFTED BY: D. SHADRIN
CHECKED BY: T. ROOS	
NO. DATE:	Phase 2 sidewalk and pavement grind and inlay
4 4/29/2025	
Sheet No.	C00.2

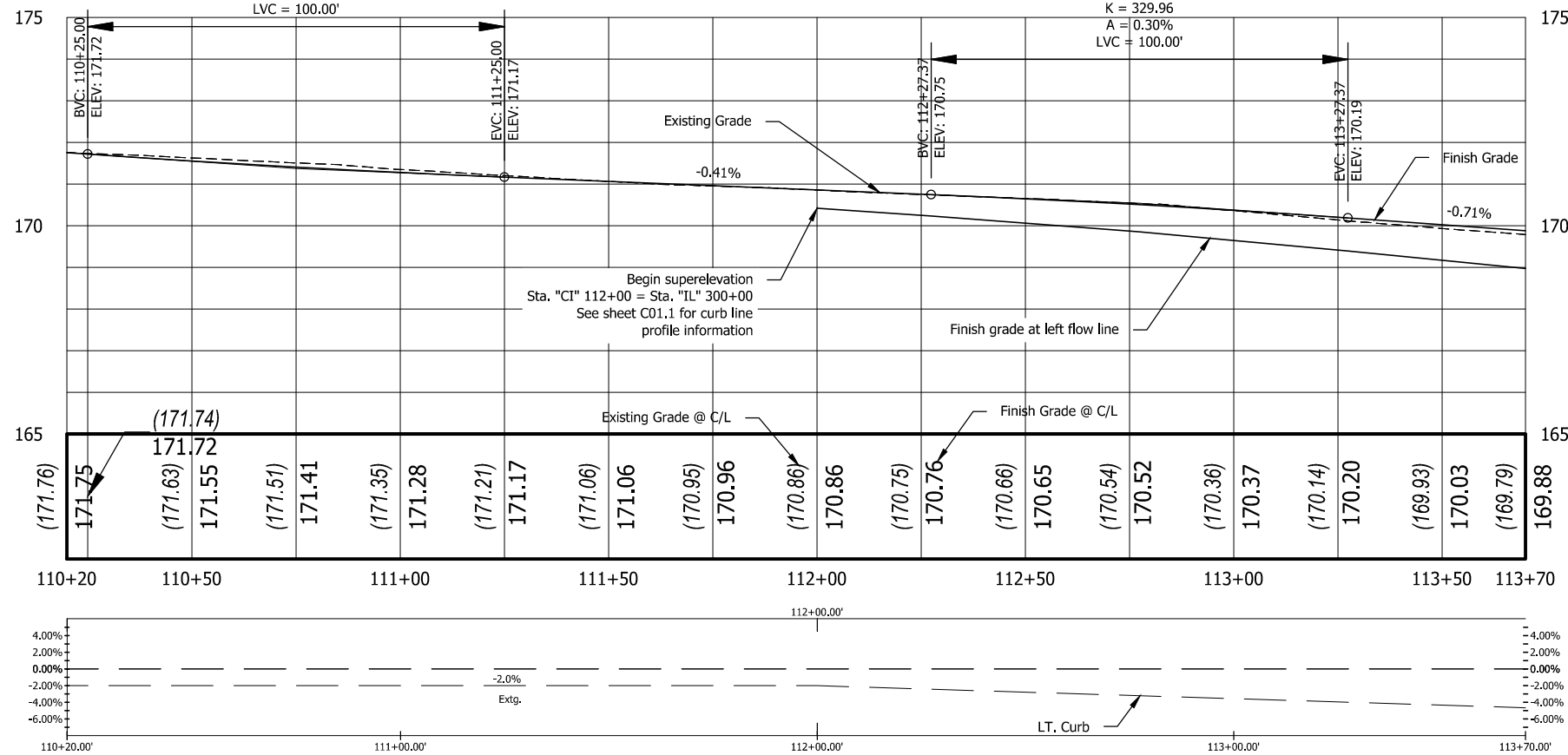
DATE: December 2023 PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:46:09 PM - Dimitriyan Shadrin
 File: H:\23\23982 - Ivy Street Pedestrian Improvements\design\CD\C-PLAN & PROFILE_PH2.dwg



PVI STA = 110+75.00
 PVI ELEV = 171.37
 K = 349.05
 A = 0.29%
 LVC = 100.00'

PVI STA = 112+77.37
 PVI ELEV = 170.54
 K = 329.96
 A = 0.30%
 LVC = 100.00'

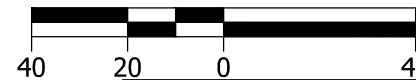


CONSTRUCTION NOTES

- 1 Sta. "CI" 110+39.72, 22.03' LT to Sta. "CI" 110+67.55, 64.84' LT Sawcut & remove extg. pvmt., curb, & sidewalk
- 2 Sta. "CI" 111+07.36, 59.68' LT to Sta. "CI" 111+40.43, 21.94' LT Sawcut & remove extg. pvmt., curb, & sidewalk
- 3 Sta. "CI" 111+04.47, 22.17' RT to Sta. "CI" 111+38.47, 22.10' RT Sawcut & remove extg. pvmt., curb, & sidewalk
- 4 Sta. "CI" 110+39.72, 22.03' LT to Sta. "CI" 110+67.55, 64.84' LT Const. curb & gutter - 68.8 ft. (See Clack. Co. dwg. no. S150) Match existing.
- 5 Sta. "CI" 111+07.36, 59.68' LT to Sta. "CI" 111+40.43, 21.94' LT Const. curb & gutter - 69.9 ft. (See Clack. Co. dwg. no. S150) Const. P.C. conc. sidewalk - 361.36 sq. ft. (see Clack. Co. dwg. no. S960) Match existing
- 6 Sta. "CI" 111+04.47, 22.17' RT to Sta. "CI" 111+38.47, 22.10' RT Const. curb & gutter - 34.0 ft. (See Clack. Co. dwg. no. S150) Const. P.C. conc. sidewalk - 210.7 sq. ft. (see Clack. Co. dwg. no. S960) match existing.
- 7 Const. curb ramp, parallel - 4 ea. (For details, see shts. BC01, BC02 and BC03) (See ODOT dwg. nos. RD755, RD758, & RD759)
- 8 Const. Type "A" non-mountable conc. island with median island crossing. (For details, see sht. BC02) (See ODOT dwg. nos. RD705 & RD710)
- 9 Const. full depth ACP
- 10 Adjust water valve box to grade - 2 ea.
- 11 Inst. RRFB (see sht no. MC02). Salvage existing RRFB to City
- 12 Inst. bark mulch, 4" depth
- 13 Const. gutter transition (For details, see sht. BB02)
- 14 Const. standard curb (For details, see shts. BC01 & BC02) (See Clack. Co. dwg. no. S100)
- 15 Sta. "CI" 110+34.73, 22.03' LT to Sta. "CI" 110+67.55, 64.84' LT Const. P.C. conc. sidewalk - 375.8 sq. ft. (see Clack. Co. dwg. no. S960) Match existing.
- 16 Inst. permanent seeding over 4" topsoil
- 17 Trim hedge to back of walk
- 18 Protect shrub
- 19 Sawcut and remove extg. pavement
- 20 See Sht. C00.1, Note 1 Sawcut & remove extg. pvmt., curb, & sidewalk
- 21 See Sht. C00.1, Note 2 Const. curb and gutter Const. P.C. conc. sidewalk
- 22 Const. variable depth grind & 2" inlay Sta. "CI" 111+28.60, 21.91' LT to Sta. "CI" 115+42.50, 22.00' LT Sawcut & remove extg. pvmt., curb, & sidewalk
- 23 Sta. "CI" 111+28.60, 21.91' LT to Sta. "CI" 115+42.50, 22.00' LT Const. curb & gutter - 404.8 ft. (See Clack. Co. dwg. no. S150) Const. P.C. conc. sidewalk - 2266.7 sq. ft. (see Clack. Co. dwg. no. S960) Match existing.
- 24 Sta. "CI" 111+28.60, 21.91' LT to Sta. "CI" 115+42.50, 22.00' LT Const. curb & gutter - 404.8 ft. (See Clack. Co. dwg. no. S150) Const. P.C. conc. sidewalk - 2266.7 sq. ft. (see Clack. Co. dwg. no. S960) Match existing.
- 25 Remove previously constructed sidewalk panels and re-construct to correct width.
- 26 Remove previously constructed sidewalk panels and back of walk curbing and re-construct to correct width.
- 27 Adjust manhole to grade
- 28 Protect extg. catch basin.
- 29 Protect extg. raised concrete island
- 30 Protect extg. curb and sidewalk



Scale: 1" = 40'



851 SW 6TH AVENUE, SUITE 600
 PORTLAND, OR 97204
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REVISIONS

NO.	DATE	DESCRIPTION
1	8/21/2024	Relocated RRFB, revised curb ramp design.
4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay

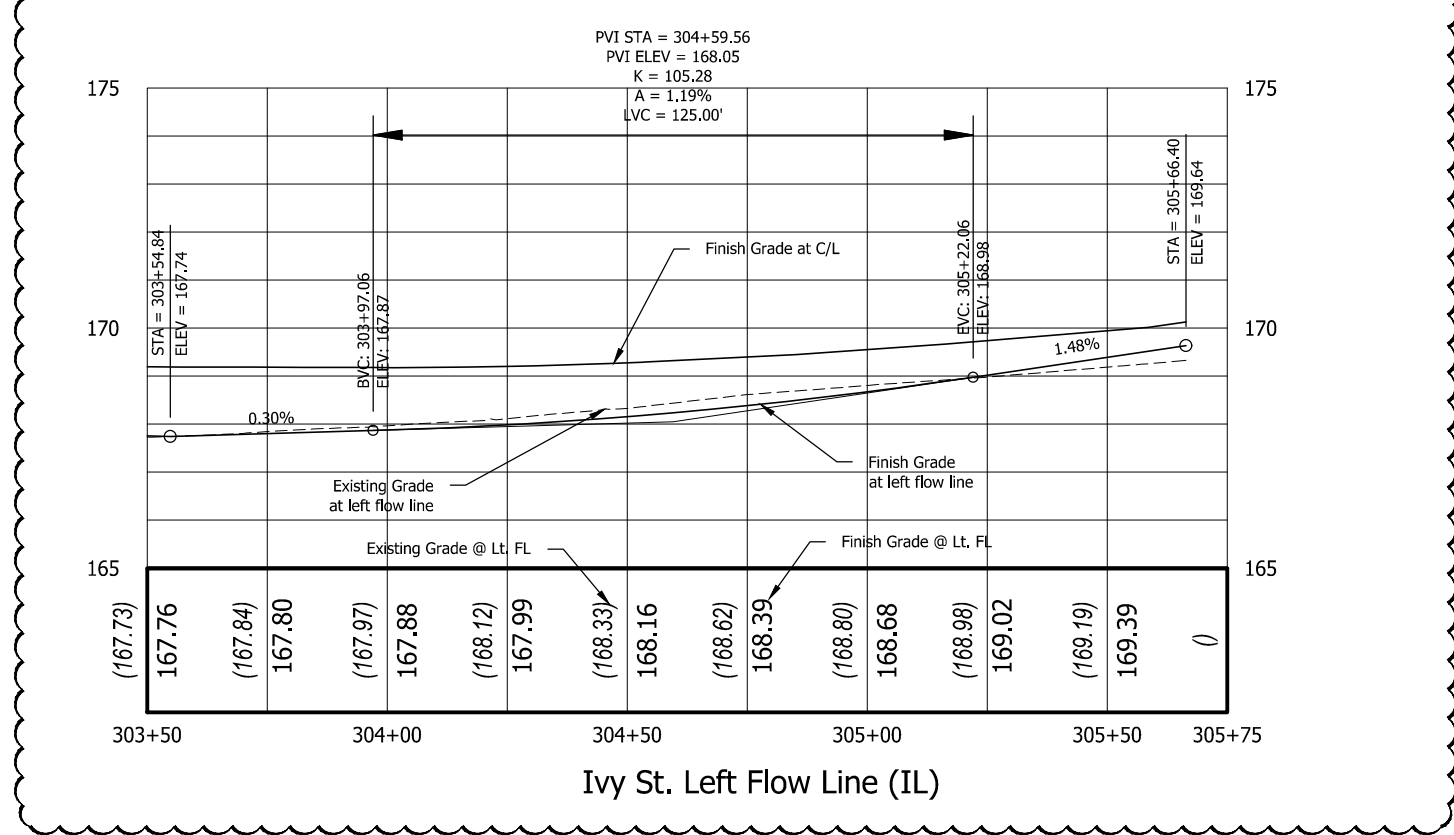
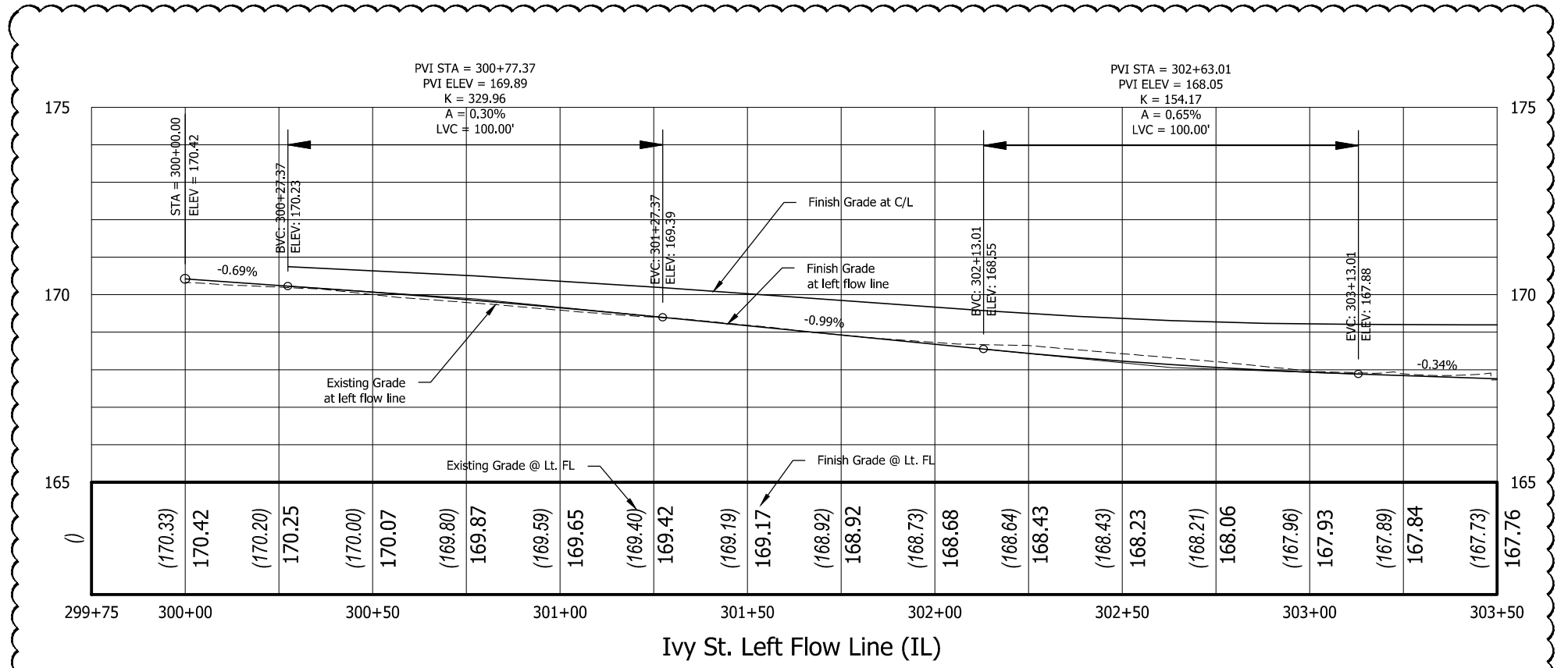
Sheet No. C01

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045

DAN JOHNSON
 DIRECTOR

DESIGNED BY: C. COX
 DRAFTED BY: D. SHADRIN
 CHECKED BY: T. ROOS

GENERAL CONSTRUCTION
 S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS
 DATE: December 2023 PROJECT NO.: CI-300317309



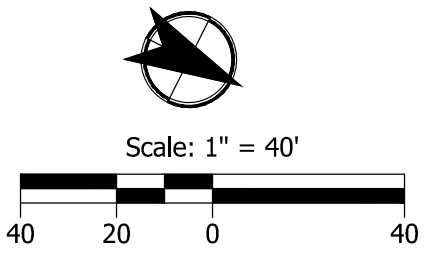
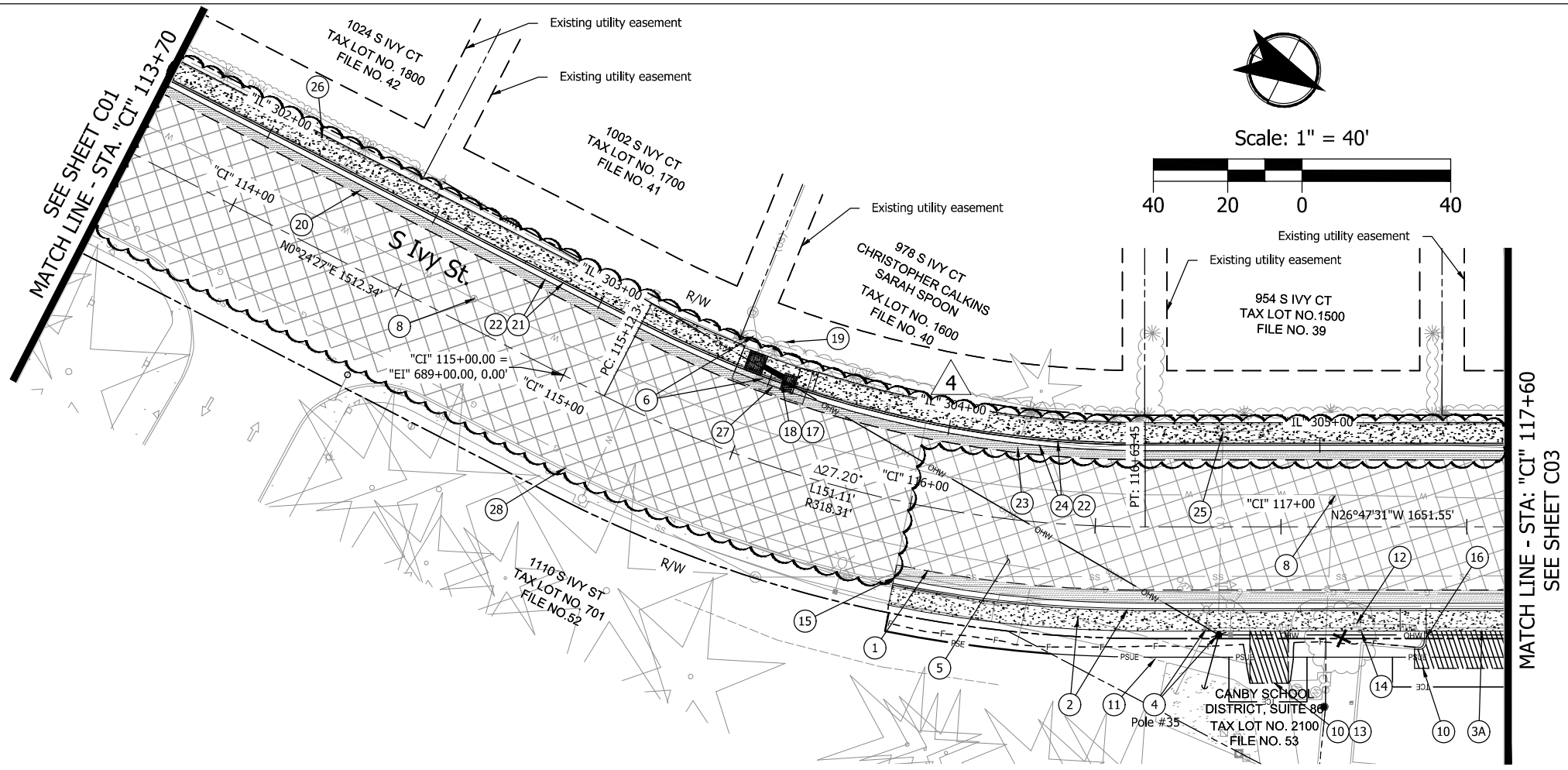
Scale: 1" = 40'

KITTELSON & ASSOCIATES
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 PORTLAND, OR 97204
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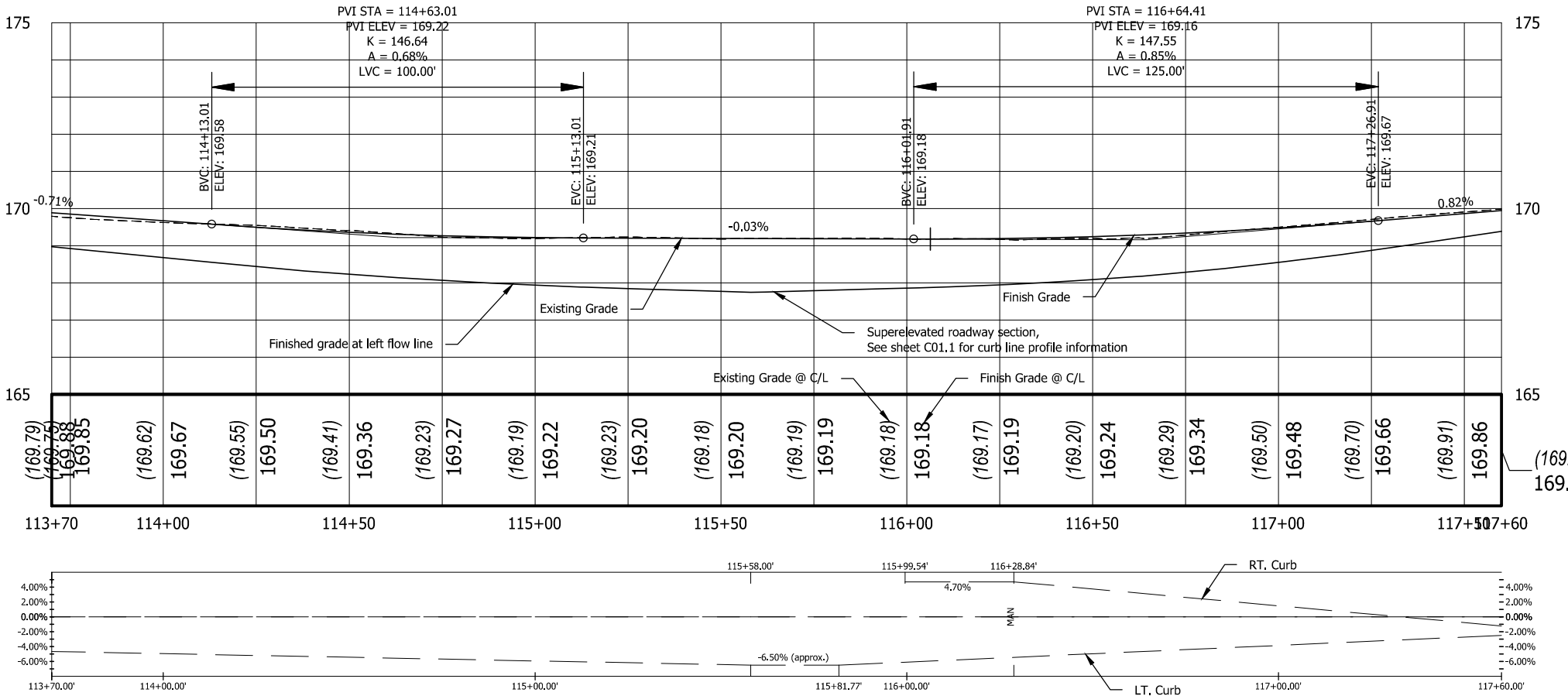
GENERAL CONSTRUCTION	
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: C. COX	DRAFTED BY: D. SHADRIN
CHECKED BY: T. ROOS	
NO. DATE:	REVISIONS
4 4/29/2025	Phase 2 sidewalk and pavement grind and inlay
Sheet No.	C01.1
DATE: December 2023	PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:47:14 PM - Dimitriyan Shadrin
 File: H:\23\23982 - Ivy Street Pedestrian Improvements\design\CD\C-PLAN & PROFILE.dwg



CONSTRUCTION NOTES

- 1 Sta. "CI" 115+99.54, 22.00' RT to Sta. "CI" 133+56.74, 72.36' RT Sawcut & remove extg. pvmt., curb, & sidewalk. Begin road improvements.
- 2 Sta. "CI" 115+99.54, 22.00' RT to Sta. "CI" 133+56.74, 72.36' RT Const. curb and gutter - 1793.8 ft. (See Clack. Co. dwg. no. S150) Const. P.C. conc. sidewalk - 6009.4 sq. ft. (see Clack. Co. dwg. no. S960) Match existing.
- 3 Const. P.C. conc. dwy apron. A - Sta. 117+32.06, 22' Rt. - Sta. 117+76.06, 22' Rt. (For details, see sht. BD01) (See Clack. Co. dwg. no. D600)
- 4 Utility to be relocated by Utility Owner
- 5 Const. variable depth grind & 2" inlay
- 6 Stormwater infrastructure (see shts. C02A - C10A)
- 8 Adjust water valve box to grade - 2 ea.
- 10 Sawcut and remove extg. pvmt. (For details, see sht. BD01)
- 11 Remove extg. asphalt walkway
- 12 Water meter to be relocated by utility
- 13 Const. AC driveway approach for pedestrian walkway - 144 sq. ft.
- 14 Private Irrigation box to be relocated by owner
- 15 Const. gutter transition (For details, see sht. BB02)
- 16 Const. standard curb - 7.5 Ft. (For details, see sht. BD01) (See Clack. Co. dwg. no. S100)
- 17 Sta. "CI" 115+42.50, 22.00 Lt. to Sta. "CI" 115.63.99, 22.00 Lt. Const. standard curb - 20.0 Ft. (See Clack. Co. dwg. no. S100) Const. P.C. conc. sidewalk - 99.0 sq. ft. (See Clack. Co. dwg. no. S960)
- 18 Sta. "CI" 115+42.50, 22.00 Lt. to Sta. "CI" 115.63.99, 22.00 Lt. Sawcut and remove extg. curb & sidewalk
- 19 Protect shrubs, trim to back of walk
- 20 See Sht. C01, Note 1 Sawcut & remove extg. pvmt., curb, & sidewalk
- 21 See Sht. C01, Note 2 Const. curb and gutter Const. P.C. conc. sidewalk Const. full depth ACP
- 22 Sta. "CI" 115+65.68, 22.00' LT to Sta. "CI" 121+69.42, 62.29' LT Sawcut & remove extg. pvmt. & curb.
- 23 Sta. "CI" 115+65.68, 22.00' LT to Sta. "CI" 121+55.60, 23.00' LT Const. curb and gutter - 645.6 ft. (See Clack. Co. dwg. no. S150) Const. Thickened Edge P.C. conc. sidewalk (see sht. BB02 for detail) Match existing.
- 24
- 25 Adjust rim to grade (minor) - 1 ea.
- 26 Trim hedge to back of walk
- 27 Protect previously installed curb inlet and manhole. Match sidewalk and curb line elevations as needed. Construct new gutter directly adjacent to the curb inlet and manhole with a dowled connection to the previously constructed face of curb. Confirm approach with County Inspector prior to constructing.
- 28 Protect extg. curb and sidewalk

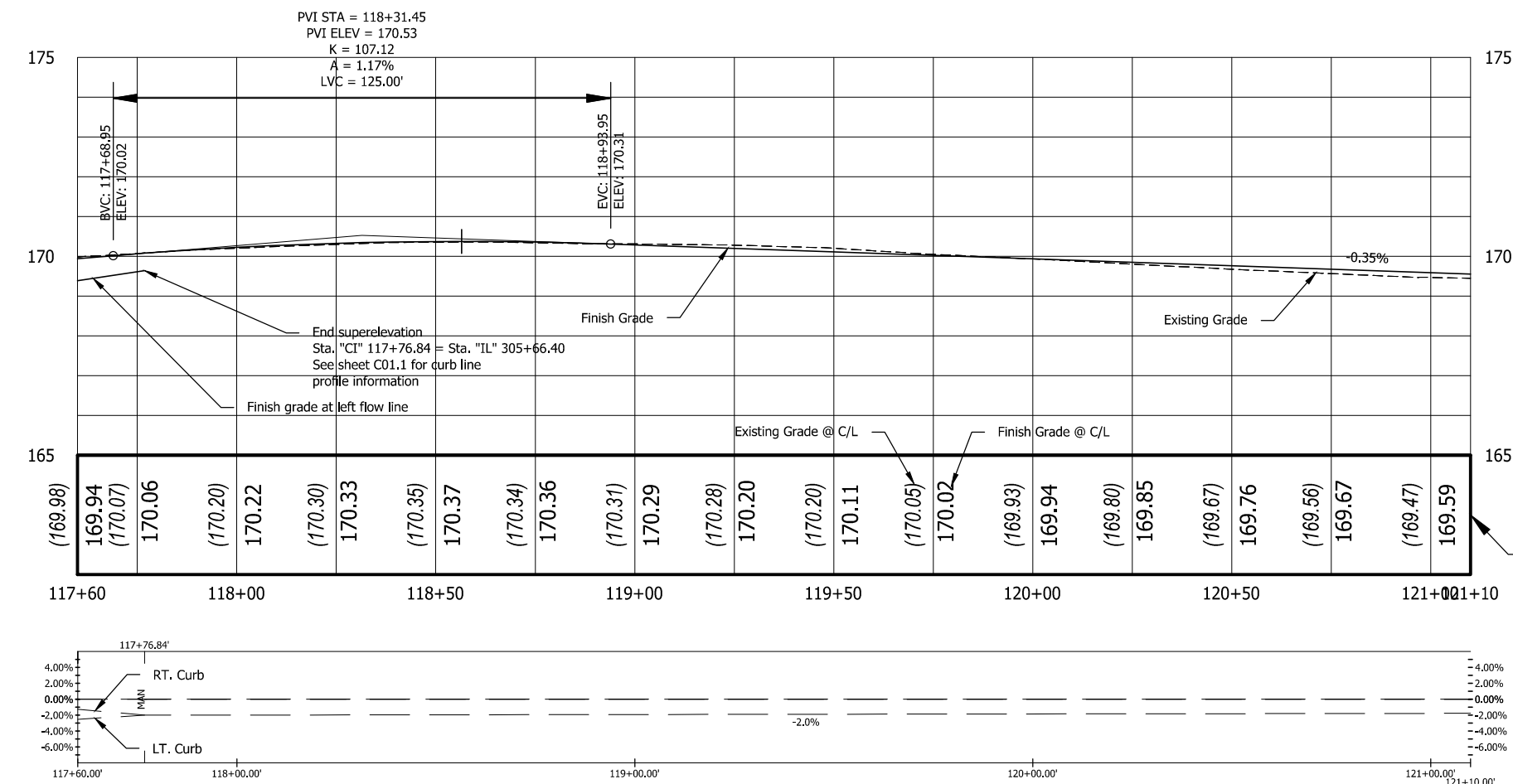
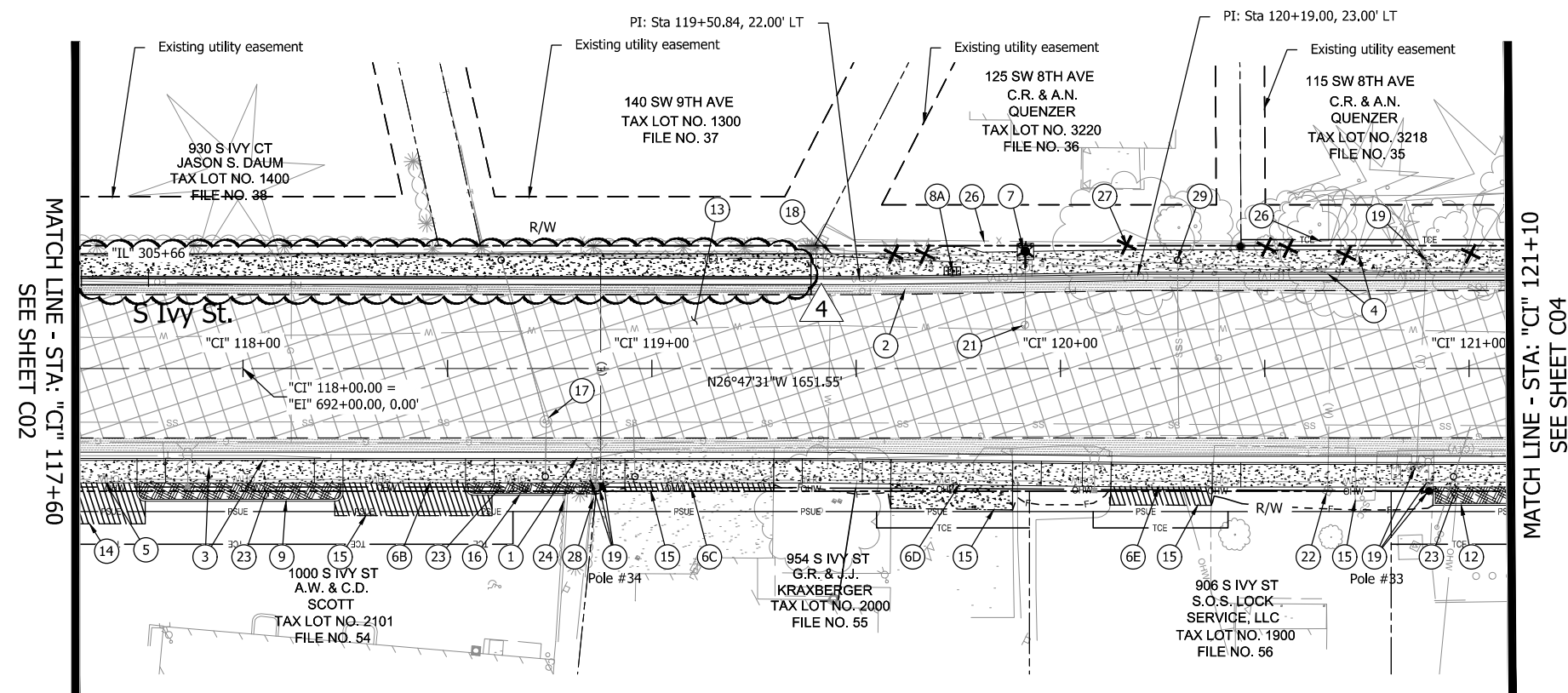


KITTELSON & ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
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 EXPIRES: 12/31/2026

GENERAL CONSTRUCTION		CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS			
DESIGNED BY:	C. COX	NO. DATE:	4 /29/2025
DRAFTED BY:	D. SHADRIN		
CHECKED BY:	T. ROOS		
REVISIONS	Phase 2 sidewalk and pavement grind and inlay		
Sheet No.		C02	

DATE: December 2023 PROJECT NO.: CI-300317309

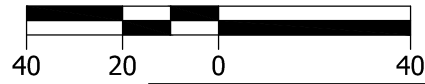


CONSTRUCTION NOTES

- 1 See Sht. C02, Note 1
Sawcut & remove extg. pvmt., curb, & sidewalk
- 2 See Sht. C02, Note 23
Sawcut & remove extg. pvmt., curb, & sidewalk
- 3 See Sht. C02, Note 2
Const. curb and gutter
Const. P.C. conc. sidewalk
- 4 See Sht. C02, Note 24
Const. curb and gutter
Const. P.C. conc. sidewalk
- 5 See Sht. C02, Note 3
Const. P.C. conc. dwy.
- 6 Const. P.C. conc. dwy. apron
B - Sta. "CI" 118+17.41, 22.00' Rt. - Sta. "CI" 118+61.41, 22.00' Rt.
C - Sta. "CI" 118+86.42, 22.00' Rt. - Sta. "CI" 119+36.84, 22.00' Rt.
D - Sta. "CI" 119+51.58, 22.24' Rt. - Sta. "CI" 119+95.34, 22.62' Rt.
E - Sta. "CI" 120+05.47, 22.92' Rt. - Sta. "CI" 120+44.17, 23.00' Rt.
(For details, see sht. BD01) (See Clack. Co. dwg. no. D600)
- 7 Sta. "CI" 119+91.44, 28.63' LT
Fire hydrant to be relocated by utility, back of sidewalk elev. =170.01'
(See Canby Utility dwg. no. 001)
- 8 Const. conc. collar & install multiple mailbox support - 1 ea.
A - Sta. "CI" 119+73.58, 23.83' LT
(See ODOT dwg. nos. RD100 & RD101)
- 9 Sta. "CI" 117+69.06, 28.00' RT to
Sta. "CI" 118+24.41, 28.00' RT
Const. standard curb - 62.6 ft. (See Clack. Co. dwg. no. S100)
- 10 Sta. "CI" 120+91.24, 29' RT to
Sta. "CI" 121+31.13, 29.00' RT
Const. standard curb - 48.0 ft. (See Clack. Co. dwg. no. S100)
- 11 Const. variable depth grind & 2" inlay
See Sht. C02, Note 11
- 12 Sawcut & remove extg. pvmt.
- 13 Sawcut and remove extg. pvmt
- 14 Sta. "CI" 118+54.41, 28.00' RT to
Sta. "CI" 118+78.82, 30.55' RT
Const. standard curb - 26.6 ft. (See Clack. Co. dwg. no. S100)
- 15 Adjust rim to grade (minor) - 1 ea.
- 16 Protect Electrical Vault.
- 17 Utility to be relocated by Utility Owner.
- 18 Adjust water valve to grade - 1 ea.
- 19 Adjust water meter to grade - 1 ea.
- 20 Install Bark Mulch, 4" depth
- 21 Protect shrub
- 22 Note not used
- 23 Protect fence
- 24 Remove invasive tree, apply foliar herbicide per specification 00320.41
- 25 Remove fence to perm. easement, reinstall extg. post at back of easement and reattach remaining fence
- 26 Adjust cleanout lid to grade.



Scale: 1" = 40'

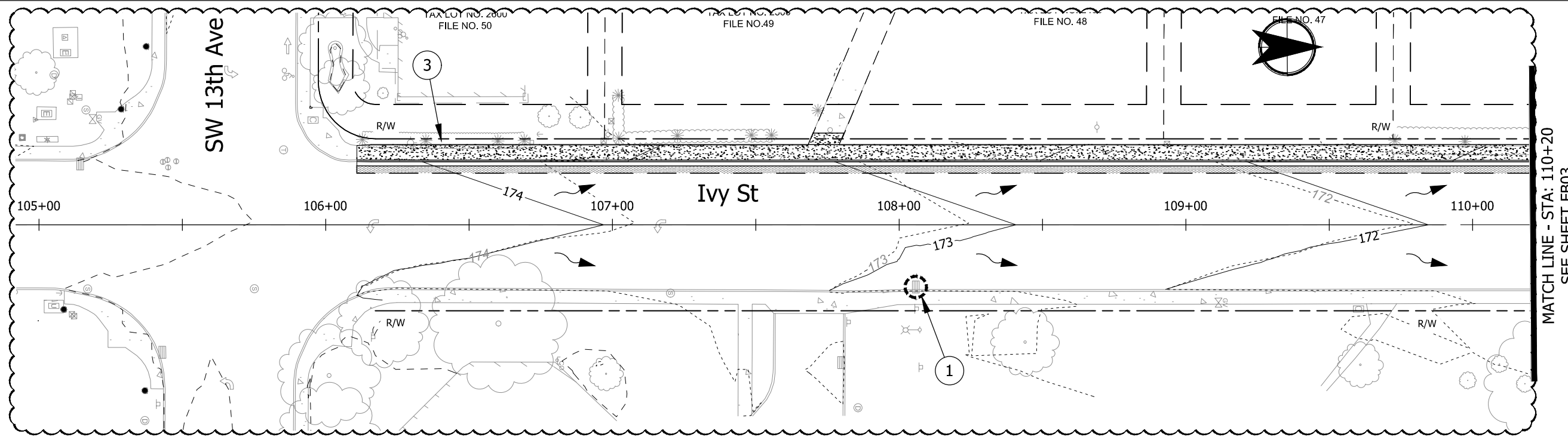


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GENERAL CONSTRUCTION	
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON
DESIGNED BY: C. COX	DRAFTED BY: D. SHADRIN
CHECKED BY: T. ROOS	NO. DATE: 4 4/29/2025
Phase 2 sidewalk and pavement grind and inlay	
REVISIONS	
Sheet No. C03	

Plot Stamp: 5/26/2025 12:48:18 PM - Dimitriyan Shadrin
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MATCH LINE - STA: 110+20
 SEE SHEET FB03

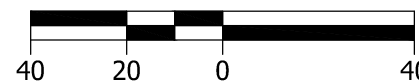
LEGEND

XX	XX	Sediment Fence		Inlet Protection
---	---	Existing ROW Line		Concrete Washout Facility
---	---	Proposed ROW Line		Trees to Remain
- - - 250	- - - 250	Existing Major Contours		Trees to Removed
- - - 249	- - - 249	Existing Minor Contours		
— 250	— 250	Proposed Major Contours		
— 249	— 249	Proposed Minor Contours		
		Flow Arrow		
		Extg./Proposed MH		
		Extg./Proposed CB		

CONSTRUCTION NOTES

- ① Install Inlet Protection.
(For Details, See Sht. FB07)
- ② Install Sediment Fence.
(For Details, See Sht. FB08)
- ③ Area of Seed Restoration

Scale: 1" = 40'



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 OREGON
 JUL. 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

GRADING & EROSION CONTROL

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045



DAN JOHNSON
 DIRECTOR

DESIGNED BY:
C. COX

DRAFTED BY:
D. SHADRIN

CHECKED BY:
T. ROOS

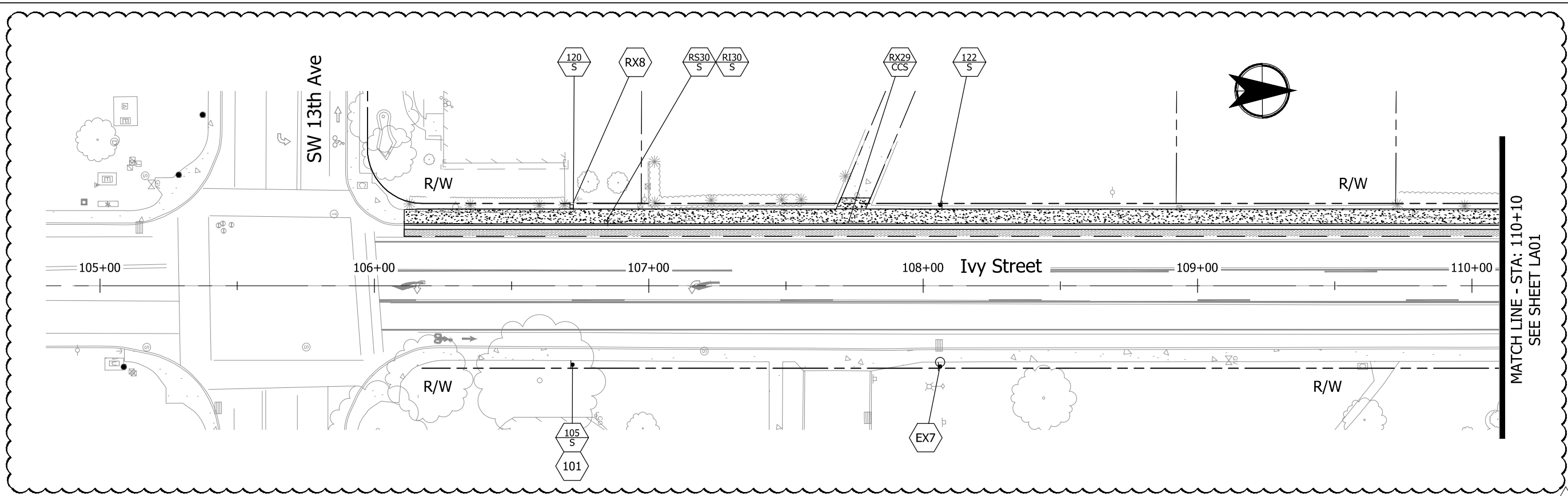
REVISIONS

NO.	DATE	DESCRIPTION
4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay









Sheet No.
FB02.1

DATE: December 2023 PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:48:38 PM - Dmitryan Shadrin
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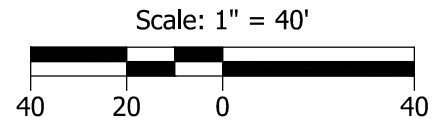
SIGNING LEGEND

-  INSTALL NEW SIGN (N).
-  INSTALL NEW SIGN (N) ON NEW (M) SIGN SUPPORT.
-  RETAIN AND PROTECT EXISTING SIGN (N) AND SUPPORT.
-  REMOVE EXISTING SIGN (N) AND (M) SIGN SUPPORT.
-  REMOVE EXISTING SIGN (N) FROM EXISTING SIGN SUPPORT.
-  REINSTALL EXISTING SIGN (N) ON NEW (M) SIGN SUPPORT.
-  REMOVE AND SALVAGE EXISTING SIGN (N) AND REMOVE (M) SIGN SUPPORT.
-  INSTALL RRFB (SEE SIGNAL PLAN).

N = SIGN NUMBER
 M = MATERIAL OPTIONS ARE:
 S = PERFORATED STEEL SQUARE TUBE SIGN SUPPORT (SEE ODOT STD. DWG. TM687, 2" OPTIONAL ANCHOR DETAIL)
 CCS = CROSSWALK CLOSURE SUPPORT (SEE DETAIL ON SHT. LB05)

SIGNING GENERAL NOTES

1. ALL SIGNING SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) 2009 EDITION, AND THE OREGON SUPPLEMENT TO THE M.U.T.C.D.
2. THE LOCATIONS OF SIGN INSTALLATIONS SHOWN ARE APPROXIMATE WITH THE EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
3. EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED.
4. REFER TO CITY OF CANBY STD. DWG. NO.111 FOR LETTER HEIGHT ON STREET NAME SIGNS.
5. SIGNS LOCATED ON TRAFFIC SIGNAL POLES REFERENCE THE SIGNAL DESIGN PLANS.
6. TRAFFIC SIGN LEGEND AND MOUNTING DETAILS ARE SHOWN ON SHEETS LB01 THRU LB03.

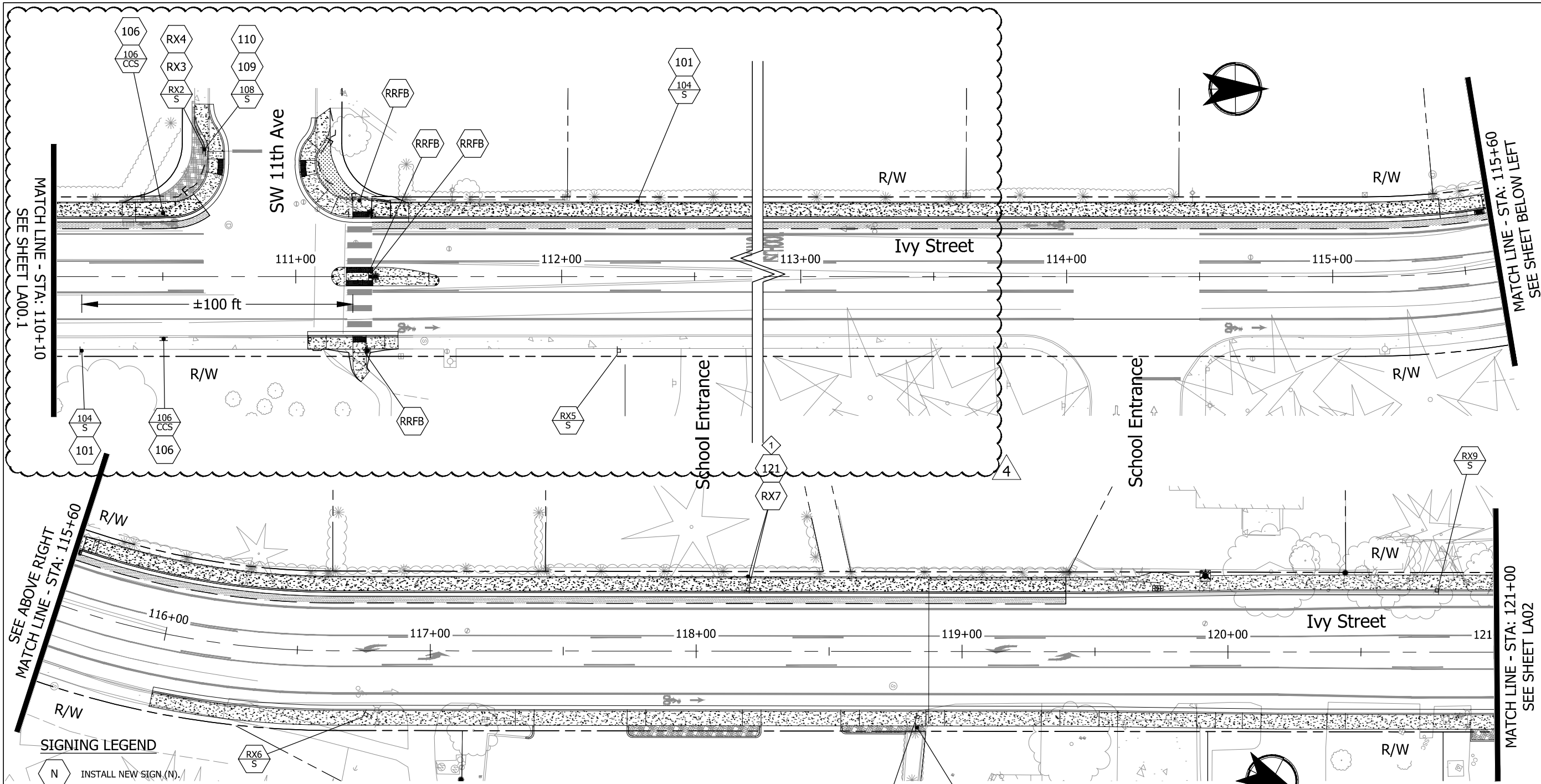


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 OREGON
 JUL 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

SIGN INSTALLATION PLAN							
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS							
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	DIRECTOR DAN JOHNSON						
DESIGNED BY: C. COX	DRAFTED BY: D. SHADRIN						
CHECKED BY: T. ROOS	PROJECT NO.: CI-300317309 DATE: December 2023						
REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4/29/2025</td> <td>Phase 2 sidewalk and pavement grind and inlay</td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay
NO.	DATE	DESCRIPTION					
4	4/29/2025	Phase 2 sidewalk and pavement grind and inlay					
Sheet No. LA00.1							

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SIGNING LEGEND

- INSTALL NEW SIGN (N).
- INSTALL NEW SIGN (N) ON NEW (M) SIGN SUPPORT.
- RETAIN AND PROTECT EXISTING SIGN (N) AND SUPPORT.
- REMOVE EXISTING SIGN (N) AND (M) SIGN SUPPORT.
- REMOVE EXISTING SIGN (N) FROM EXISTING SIGN SUPPORT.
- REINSTALL EXISTING SIGN (N) ON NEW (M) SIGN SUPPORT.
- REMOVE AND SALVAGE EXISTING SIGN (N) AND REMOVE (M) SIGN SUPPORT.
- INSTALL RRFB (SEE SIGNAL PLAN).

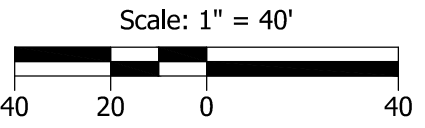
N = SIGN NUMBER
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6. TRAFFIC SIGN LEGEND AND MOUNTING DETAILS ARE SHOWN ON SHEETS LB01 THRU LB03.

CONSTRUCTION NOTES

- SALVAGE EXISTING SIGN POST, BEACON, AND SOLAR PANEL. REINSTALL IN PROPOSED LOCATION WITH NEW SIGN.



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 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

SIGN INSTALLATION PLAN

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045

DAN JOHNSON
 DIRECTOR

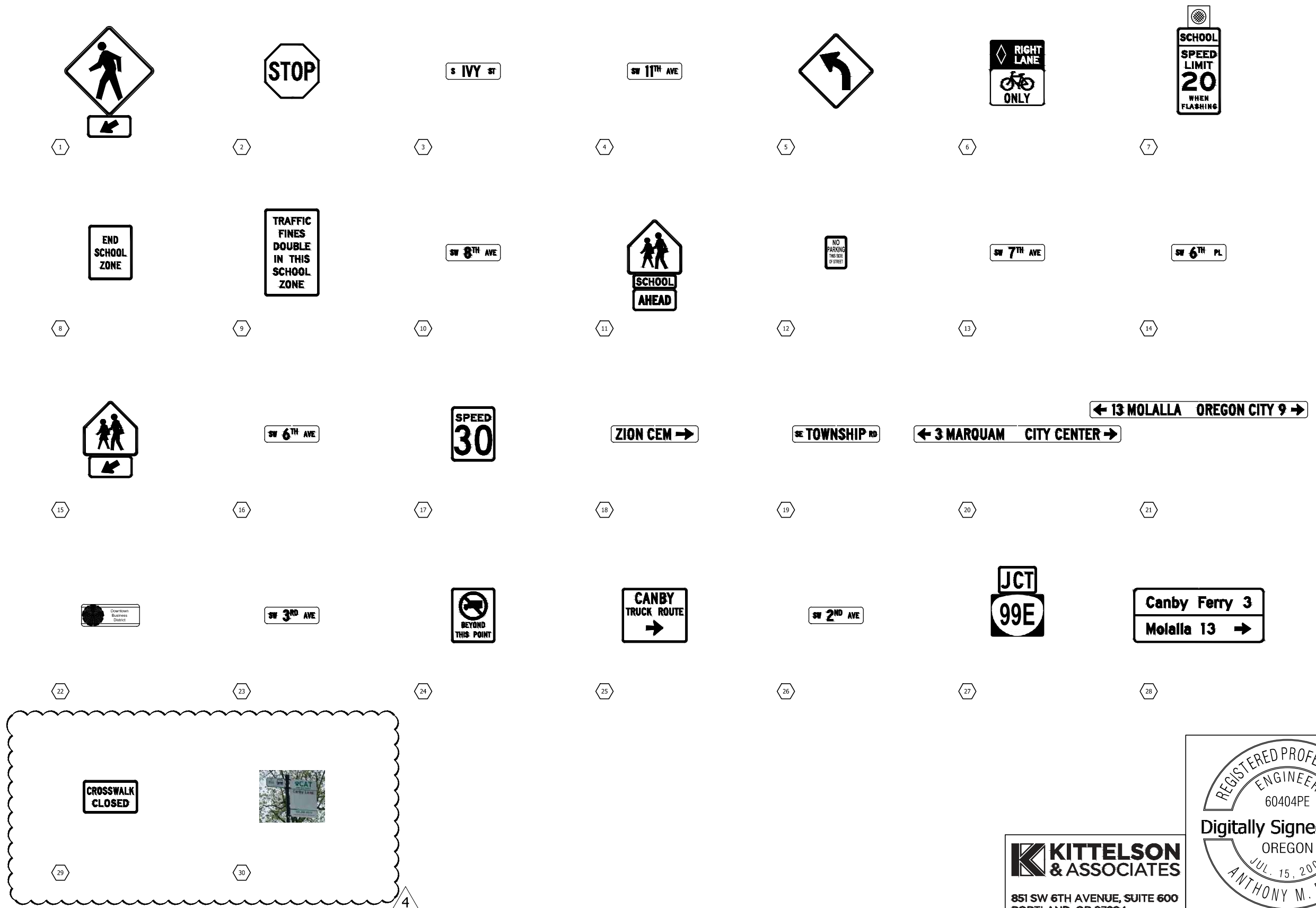
DESIGNED BY: C. COX
 DRAFTED BY: D. SHADRIN
 CHECKED BY: T. ROOS

NO. DATE: 4 4/29/2025
 Phase 2 sidewalk and pavement grind and inlay

Sheet No. LA01

DATE: December 2023 PROJECT NO.: CI-300317309

EXISTING SIGNS

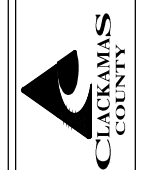


SIGN DETAILS

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

DATE: December 2023 PROJECT NO.: CI-300317309

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION AND DEVELOPMENT
150 BEAVERCREEK ROAD
OREGON CITY, OR 97045



DIRECTOR
DAN JOHNSON

DESIGNED BY: C. COX
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REVISIONS

NO.	DATE	DESCRIPTION
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








Sheet No. LB01

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LEGEND

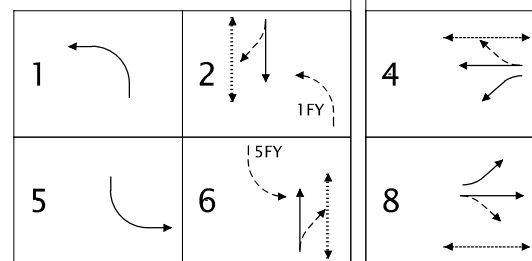
-  Retain and protect (S=size) inch existing detector conduit.
-  Install phase (Ph=phase) 6' round vehicle detector loop
-  Install phase (Ph=phase) 2 1/2' diamond bicycle detector loop
-  Install 6" max. sand pocket block-out with (S=size) inch conduit to junction box
-  Install (N=number) pair of loop wires
-  Retain and protect existing wires
-  Install 17"x10"x12" (min. dimension) precast concrete or hybrid junction box
-  Retain and protect existing junction box
-  Retain and protect existing controller and cabinet
-  Remove existing junction box
-  Abandon existing vehicle detector loop

CONSTRUCTION NOTES

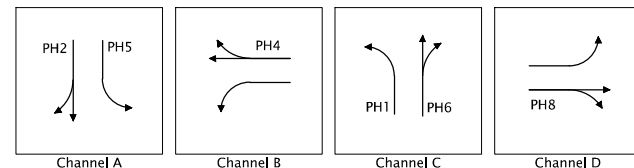
- ① Splice new loop wires to existing loop feeder cables in junction box.

GENERAL NOTES:

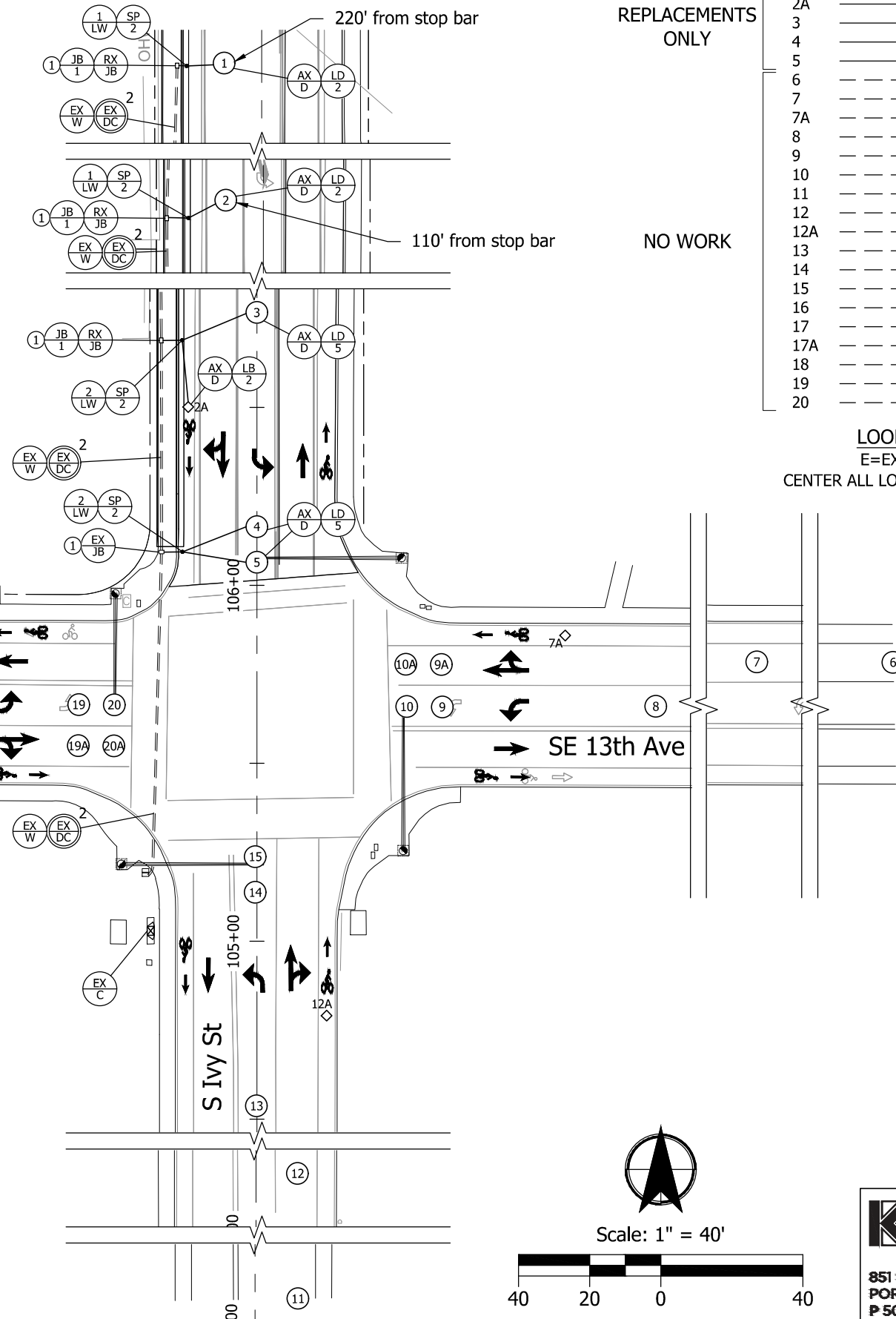
- 1. See this sheet for legend.
- 2. Field verify all measurement.



NORMAL PHASE ROTATION



FIRE PREEMPTION



Scale: 1" = 40'



LOOP NO.	JBOX	PHASE	FUNCTION	SLOT	COUNT
1		2	E,C	I2U	COUNT
2	S	2	E,C	I2L	COUNT
2A					
3		5	E,C	J1	COUNT
4	S	5	E,C,CO	J9U	COUNT
5		4	E,C	I6U	COUNT
6		4	E,C	I6L	COUNT
7	S	7	E,C	J5	COUNT
7A					
8		7	E,C	J5	COUNT
9	S	7	E,C,CO	J9L	COUNT
10		6	E,C	J2U	COUNT
11		6	E,C	J2L	COUNT
12	S	6	E,C	J2L	COUNT
12A					
13		1	E,C	I1	COUNT
14	S	1	E,C,CO	I9U	COUNT
15		8	E,C	J6U	COUNT
16		8	E,C	J6L	COUNT
17	S	3	E,C	I5	COUNT
17A					
18		3	E,C	I5	COUNT
19	S	3	E,C,CO	I9L	COUNT
20					

LOOP REPLACEMENTS ONLY

NO WORK

LOOP DETECTOR WIRING DIAGRAM

E=EXTENSION, C=CALL, CO=CARRYOVER
CENTER ALL LOOPS IN TRAVEL LANES OR AS SHOWN ON PLAN

Existing Controller Cabinet (No Work)

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EXPIRES: 12/31/2026

DETECTOR PLAN

S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS

CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION AND DEVELOPMENT
150 BEAVERCREEK ROAD
OREGON CITY, OR 97045

DIRECTOR
DAN JOHNSON

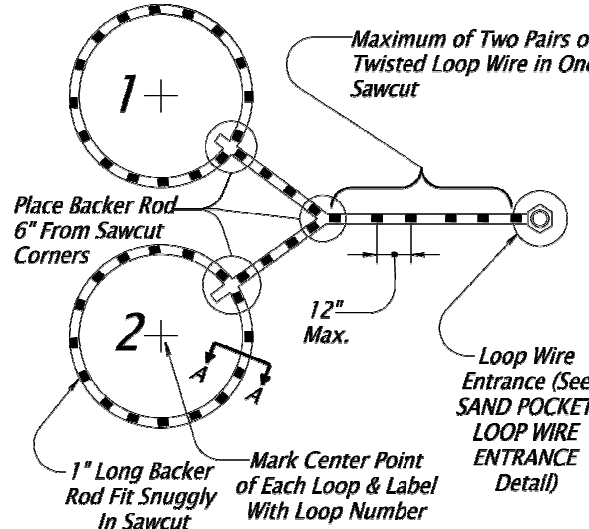
DESIGNED BY: S.PARKS
DRAFTED BY: S.PARKS
CHECKED BY: W.SCARBROUGH

NO. DATE: 4 4/29/2025
Phase 2 sidewalk and pavement grind and inlay

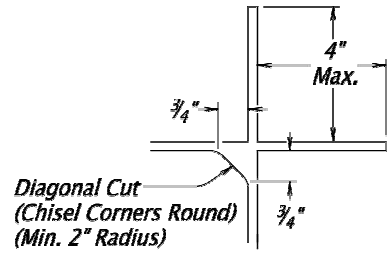
REVISIONS

Sheet No. MD01

DATE: December 2023 PROJECT NO.: CI-300317309

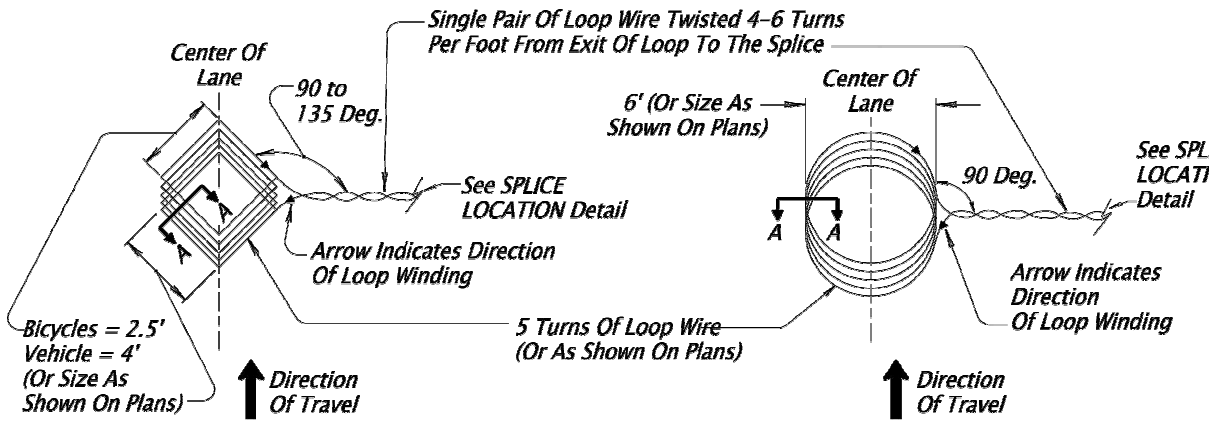


SAWCUT & BACKER ROD LAYOUT

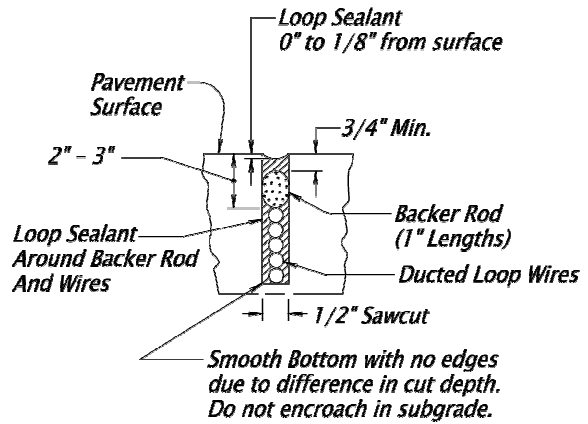


SAWCUT CHISEL DETAIL

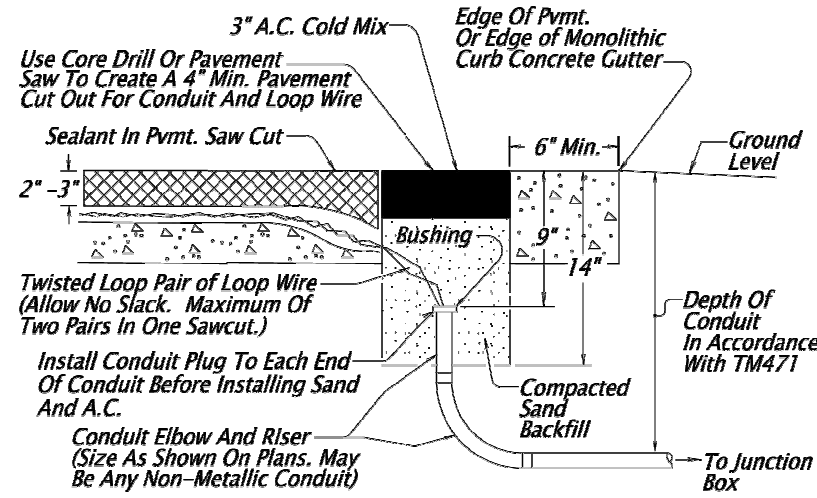
- General Notes:**
1. Install Round Or Diamond Loops As Shown On The Plans
 2. Limit Angle Of All Sawcuts With Loop Wire To 90 Degrees Minimum And Use Sawcut Chisel Detail To Avoid Kinking The Wire.
 3. Sawcuts Shall Not Create Islands Of Pavement Less Than 2.5 Ft² In Area.
 4. Mark Loop Number On All Exposed Locations Of Loop Wire And Loop Feeder Cable With Permanent Tags. Use Hand-Held Labeler (Brady Idxpert With XC-1500-580-WT-BK Tags, Or Approved Equal).
 5. At Existing Installations, Re-Wire And Re-Number New And Existing Detector Loops And Loop Feeders Cables, In Junction Boxes And Cabinet, To Match Wiring Diagram. Remove Any Existing Labels That Do Not Match The Wiring Diagram.



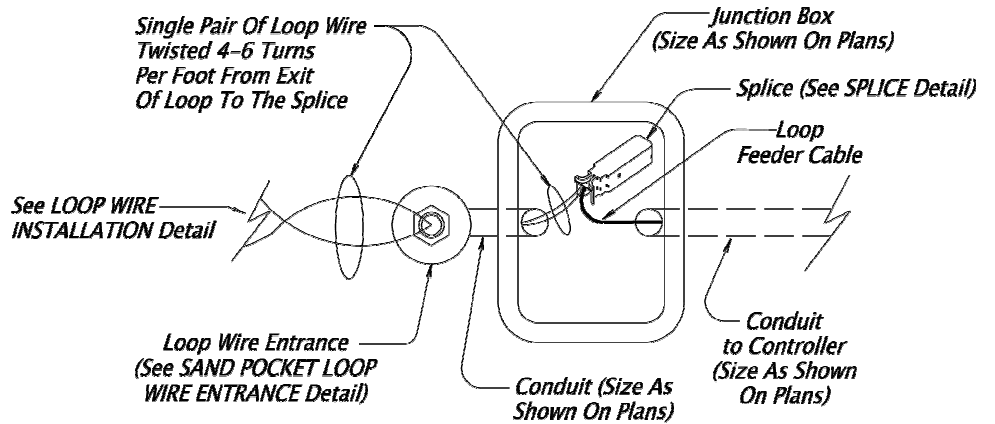
DIAMOND LOOP **ROUND LOOP**
LOOP WIRE INSTALLATION



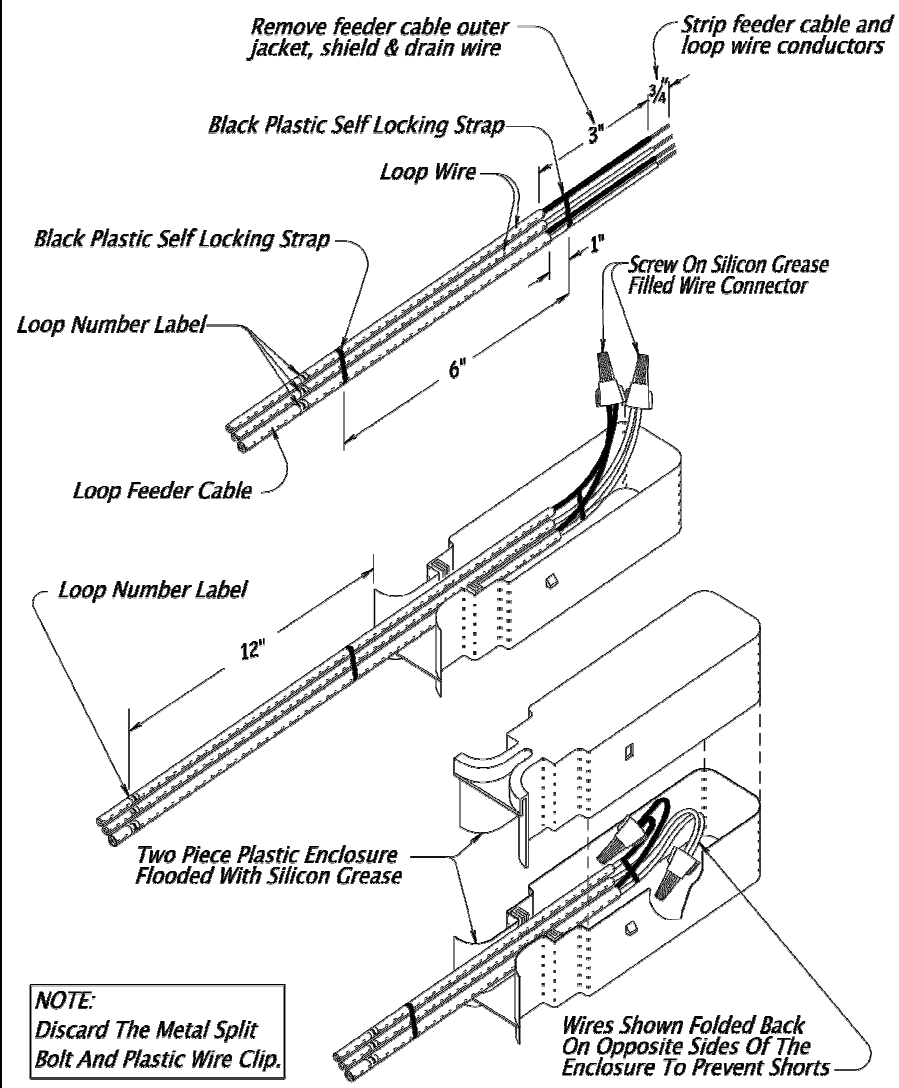
SECTION A - A:
LOOP SAWCUT CROSS SECTION



SAND POCKET LOOP WIRE ENTRANCE



SPlice LOCATION



SPlice

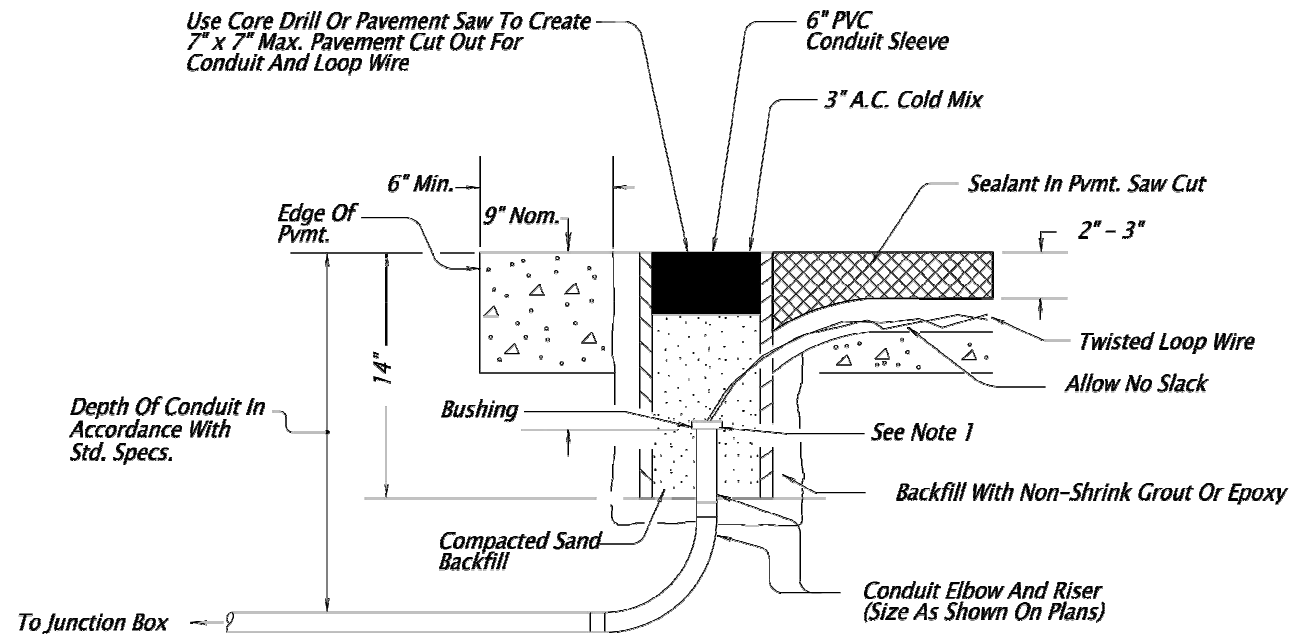
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REGISTERED PROFESSIONAL ENGINEER
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EXPIRES: 12/31/2026

DETECTOR DETAILS
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CLACKAMAS COUNTY
DEPT. OF TRANSPORTATION AND DEVELOPMENT
150 BEAVERCREEK ROAD
OREGON CITY, OR 97045
DAN JOHNSON
DIRECTOR

DESIGNED BY:	S.PARKS
DRAFTED BY:	S.PARKS
CHECKED BY:	W.SCARBROUGH
NO. DATE:	4 4/29/2025
REVISIONS	Phase 2 sidewalk and pavement grind and inlay
Sheet No.	MD02

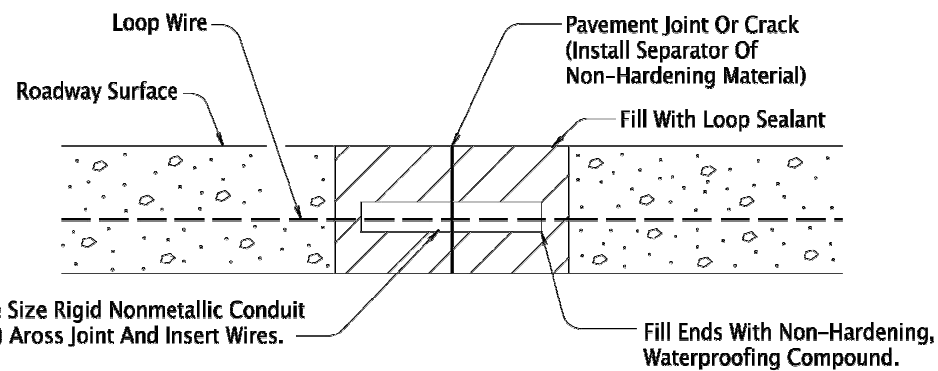
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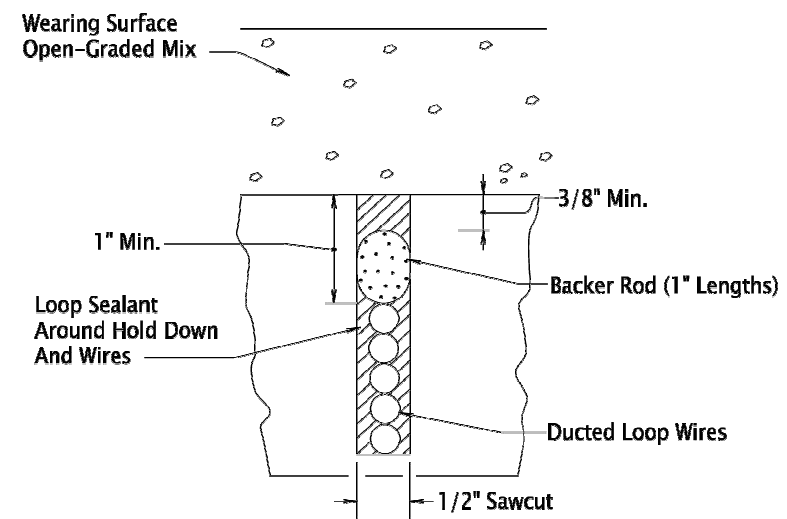
NOTES:

- 1.) Install Conduit Plug To Each End Of Conduit Before Installing Sand And A.C.
- 2.) Elbows And Risers For Conduit Back Into The First Junction Box May Be Any Rigid Non-Metallic Conduit.
- 3.) Uncurbed Sections As Shown Above.
- 4.) On Monolithic Curbs, Locate Loop Entrance In Pavement 6" From Edge Of Concrete Gutter.
(Notes 1 And 2 Apply To Curbed And Uncurbed Installations).

PVC SLEEVE LOOP WIRE ENTRANCE



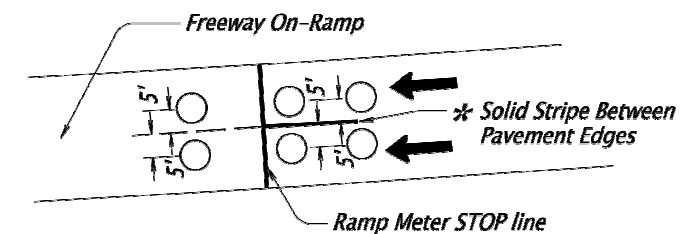
PAVEMENT JOINT AND CRACK CROSSING DETAIL



SAWCUT CROSS SECTION

**LOOP WIRE INSTALLATION IN BASE LIFT
(OR AFTER GRINDING). PRIOR TO PLACEMENT
OF OPEN-GRADED MIX FOR WEARING SURFACE.**
(If Placed On Open-Graded Mix, Install 5/8" Deeper And Leave Loop Sealant Down 1/2" - 5/8" From AC Surface. DO NOT Totally Fill Saw Slot.)

★ See Standard Drawing TM503, Ramp Meter Stop Bar Detail (S-RM).
Stop Bars and Lane Lines Shown On This Drawing Are For Graphical Reference Only.



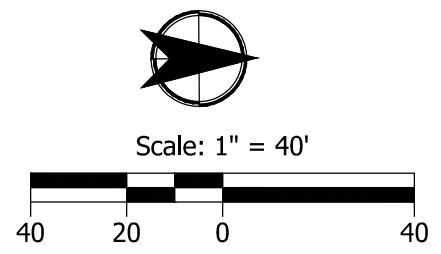
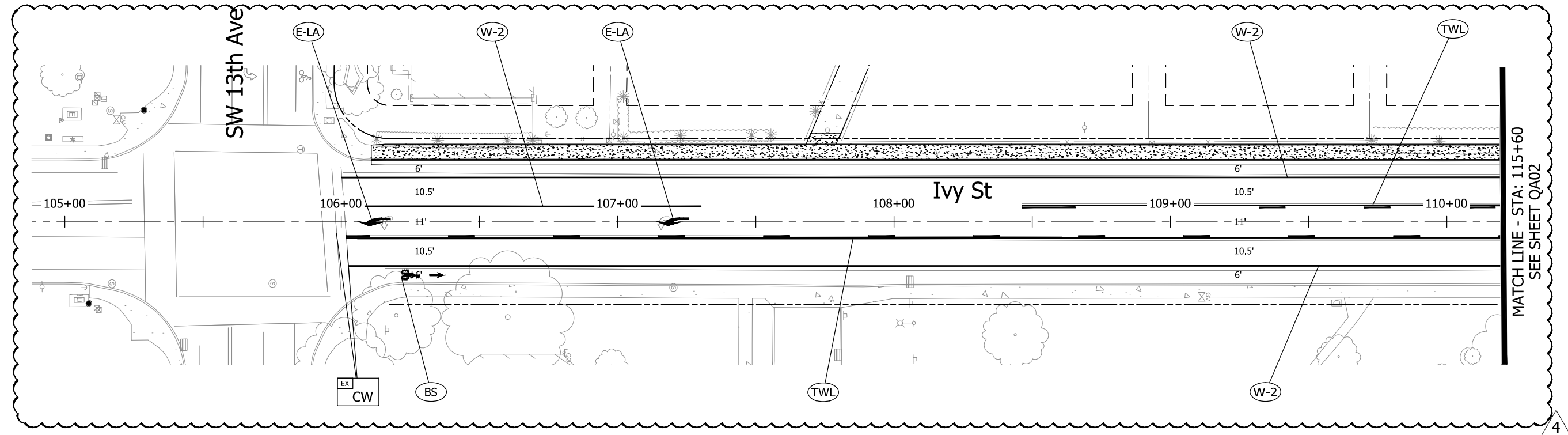
**LOOP DETECTION LATERAL PLACEMENT
FOR TWO-LANE RAMP METER**

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REGISTERED PROFESSIONAL
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ANTHONY M. ROOS
EXPIRES: 12/31/2026

DETECTOR DETAILS	
CLACKAMAS COUNTY DEPT. OF TRANSPORTATION AND DEVELOPMENT 150 BEAVERCREEK ROAD OREGON CITY, OR 97045	
S IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS	
DESIGNED BY: S.PARKS	DIRECTOR DAN JOHNSON
DRAFTED BY: S.PARKS	
CHECKED BY: W.SCARBROUGH	
NO. DATE:	REVISIONS
4 4/29/2025	Phase 2 sidewalk and pavement grind and inlay
Sheet No.	MD03

Plot Stamp: 5/26/2025 12:50:43 PM • Dmitryan Shadrin
 File: H:\23\23982 - Ivy Street Pedestrian Improvements\design\CD\Q-PAVEMENT MARKINGS.dwg



KITTELSON & ASSOCIATES
 851 SW 6TH AVENUE, SUITE 600
 PORTLAND, OR 97204
 P 503.228.5230 F 503.273.8169

REGISTERED PROFESSIONAL
 ENGINEER
 60404PE
 Digitally Signed 2025.05.28
 OREGON
 JUL. 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

DESIGNED BY:
 C. COX
 DRAFTED BY:
 D. SHADRIN
 CHECKED BY:
 T. ROOS

REVISIONS	
NO. DATE:	Phase 2 sidewalk and pavement grind and inlay
4	4/29/2025

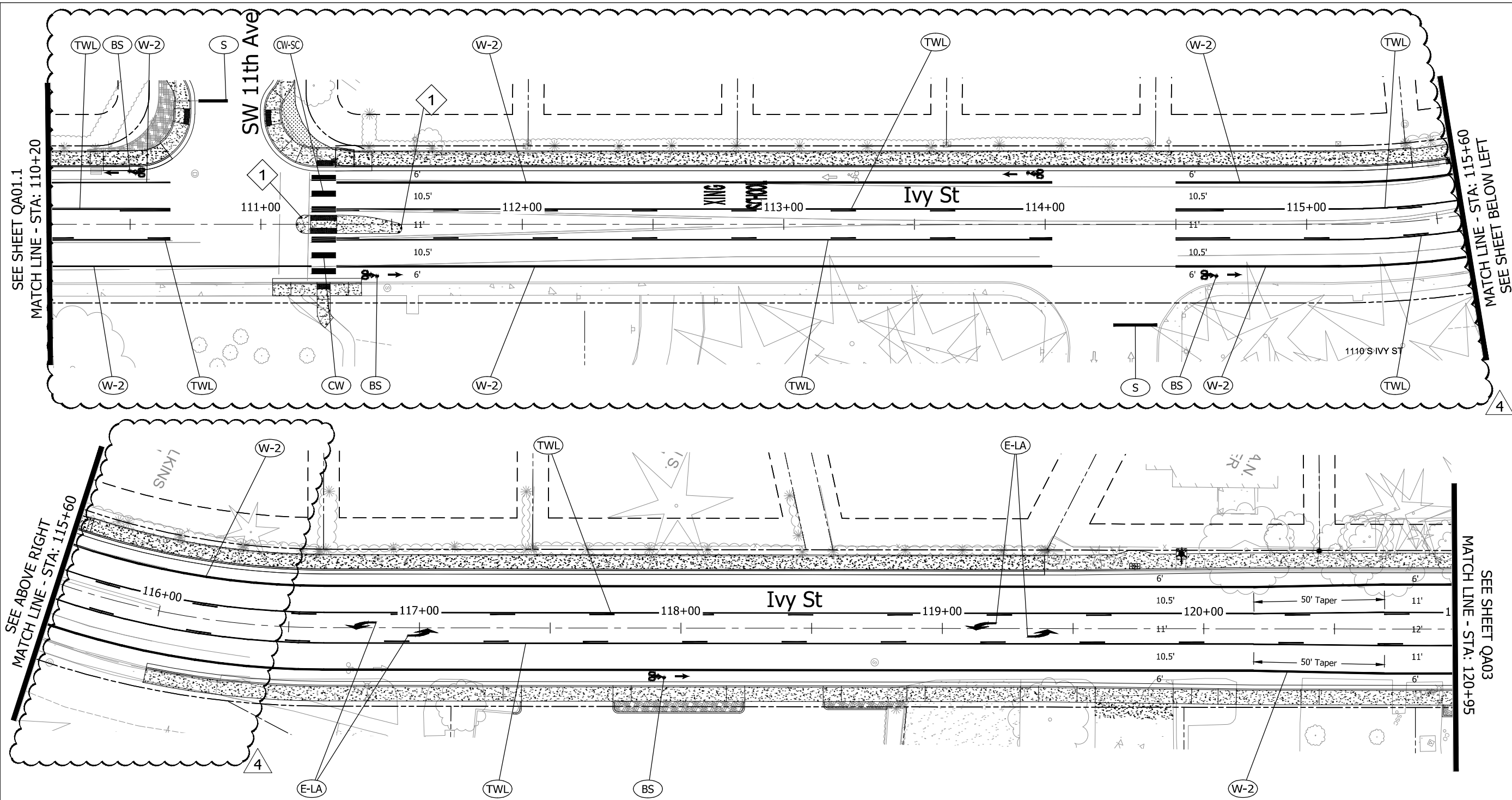
Sheet No.
 QA01.1

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION
 AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045

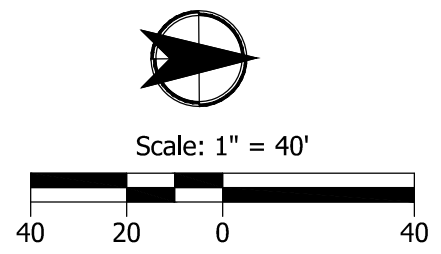
DAN JOHNSON
 DIRECTOR

PAVEMENT MARKINGS
**S IVY ST PEDESTRIAN
 INTERSECTION IMPROVEMENTS**
 DATE: December 2023 PROJECT NO.: CI-300317309

Plot Stamp: 5/26/2025 12:58:16 PM • Dmitryan Shadrin
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1 INSTALL RAISED YELLOW PAVEMENT MARKERS ON ISLAND NOSE AT 1 FOOT SPACING.



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 Digitally Signed 2025.05.28
 OREGON
 JUL 15, 2003
 ANTHONY M. ROOS
 EXPIRES: 12/31/2026

SEE SHEET QA01.1
 MATCH LINE - STA: 110+20

MATCH LINE - STA: 115+60
 SEE SHEET BELOW LEFT

SEE ABOVE RIGHT
 MATCH LINE - STA: 115+60

SEE SHEET QA03
 MATCH LINE - STA: 120+95

PAVEMENT MARKINGS
SW 11th Ave
IVY ST PEDESTRIAN INTERSECTION IMPROVEMENTS
 DATE: December 2023 PROJECT NO.: CI-300317309

CLACKAMAS COUNTY
 DEPT. OF TRANSPORTATION AND DEVELOPMENT
 150 BEAVERCREEK ROAD
 OREGON CITY, OR 97045
DAN JOHNSON
 DIRECTOR

DESIGNED BY: C. COX
 DRAFTED BY: D. SHADRIN
 CHECKED BY: T. ROOS

REVISIONS	
NO. DATE:	Phase 2 sidewalk and pavement grind and inlay
4	4/29/2025

Sheet No. **QA02**