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The City of Happy Valley offers certain solicitation documents, including Invitations to Bid and Requests for Proposal, online for downloading. The City requires each prospective bidder/ proposer downloading these documents to follow the specific requirements detailed below. If a potential bidder or proposer does not comply with these requirements the bidder/proposer risks the possibility of not receiving a complete solicitation packet and may be deemed a non-responsive bidder.

Please note the solicitation available for download is the original document released to the public. All prospective bidders/or proposers are responsible for downloading any and all addendums or amendments listed along with the solicitation packet on the City's website. Once a potential bidder or proposer has completed, signed, and returned to the City the attached "RETURN RECEIPT" form, the City will automatically forward any and all subsequent addendums, amendments, or other documents relevant to the solicitation.

### **Disclaimer**

*The recipient of any downloaded documents from this website shall be responsible for completing and returning to the City of Happy Valley's Engineering Division, the attached "RETURN RECEIPT" form. It is imperative that it is returned as soon as possible. By doing so, the recipient will allow the City of Happy Valley to send any additional documentation, including addendums, amendments, and other information, which may be issued relative to a particular document. The City takes no responsibility for informing recipients of changes to original documents if the attached "RETURN RECEIPT" form has not been sent to the Engineering Division representative listed on the form. The recipient shall be responsible for the accuracy of the information on the form submitted.*

*Any unidentified modifications to the original document issued by the City shall be null and void. In those instances where modifications are unidentified, the original document issued by the City of Happy Valley shall take precedence. The recipient of any downloaded documents is responsible for clearly identifying any and all changes or modifications to document upon submission to the City.*



16000 SE Misty Drive  
Happy Valley, OR 97086  
503.783.3800 phone

**ACKNOWLEDGEMENT OF RECEIPT  
RETURN RECEIPT FORM**

Project Title: 129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

Street Address

City and State

Zip

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Email: \_\_\_\_\_

I would like to receive any subsequent addenda via email.

I have read and thoroughly understand the disclaimer, instructions, and all other conditions related to downloading solicitation documents from the City of Happy Valley's web page.

I hereby attest that this information, to the best of my knowledge, is valid and correct.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Next Step: When you have completed this form, please send it to the following email:

**Email:** [plans-engineering@happyvalleyor.gov](mailto:plans-engineering@happyvalleyor.gov)



**BID BOOKLET & CONTRACT DOCUMENTS**

FOR THE

**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT  
CIP-07-24**

HAPPY VALLEY, OREGON

**ODOT CLASSIFICATION:**

EARTHWORK AND DRAINAGE AND MISCELLANEOUS HIGHWAY APPURTENANCES

**MAY 2024**

ENGINEERING DIVISION  
HAPPY VALLEY CITY HALL  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OREGON 97086  
PHONE: (503) 783-3800

## **SCHEDULE OF BID & CONTRACT AWARD**

INVITATION TO BID PUBLICATION  
(WITH PLAN SET & SPECIFICATIONS)

**Friday, May 3, 2024**

LAST DATE TO PROTEST SPECIFICATIONS  
(7 DAYS PRIOR TO BID OPENING)

**Thursday, May 16, 2024  
at 4:00 PM**

BID OPENING

**Thursday, May 23, 2024  
at 2:00 PM**

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM DUE

**Thursday, May 23, 2024  
at 4:00 PM**

NOTICE OF INTENT TO AWARD

**WITHIN FOURTEEN (14) DAYS OF  
DATE OF BID OPENING**

LAST DATE TO PROTEST AWARD

**SEVEN (7) DAYS AFTER NOTICE OF  
INTENT TO AWARD**



**Location:** 16000 SE Misty Drive  
Happy Valley, OR 97086

**Telephone:** (503) 783-3800

**Fax:** (503) 658-5174

**Website:** [Happyvalleyor.gov](http://Happyvalleyor.gov)

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**INVITATION TO BID**

## **INVITATION TO BID**

Notice is hereby given that the City of Happy Valley will open sealed bids from qualified contractors for the

### **129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)**

**ODOT CLASS OF WORK:** EARTHWORK AND DRAINAGE AND MISCELLANEOUS HIGHWAY APPURTENANCES

**PUBLIC BID OPENING..... Thursday, May 23, 2024 at 2:00 PM**

**FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM DUE..... Thursday, May 23, 2024 at 4:00 PM**

No bids will be received or considered if submitted electronically or after the time of closing.

The Work to be done under this Contract includes, but is not inclusive of the following 129<sup>th</sup> Avenue & King Road Roundabout Project (CIP-07-24) in the City of Happy Valley:

1. Construct a new roundabout at the intersection of King Road and SE 129<sup>th</sup> Avenue. Work includes curbs, sidewalks, driveway, truck aprons, grading, paving, storm improvements, landscaping, and all elements as outlined in the plan and specifications.
2. Perform additional and Incidental Work as called for by the Specifications and Plans.

Construction must be completed no later than **Friday, November 1, 2024.**

The City has the ability to adjust the project schedule due to state mandates.

Project and bid documents are available on the City's website

<https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements>

Sealed bids are to be sent to **Sally Curran, P.E., City Engineer**, and may not be submitted by electronic means. All bids received by the date and time of Public Bid Opening will be opened at the City Hall address at the designated date and time noted above.

This public works contract is subject to State of Oregon prevailing rates of wage requirements, per **ORS 279C.800** through **279C.870**. The City will not receive or consider bids unless the bid contains a statement by the bidder that the bidder will comply with **ORS 279C.830**.

Bidders must be qualified in accordance with the applicable parts of **ORS279C** in order to enter into a contract with the City. No bid shall be considered unless the bidder is registered with the Oregon Construction Contractors. Bidder shall also identify whether bidder is a current resident, as defined in **ORS 279A.120**.

The City of Happy Valley may reject any and all bids that do not comply with prescribed public

bidding and contracting procedures and requirements, including the requirement to demonstrate the bidder's responsibility under **ORC 279C.375(3)(b)**, Award and Execution of Contract, and that the City of Happy Valley may reject for good cause any and all bids after finding that doing so is in the public interest.

**CITY OF HAPPY VALLEY**

*Economic & Community Development Department*

*Engineering Division*

Sally Curran, P.E.

City Engineer

NOTICE IS DATED **May 3, 2024**, and published as of this date on:

- City of Happy Valley website:  
<https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements>
- Daily Journal of Commerce, Oregon website:  
<https://djcoregon.com/>



## **CONTACT INFORMATION FOR QUESTIONS**

Questions relating to the project shall be addressed by email, certified mail or telephone:

**Sally Curran, P.E., City Engineer, 503 886.8415, ([sallyc@happyvalleyor.gov](mailto:sallyc@happyvalleyor.gov))**

**or**

**Bob Balgos, P.E., Senior Engineer, 503.886.8495, ([bbalgos@happyvalleyor.gov](mailto:bbalgos@happyvalleyor.gov))**

**By Certified Mail:**

Happy Valley City Hall  
Economic & Community Development Department  
Engineering Division  
16000 SE Misty Drive  
Happy Valley, OR 97086

**BID DOCUMENTS**

**BID PROPOSAL  
BID SCHEDULE  
FIRST-TIER SUBCONTRACTOR FORM  
BID BOND**



**BID PROPOSAL**  
**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT**  
**CIP-07-24**

Submitted by: \_\_\_\_\_

Address: \_\_\_\_\_

Date: \_\_\_\_\_, 2024      Phone number: \_\_\_\_\_

Federal Tax I.D. Number or Social Security Number: \_\_\_\_\_

The undersigned, as a bidder, declares that he has carefully examined the location of the worksites, that he has examined *Standard Specifications and Special Provisions*, and *Plans and Drawings*, and hereby proposes to furnish all materials and equipment and do all the work required to complete the project entitled **129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)** in accordance with the said *Specifications* herein for the bid prices set forth in the “*Bid Schedule*” attached hereto and forming a part of this proposal. The bidder agrees to complete the project within the contract term.

This proposal is accompanied by a certified check, cashier's check or bid bond in the amount of 10% of the total bid.

The Bidder, by his signature below, certifies that he is qualified to perform the work and hereby represents as follows:

- a) That no Councilor, officer, agency or employee of the City of Happy Valley is personally interested directly or indirectly in this contract or the compensation to be paid hereunder, and that no representation, statement or statements, oral or in writing, of the City, its Councilors, officers, agents, or employees had induced him to enter into this contract and the papers made a part hereof by its terms.
- b) That this bid is made without connection with any person, firm or corporation making a bid for the same material, and is in all respects, fair and without collusion or fraud.
- c) I, the undersigned, certify that this bid has been arrived at independently and has been submitted without any collusion designed to limit independent bidding or competition.
- d) I, the undersigned, agree to be bound by the form of agreement and all remaining contract documents, including *Standard Terms and Conditions*; *Special Conditions*; *Plans and Specifications*; and all State and Federal Provisions as applicable.

- e) I, the undersigned, agree to comply with the provisions of ORS 279C.800 through ORS 279C.870, relating to Prevailing Rates of Wage requirements, as applicable.
- f) I, the undersigned, certify that the Bidder holds current licenses that businesses or services professionals operating in this state must hold in order to undertake or perform the work specified in these contract documents.
- g) I, the undersigned, certify that the Bidder has not discriminated against minority, women, or emerging small business enterprises, or a business enterprise that is owned or controlled by or that employs a disabled veteran in obtaining subcontracts.
- h) I, the undersigned, certify that the Bidder is legally qualified to contract with the City of Happy Valley.
- i) I, the undersigned, certify that the Bidder qualifies as a carrier insured employer or a self-insured employer under ORS 656.407 or has elected coverage under ORS 656.128.
- j) I, the undersigned, certify that the Bidder is covered by liability insurance and other insurance in the amount(s) required by the solicitation.
- k) Contractor shall commence no work under this contract until the Contractor and every subcontractor has a public works bond filed with the Construction Contractors Board in accordance with ORS279C.830 and all other bonding and insurance requirements have been met and a *Notice to Proceed* has been issued.
- l) Contractor shall commence no work under this contract until all bonding and insurance requirements have been met and a *Notice to Proceed* has been issued.
- m) Upon receiving notice to proceed from the Project Manager, the Contractor shall meet with the Project Manager for a preconstruction conference at a time mutually agreed upon. At this conference, the Contractor shall furnish the Project Manager with a proposed schedule of work.
- n) In the event the Bidder is awarded the contract and shall fail to complete the work within the time frame specified, including extensions granted, liquidated damages and engineering expenses shall be paid to the City as outlined in the *Standard Specifications* for each day of delay in the completion of the work.

The Bidder further proposes to accept the following amount as full payment for the work proposed herein to complete the project and agrees that the price represents a true measure of the labor and materials required to perform the work, including all allowances for overhead and profit for each type of work called for in these Contract Documents. The total amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.

If the Bidder is awarded a Contract on this Proposal, the surety who will provide the **Performance Bond** will be:

\_\_\_\_\_, whose  
address is: \_\_\_\_\_

**Contractor shall check if in compliance:**

Drug Testing Requirement, as defined in ORS 279C.505

**Contractor shall check applicable box:**

Resident Bidder As defined in ORS 279A.120

Non-Resident Bidder Resident State: \_\_\_\_\_

**CONSTRUCTION CONTRACTOR REGISTRATION**

No bids for construction contracts shall be received or considered by the City unless the bidder is licensed with the Oregon Construction Contractors Board and, if applicable, the State Landscape Contractors Board as required by ORS 671.530. The undersigned states that the bidder is now registered with the Oregon Construction Contractors Board:

Indicate Registration Number and Expiration Date: \_\_\_\_\_

Workers' Comp Insurance Company: \_\_\_\_\_

Workers' Comp Policy/Binder Number: \_\_\_\_\_

The names of the principal officers of the corporation submitting this proposal; or of the partnership; or of all persons interested in this proposal as principals; are as follows:

\_\_\_\_\_  
Name Title

\_\_\_\_\_  
Name Title

**(If Sole Proprietor or Partnership)**

In witness hereto, the undersigned has set his (its) hand this

\_\_\_\_\_ day of \_\_\_\_\_, 2024

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Signature of Bidder

**(If Corporation)**

In witness whereof, the undersigned corporation has caused this instrument to be executed by its duly authorized officers this

\_\_\_\_\_ day of \_\_\_\_\_, 2024

\_\_\_\_\_  
Name of Corporation

\_\_\_\_\_  
By

\_\_\_\_\_  
Title

**SE 129th Ave & SE King Rd Roundabout****BID SCHEDULE**

May 1, 2024

ITEM	SPEC	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
<b>Part 00100 - General Conditions</b>						
1	00196	Extra Work as Authorized	FA	1	\$ 100,000.00	\$ 100,000.00
<b>Part 00200 - Temporary Features and Appurtenances</b>						
2	00210	Mobilization	LS	1		
3	00221	Temporary Work Zone Traffic Control, Complete	LS	1		
4	00280	Erosion Control	LS	1		
<b>Part 00400 - Drainage and Sewers</b>						
5	00310	Removal of Structures and Obstructions	LS	1		
6	00320	Clearing and Grubbing	LS	1		
7	00330	Earthwork - Excavation & Embankment	LS	1		
8	00350	12 Inch Subgrade Stabilization	SY	850		
9	00350	Subgrade Geotextile	SY	3,900		
<b>Part 00500 - Bridges and Walls</b>						
10	00445	6 Inch Storm Pipe	LF	50		
11	00445	8 Inch Storm Pipe	LF	6		
12	00445	12 Inch Storm Pipe	LF	145		
13	00445	12 Inch Storm Pipe, Ductile Iron	LF	57		
14	00445	24 Inch Storm Pipe	LF	11		
15	00446	Trench Drain	LF	25		
16	00470	Catch Basin, CG-30 Inlet	EA	2		
17	00470	Catch Basin, Type GB-2	EA	4		
18	00470	Catch Basin, Contech Stormfilter	EA	1		
19	00470	Catch Basin, Ditch Inlet	EA	2		
20	00470	Catch Basin, Lynch Style	EA	2		
21	00470	Concrete Manhole, 48" Flat Top Manhole	EA	1		
22	00470	Curb Frame and Door	EA	1		
23	00490	Minor Adjustment of Manhole	EA	5		
24	00490	Major Adjustment of Manhole	EA	10		
25	00490	Adjusting Boxes	EA	40		
26	00490	Connect to Existing Structure	EA	3		
27	00490	Storm Sewer, Outside Drop Connection to Manhole	EA	1		

**SE 129th Ave & SE King Rd Roundabout**  
**BID SCHEDULE**  
**May 1, 2024**

ITEM	SPEC	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
28	00495	Trench Resurfacing	SY	20		
<b>Part 00500 - Bridges and Walls</b>						
29	00596B	Retaining Wall A, Semental Block Wall	LS	1		
30	00596C	Retaining Wall B, Cast in Place Concrete with Fence	LS	1		
31	00596C	Retaining Wall C, Cast in Place Concrete with Fence	LS	1		
<b>Part 00600 - Bases</b>						
32	00620	Cold Plane Pavement Removal, 2.5 Inch Depth	SY	165		
33	00641	1 1/2" - 0 Aggregate Base	CY	1,000		
34	00641	3/4" - 0 Aggregate Base	CY	500		
<b>Part 00700 - Wearing Surfaces</b>						
35	00744	Level 2, 1/2 Inch Dense, ACP Mixture	TON	100		
36	00744	Level 3, 1/2 Inch Dense, ACP Mixture	TON	1,200		
37	00756	6 Inch Thick Crosswalk Concrete Surfacing	SF	225		
38	00756	6 Inch Thick Stamped Concrete Surfacing	SF	577		
39	00756	6 Inch Thick Stamped Reinforced Concrete Surfacing	SF	5,110		
40	00759	Concrete Curbs, Curb and Gutter	LF	1,635		
41	00759	Concrete Curb, Standard Curb	LF	770		
42	00759	Concrete Curbs, Low Profile Mountable Curb	LF	920		
43	00759	Concrete Driveway, Commercial	SF	1,255		
44	00759	Concrete Driveway, Commercial, Reinforced with Rapid Set Concrete	SF	460		
45	00759	Concrete Driveway, Residential	SF	275		
46	00759	Concrete Walks	SF	12,145		
47	00759	Extra for Curb Ramps	EA	7		
48	00759	Truncated Domes on New Surfaces	SF	250		
<b>Part 00800 - Permanent Traffic Safety and Guidance Devices</b>						
49	00855	Bi-Directional Yellow Type 1 Markers	EA	12		
50	00860	Longitudinal Pavement Markings, Paint	FOOT	300		
51	00865	Thermoplastic, Extruded, Surface, Non-Profiled	FOOT	4,500		
52	00867	Pavement Bar, Type B-HS	SQFT	400		
53	00867	Pavement Legend, Type B-HS: Yield Line Triangle	EACH	12		



**SE 129th Ave & SE King Rd Roundabout**  
**BID SCHEDULE**  
 May 1, 2024

ITEM	SPEC	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
54	00867	Pavement Legend, Type B-HS: Disabled Parking	EACH	2		
<b>Part 00900 - Permanent Traffic Control and Illumination Systems</b>						
55	00905	Remove Existing Signs	LS	1		
56	00905	Remove and Reinstall Existing Signs	LS	1		
57	00930	Perforated Steel Square Tube Anchor Sign Supports	LS	1		
58	00940	Signs, Standard Sheeting, Sheet Aluminum	SQFT	200		
59	00970	Pole Foundations	Each	3		
<b>Part 01000 - Right of Way Development and Control</b>						
60	01030	Permanent Seeding	AC	0.25		
61	01040	Top Soil	CY	300.00		
62	01040	Bark Mulch	CY	70.00		
63	01040	Root Barrier	LF	930.00		
64	01040	Deciduous Trees, 2 Inch Caliper	EA	15.00		
65	01040	Shrubs, #5 Container	EA	195.00		
66	01040	Shrubs, #2 Container	EA	47.00		
67	01040	Shrubs, #1 Container	EA	83.00		
68	01040	Groundcover, #1 Container	EA	1,048.00		
69	01065	Monument Boxes	EA	6		
70	01069	Metal Handrail	LF	161		
71	01075	Private Property Improvements, Property 1	LS	1		
75	01075	Private Property Improvements, Community Police Sign Relocation	LS	1		
72	01075	Private Property Improvements, Property 3	LS	1		
73	01075	Private Property Improvements, Property 3 Alternative Paving	LS	1		
74	01075	Private Property Improvements, Property 4	LS	1		
75	01075	Private Property Improvements, Community Police Sign Relocation	LS	1		

**Total BID** \_\_\_\_\_

**Total Bid in words** \_\_\_\_\_

**Printed Name/Company** \_\_\_\_\_

**Signature** \_\_\_\_\_

# **129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)**

## **BIDDER'S CHECKLIST**

### **Due at Bid Opening**

- Signed Bid Schedule
- Indication of Resident/Non-Resident Bidder in Bid Proposal
- Bid Bond
- Signed Addendum(s)

### **Due Two (2) Working Hours After Bid Closing Time**

- First Tier Subcontractors Form



## FIRST-TIER SUB-CONTRACTOR DISCLOSURE FORM

**PROJECT NAME:** 129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)

**BID OPENING:**                      **Date:** Thursday, May 23, 2024                      **Time:** 2:00 PM

**Failure to submit this form by the disclosure deadline will result in a non-responsive bid. A non-responsive bid will not be considered for award.**

**INSTRUCTIONS: [ORS 279C.370]**

This form **MUST** be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within **two (2) working hours after the advertised bid closing time.**

Unless otherwise stated in the solicitation, this document shall not be submitted by facsimile or e-mail. It is the responsibility of bidders to submit this disclosure form and any additional sheets with the project name clearly marked, at the location indicated by the specified disclosure deadline.

Subcontractor lists may be submitted with the bid in the same envelope at the bid closing date and time. Those subcontractor lists submitted after the bid closing shall be delivered in a separate sealed envelope that clearly identifies the contents.

List below the name of each sub-contractor that will be furnishing labor or will be furnishing labor and materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the sub-contract.

**Enter "NONE" if the value of the project bid is less than \$100,000 or there are no subcontractors that need to be disclosed.**

SUBCONTRACTOR NAME	DOLLAR VALUE	CATEGORY OF WORK
(1)	\$	
(2)	\$	
(3)	\$	
(4)	\$	
(5)	\$	
(6)	\$	

The above listed first-tier subcontractor(s) are providing labor, or labor and material, with a Dollar

Value equal to or greater than:

- a) 5% of the total Contract Price, but at least \$15,000. [If the Dollar Value is less than \$15,000 do not list the subcontractor above.] **OR**
  
- b) \$350,000 regardless of the percentage of the total Contract Price.

**Form Submitted By (Bidder):** \_\_\_\_\_

**Bidder Signature:** \_\_\_\_\_

**Contact Name:** \_\_\_\_\_ **Phone No.:** \_\_\_\_\_

**ORS 279C.370 First-tier subcontractor disclosure.**

- (1) (a) Within two working hours after the date and time of the deadline when bids are due to a contracting agency for a public improvement contract, a bidder shall submit to the contracting agency a disclosure of the first-tier subcontractors that:
  - (A) Will be furnishing labor or will be furnishing labor and materials in connection with the public improvement contract; and
  - (B) Will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater, or \$350,000 regardless of the percentage of the total project bid.
  - (b) For each contract to which this subsection applies, the contracting agency shall designate a deadline for submission of bids that has a date on a Tuesday, Wednesday or Thursday and a time between 2 p.m. and 5 p.m., except that this paragraph does not apply to public contracts for maintenance or construction of highways, bridges or other transportation facilities.
  - (c) This subsection applies only to public improvement contracts with a value, estimated by the contracting agency, of more than \$100,000.
  - (d) This subsection does not apply to public improvement contracts that have been exempted from competitive bidding requirements under ORS 279C.335 (Competitive bidding) (2).
- (2) The disclosure of first-tier subcontractors under subsection (1) of this section must include the name of each subcontractor, the category of work that each subcontractor will perform and the dollar value of each subcontract. The information shall be disclosed in substantially the following [above] form:
- (3) A contracting agency shall accept the subcontractor disclosure. The contracting agency shall consider the bid of any contractor that does not submit a subcontractor disclosure to the contracting agency to be a nonresponsive bid and may not award the contract to the contractor. A contracting agency is not required to determine the accuracy or the completeness of the subcontractor disclosure.
- (4) After the bids are opened, the subcontractor disclosures must be made available for public inspection.
- (5) A contractor may substitute a first-tier subcontractor under the provisions of ORS 279C.585 (Authority to substitute undisclosed first-tier subcontractor).
- (6) A subcontractor may file a complaint under ORS 279C.590 (Complaint process for substitutions of subcontractors) based on the disclosure requirements of subsection (1) of this section. [2003 c.794 §116; 2005 c.103 §16]



**BID BOND**  
**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)**

KNOW ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_  
(Name of Contractor)

as Principal, hereinafter called the Principal, and \_\_\_\_\_

a corporation, duly authorized to do a general surety business in Oregon, as SURETY, and

jointly and severally held and bound unto \_\_\_\_\_  
(Name of Obligee)

as Obligee, hereinafter called the Obligee, in the sum of \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_ ), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bid ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for \_\_\_\_\_

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 2024.

Principal: \_\_\_\_\_

Surety: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**CONTRACT DOCUMENTS**

**CERTIFICATE OF INSURANCE & PREVAILING WAGE RATES (BOLI)**

**PERFORMANCE GUARANTEE**

**PAYMENT BOND**

**MAINTENANCE GUARANTEE**

**CONTRACT FOR SERVICES FORM**

## **CERTIFICATE OF INSURANCE:**

Contractor to provide Certificate of Insurance as required by **Section 00170.70** of the Special Provisions and the Contract for Services Form.

## **PREVAILING WAGE RATES (BOLI)**

This Public Works Project is subject to the applicable prevailing wage rates. If a contractor fails to pay for labor and services, the City can withhold these amounts from payments due the contractor. Prevailing Wages applicable to this project can found electronically at:

<https://www.oregon.gov/boli/employers/Pages/prevailing-wage-rates.aspx> and is titled as:

### **Current Edition of “Prevailing Wage Rates for Public Works Contracts”**

Including the following publications and amendments:

**“Definitions of Covered Occupations for Public Works Contracts in Oregon”, Current Edition.**

**All Prevailing Wage Rate Amendments Effective through the Current Prevailing Wage Publication**

**All Applicable Amendments Adopted Prior to the Date of Current Prevailing Wage Publication.**

**City of Happy Valley, Oregon**  
**PERFORMANCE GUARANTEE**

Project Title: 129th Avenue & King Road Roundabout (CIP-07-24)

Land Use/Project Number: CIP-07-24

Bond Number: \_\_\_\_\_

We, \_\_\_\_\_ as Principal (“Principal”), and \_\_\_\_\_, a corporation organized under the State of \_\_\_\_\_ and authorized to transact surety business in the State of Oregon, as Surety (“Surety”), jointly and severally bind ourselves, our respective heirs, executors, administrators, successors, and assigns unto the City of Happy Valley, Oregon (“City” and/or “Obligee”), for payment of this performance guarantee (“Guarantee”) in the amount of \_\_\_\_\_ (\$ \_\_\_\_\_) as provided herein.

An application has been received by the City for a permit to construct improvements for 129th Avenue & King Road Roundabout (CIP-07-24) (“the Project”), as described in Exhibit A. The improvements will be constructed according to and consistent with final construction plans approved by the City.

As a condition of the final approval of said improvements by City, Principal has agreed to furnish a financial guarantee to the City for the faithful performance and operability of the Project and to guarantee the work thereunder for a minimum period of twenty-four (24) months running from the last date of the City’s partial or full release of the Performance Guarantee.

If Principal fully performs its obligations consistent with the terms of the final construction plans as well as all other contractual obligations the Principal has with the City concerning the Project, Surety’s obligations under this Guarantee will then be null and void. Absent that performance by Principal, Surety’s obligations remain in full force and effect.

Surety waives any requirement to be notified of alterations or extensions of time or any other authorized modifications made by City to the Project.

If Principal fails to fully and faithfully construct or complete the work required of it for the Project, and City has declared Principal in default of its obligations, City is entitled to be paid all funds under this Guarantee upon delivery of written notice to Surety by the City that the Principal has not performed the required work on the Project .

Surety shall be obligated to and shall disburse the amount(s) of funds deemed necessary by City, which may be either a partial or the full portion of the Guarantee. Payment(s) shall be made within thirty (30) business days of receiving written demand for said funds from the City. City may make serial demands for portions of the Guarantee, up to and including the full amount of the Guarantee. In the alternative, within thirty (30) business days of receiving the City’s written demand, Surety may elect to complete the improvements at its sole cost and expense in accordance with the final construction plans approved by the City.

Surety and Principal further agree that twenty-five percent (25%) of the cost of the facilities as approved by the City Engineer or designee will remain in place to warrant to City that the construction is and will remain for a period of twenty-four (24) months from the date of acceptance, free from defects in materials and workmanship. This provision may not be applicable certain for private improvements.

Surety agrees to keep City fully advised of any change of information concerning the registered agents below. The Surety’s obligation on this guarantee is non-assignable without prior written consent from the City.



City

Principal

Surety or Attorney-in-Fact

Printed Name of Authorized City Signatory

Printed Name of Principal or Authorized Signatory

Printed Name of Authorized Surety or Attorney-in-Fact Signatory

Title

Title

Title

Signature of Authorized City Signatory

Signature of Principal or Authorized Signatory

Signature of Authorized Surety or Attorney-in-Fact Signatory

16000 SE Misty Drive

Address Line 1

Address Line 1

Address Line 1

Happy Valley, OR 97086

Address Line 2

Address Line 2

Address Line 2

Date

Date

Date

Telephone Number

Telephone Number

Email Address

Email Address

Exhibit A

Items to be covered under the performance guarantee include:

- Construction of a roundabout
- Construction of curbs, sidewalks, medians, driveways and truck aprons
- Construction of stormwater improvements
- Construction of retaining walls
- Installation of street lights
- Grading
- Paving
- Striping, pavement markers and signage
- Landscaping
- Perform additional and incidental work as called for by the specifications and plans

As described and depicted in the 129th Avenue & King Road Roundabout Project (CIP-07-24) contract documents.



**PAYMENT BOND**  
**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)**

KNOW ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_

\_\_\_\_\_

as PRINCIPAL, and \_\_\_\_\_

\_\_\_\_\_

a corporation, duly authorized to do a general surety business in Oregon, as SURETY, and jointly and severally held and bound unto

\_\_\_\_\_

the OBLIGEE herein, in the sum of \_\_\_\_\_

\_\_\_\_\_ (dollars) (\$) \_\_\_\_\_

for the payment of which we jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns, firmly by these presents:

THE CONDITION OF THIS BOND IS SUCH THAT

WHEREAS, \_\_\_\_\_

(Contractor)

the PRINCIPAL herein, on the \_\_\_\_\_ day of \_\_\_\_\_, 2024

entered into it contract with the OBLIGEE which contract documents consist of the "Invitation to Bid", the Proposal, Bid Schedule and Subcontractor Form", the "Bid Bond", the "Performance Guarantee and the Payment Bond", the "Certificate of Insurance", the "Prevailing Wage Rates for Public Contracts in Oregon" the "Standard Specifications and Special Provisions", "the Plans, Drawings and Exhibits", and the "Contract For Services Form" all as hereto attached and made a part hereof, whereby said PRINCIPAL undertakes to promptly make payment for all labor, services, material, and sums due the workmen's compensation board or equivalent, the collector of internal revenue, the unemployment compensation trust fund, and the treasurer of the State of Oregon in conformity with all laws,

state and national, applicable thereto.

NOW, THEREFORE, if said PRINCIPAL herein shall promptly pay all persons furnishing labor, services and material, and sums due for workmen's compensation insurance or equivalent, social security and unemployment compensation, sums due to the Department of Revenue, to him and to his subcontractor, or to their assigns, on or about said work then this obligation shall be void; but otherwise it shall remain in full force and effect.

PROVIDED, HOWEVER, that this bond is subject to the following conditions:

- (a)** All material men, and all persons who shall supply such laborers, mechanics, or subcontractors with material, supplies or provisions for carrying on such work, shall have a direct right of action against the PRINCIPAL and SURETY on this bond, second only to the right of the OBLIGEE under this bond, which right of action shall be asserted in proceedings instituted in the appropriate court of the State of Oregon, and insofar as permitted by the laws of Oregon, such right of action shall be asserted 'in a proceeding instituted in the name of the OBLIGEE to the use and benefit of the person, firm, or corporation instituting such action and of all other persons, firms, or corporations having claims hereunder, and any other person, firm or corporation having a claim hereunder shall have the right to be made a party to such proceeding (but not later than one year after the complete performance of said contract and final acceptance of the work in the contract) and to have such claim adjudicated in such action and judgment rendered thereon.
- (b)** The said SURETY for the value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.
- (c)** The PRINCIPAL herein shall faithfully and truly observe and comply with the terms of the contract and shall promptly make payments to all persons supplying labor or material for any prosecution of the work provided for in such contract and shall not permit any lien or claim to be filed or prosecution against the OBLIGEES, on account of any labor or material furnished, and shall promptly pay all contributions or amount due the workmen's compensation board or equivalent and all contributions or amounts due the state employment compensation trust fund incurred in the performance of said contract, and shall also pay all sums of money withheld from the employees and payable to the state tax commission pursuant to ORS 316.711, and shall do all things required of said PRINCIPAL by the laws of this state.

This bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, the parties hereto have caused this bond to be executed in \_\_\_\_\_

\_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2024

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

PRINCIPAL

WITNESSES:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

SURETY

The attorney-in-fact who executes this bond in behalf of the surety company, must attach a copy of his power-of-attorney as evidence of his authority.

To each executed original of this bond, there must be attached a complete set of the contract documents, as the term is defined in the "Standard Specifications and Special Provisions", with all corrections, interlineations, signatures, etc., completed reproduced therein.

**City of Happy Valley, Oregon**  
**MAINTENANCE GUARANTEE**

Project Title: 129th Avenue & King Road Roundabout (CIP-07-24)

Land Use/Project Number: CIP-07-24

Bond Number: \_\_\_\_\_

Expiration Date: Upon Written Release by the City

We, \_\_\_\_\_ as Principal (“Principal”) and \_\_\_\_\_, a corporation organized under the State of \_\_\_\_\_ and authorized to transact surety business in the State of Oregon, as Surety (“Surety”), hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors, and assigns unto the City of Happy Valley, Oregon, (“City”), for payment of this guarantee in the amount of \_\_\_\_\_ (\$ \_\_\_\_\_) as provided herein.

Principal constructed certain public or onsite improvements for a project known as 129th Avenue & King Road Roundabout (CIP-07-24) (“Project”) which improvements were constructed consistent with final construction plans approved by the City. As a condition of City’s approval of said Project, Principal agreed to warrant that the construction, as described in Exhibit A, is and will remain free from defects in materials and workmanship for a period of TWENTY-FOUR (24) months from the date of the City’s acceptance of said improvements.

If no claim on said warranty is made at the conclusion of thirty days following the warranty period, Surety’s obligations pursuant to this guarantee are null and void. Otherwise, Surety’s obligations remain in full force and effect.

Should the improvements not comport with the requirement that they be free from defects in materials and workmanship for a period of TWENTY-FOUR (24) months, and Principal has not corrected the defects within thirty (30) business days of receiving City’s notice of the defect, City is entitled to the funds payable under this guarantee upon delivery of written demand to Surety that the required warranty has not be met.

Surety shall upon receipt of the written demand be thereupon obligated to and shall disburse amount(s) of funds deemed necessary by City to complete the work. Payment to City shall be made within thirty (30) business days of having received written demand for said funds from City. Alternatively, City may request Surety use funds payable under this Guarantee to complete the maintenance of the improvements.

Surety agrees to keep the City advised of any change of information concerning the registered agents below. The Surety’s obligation on this guarantee is non-assignable without written consent from the City.

City

Principal

Surety or Attorney-in-Fact

Printed Name of Authorized City Signatory

Printed Name of Principal or Authorized Signatory

Printed Name of Authorized Surety or Attorney-in-Fact Signatory

Title

Title

Title

Signature of Authorized City Signatory

Signature of Principal or Authorized Signatory

Signature of Authorized Surety or Attorney-in-Fact Signatory

16000 SE Misty Drive

Address Line 1

Address Line 1

Address Line 1

Happy Valley, OR 97086

Address Line 2

Address Line 2

Address Line 2

Date

Date

Date

Telephone Number

Telephone Number

Email Address

Email Address

Exhibit A

Items to be covered under the maintenance guarantee include:

- New roundabout
- New curbs, sidewalks, medians, driveways and truck aprons
- New stormwater improvements
- New retaining walls
- New street lights
- New paved roundabout and roadways
- New striping, pavement markers and signage
- New landscaping
- All other construction incidental to the project

As described and depicted in the 129th Avenue & King Road Roundabout Project (CIP-07-24) contract documents.





**CONTRACT FOR SERVICES**  
**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24)**

This contract is entered into by and between the City of Happy Valley, hereinafter referred to as the “CITY”, and \_\_\_\_\_ hereinafter called the “CONTRACTOR”, to provide the services described in the Invitation to Bid for the

**129<sup>TH</sup> AVENUE & KING ROAD ROUNDABOUT (CIP-07-24) (HAPPY VALLEY, OREGON),**

hereinafter called the “PROJECT”, which by this reference is hereby made part of this contract. The following provisions shall comprise this contract:

**I. COMPENSATION**

- (1) The CITY agrees to compensate the CONTRACTOR on a fee-for-services basis as outlined in these DOCUMENTS. This agreement covers the period beginning, \_\_\_\_\_ through \_\_\_\_\_ inclusive. Work shall be performed in accordance with an approved schedule provided to the CITY by the CONTRACTOR as part of this document. Invoices submitted for payment in connection with this agreement shall be properly documented and shall indicate pertinent CITY contract and/or purchase order numbers. All invoices shall be consistent with the fee bid accepted by the CITY and shall reflect any savings or reductions provided for in the fee bid. The City will retain 5% from progress payments. The retainage will be released with the final payment after the project has been accepted as complete by the City. The compensation authorized under this contract shall be \$\_\_\_\_\_ per the Bid Schedule for **PROJECT**.
- (2) The CONTRACTOR is engaged hereby as an independent contractor and will be so deemed for purposes of the following:
  1. The CONTRACTOR will be solely responsible for payment of any Federal or State taxes required as a result of this agreement.
  2. This contract is not intended to entitle the CONTRACTOR to any benefits generally granted to CITY employees. Without limitation but by way of illustration, the benefits which are not intended to be extended by this contract to the CONTRACTOR are vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, Social Security, Workers’ Compensation, unemployment compensation, or retirement benefits (except insofar as benefits are otherwise required by law if the CONTRACTOR is presently a member of the Public Employees Retirement System).
  3. The CONTRACTOR is a sole proprietor or a partner or is an insured employer for purposes of the Oregon Workers’ Compensation law (ORS Chapter 656) and is solely liable for any Workers’ Compensation coverage under this contract. If the CONTRACTOR has the assistance of other persons in the performance of this contract, the CONTRACTOR shall qualify and remain qualified for the term of this contract as an insured employer under ORS 656.017 and ORS 656.407.

- (3) The CONTRACTOR certifies that, at present, he or she, if an individual is not a CITY, or Federal employee.
- (4) The CONTRACTOR, if an individual, certifies that he or she is not a member of the Public Employees Retirement System.

## II. SERVICES TO BE PROVIDED:

The CONTRACTOR shall provide all materials and services required for the **PROJECT**, as set forth in the *Invitation to Bid*, and the documents it references.

## III. CONTRACTOR OBLIGATIONS

- (1) This contract is expressly subject to all applicable State contracting laws and further, is expressly subject to the constitutional and charter debt limitation, and incorporates by reference all provisions required by applicable ORS Chapter 279A and ORS 279C and Oregon Administrative Rule Divisions 47 and 49 (i.e., OAR 137-049-0200(c)(A) through and including OAR 137-049-0200(c)(V) (2006). The contract is contingent upon funds being appropriated therefore.
  1. The CONTRACTOR shall comply fully with all statutory requirements for payment of prevailing wage rates on public works projects. The hourly rate of wage to be paid workers on this project shall not be less than the prevailing wage for an hour's work in the same trade or occupation in the locality of the project. This requirement shall apply to all workers employed on the project by the prime contractor, subcontractors, or other persons doing, or contracting to do the whole or any part of the work required for the project. The existing prevailing rates of wages as established by the Commissioner of the Bureau of Labor and Industries pursuant to ORS 279.359 are hereby incorporated into these Specifications. A copy of the Prevailing Wage Rates is attached to this Contract and is available on-line at the following Bureau of Labor and Industries website:  
<https://www.oregon.gov/boli/employers/Pages/prevailing-wage-rates.aspx>  
When a contractor or subcontractor is a party to a statewide collective bargaining agreement in effect with any labor organization, the rate of wages provided for in such agreement shall be considered to be the prevailing rate of wage to be paid to the workers on this project.
  2. This agreement is expressly subject to the constitutional and charter debt limitation, and is contingent upon funds being appropriated. Therefore, any provisions herein, which would conflict with law, are deemed inoperative to that extent.
  3. The CONTRACTOR shall indemnify, save harmless and defend the CITY, its officers, councilors, agents and employees from and against all claims and actions, and all expenses incidental to the investigation and defense thereof, arising out of or based upon damage or injuries to persons or property caused by the errors, omissions, fault or negligence of the CONTRACTOR or the CONTRACTOR'S employees and agents.
  4. CONTRACTOR shall comply with all applicable federal and state civil rights and rehabilitation statutes, rules, and regulations. CONTRACTOR shall maintain valid all required licenses and certificates required by law.
  5. If the CONTRACTOR fails to pay for labor and services, the CITY can pay for them and withhold those amounts from payment to the CONTRACTOR. ORS 279C.515; OAR 839-025-0020(2)(a)

6. The CONTRACTOR must pay daily, weekly and holiday overtime as required. ORS 279C.520; OAR 839-025-0020(2)(b)
  7. The CONTRACTOR must make prompt payment for all medical services for which the CONTRACTOR has agreed to pay, and for all amounts for which the CONTRACTOR collects or deducts from workers' wages. ORS 279C.530; OAR 839-025-0020(2)(d)
  8. The CONTRACTOR must submit a Public Work Contract Fee form (WH-39) and pay a prevailing wage rate fee to BOLI. ORS 279C-830 (2); OAR 839-025-0020(2)(e)
  9. The CONTRACTOR must pay the workers not less than the applicable state or federal prevailing wage rate, whichever is higher. ORS 279C3830 (1)(c); OAR 839-025-0020(3)
  10. The CONTRACTOR must have a public works bond filed with the Construction Contractors Board before commencement of any work on the project. ORS 279C.830(3)(a)
  11. The CONTRACTOR shall include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before commencing any work on the project. ORS 279C.830(3)(b).
- (2) CONTRACTOR warrants all installed materials or systems to be free from design, materials or construction defects and the systems shall perform to the CITY's satisfaction for at least two (2) years from the date the CITY accepts the work. CONTRACTOR warrants that the renovation work shall be performed consistent with professional standards found to be prevalent in the Portland Metropolitan Area.

IV. **INSURANCE REQUIREMENTS:**

- (1) The CONTRACTOR agrees to furnish the CITY evidence of commercial general liability insurance in the amount of not less than \$2,000,000 combined single limit per occurrence and \$2,000,000 general annual aggregate for bodily injury and property damage for the protection of, and naming the CITY, its officers, councilors and employees as additionally insured against liability for damages because of bodily injury, death or damage to property, including loss of use thereof in any way related to this contract. The CITY requires a complete copy of the above policy.
- (2) The CONTRACTOR warrants that it is an insured employer for purposes of the Oregon Workers' Compensation law (ORS Chapter 656) and is solely liable for any Workers' Compensation coverage under this contract. If the CONTRACTOR has the assistance of other persons in the performance of this contract, the CONTRACTOR agrees to qualify and remain qualified for the term of this contract as an insured employer under ORS 656.407. CONTRACTORS shall maintain employer's liability insurance with limits of \$1,000,000 each accident, \$1,000,000 disease each employee, and \$1,00,000 each policy limit.
- (3) The CONTRACTOR agrees to furnish the CITY evidence of business automobile liability insurance in the amount of not less than \$1,000,000 combined single limit for bodily injury and property damage for the protection of, and naming the CITY, its officers, councilors, and employees as additionally insured against liability for damages because of bodily injury, death, or damage to property, including loss of use thereof in any way related to this contract. The CITY, at its option, may require a complete copy of the above policy.
- (4) The insurance, other than the Workers' Compensation coverage, shall include the CITY as an additional named insured and refer to and support the CONTRACTOR'S obligation to hold harmless and defend (with attorneys approved by the CITY) the CITY, it's officers, councilors, agents, insurers and employees (all of whom shall be deemed to be covered by the duty of indemnify and defend). Such insurance shall provide at least thirty (30) days written notice to the CITY in the event of a cancellation or material change and include a statement that no act

on the part of the insured shall affect the coverage afforded to the CITY under this insurance. The insurance company will provide written notice to the CITY within sixty (60) days after any reduction in the general aggregate limit. This policy(s) shall be primary insurance as respects to the CITY. Any insurance or self-insurance maintained by the CITY shall be excess and shall not contribute to it.

V. **SUBCONTRACTS:**

The CONTRACTOR shall be responsible to the CITY for the actions of persons and firms performing subcontract work.

VI. **DEFAULT:**

The CITY may, subject to the provisions of paragraph four (4) below, by written notice of default to the CONTRACTOR, terminate the whole or any part of this contract in any one of the following circumstances:

- (1) If the CONTRACTOR fails to make delivery of the supplies or to perform the services within the time specified (to be determined) herein or any extension thereof; or
- (2) If the CONTRACTOR fails to perform any of the other provisions of this contract, or so fails to make progress as to endanger performance of this contract in accordance with its terms, and in either of these two circumstances does not cure such failures within a period of ten (10) days (or such longer period as the CITY may authorize in writing) after receipt of notice from the CITY specifying such failure.
- (3) In the event the CITY terminates this contract in whole, or in part, as provided in paragraph (b) above of this clause, the CITY may procure, upon such terms and in such manner as the CITY may deem appropriate, supplies or services similar to those terminated, and the CONTRACTOR shall be liable to the CITY for any excess costs for such similar supplies or services; provided, that the CONTRACTOR shall continue the performance of this contract to the extent not terminated under the provisions of this clause.
- (4) Except with respect to defaults of subcontractors, the CONTRACTOR shall not be liable for any excess costs if the failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the CONTRACTOR(s). Such causes may include, but are not restricted to, acts of God or of the public enemy, acts of the CITY in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather; but, in every case, the failure to perform must be beyond the control of both the CONTRACTOR and subcontractor, and without the fault or negligence of either of them, the CONTRACTOR shall not be liable for excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the CONTRACTOR to meet the required delivery schedule.
- (5) The rights and remedies of the CITY provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.
- (6) As used in paragraph (d) of this clause, the terms "subcontractor" and "subcontractors" mean subcontractor(s) at any tier.

**LIQUIDATED DAMAGES**

The CONTRACTOR shall complete all required work under the Contract by **November 1, 2024**.

The daily amount of the liquidated damages will be \$500 per Calendar Day\* for failure to meet this

deadline and/or for failure to complete work on-time as required by Section 00180.50(h) of the ODOT Standard Specifications for Construction, latest edition as modified by these Bid Documents.

The daily amount of the liquidated damages shall be \$100 for every fifteen minutes (rounded to the nearest one quarter hour) after 5:00 PM that any street is not drivable and will be charged without prior authorization.

\*Calendar Day amounts are applicable when the Contract time is expressed on the Calendar Day or fixed date basis.

VII. **PERFORMANCE GUARANTEE AND PAYMENT BOND**

The CONTRACTOR will be required to file with the CITY Performance and Labor and Material Payment bonds in the amount of 100% of the contract price at the time of execution of the contract. The surety company furnishing this bond shall have a sound financial standing and a record of service satisfactory to the CITY and shall be authorized to do business in the State of Oregon. The Attorney-in-Fact (Resident Agent) who executes this performance guarantee and payment bond in behalf of the surety company must attach a copy of his power-of-attorney as evidence of his authority. A notary shall acknowledge the power as of the date of the execution of the surety bond, which it covers. City forms shall be used for the Performance and Labor and Material Payment bonds.

VIII. **MAINTENANCE GUARANTEE**

At the completion of the project and prior to received final acceptance by the City, the CONTRACTOR shall provide the CITY with a Maintenance Guarantee in the amount of 25% of the contract amount, which covers any defects in either materials or workmanship, for a period of two years from the date of acceptance. City forms shall be used for the Maintenance Guarantee.

IX. **TERMINATIONS AND AMENDMENTS:**

- (1) The CITY may terminate this contract for cause or if sufficient funds are not appropriated for the completion of this project.
- (2) This contract and any amendments thereto will not be effective until approved in writing by the City of Happy Valley.
- (3) This contract supersedes and cancels any prior contracts between the parties hereto for similar services.

By their signatures below, the parties to this contract agree to the terms, conditions, and content expressed herein:

CONTRACTOR	CITY OF HAPPY VALLEY
<i>Authorized Signature</i> _____	<i>Public Works Director Signature</i> _____
<i>Date</i> _____	<i>Date</i> _____
<i>Printed Name &amp; Title</i> _____	<i>Printed Name, Public Works Director</i> _____
<i>Company Address (line one)</i> _____	<i>City Engineer Signature</i> _____
	<i>Date</i> _____
<i>Company Address (line two)</i> _____	<i>Printed Name, City Engineer</i> _____
<i>Email Address</i> _____	
<i>Federal Tax ID</i> _____	

## **STANDARD SPECIFICATIONS**

## **STANDARD SPECIFICATIONS**

The general conditions for this project are the *2021 Oregon Standard Specifications for Construction* and are further modified and supplemented by Special Provisions, Supplemental Specifications, project plans, and other references including, but not limited to, the *City of Happy Valley Engineering Design and Standard Details Manual*.

*2021 Oregon Standard Specifications for Construction* can be found at:

[https://www.oregon.gov/odot/Business/Specs/2021\\_STANDARD\\_SPECIFICATIONS.pdf](https://www.oregon.gov/odot/Business/Specs/2021_STANDARD_SPECIFICATIONS.pdf)

*City of Happy Valley Engineering Design and Standard Details Manual* can be found at:

<https://www.happyvalleyor.gov/business/engineering-division/design-manual-details/>

All above referenced documents are hereby incorporated into and made a part of these Contract Documents in their entirety.





**STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS  
FOR ROADWAY AND HIGHWAY CONSTRUCTION  
CITY OF HAPPY VALLEY, OREGON  
129<sup>TH</sup> Avenue & SE King Road Roundabout**

**CIP-07-24**

**MAY 2024**

**BID SET**

**Prepared by:**



Expires 6/31/2025

## **129<sup>th</sup> Ave. & King Rd Roundabout (CIP-07-24)**

The plans and specifications have been prepared by a multi-discipline team. The following is a general list of the firm's responsibilities and the sections of plans and specifications that each firm prepared:

**Harper Houf Peterson Righellis Inc.** – General Civil Engineering. HHPR compiled the specification booklet and provided input or information related to special provisions for the above-mentioned sections of work.

**DKS Associates** – Temporary traffic control and street lighting.

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**INFORMATION PROVIDED UNDER SEPARATE COVER**

- 129<sup>TH</sup> AVE. & KING RD ROUNDABOUT, (CIP-07-24) HAPPY VALLEY, OREGON  
BID SET DRAWINGS
- BID SCHEDULE

**OTHER DOCUMENTS AVAILABLE FOR DOWNLOAD FROM FTP SITE:**

FTP site: [129th Phase 2 Files for Contractor](#)

- Project CAD files
- Previous Phase 1 Utility Undergrounding Drawings for reference - PDF



## **129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)**

### **SPECIAL PROVISIONS**

#### **WORK TO BE DONE**

The Work to be done under this Contract includes, but is not inclusive of the following 129<sup>th</sup> Avenue & King Road Utility Undergrounding Project (CIP-07-24) in the City of Happy Valley:

1. Construct a new roundabout at the intersection of King Road and SE 129<sup>th</sup> Avenue. Work includes curbs, sidewalks, driveway, truck aprons, grading, paving, storm improvements, landscaping, and all elements as outlined in the plan and specifications.
2. Perform additional and Incidental Work as called for by the Specifications and Plans.

#### **APPLICABLE SPECIFICATIONS**

The Specifications that are applicable to the Work on this Project is the 2021 edition of the "Oregon Standard Specifications for Construction", as modified by these Special Provisions.

All number references in these Special Provisions shall be understood to refer to the Sections and subsections of the Standard Specifications bearing like numbers and to Sections and subsections contained in these Special Provisions in their entirety.

The following general notes apply to the entirety of the referenced edition of the "Oregon Standard Specifications for Construction"

- Delete all references to ODOT eBIDS website and to electronic submission of bids by any means. The City shall only accept paper bid submissions.
- The City's standard drawings and the City's Design Manual shall take precedence in the case of any conflicts.
- Delete all references to Doc Express. The City of Happy Valley uses email communications.

#### **CLASS OF PROJECT**

This is a City of Happy Valley Funded Project. No federal or state funds.



**SECTION 00110 - ORGANIZATION, CONVENTIONS, ABBREVIATIONS AND DEFINITIONS**

Comply with Section 00110 of the Standard Specifications modified as follows:

**00110.05(e) Reference to Websites** - Add the following bullet list to the end of this subsection:

- ODOT Construction Section - Qualified Products List (QPL)  
[www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx](http://www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx)
- ODOT Construction Surveying Manual for Contractors  
[www.oregon.gov/ODOT/ETA/Documents\\_Geometronics/Construction-Survey-Manual-Contractors.pdf](http://www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf)
- ODOT Traffic Control Plans Unit  
[www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx](http://www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx)

**00110.20 Definitions** – Add or modify definition(s) as follows:

**Amendment** – A contract modification for Additional Work, Changed Work, Extra Work, Field Directives, or other changes. An Amendment changes the contract value, scope, and/or time. Amendments require formal approval by the City prior to approval of such work.

**Bonds** – The bond or surety bond is a written document given by the surety and principal to the obligee to guarantee a specific obligation.

**City** – The term “City” shall mean the City of Happy Valley, including City Councilors, employees, and agents of the City authorized to administer the conditions of these contract documents

**Engineer** – The City’s Project Manager either acting directly or through an authorized representative(s). The Project Manager for this project and their contact information is below:

**Financial Guarantee** – Method of providing a means of assurance work will be completed or the funds will be available to complete work if Contractor is unable to do so. Financial Guarantees could be in the form of a bond, cash deposits, bank set aside or other acceptable methods approved by the City.

Name of Project Engineer, Bobby Jacobson, PE; Project Manager, Dan Houf, P.E., Harper Houf Peterson Righellis Inc.. Phone: (503) 221-1131; email: [Robertj@hhpr.com](mailto:Robertj@hhpr.com); [Dan@hhpr.com](mailto:Dan@hhpr.com)

**Invitation to Bid** – The public announcement (Notice to Contractors) inviting bids for work to be performed or material to be furnished.

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

Lump Sum – A method of payment providing for one all-inclusive cost for the work or for a particular portion of the work.

Notice of Intent to Award – A written notice from the City notifying bidders that the City intends to award to the responsible bidder submitting the lowest responsive bid.

Planholder – Potential Bidder who have provided the City with a “Return Receipt” form requesting to be placed on a list of plan holders.

Project Manager – The City’s representative who directly supervises the engineering and administration of the contract.

Substantial Completion – The work or specified parts of the work which are sufficiently complete, in accordance with **OAR 812-002-0740**, such that they can be utilized by the City for the purposes intended as determined by the Engineer.

Work Day – Any and every calendar day from January 1 to December 31 of every year, excluding Saturdays, Sundays and legal holidays.

### **SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES**

Comply with Section 00120 of the Standard Specifications modified as follows:

**00120.00 Prequalification of Bidders** – Delete verbiage in this sub-section and replace with the following:

Bidders must be pre-qualified with the Oregon Department of Transportation (ODOT) in accordance with the applicable parts of ORS 279 and ORS 701 and matters which can in any way affect the work hereof in order to enter into a Contract with the City of Happy Valley.

Bids will only be accepted from bidders prequalified with the Oregon Department of Transportation (ODOT) for the Class of Work as described in the bid documents. Proof of pre-qualification must be submitted to the City prior to Notice to Proceed.

No bids for construction contracts shall be received or considered by the City unless the bidder is licensed with the Oregon Construction Contractors.

In accordance with **ORS 279C.830(2)**, the CONTRACTOR shall:

1. Have a public work bond filed with the Construction Contractors Board prior to starting work on the project, and
2. Include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the Construction Contractors Board before starting work.

**00120.01 General Bidding Requirements** – Delete verbiage in this sub-section and replace with the following:

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

No bids for construction contracts shall be received or considered by the City unless the Bidder is licensed with the Oregon Construction Contractors.

In accordance with **ORS 279C.830(2)**, the CONTRACTOR shall:

- Have a public work bond filed with the Construction Contractors Board prior to starting work on the project, and
- Include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the Construction Contractors Board before starting work.

**00120.05 Request for Plans, Special Provisions, and Bid Booklets** – Delete verbiage in this sub-section and replace with the following:

Project and bid documents are available on the City's website (<https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements/>) for downloading.

**00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered** – Add the following paragraph to the end of this sub-section:

Any explanation regarding the meaning or interpretation of contract documents must be requested in writing, with sufficient allowance of time for receipt of reply before the time of bid closing. Any such explanations or interpretations shall be made in the form of addenda to the documents and shall be furnished to all bidders, who shall submit all addenda with their bids. Oral explanations and interpretations made prior to the bid closing shall not be binding.

Bidders should carefully examine the bid and contract documents and familiarize themselves with the work site to fully acquaint themselves with all the conditions and matters which can in any way affect the work or the cost thereof.

Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings plans, addenda (if any), and all other Contract Documents. The submission of a bid shall constitute an acknowledgment upon which the City may rely, that the bidder is experienced in the uses and interpretation of plans and specifications such as those included in the Contract Documents and has thoroughly examined and is familiar with the Contract Document.

The failure or neglect of a bidder to receive or examine any of the Contract Documents, perform site investigations and/or other investigations or examinations shall in no way relieve the bidder from any obligations with respect to the bid or the contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any Contract Documents or existing site conditions.

**00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids** – Delete verbiage in this sub-section and replace with the following:

The City reserves the right to make necessary changes or corrections to the bid documents prior to the opening of bids and will post an Addenda to the City's website at: <https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements/>.

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

Bidders who have provided a completed "Return Receipt" form to the City will be placed on the Plan Holders List. Although it is the intent of the City to notify all Plan Holders of Addenda, it is the responsibility of Plan Holders to check the website for changes.

Bids opened and found not to be based on the changes or corrections may be considered non-responsive.

Bidders may comment on any specification or requirement contained within this Bid which they feel limits competition in the selection of a bid to perform the services herein defined. Protests shall detail the reasons and any proposed changes to the specifications. Such comments shall be formal in writing and are to be addressed to:

**Sally Curran, P.E., City Engineer**  
**Happy Valley City Hall**  
**16000 SE Misty Drive, Happy Valley, OR 97086**  
**(503) 886-8414**  
[sallyc@happyvalleyor.gov](mailto:sallyc@happyvalleyor.gov)

Such comments shall be submitted no later than **4:00 PM, Seven (7) Calendar Days prior to the date of Public Bid Opening**. No comments will be accepted after that time. Any substitutions for items specified will not be accepted without prior written approval of the City Engineer.

**00120.40 Preparation of Bids** – Delete this sub-section and replace with the following:

- a) **Bid Documents** - Bidders must submit their proposals on the proposal form provided in the Bid Document. The blank spaces in the proposal must be filled in correctly where indicated for each and every item for which a quantity is given, and the bidders must state the unit prices, typed or written in ink, in numerals. Any correction to entries made on the proposal forms shall be initialed by the person signing the proposal. In case of discrepancy between the unit prices and amounts, the unit prices will govern. Alternative bids will not be considered unless specifically called for.

**Bids submitted electronically or via telegraphic or FAX methods will not be considered.**

Each bidder represents that his bid is based upon the specific materials and equipment, described in these Bid Documents. Specific manufacturer names and model numbers (if any) cited in the Specifications and Special Provisions indicate the required quality and features of items. Bidders wishing to provide items by different manufacturers shall request acceptance of their proposed substitutions in accordance with the following requirements:

No substitutions will be considered unless written request has been submitted to the City Engineer for approval prior to the closing date for bids. Each such request shall include a complete description of the proposed substitute, and any other data or information necessary for a complete evaluation. Substitutions will be accepted only with the understanding that the supplier guarantees substituted material or equipment to be equal or better than that specified and meets all requirements.

Accepted substitutes will be listed in addenda emailed to each person or firm recorded by the City Engineer as having received the Bid Documents and will be available for inspection on the City's website <https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements>.

- b) **Financial Guarantee** - Bid Guaranty, or Bid Security, shall be submitted with the Bid Proposal and failure to submit shall be cause for rejection of the bid. The bidder, at his or her option, shall furnish a bid bond, cashier's check or a certified check made to the City of Happy Valley for an amount equal to no less than ten (10) percent of the total amount of the bid. Security deposited by unsuccessful bidders will be returned as soon as practicable after the bid opening. Said bonds shall be in the form herein prescribed or approved substitute form and shall be the surety bonds of an incorporated surety company licensed to transact surety business in the state of Oregon and said bonds shall be in all respects satisfactory and acceptable to the City.
  
- c) **Disclosure of First-Tier Subcontractors** - In accordance with **ORS 279C.370**, when the contract value for a public improvement is greater than \$100,000, bidders are required to disclose information about First-Tier Subcontractors.

Within two working hours of the date and time of the deadline when the bids are due to the City for a public improvement, the bidder shall submit to the City a disclosure of the first-tier subcontractors that (A) will be furnishing labor, or will be furnishing labor and materials in connection with the public improvement, and (B) will have a contract value that is equal to or greater than five percent of the total project bid or \$15,000, whichever is greater; or \$350,000, regardless of the percentage of the total project bid.

The disclosure of first-tier subcontractors shall include the name of each subcontractor, the category of work that each subcontractor will perform, and the dollar value of each subcontract. This disclosure shall be submitted on the form as provided in these Bid Documents.

The First-Tier Subcontractor Disclosure Form may be submitted with the bid in the same envelope at the Bid Closing date and time. Those subcontractor lists submitted after the bid closing shall be delivered in a separate sealed envelope that clearly identifies the contents. However, the subcontractor lists **MUST** be submitted within two hours of the bid closing date and time.

The City shall consider the bid of any contractor that does not submit a subcontractor disclosure to the City prior to the date and time as noted above to be a nonresponsive bid and may not award the contract to that contractor. The City is not required to determine the accuracy or completeness of the subcontractor disclosure.

**00120.45 Submittal of Bids** – Delete verbiage in this sub-section and replace with the following:

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All bids must be submitted to the City Engineer and prepared in a sealed envelope bearing on the outside the name and address of the bidder, the name of the project for which the bid is submitted, the time and date of the **Public Bid Opening**, and addressed to **Sally Curran, P.E., City Engineer**, at City Hall as listed in Section 00120.30.

If the bid is forwarded by mail, the sealed envelope containing the bid and marked as directed above, must be enclosed in another envelope addressed as specified above.

Bids shall be submitted prior to the time fixed in the Invitation to Bid as advertised and included with these Bid Documents. Bids received after the time so designated will be considered late bids and will be returned unopened. No responsibility will be attached to any official of the City for the premature opening of, or the failure to open, a bid not properly addressed and identified.

**00120.50 Submitting Bids for More than One Contract** – Delete this sub-section in its entirety.

**00120.60 Revision or Withdrawal of Bids** – Delete verbiage in this sub-section and replace with the following:

Revised Bids - Bid revision(s) are allowed after an original submission only if prior to the bid opening date/time. Revision must be in a sealed envelope and signed by an authorized individual. Revisions must be complete replacement of original submittal and include bid schedule, bid guarantee, signature page, addendum and all other documents required for submittal.

Withdrawn Bids - Bids may be withdrawn at any time prior to the date and time of Bid Closing upon written or email request of the bidder. Negligence on the part of the bidder in preparing his or her bid shall not constitute a right to withdraw their bid after it has been opened.

**00120.65 Opening and Comparing Bids** – Add the following paragraph to the end of this sub-section:

At the time and place fixed for opening of bids, the contents of all bids will be made public for the information of all bidders and other interested parties who may be present in person or by representative.

**00120.68 Mistakes in Bids** – Add this sub-section and the following specifications:

- d) **General** – Clarifications to or withdrawal of a bid after bid opening because of an inadvertent, non-judgmental mistake in the bid requires careful consideration by the City to protect the integrity of the competitive bidding system and to assure fairness to all bidders. Bid corrections or withdrawal by reason of a non-judgmental mistake is permissible, but only to the extent it is not contrary to the interest of the City or the fair treatment of other bidders.
- e) **Mistakes Discovered After Bid Closing but Before Award** – This sub-section prescribes standards to be applied in situations where mistakes in bids are discovered after the time and date set for bid closing, but before award.

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

- 1) Minor Informalities – are insignificant mistakes of form that are evident from the bid documents and do not affect price, quality, quantity, delivery, or contractual obligations except in the case of informalities involving unit price. Minor informalities can be waived or corrected promptly without prejudice to other bidders or to the City. Examples include, but are not limited to:
  - (a) Return of the number of signed bids or the number of other documents required by the bid documents;
  - (b) Failure to sign the bid form in the designated block so long as a signature appears in the bid documents evidencing an intent to be bound;
  - (c) Failure to acknowledge receipt of an addenda to bid documents, but only if:
    - i. It is clear from the bid that the bidder received the addenda and
    - ii. Intended to be bound by its terms, or;
    - iii. The addenda involved had a negligible effect on price, quality, quantity, or delivery.
- 2) Mistakes Where Intended Correct Bid is Evident - If the mistake and the intended correct bid are clearly evident on the face of the bid form, or can be substantiated from accompanying documents, the City may accept the bid (i.e., typographical errors, errors in extending unit prices, transposition errors, and arithmetical errors). For discrepancies between unit prices and extended prices, unit prices will prevail.
- 3) Mistakes Where Intended Correct Bid is not Evident - The City will not accept a bid in which a mistake is clearly evident on the face of the bid form, but the intended correct bid is not similarly evident or cannot be substantiated from accompanying documents.

**00120.70 Rejection of Non-Responsive Bids** – Delete verbiage in this subsection and replace with the following:

The City reserves the right to reject any and all bids. Bids may be rejected if they show any alteration of form, admissions not called for, conditions or alternate bids, irregularities of any kind, or that they contain a clause in which the bidder reserves the right to accept or reject a contract awarded to him or her except as herein provided, or if they do not comply with prescribed public contracting procedures and requirements including the requirement to demonstrate the bidders responsibility under **ORS 279C.375(3)(b)**. Bids in which the prices are obviously unbalanced may be rejected.

The City reserves the right to waive any informality in bids received when such waiver is in the interest of the City.

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

A bid will be considered irregular and may be rejected if:

- 1) The Bid Schedule used for the Bid provided is not the one provided in the Bid Documents or has been altered.
- 2) The Bid is incomplete or incorrectly completed.
- 3) The Bid has unauthorized additions, deletions, alternate bids, or conditions.
- 4) A member of a joint venture and the joint venture submit bids for the same project in which on or both bids may be rejected.
- 5) The bid has entries not typed or in ink or has signatures or initials not in ink.
- 6) Each erasure, change, or correction is not initialed.
- 7) The unit price cannot be determined.
- 8) The Agency finds it is in the public interest to do so (**ORS 279.035**).
- 9) The bid guaranty is insufficient or improper.
- 10) The original bid bond form is not used or is altered.
- 11) Pre-Qualification submission requirements are not met.
- 12) The Oregon Construction Contractors Board registration number and expiration date are not shown on the bid if required by the bid document. This requirement applies to State-funded projects, with the exception of aggregate production and landscape projects.
- 13) A disclosure of first-tier subcontractors/material suppliers, if required under 00120.40(f), is not received within two working hours of the time bids are due to be submitted, or the disclosure form is not complete.
- 14) The City determines that any Pay Item is significantly unbalanced to the potential detriment of the City.

**00120.90 Disqualification of Bidders** – Add the following paragraph to the end of this sub-section:

A party who has quoted prices to a bidder is not thereby disqualified from quoting prices to other bidders or from submitting a direct bid on his or her own behalf.

**00120.95 Opportunity for Cooperative Arrangement** – Delete this sub-section in its entirety.

### SECTION 00130 - AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications modified as follows:

**00130.10 Award of Contract** – Starting at the paragraph that states, “The Agency will provide Notice of Intent to Award on the ODOT procurement Office...” remove this and remainder of section and replace with the following:

The Agency will post the Notice of Intent to Award on the City webpage at <https://www.happyvalleyor.gov/business/engineering-division/bid-advertisements/>

The Award will not be final until the later of the following:

- Three working days after the Notice of Intent to Award has been posted.



## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

- The Agency has provided a written response to each timely protest, denying the protests and affirming the Award or as written in a mutual agreement

If the Agency accepts a Bid and awards a Contract, the Agency will send the successful Bidder written notice of acceptance and Award in the form of a Notice of Award.

Notice of Award and Contract booklet ready for execution will be sent within **30 Calendar Days** of the opening of Bids.

**Resident & Non-Resident Bidders** - In determining the lowest responsible bidder, the City shall, pursuant to **ORS 279A.120** for the purposes of awarding the contract, add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides. "Resident bidder" means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid whether the bidder is a "resident bidder". Contractor or individuals awarded a contract shall provide the City with a correct Department of the Treasury Internal Revenue Service Tax Identification Number (TIN). In the event that the TIN is incorrect or inconsistent with the Contractor's name as described in this contract, the City may withhold taxes as required by law, or cancel or suspend further services under this contract, at the City's option, until the discrepancy is corrected.

The acceptance of a bid shall bind the successful bidder to execute the contract.

**00130.15 Right to Protest Award** – Delete verbiage in this subsection and replace with the following:

The *Notice of Intent to Award* by the City shall constitute a final decision of the City to award the contract if no written protest of the award is filed with the City Engineer within **Seven (7) Calendar Days** of the *Notice of Intent to Award*. If a protest is timely filed, the *Notice of Intent to Award* is a final decision of the City only upon issuance of a written decision denying the protest and affirming the award. The *Notice of Intent to Award* and any written decision denying protest shall be sent to every bidder who provided an address.

**Right to Protest.** Any actual bidder who is adversely affected or aggrieved by the City's *Notice of Intent to Award* to another bidder on the same solicitation shall have **Seven (7) Calendar Days** after *Notice of Intent to Award* to submit to the City Engineer a written protest of the award. The written protest shall specify the grounds upon which the protest is based. In order to be an adversely affected or aggrieved bidder with a right to submit a written protest, a bidder must be next in line for award, i.e. the protester must claim that all higher rated bidders are ineligible for award because they are non-responsive or non-responsible. The City will not entertain protests submitted after the time period established in this rule.

### **00130.40 Contract Submittals**

**(a) Performance and Payment Bonds** – Delete verbiage in this sub-section and replace with the following:

The Contractor will be required to file with the City Performance and Labor and Material Payment bonds in the amount of 100% of the contract price at the time of execution of the

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

contract. The surety company furnishing this bond shall have a sound financial standing and a record of service satisfactory to the City and shall be authorized to do business in the State of Oregon. The Attorney-in-Fact (Resident Agent) who executes this performance and payment bond in behalf of the surety company must attach a copy of

his power-of-attorney as evidence of his authority. A notary shall acknowledge the power as of the date of the execution of the surety bond, which it covers. AIA forms may be used for the Performance and Labor and Material Payment bonds.

**(f) Maintenance Bond** – Add this sub-section and the following specifications:

The Contractor also agrees that at the completion of the project and prior to receiving final acceptance by the City, the Contractor shall provide the City with a Maintenance Bond or other acceptable form of Financial Guarantee in the amount of 25% of the contracted amount, which covers any defects in either materials or workmanship, for a period of **two (2) years** from the date of acceptance.

**00130.50 Execution of Contract and Bonds** – Add the following paragraph to the end of this sub-section:

**(a) By the Bidder** –

The successful bidder shall within then **(10) calendar days** from the date of receiving from the City the contract prepared and ready for execution, furnish the City the corporate surety bond specified herein and enter into contract with the City. If the successful bidder fails to comply with any of the requirements herein, the City may, at its option, determine that the bidder has abandoned the contract and there upon the security accompanying this proposal shall be forfeited and the same shall become the property of the City.

### **SECTION 00140 - SCOPE OF WORK**

Comply with Section 00140 of the Standard Specifications.

### **SECTION 00150 - CONTROL OF WORK**

Comply with Section 00150 of the Standard Specifications modified as follows:

**00150.00 Authority of the Engineer** – Delete and replace the first sentence with the following:

Except as indicated elsewhere in the Contract (e.g. Amendment approval by the City of Happy Valley), the Engineer has full authority over the Work and its suspension.

**00150.15 Construction Stakes, Lines and Grades** – Add the following to the end of Paragraph (b):

The Agency will provide construction staking for all design elements that are specifically identified (by STA/Offset) on the plans, or that can be directly calculated from provided design information. The contractor is responsible for providing their own construction layout for items

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

are shown schematically on construction drawings or that cannot be precisely staked due to field adjustments. These items will need to be laid out in the field (by the contractor) and may need to be field adjusted to fit within project constraints.

The Agency will stake the following:

- Right-of-way or easement lines
- Limits of clearing and limits for demolition of structures (sawcut lines are not staked)
- Utility installation (manholes, catch basins, waterlines, hydrants, etc.)
- Major utility vaults (PGE)
- Rough grading, road subgrade, top of aggregate base
- Road Improvements (curbs, sidewalks, planters, median, etc.)
- Driveways – Stake centerline and width. Contractor field layout remaining points as required for construction
- ADA Ramps (based on Contractor's working drawings). Agency will stake enough to facilitate construction (i.e. front center, back of walk, other critical match points such as signal pole and ped pole elevations). Agency will not stake every sidewalk node/deflection points as contractor is required to field fit & verify ADA requirements are met prior to placing concrete. See 00759.46.
- Signal pole and pedestrian pole installations. Note – Pedestrian pole locations need to be field verified with regard to curb locations and sidewalk joints to ensure ADA requirements are met. Final location may require adjustment to meet field requirements.
- Private property improvements such as parking lots, driveway connections, etc.
- Wall alignments and wall foundations (if shown in plans)
- Station Marks (100-ft stations) to aid contractor-provided striping/marker layout. Agency is not responsible for layout of actual stripes or markers.
- Other items not listed but applicable to similar conditions (location precisely identified in plans)
- All stakes will be one-time only. Any staking requested beyond the "one-time", will be charged at the Agency consultant's rates and deducted from progress payments.

The Agency will not stake the following:

- Temporary Signs (or other Temporary Items) – Temporary signs are shown schematically on plans as minimum distances along an alignment. Temporary signs need to be field located (by contractor) completing the work. Sign locations may need to be adjusted (while meeting minimum requirements) to resolve field conflicts.
- Tree Removal – Typically shown on plans. Inspector can assist.
- Erosion Control – Shown schematically on plans and often varies from field conditions. Contractor to submit erosion control plans following field observation and locate material as required to meet erosion needs. Field adjustments may be required to improve function.
- Signal Loops – Per traffic plans, signal loops are to be located as specific distances from the crosswalk at center of lane. This requires field layout (by contractor).
- Joint trench alignment – Plans show schematic alignments and width/depth varies according to need. Agency will stake other controlling features such as back of walk and obstructions to be avoided to assist in field layout

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- Junction Boxes and/or smaller utility vaults. Often shown schematically and installed at sidewalk grade. Agency will stake other controlling design features or obstructions to facilitate placement and structure orientation. Final locations may require adjustment to avoid utility conflicts or to fit within final curb/sidewalk configurations
- Sawcut lines – Utility sawcut lines are a contractor-generated item (dependent on contractor equipment/shoring). Agency will provide staking of actual utility, but contractor is responsible to generate their own sawcut layout based on the staked alignments. Agency may provide sawcut lines at project limits if field layout not required.
- Temporary and Final striping/ pavement marker layout. Stripe layout to be completed (by contractor) in the field, utilizing actual roadway conditions and plan dimensions. Agency will provide station marks along the alignment (at 100-ft stations) to aid in contractor-layout
- Landscaping and Irrigation
- Other items not listed but meeting any of the following criteria:
  - Shown schematically on plans
  - Requires field adjustment to fit project requirements
  - Dependent on contractor means/methods
  - Other staking requests for contractor convenience

If the contractor requires (or desires) additional layout or convenience staking that is not provided by the Agency, they should include costs for that work in their respective bid items.

Contractor shall provide a minimum of 5 working day notice for staking requests in writing to the Agency and Engineer. Saturdays and Sundays are excluded from the 5-day request period.

**00150.30 Delivery of Notices** - Delete verbiage in this sub-section and replace with the following:

Written notices to the Contractor by the Engineer of the Agency will be delivered: By Email.

Notices shall be considered as having been received by the Contractor: At time of receipt.

Written notices to the Engineer or the Agency by the Contractor shall be delivered to the Agency email address shown in the Contact Information for Questions.

Notices will be considered as having been received by the Agency: At time of receipt.

For purposes of this sub-section, the time zone used to determine time of receipt of notices and other documents will be Pacific Standard Time (PST) and non-business days are Saturdays, Sundays and legal holidays as defined by **ORS 187.010** and **187.020**.

Claims must be submitted according to Section 00199.

**00150.35 Plans, 3D Engineered Models, Working Drawings, and 3D Construction Models** - Delete the sub-section in its entirety.

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**00150.40 Cooperation and Superintendence by the Contractor** – Add the following paragraphs to the end of this sub-section:

The contractor shall, at his own expense, procure all permits, certificates and licenses required of him by law for the execution of his work. He shall comply with all federal, state and local laws, ordinances or rules and regulations relating to performance of the work. All construction work shall be performed in conformance with the requirements of the Oregon State Department of Environmental Quality, the Environmental Protection Agency and the City.

The contractor acknowledges that he has satisfied himself as to the nature and location of the work; the general and local conditions, particularly those bearing upon availability of transportation, disposal, handling and storage of materials; availability of labor, water, electric power, roads; uncertainties of weather, or similar physical conditions at the site; the conformation and conditions of the ground; the character of equipment and facilities needed preliminary to and during the prosecution of the work; and all other matters which can in any way affect the work or the cost thereof under this Contract.

The contractor further acknowledges that he has satisfied himself as to the character, quality, and quantity of surface materials to be encountered from inspecting the site, all exploratory work done by the City, as well as from information presented by the drawings and specifications made a part of this Contract.

Any failure by the contractor to acquaint himself with all the available information will not relieve him from responsibility for properly estimating the difficulty or cost of successfully performing the work.

The contractor warrants that as a result of his examination and investigation of all the aforesaid data that he can perform the work in a good and workmanlike manner and to the satisfaction of the City. The City assumes no responsibility for any representations made by any of its officers or agents during or prior to the execution of this Contract, unless (1) such representations are expressly stated in the Contract, and (2) the Contract expressly provides that the responsibility therefore is assumed by City. Representations for which liability is not expressly assumed by the City in the Contract shall be deemed only for the information of the contractor.

**00150.40(a) General** – Add the following:

- Attend weekly construction meeting with the Engineer either on-site or at a location to be determined by the Engineer.

**00150.50(c) Contractor Responsibilities** – Replace the bullet that begins "Protect from damage or disturbance any Utility that remains..." with the following bullet:

- Protect from damage or disturbance any Utility that remains within the area in which Work is being performed. Maintain and re-establish location marks according to OAR 952-001-0090(3)(a). Coordinate re-establishment of the location marks with the associated Utility;

Replace the bullet that begins "Determine the exact location before excavating within ..." with the following bullet:

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- Determine the exact location before excavating within the tolerance zone according to OAR 952-001-0090(3)(c);

Replace the bullet that begins " In addition to the notification required in OAR 952-001-0090(5), notify the Engineer..." with the following bullet:

- In addition to the notification required in OAR 952-001-0090(6), notify the Engineer and the Utility as soon as the Contractor discovers any previously unknown Utility conflicts or issues. Contrary to the OAR, stop excavating until directed by the Engineer and allow the Utility a minimum of two weeks to relocate or resolve the previously unknown Utility issues; and

Add the following bullet to the end of the bulleted list:

- Hold a Utility scheduling meeting and monthly Utility coordination meetings (see also 00180.42)

Add the following subsection:

**00150.50(g) Utility Information (Anticipated Relocations):** A previous contractor working for the City of Happy Valley placed the existing overhead utilities underground. However, the organizations listed in Table 00150-2 may be adjusting Utilities within the limits of the Project during the period of the Contract:

**Table 00150-2**

<b>Subsection</b>	<b>Utility</b>	<b>Contact Person's Name, Address, Email, and Phone Number</b>	<b>Estimated Completion Date</b>
00150.50(g)(1)	NW Natural	Jeremy Lorence 220 NW Second Avenue Portland, OR 97209 (503) 781-4467 Jeremy.Lorence@nwnatural.com	Concurrent with construction
00150.50(g)(2)	Portland General Electric - Power	Jim McLean Portland General Electric, 3700 SE 17th Ave., Portland, OR 97202 (503) 736-5437 Jim.McLean@pgn.com	Concurrent with construction
00150.50(g)(3)	Portland General Electric - Lighting	Rico Torres Solis 209 Warner Milne Rd Oregon City, OR 97045 (503) 403-9084 Rodrigo.solis@pgn.com	Concurrent with construction
00150.50(g)(4)	Clackamas County Water Environment Services	Nick Degliantoni 150 Beavercreek Road Oregon City, OR 97045 (503) 742-4632 ndegliantoni@co.clackamas.or.us	Concurrent with construction

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00150.50(g)(5)	Comcast Communications	Robert Baley, 7900 NE Killingsworth St, Portland, OR 97218 (503) 348-5610 Robert_Baley@comcast.com	Concurrent with construction
00150.50(g)(6)	Ziplay Fiber	John Bielec 4155 SW Cedar Hills Blvd Beaverton, OR 97005 (503) 626-2386 John.bielec@ziplay.com	Concurrent with construction
00150.50(g)(7)	Verizon Wireless	Daniel Ruiz (503) 350-3251 daniel.ruiz@verizonwireless.com	Concurrent with construction
00150.50(g)(8)	Sunrise Water Authority	Joe Hepburn 10602 SE 129th Ave Happy Valley OR, 97086 (503) 820-2376 jhepburn@sunrisewater.com	Concurrent with construction

**00150.70 Detrimental Operations** – Add the following specifications to the end of this subsection:

Portions of this project will be constructed in close proximity to existing private improvements. All private improvements disturbed or damaged by the Contractor's operations as determined to be such by the Engineer, shall be repaired or replaced to equal or better condition at the Contractor's expense. In addition, prior to construction, the Contractor shall provide to the Engineer a video file showing private property which may be disturbed during construction.

### SECTION 00160 - SOURCE OF MATERIALS

Comply with Section 00160 of the Standard Specifications modified as follows:

**00160.01 Notification of Source of Supply and Materials** – Delete last two paragraphs of

(a) **All Materials** (regarding DBE Suppliers)

**00160.50(b) Waste, Excess, and By-Product Materials** – Replace this subsection, except for the subsection number and title, with the following:

Unless otherwise specified by the Engineer, all waste, excess, and by-product materials resulting from the Work are the property of the Contractor and are to be removed from the site. The cost of removal and disposal of waste, excess, and by-product materials will be incidental to applicable pay items, and no additional payment will be made for such removal.

### SECTION 00165 - QUALITY OF MATERIALS

**00165.03 Testing by Agency** – Delete verbiage in this sub-section and replace with the following:

No testing will be performed by the City. All testing shall be the responsibility of the Contractor.

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**00165.04 Costs of Testing** – Delete verbiage in this sub-section and replace with the following:

All required materials testing will be considered incidental to the bid item for which is being tested. (e.g. Asphalt for an asphalt bid item, rock for a rock bid item, concrete for a concrete item, etc.). No additional payment will be made for any required materials testing.

### **SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES**

Comply with Section 00170 of the Standard Specifications modified as follows:

**00170.00 General** - Replace the paragraph that begins "The Contractor shall comply with all laws, ordinances, ..." with the following paragraph:

The Contractor shall comply with all laws, ordinances, codes, regulations, executive orders and administrative rules (collectively referred to as "Laws" in this Section) that relate to the Work or to those engaged in the Work. Where the provisions of the Contract are inconsistent or in conflict, the Contractor shall comply with the more stringent standard.

**00170.01 Other Agencies Affecting Agency Contracts** – Add the following specifications to the end of this sub-section:

The bidder is assumed to be familiar with all applicable Federal, State, County or City laws or regulations, which in any manner affect those engaged or employed in the work or the materials or equipment used in the proposed construction, or which in any way affect the conduct of the work, and no plea of misunderstanding will be considered on account of ignorance thereof. If the bidder shall discover any provision in these specifications, plans or contract documents which is contrary to or inconsistent with any law or regulations, he or she shall report it to the City in writing.

**00170.02 Permits, Licenses, and Taxes** – Add the following specifications to the end of this sub-section:

This project is to be constructed in City of Happy Valley road right of way and streets. The contractor shall have a current business license with the City of Happy Valley.

The contractor shall provide paperwork showing that all trucks are current with Public Utility Commission (PUC) paperwork which include maximum load limits.

**00170.03 Furnishing Right-of-Way and Permits** – Delete this sub-section in its entirety.

A completed Right-of-Way Permit will be required. Contractor to provide their contact information and signature. Permit will include the traffic control plan the Contractor will be required to follow. The fee for this permit will be waived.

**00170.08 Electronic Document Management** – Delete verbiage in this sub-section and replace with the following:

Following Notice to Proceed, the Contractor shall submit all documents for this Contract to the Engineer and Agency via email unless hard copy format are specifically requested. Only documents submitted by the Contractor and recorded as received will be considered valid.



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Documents submitted according to this Subsection, from the Agency to the Contractor and from the Contractor to the Agency, are official documents for the Contract and will be accepted as such by both parties.

**(b) Digital Signatures and Requirements** – Delete the verbiage in this subsection and replace with the following:

Digital signatures for documents are permitted after the Notice To Proceed has been issued.

**(c) Electronic Submittal Requirements** - Delete verbiage in this sub-section and replace with the following:

Unless otherwise allowed or directed by the Engineer, all documents submitted to the Agency for this Contract that require a signature shall be signed by a person with appropriate authority by applying:

- An original handwritten signature to a document and scanning the document into PDF format.
- An electronic signature to a document and converting the document in PDF format.
- An approved third-party verifiable digital signature to a PDF document such as DocuSign.

Documents that require a signature, but do not have a signature in accordance with this Subsection, or were signed by a person without appropriate authority; or documents that were signed with a digital signature but are submitted in a form such that the digital signature is not verifiable by the Engineer, will be considered as not received and of no effect. Notice requirements will not be satisfied, and payments may be withheld for any affected work items until the required documents with compliant signatures have been received.

**00170.10 Required Payments by Contractors** – Delete paragraph (g) Paid Summary Report.

**00170.61 Industrial Accident Protection** - Delete the verbiage in this subsection and replace with the following:

Workers' compensation requirements shall be stated in the "Contract for Services" agreement.

**00170.65 Minimum Wage and Overtime Rates for Public Works Projects** – Add the following specifications to the end of this sub-section:

This contract for public work is subject to **ORS 279C.800** through **279C.870**. No bid will be received or considered by the public contracting City unless the bid contains a statement by the bidder as a part of its bid that bid will be in compliance with the provisions of **ORS 279C.800** through **ORS 279C.870**. The Contractor shall pay the existing rate of wage which may be paid to workers in each trade or occupation required for such public work employed in the performance of the contract either by the Contractor or subcontractor or other person doing or contracting to do the whole or any part of the work contemplated by the contract, and such workers shall be paid not less than the specified minimum hourly rate of wage as set forth in the latest applicable edition of the Prevailing Wage Rates for Public Works in accordance with **279C.830** and as detailed in these Bid Documents.

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**00170.70 Insurance** – Delete verbiage in this sub-section and replace with the following:

Insurance requirements shall be as stated in the “Contract for Services” agreement.

- Submit Additional Insured Endorsements with the Certificate(s) of Insurance on forms acceptable to the City.

Add the following to the end of this sub-section:

Extend indemnity and hold harmless to the Agency and the following:

- City of Happy Valley and its officers, agents, and employees
- City of Happy Valley City Councilors
- Harper Houf Peterson Righellis, its officers, agents, employees and subconsultants

**00170.85 Responsibility for Defective Work** – Add the following specification to the end of **(b)(2) Contractor Furnished Warranties; General Warranty for Local Agency Projects**

The term limit for warranties and additional warranties shall be two years from date of acceptance of the maintenance bond unless it is determined during the maintenance period that additional warranty is required for replaced materials, equipment, etc..

### **SECTION 00180 - PROSECUTION AND PROGRESS**

Comply with Section 00180 of the Standard Specifications modified as follows:

**00180.06 Assignment of Funds Due Under the Contract** – Delete the first bullet item in this sub-section.

**00180.20 Subcontracting Limitations** – Delete **(d) Disadvantaged Business Enterprise (DBE)** in its entirety.

**00180.21 Subcontracting** – Add the following specifications to the end of **(a) General**:

All contracts with subcontractors or suppliers shall have provisions making the contract assignable to the City, at the option of the City, if the Contractor terminates, goes out of business, declares bankruptcy, or otherwise is unable to perform provided that the City gives the subcontractor notice of assignment within fourteen (14) days of learning of the inability of the Contractor to perform.

**00180.30 Materials, Equipment, and Work Force** - Add the following paragraph to the end of the subsection:

ORS 279C.537 (Oregon House Bill 2007 (2019), Sections 17, 18 and 18a) applies to the Contract. The ORS 279C.537 requirements include but are not limited to the requirement that at least 80 percent of the total fleet of motor vehicles powered by diesel engines and equipment powered by nonroad diesel engines used on the site and in the course of

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performing the Contract must be (a) motor vehicles powered by model year 2010 or newer diesel engines and (b) equipment powered by nonroad diesel engines, whether or not capable of being powered by alternative fuel, that meet or exceed United States Environmental Protection Agency Tier 4 exhaust emission standards for nonroad compression ignition engines (ORS 279C.537(2)). ORS 279C.537(4) contemplates the Oregon Department of Environmental Quality (DEQ) will establish minimum standards and that ODOT, the Oregon Department of Administrative Services and the Oregon Department of Justice will adopt administrative rules (considering the DEQ minimum standards). When those administrative rules are promulgated and effective, the Contractor shall fully comply with the requirements of the administrative rules ODOT deems applicable, which as provided in ORS 279C.537(4)(c) may be required as an alternative to the requirements of ORS 279C.537(2).

**00180.40 Limitation of Operations** – Modify the below sub-sections as follows:

**(a) In General** – Add the following bulleted items:

- Limit construction to Monday through Friday to eliminate the need for overtime work. Limit hours of construction-related activity to between 8:00 AM to 5:00 PM Monday through Friday. Construction-related activities include all field maintenance of equipment, refueling, and pick-up and delivery of equipment and asphalt concrete pavement repairs. Application of asphalt concrete pavement is further limited, see below
- Paved streets must be drivable (as defined in 00706 of these Special Provision) and open to traffic not later than 5:00 PM, incremental liquidated damages may be applied due to inconveniencing the public.
- Any damage to streets resulting from Contractor's failure to comply with the limitations provided above shall be repaired by the Contractor in a manner acceptable to the Engineer.
- Any repairs necessary due to vehicles driving through the work zone will be made and paid for by the contractor. No additional cost will be incurred by the City.
- Clean up the project area and leave it in a neat safe and secured manner at the end of each workday this includes, but is not limited to street sweeping, removal of temporary traffic control signs, and equipment removed from the street.
- Provide the City Project Manager with a 24-hour contact person name and telephone number.
- Provide full cooperation with Contractor or other entity providing the installation of Artwork in the center of the roundabout.

Add the following subsection:

**00180.40(c) Specific Limitations** - Limitations of operations specified in these Special Provisions include, but are not limited to, the following:

<b>Limitations</b>	<b>Subsection</b>
Cooperation with Utilities .....	00150.50
Contract Time .....	00180.50(h)
Trash Restrictions .....	00220.40

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Closed Lanes .....	00220.40(e)(1)
Special Events .....	00220.40(e)(2)(b)
Limited Duration Road Closure .....	00220.40(f)
Noise Control .....	00290.32
Maintenance Under Traffic .....	00620.43

The Contractor shall be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this subsection.

**00180.41 Project Work Schedules** - After the paragraph that begins "One of the following Type..." add the following paragraph:

In addition to the "look ahead" Project Work schedule, a Type A schedule as detailed in the Standard Specifications is required on this Contract.

**00180.42 Preconstruction Conference** – Delete verbiage in this sub-section and replace with the following:

A preconstruction conference shall be held before the project begins, at a time mutually agreed upon by the City and Contractor.

In addition to the Contractor, the intended project superintendents, on site supervisor and subcontractor foremen – those who will actually be supervising construction activities – should attend the preconstruction conference. The Contractor must be prepared for a thorough discussion and review, as well as revision, which may be deemed necessary in the opinion of the Engineer, of the following:

(Note: These materials shall be brought to the preconstruction conference for discussion followed by Engineer review.)

- Contractor's plan of operation, public notification and progress schedule
- List of 24 hour phone numbers for the project manager, site foreman, and traffic control supervisor
- List of subcontractors, names, addresses and phone numbers
- Traffic/pedestrian Control Plan

During the preconstruction conference, be prepared to discuss the following items:

- Proposed stockpile location
- Responsibility for damage
- Hours of work
- Sequencing and schedule of work
- Public notification procedures and responsibilities
- Roadway closures
- Keeping roadway signs up to date and consistent with MUTCD and the temporary traffic control plans
- Acceptance and approval of work
- Labor compliance, payrolls, and certifications
- Safety regulations for Contractor's and City's employees and representatives

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- Suspension of work, time extensions
- Change order procedures
- Any interpretation of the Contract Documents requested by the Contractor
- Any conflicts or omissions in Contract Documents
- Any other problems or questions concerning the work

**00180.50(h) Contract Time** - The Contractor shall complete all Work to be done under the Contract no later than **November 1, 2024**.

Refer to Section 00180.85 for liquidated damage for the overall contract.

**00180.70 Suspension of Work**

**a) General** – Add the following specifications to the first bullet item:

If the Inspector has reason to believe that any safety provisions are not being adhered to, the Inspector will immediately notify the Contractor's site foreman and/or the appropriate person and the City Project Manager. The purpose of this discussion is to determine the validity of the alleged violation. This will also allow the Contractor a reasonable amount of time to correct or improve any of the provisions for the safety on this project. If the City Project Manager finds the problem still unresolved or uncorrected, they will notify the Contractor's Project Manager and the City's Risk Management Safety Analyst. If the City's Risk Management Safety Analyst finds that the job site contains any unresolved safety issues, they will take appropriate action up to and including suspension of the Contractor's operations on all or part of the Work.

**00180.85 Failure to Complete on Time; Liquidated Damages**

**(b) Liquidated Damages** – Add the following specifications to the end of this sub-section:

The liquidated damages for failure to complete the Work on time required by 00180.50(h) will be as follows:

There shall be liquidated damages given in the following paragraphs (a):

- (a) Complete all work as noted in Section 00180.50 (h) by **November 1, 2024**. The daily amount of liquidated damages will be **\$3,000**

Add the following subsection:

**00180.85(c) Lane Closures** - Lane closures beyond the limits specified will inconvenience the traveling public and will be a cost to the Agency.

It is impractical to determine the actual damages the Agency will sustain in the event Traffic Lanes are closed beyond the limits listed in 00220.40(e) or 00220.40(f). Therefore, the Contractor shall pay to the Agency, not as a penalty, but as liquidated damages, \$500 per 15 minutes, or for a portion of 15 minutes, per lane, for any lane closure beyond the limits listed in 00220.40(e) or 00220.40(f). In addition to the liquidated damages, all added cost for traffic control measures, including flagging, required to maintain the lane closures beyond the allowed time limits, will be at no additional cost to the Agency. The required traffic control measures will be as determined by the Engineer.

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The Engineer will determine when it is safe to reopen lanes to traffic. Assessment of liquidated damages will stop when all lanes have been safely reopened. Any liquidated damages assessed under these provisions will be in addition to those listed in 00180.85(b).

Add the following subsection:

**00180.85(e) Traffic Delays Beyond 20 Minutes** - Stopping or holding vehicles beyond the limits specified will inconvenience the traveling public and will be a cost to the Agency.

It is impractical to determine the actual damages the Agency will sustain in the event traffic is stopped or held longer than the 20-minute limit listed in 00220.02. Therefore, the Contractor shall pay to the Agency, not as a penalty, but as liquidated damages, \$500 per 20 minutes, or for a portion of 20 minutes, for stopping or holding traffic longer than 20 minutes. In addition to the liquidated damages, any added cost for traffic control measures, including flagging, required to stop or hold traffic beyond the 20-minute time limit, will be at no additional cost to the Agency. The required traffic control measures will be as determined by the Engineer.

Assessment of liquidated damages will stop when the Engineer determines that traffic is no longer stopped or held beyond the 20-minute limit. Any liquidated damages assessed under these provisions will be in addition to those listed in 00180.85(b).

### SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the Standard Specifications modified as follows:

**00190.20(a) General** - Replace the paragraph that begins "Unless otherwise provided in the Contract, Pay ..." with the following paragraph:

Unless otherwise provided in the Contract, Pay Items to be measured by weight shall include all Contractor costs for providing, maintaining, inspecting, and testing scales; for furnishing appropriate weigh tickets; for self-printing scales; for electronic weigh memo system(s); and for transporting Materials to the scales or to check weighing.

**00190.20(f)(1) Scale with Automatic Printer** - Replace the paragraph that begins "If the scales have an automatic weigh memo printer ..." with the following paragraph:

If the scales have an automatic weigh memo printer or an approved electronic weigh memo system that does not require manual entry of gross weight information, the Agency may periodically have a representative at the scales to observe the weighing procedures. In addition, the Engineer may periodically check the weight for a load of Materials by directing the haul vehicle to reweigh on a different scale that has been inspected and certified according to 00190.20(b) and 00190.20(d).

**00190.20(f)(2) Scale Without Automatic Printer** - Replace the sentence that begins "The Contractor shall inform the Engineer of ..." with the following sentence:

The Contractor shall inform the Engineer of its intent to use a scale without an automatic printer at least 3 working Days before weighing begins or before the Contractor changes to a scale that does not have an automatic printer.

**SECTION 00195 - PAYMENT**

Comply with Section 00195 of the Standard Specifications modified as follows:

**00195.50 Progress Payments and Retained Amounts** – Modify these sub-sections as follows:

**(a) Progress Payments**

**(1) Progress Estimates** – Delete the first sentence in this sub-section and replace with the following:

At a regular period each month to be determined at the Preconstruction Conference, the Contractor will make an estimate of the amount and value of pay item work completed and in place. This estimate will be submitted to the Project Manager for approval.

**(4) Limitations on Value of Work Accomplished** – Delete the phrase “Engineer’s estimate” in this sub-section and replace with the following:

“Contractor’s estimate”

**(b) Retainage** – Delete the first paragraph in this sub-section and replace with the following:

The amount to be retained from progress payments will be 5.0% of the value of Work accomplished and will be retained in one of the forms specified in sub-section 00195.50(c), including the modifications specified below. The City will withhold Retainage from all force account and change order work.

**(c) Forms of Retainage** – Delete the first paragraph in this sub-section and replace with the following:

Forms of acceptable retainage are set forth below in sub-section 00195.50(c)(1) through (3). "Cash, Alternate B" is the City-preferred form of retainage. Unless the Contractor notifies the City otherwise in writing, the City will automatically hold retainage per sub-section 00195.50(c)(2) "Cash, Alternate B (No Interest Earned)." If the City incurs additional costs as a result of the Contractor's election to use "Bonds and Securities", the City may recover such costs from the Contractor by a reduction of the final payment.

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### (2) Cash, Alternate B (No Interest Earned)

Retainage will be deducted from progress payments and held by the City until final payment is made in accordance with 00195.90, unless otherwise specified in the Contract.

**(3) Bonds, Securities, and Other Instruments** – Replace the second paragraph with the following:

Bonds securities and other instruments deposited instead of cash retainage shall be assigned or made payable to the City and shall be on forms provided and approved by the City.

**(d) Release of Retainage** – Delete the second paragraph.

### 00195.90 Final Payment:

**(a) Final Estimate** – Replace the first sentence with: As soon as practicable after Final Inspection of the Project, as provided in 00150.90, the Contractor will prepare a final estimate of the quantities of the Pay Items completed.

**(b) Final Payment** – Replace the third paragraph with: Beginning 30 calendar days after the date of Project Acceptance, interest will begin to accrue at the rate established by ORS 279C.570 on any money due and payable to the Contractor as final payment, determined as described above. No interest will be paid on money withheld due to outstanding amounts owed by the contractor under the provisions of 00170.10.

## SECTION 00196 - PAYMENT FOR EXTRA WORK

Comply with Section 00196 of the Standard Specifications, modified as follows:

Add the following subsection:

**00196.90 Extra Work Allowance** - The bid schedule of prices contains the bid item "Extra Work as Authorized". This bid item serves as a contingency for a pre-determined amount of Engineer-ordered Extra Work. All bidders shall reflect this same amount in their total bid. No bidder shall presume in the preparation of the bid or in the course of contract work that there will be a certain payment under that item or a certain order for Extra Work.

The contractor must receive written approval from the Engineer or City Project Manager prior to start of any work to be paid as Extra Work. Any work completed prior to receipt of written approval may not be eligible for compensation.

## SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK

Comply with Section 00197 of the Standard Specifications.



## SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS

Comply with Section 00199 of the Standard Specifications modified as follows:

**00199.40 Claim Decision; Review; Exhaustion of Administrative Remedies** – Delete verbiage in this sub-section and replace with the following:

The Engineer will, as soon as practicable, consider and investigate a Contractor's properly submitted claim for additional compensation. The Engineer will advise the Contractor of the decision to accept or reject the claim, and the reasons for rejecting any part of the claim.

The City intends to resolve claims at the lowest possible level.

Upon request by the Contractor, the Project Manager will review the Engineer's decision on the claim and advise the Contractor of the decision in writing. If the Project Manager finds the claim has merit, an equitable adjustment will be offered. If the Project Manager finds the claim has no merit, no offer of adjustment will be made, and the claim will be denied.

If the Contractor does not accept the Project Managers decision, then the Contractor shall commence any suit or action to collect or enforce any claim filed in accordance with 00199.30 within a period of one (1) year following the mailing of the decision or within one (1) year following the date of "Second Notification", whichever is later. If said suit or action is not commenced in said one (1) year period, the Contractor expressly waives any and all claims for additional compensation and any and all causes of suit or action for the enforcement thereof that he might have had.

## SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications modified as follows:

**00210.40 Mobilization** – Remove the fourth bullet point and add the following items to the end of this section:

- Pre-construction Visual Survey.
- Installation of Agency Standard project identification signs and removal at end of project.

**00210.90 Payment** – Add the following specifications to the end of this sub-section:

Demobilization will be considered incidental to Mobilization pay item and will be at the Contractor's expense.

## SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

**00220.02(a) General Requirements** - Add the following bullets to the end of the bullet list:

Before activating a modified traffic signal, revising lane usage, implementing new roadway geometry, or removing a "STOP" sign, protect traffic by installing "NEW

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TRAFFIC PATTERN AHEAD" (W23-2) signing according to 00222.40. Keep the signs in place for 30 Calendar Days after completing the modifications.

- Protect pedestrians in pole base excavation areas by placing approved covers over all pole base excavations. Place a minimum of two B(II)LR barricades adjacent to and on either side of the excavated area, facing pedestrian traffic, or place covers and barricades as directed.

**00220.40(e)(1) Closed Lanes** - Replace this subsection, except for the subsection number and title, with the following:

Traffic Lanes may be closed on SE King Road, SE Mt Scott Blvd and SE 129<sup>th</sup> Ave when allowed, shown, or directed during the following periods of time except as specified in 00220.40(e)(2):

- Daily, Monday through Thursday, between 9:00 a.m. and 4:00 p.m.
- Friday, between 9:00 a.m. and 3:00 p.m.
- Nightly, Sunday night through Friday morning, between 6:00 p.m. and 7:00 a.m.

**00220.40(e)(2)(b) Special Events** - Add the following to the end of this subsection:

The following special events will occur during this Project:

- July 3<sup>rd</sup> to July 7<sup>th</sup>, Fourth of July Celebrations
- National Night Out, August 6th

Add the following subsections:

**00220.40(f) Other Closure Restrictions** – The Contractor will be permitted to close all Traffic Lanes to the general public on one leg of the SE 129<sup>th</sup> Ave/King Rd intersection at a time for the duration required to completed the work. Emergency vehicle access from the Clackamas Fire District must be accommodated through the closure at all times. The closure will not be allowed until the area and the detour route are signed according to the TCP and the requirements of Section 00225. Do not close more than one leg at a time.

**00220.40(g) Special Project Closure:** The Contractor is allowed a 14-day calendar closure of the project area to complete the roundabout. This will allow the contractor to place aggregate base, pour curbs, roundabout apron and pave the roundabout. This closure time frame should be coordinated ahead at least one week with the City of Happy Valley. Driveway access to the Fire Station and the City's Community Policing Center must be maintained at all times. The contractor will be allowed to work all 24 hours of the day except Sundays during this timeframe.

**00220.40(h) Church Parking Lot Daytime Detour:** The Contractor may use the Church parking lot drive aisle as a workday detour for local traffic. This will require appropriate signage and/or flaggers to direct traffic. This detour is not intended for use by large trucks.

**00220.40 (i)** The City has provided staging and traffic control plans to allow access to the Contractor to construct the project. The City and Engineer are committed to working with the Contractor if the Contractor proposes changes to the staging plans in order to expedite the workflow, provided it meets the intent of the overall traffic control plans.

## SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

Comply with Section 00221 of the Standard Specifications modified as follows:

**00221.03 Traffic Safety and Operations** - Replace the bullet that begins "When paving operations create..." with the following bullet:

- When paving operations create an abrupt or sloped edge drop off greater than 1 inch, protect traffic by installing signing according to the "2 Lane, 2 Way Roadway Overlay Area" detail shown on the Standard Drawings. Protect longitudinal and transverse Pavement joints by placing and maintaining an asphalt concrete wedge according to 00221.07(c)(1).

**00221.06 (c) Tourist-Oriented Directional and Business Logo Signs** - Replace this subsection, except for the subsection number and title, with the following:

Submit one of the following for approval, at least 5 Calendar Days before the preconstruction conference:

**(1) No Signs** - If there are no tourist-oriented directional (TOD) or business logo signs on the Project, a written notification that no TOD or business logo signs exist within the Project limits or

**(2) Signs** - Submit one copy of a sketch map of the Project showing all existing TOD and business logo signs and a written narrative describing how these signs will be kept in service and protected throughout all the construction stages. If modifications are necessary, submit updated information to the Engineer for approval at least 21 Calendar Days before the change is needed.

**00221.07(c)(1) Paving** - Replace this subsection, except subsection number and title, with the following:

When the longitudinal joint is greater than 1 inch in height, install additional TCD according to 00221.03. Complete the placing of ACP and construction of paving joints according to 00735.48, 00735.49, 00743.45, 00744.44, 00744.45, 00745.47, and 00745.48, as applicable.

**00221.90(b) Temporary Protection and Direction of Traffic** - Delete the bullet that begins "Moving temporary barrier to and from Contractor's stockpile areas".

Replace the bullet that begins "When the Schedule of Items does not include ..." with the following bullet:

- Preparing and signing the daily "Traffic Control Inspection Report", when a TCS is not included in the Schedule of Items or when a TCS is not onsite for a work shift.

## SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

Comply with Section 00222 of the Standard Specifications modified as follows:

**00222.40(e) Temporary Sign Placement** - Add the following to the end of the bullet list:

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- At least ten Calendar Days before closing the sidewalks at SE 129<sup>th</sup> Avenue/SE King Road, place a "SIDEWALK CLOSED, Full Time" (CW11-4) sign in advance of each future closure point. Locate the sign so it is legible from the nearest alternate pedestrian pathway facing incoming pedestrian traffic. The sign may be mounted between the panels of a Type II barricade or on a single-post TSS. Do not place the sign or sign support such that it narrows the pedestrian pathway to a width of less than 4 feet.
- Before opening the TPAR, place TPAR signing and other TCM as shown, or as directed. Maintain the "SIDEWALK CLOSED, Full Time" (CW11-4) signs while the TPAR is open to pedestrian traffic.
- At least ten Calendar Days prior to the start of work, place a "SIDEWALK OPEN" (CW11-3) sign in advance of each end of the Work Area. Locate the sign so it is legible from the nearest alternate pedestrian pathway facing incoming pedestrian traffic. The sign may be mounted between the panels of a Type II barricade, or on a single-post TSS. Do not place the sign or support such that it narrows the pedestrian pathway to a width less than 4 feet.
- Before starting work, place pedestrian-specific TCM as shown in the TCP, or as directed. Maintain "SIDEWALK OPEN" (CW11-3) signs while work is affecting the pedestrian pathway.
- Place a "PEDESTRIANS ON ROADWAY" (CW11-2) sign at the beginning of each end of the Work Area, facing incoming traffic as shown, or as directed.
- Install "ROAD WORK AHEAD" (W20-1-48) signs with a 36 by 24-inch "FINES DOUBLE" (R2-6aP) rider on SE 129<sup>th</sup> Avenue, SE Mt Scott Blvd, and SE King Road, according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans except do not install the "FINES DOUBLE" rider on concrete barrier mounted signs.
- Install beyond each end of the Project, facing outgoing traffic, an "END ROAD WORK" (CG20-2A-24) sign a distance of  $(A \div 2)$  according to the "TCD Spacing Table" shown on the Standard Drawings or as modified by the Plans.
- Install two sign flag boards, as shown on the Standard Drawings, above the following detour and road closed advance warning signs, where applicable:
  - "DETOUR AHEAD", "DETOUR XXXX FT", "DETOUR X/X MILE" (W20-2) signs.
  - "ROAD CLOSED AHEAD", "ROAD CLOSED XXXX FT", "ROAD CLOSED X/X MILE" (W20-3) signs.
- Install a "NEW TRAFFIC PATTERN AHEAD" (W23-2) sign approximately 350 feet in advance of the SE 129<sup>th</sup> Avenue/SE King Road Intersection, facing northbound, eastbound, and westbound incoming traffic.
- Keep the "NEW TRAFFIC PATTERN AHEAD" signs in place 30 Calendar Days after installing the roundabout.

## SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES

Comply with Section 00223 of the Standard Specifications modified as follows:

**00223.31(b) Traffic Control Inspection Without TCS** - Replace the bullet that begins “Prepares and signs a daily “Traffic Control Inspection Report”...” with the following bullet:

- Prepares and signs a “Traffic Control Inspection Report” (Form No. 734-2474) upon the initial installation of TCM and each working day when any modification, removal, or reinstallation of TCM are made, or as directed by the Engineer. Submit completed reports to the Engineer no later than the end of the next working day.

## SECTION 00224 - TEMPORARY TRAFFIC CHANNELIZING DEVICES

Comply with Section 00224 of the Standard Specifications modified as follows:

**00224.46 Pavement Edge Delineation** - Replace the paragraph that begins “Place tubular or conical markers...” with the following paragraph:

Place tubular or conical markers to delineate the edge of Pavement immediately after construction Work or paving operations create an abrupt or sloped edge drop-off greater than 1 inch in height along the right hand or left hand Shoulder.

**00224.91 Payment, Lump Sum or Incidental Basis** - Replace this subsection, except for the subsection number and title, with the following:

When the Contract indicates payment for Work under 00221.98 Payment, Method “B” - Lump Sum Basis or 00221.99 Payment, Method “C” - Incidental Basis, no separate or additional payment will be made for Work performed under this Section. Payment will be included in payment according to 00221.98 or 00221.99.

## SECTION 00228 - TEMPORARY PEDESTRIAN AND BICYCLIST ROUTING

Comply with Section 00228 of the Standard Specifications modified as follows:

**00228.00 Scope** - Replace this subsection, except subsection number and title, with the following:

In addition to the requirements of Section 00221, this Work consists of furnishing, installing, operating, maintaining, inspecting, and removing temporary devices for accommodating pedestrians and bicyclists through a work zone.

**00228.13 Temporary Curb Ramps** - Add the following sentence to the end of this subsection:

Furnish truncated dome detectable warning surface for temporary curb ramps from the QPL according to 00759.12.

**00228.43 Temporary Curb Ramps** - Add the following paragraph to the end of this subsection:

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Install a minimum 2 foot wide truncated dome detectable warning surface on temporary curb ramps at pedestrian street crossings. Omit truncated dome detectable warning surfaces on temporary curb ramps that are not at a pedestrian street crossing.

**00228.80(a) Length Basis** - Replace this subsection, except subsection number and title, with the following:

Pedestrian channelizing devices and bicycle channelizing devices will be measured on the length basis upon delivery to the Project. The quantities will be limited to those in the approved TCP.

**00228.80(b) Unit Basis** - Replace this subsection, except for the subsection number and title, with the following:

Temporary curb ramps will be measured on the unit basis, at each location where a temporary curb ramp is constructed or placed.

**00228.90 Payment** - Add the following paragraph after the paragraph that begins “In item (c), the type...”:

Item (c) includes furnishing and installing truncated dome detectable warning surfaces.

**00228.91 Payment, Lump Sum or Incidental Basis** - Replace this subsection, except for the subsection number and title, with the following:

When the Contract indicates payment for Work under 00221.98 Payment, Method “B” - Lump Sum Basis or 00221.99 Payment, Method “C” - Incidental Basis, no separate or additional payment will be made for Work performed under this Section. Payment will be included in payment according to 00221.98 or 00221.99.

### SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

**00280.62 Inspection and Monitoring** - Replace this subsection, except for the subsection number and title, with the following:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement on a weekly basis and when 1/2 inch or more of rainfall occurs within a 24-hour period, including weekends and holidays.

If a significant noncompliance or serious water quality issue occurs that could endanger health or the environment, verbally report it to the Engineer within 24 hours.

**00280.90 Payment** – For the paragraph beginning “Item (a) includes:”, add the following bullet:

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- procurement and installation of all erosion prevention devices and all runoff and sediment control devices as required to provide erosion control or as directed by the Engineer.

### **SECTION 00290 - ENVIRONMENTAL PROTECTION**

Comply with Section 00290 of the Standard Specifications modified as follows:

**00290.32 Noise Control** - Add the following paragraphs to the end of this subsection:

Review City of Happy Valley codes and ordinances which describes noise control regulations and limitations of work hours. Site construction shall be limited to 8 AM to 5 PM on weekdays and 8 AM to 5 PM on Saturday's and Sunday's, unless approved by City. Comply with the applicable noise control requirements of the permit for Project Work.

### **SECTION 00305 - CONSTRUCTION SURVEY WORK**

Comply with Section 00305 of the Standard Specifications modified as follows:

**00305.00 Scope** – Replace this subsection with the following:

The Agency is providing Construction Survey on this project. Refer to 00150.15 for list of items included in this work. Typically, the Agency will stake all design elements that are specifically identified (by STA/Offset) in the plans or that can be directly calculated from provided design information.

If the Contractor desires construction staking of items not included in Agency provided staking, or for their convenience, they will need to provide their own construction survey to complete these tasks.

**00305.90 Payment** – There will be no payment for Construction Survey Work. Any contractor-provided construction survey will be considered incidental to the item for which it is used.

### **SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Comply with Section 00310 of the Standard Specifications modified as follows:

**00310.90 Payment** - Add the following to the end of this subsection:

No separate or additional payment will be made for removal or disposal Work included in Section 00330 according to 00310.02.

### **SECTION 00320 - CLEARING AND GRUBBING**

Comply with Section 00320 of the Standard Specifications modified as follows:

**SECTION 00330 - EARTHWORK**

Comply with Section 00330 of the Standard Specifications modified as follows:

**00330.02 Definitions** - Add the following:

General Rock Excavation – General Rock Excavation is defined as removal of solid bedrock, or ledge rock, which in the opinion of the engineer cannot be excavated or removed by dozers with rippers, or hydraulic excavator, but which requires the use of pneumatic rock splitters, hammers, and wedges.

**00330.03 Basis of Performance** - Delete this subsection and replace with the following:

**00330.03 Basis of Performance** – Earthwork to be performed under this specification including excavation, haul, disposal, and embankment construction, unless otherwise specified, will not be measured and will be paid for on the Lump Sum Basis.

**00330.14 Selected Granular Backfill** - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695...”

Add the following:

The contractor must use Selected Granular Backfill in fill areas under the roadway areas. This contractor may use excavated material from under areas of King Road to the west of the roundabout that was used as aggregate base, or the Contractor can provide new material.

**00330.15 Selected Stone Backfill** - Delete the sentence that begins “Reclaimed glass meeting the requirements of Section 02695...”

**00330.41(e) Blasting** – Replace this subsection, except for the subsection number and title, with the following:

Blasting will not be permitted on this project.

**00330.42(c-3) Embankment Slope Protection** - Add the following paragraph:

Construct the outer 12 inches of embankments with suitable materials to establish slope stabilization through permanent seeding. If suitable material is not available, provide suitable materials from a Contractor-provided source which conforms to the requirements of 00330.11 or 00330.13 and provides favorable conditions for germination of seed and growth of grass.

**00330.80 Measurement** – Replace the first paragraph and two bulleted items with the following:

- There will be no measurement of quantities for general earthwork. **The Contractor shall complete their own earthwork calculations to confirm the required quantities for their bid.** The Engineer has estimated the following quantities utilizing AutoCAD Civil 3D.

\*Embankment: 900 cubic yards  
\*Excavation: 2600 cubic yards



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The Contractor should consider the following when preparing their lump sum bid:

\* The Engineer's earthwork volume estimates are calculated as the volume between subgrade of the roadway as indicated on the typical sections and the existing ground surface as indicated in the topographic survey. These estimated volumes do not reflect volumetric adjustments relating to stripping depths or removal of structures and obstructions such as existing asphalt concrete pavement and concrete sidewalks, curbs, and driveways that are identified to be removed. Earthwork quantities also include excavation required at storm planters and for placement of topsoil within the project limits including landscape areas, and other grading outside the limits of the roadway as shown on the plans.

A 5% contingency has been added to the earthwork quantity estimate to make grading adjustments as requested by property owners or directed by the Engineer. This additional 5% work contingency shall be reflected in the Contractor's lump sum bid and will not be measured.

\*The quantities estimated above exclude excavation and embankment for the following items, which are paid under the separate specific bid items:

- Trench Excavation (Incidental to Pipe Installation)
- All Concrete Curbs, Sidewalks, Driveway apron (Incidental to those items)
- Wall Excavation
- All other items where the specifications specifically state that excavation is a part of the bid item

Some rock excavation may be required on this project. The estimated earthwork quantities already include volumes where rock could be encountered. Thus, the bid item for "General Rock Excavation" should be considered an "additional cost" for excavating through rock instead of soil and applies to all locations where excavation may be needed, including mass earthwork, wall excavations and trench excavations.

For some locations on this project excavation may require gentle excavation techniques such as vacuum excavation or hand excavation to ensure no damage to existing utilities or critical tree roots occurs.

Supplemental design information and AutoCAD Files are available on the project FTP site. For link to the FTP site, refer to the "Other Documents Available for Download" section following the Table of Contents.

**00330.91(d) General Excavation** - Delete the bullet that begins "Includes unsuitable material...".

**00330.92 Kinds of Incidental Earthwork** - Add the following bullet to the end of the bullet list:

Earthwork required for driveways and road approaches. Earthwork for driveways and road approaches will be that which is outside the neat line limits shown on the typical sections.

Add the following subsection:

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**00330.93 Excavation Basis Payment** – Add the following pay item:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(f) General Rock Excavation	Cubic Yard

Item (f) will be payment in full for all labor, equipment, tools, removal, disposal, and incidentals necessary to complete the work as required and as specified in these special provisions.

Add the following subsection:

**00330.95 Lump Sum Basis** - All earthwork, including all excavation and embankment as defined under Section 00330, shall be completed on a Lump Sum Basis under the following pay item:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(a) Earthwork – Excavation and Embankment	Lump Sum

Payment includes payment in full for excavating, selecting, handling, hauling, placement and compaction of the materials as specified, and all other costs associated with furnishing required embankment materials. Payment includes providing any Select Granular Backfill as defined in Section 00330.14 of this section.

No additional payment will be made for gentle excavation techniques such as vacuum- or hand-excavation, where required.

**SECTION 00331 - SUBGRADE STABILIZATION**

Comply with Section 00331 of the Standard Specifications.

**SECTION 00340 - WATERING**

Comply with Section 00340 of the Standard Specifications.

**SECTION 00350 - GEOSYNTHETIC INSTALLATION**

Comply with Section 00350 of the Standard Specifications.

**SECTION 00390 - RIPRAP PROTECTION**

Comply with Section 00390 of the Standard Specifications.

**SECTION 00430 - SUBSURFACE DRAINS**

Comply with Section 00430 of the Standard Specifications.

**SECTION 00405 – TRENCH EXCAVATION, BEDDING, AND BACKFILL**

Comply with Section 00405 of the Standard Specifications modified as follows:

**00405.46 (c) (3)** – Add the following at the end of the subsection:

All storm backfill withing SE 129<sup>th</sup> Avenue and SE King Road shall have Class E Backfill or an equivalent section approved by the City of Happy Valley.

**SECTION 00440 - COMMERCIAL GRADE CONCRETE**

Comply with Section 00440 of the Standard Specifications.

**SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS**

Comply with Section 00442 of the Standard Specifications.

**SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE**

Comply with Section 00445 of the Standard Specifications modified as follows.

**00445.11 Materials** - Modify as follows:

Storm Pipe: Unless otherwise noted, all storm pipe, 12” diameter and larger, shall be ADS SaniTite HP pipe or reinforced concrete pipe. Storm pipe, if required for shallow installations, shall be Class 52 Ductile Iron Pipe.

**00445.40 General** – Add the following to the end of the section:

**(h) Potholing** – The Contractor must pothole all utility crossings to confirm that there are no grade conflicts. If a grade conflict is found, the Contractor shall report immediately to the Engineer. Additionally, the Contractor shall begin coordinating the relocation work with the specific utility company.

**00445.80(a) Depth** – Delete this subsection. There will be no measurement for pipe depth. There will be no adjustment of quantity or payment to account for horizontal or vertical adjustments in the storm or sanitary lateral construction as required to avoid utilities

**00445.91 Payment** – Delete the subsection and replace with the following:

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The accepted quantities of pipe and related work items performed under this Section will be paid for at the Contract unit price, per the unit of measurement, for the following items:

Pay Item	Unit of Measurement
(a) _____ inch _____ Pipe _____,	Foot

In item (a), the nominal pipe diameter will be inserted in the first blank. The type of pipe will be inserted in the second blank. If necessary, additional descriptive information will be inserted in the third blank.

In item (a) all backfill for 12" storm lines in 129<sup>th</sup> Avenue or King Road shall be Class E Backfill.

There will be no separate payment for pipe tees (including inserta tees), pipe wyes, flapper valves, slip joints, sloped end section, safety end section, concrete pipe anchors, concrete closure collars, concrete in blocks, reinforcement used in blocks, and metal pipe anchor. There will be no separate payment for connection to other structures. Installation of these items will be considered incidental and included in payment for the appropriate pipe pay item. Payment will include payment for pipe plugs, stoppers, other fittings required to accomplish the work, furnishing and installing the outer sleeve of the slip joint, furnishing and installing safety end sections, including safety bars when required.

No separate or additional payment will be made for:

- Trench excavation, bedding, pipe zone material, and trench backfill for pipes 72 inches and less in diameter, except when Class E backfill is required per 00445.46(c)(3)
- Adjusting the grade as required to avoid utilities
- pipe plugs, stoppers, and other required fittings
- metal pipe anchors
- tracer wire
- hydrostatic, air, joint, and deflection testing
- video inspection
- temporary pumping/storage of sanitary effluent during transfers (if necessary)
- detention pipe fittings, access structures, or other elements required for construction.
- Sawcutting

When the Contract Schedule of Items does not indicate payment for pipes or other work under this Section, no separate or additional payment will be made. Payment will be included in payment made for the appropriate items under which this work is required.

### **SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS**

Comply with Section 00470 of the Standard Specifications modified as follows:

**00470.41 (c) – Grates, Frames, Covers and Fittings** – Replace the sentence beginning “Set frames, covers and grates true...” with the following:

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“Set frames, covers and grates true to the locations and grades established. Use tapered grade rings to ensure rims are set to match grades for both road slope and side slope and provide a smooth finished surface.”

Manholes located in the shared use path or sidewalks shall have slip resistant lids.

**00470.90 Payment** – Modify as follows:

Add the following Pay Items:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(l) Curb Frame and Grate	Each

Delete the paragraph beginning “Payment will be...” and replace with the following:

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, appurtenances and incidentals necessary to complete the work as specified and as shown on individual details for complete installation of the specific items.

**SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES**

Comply with Section 00490 of the Standard Specifications modified as follows:

**00490.10 Materials** - Replace the "Precast Concrete Sections" line with the following line:

Precast Concrete Sections..... 02450

**00490.43 Abandoning Pipe in Place** – Delete the second paragraph and replace with the following:

Fill all abandoned pipes with controlled low-strength material meeting the requirements of Section 00442.

**00490.90 Payment** – Modify as follows:

Delete Pay Item (g). Connection of an existing pipe or structure to a new pipe, manhole, catch basin or inlet is considered incidental to pipe or structure installation, except for an outside drop structure connection, which will be paid separately.

Add the following Pay Item:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(j) Storm Sewer, Outside Drop Connection to Manhole	Each

For pay item (j) Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, appurtenances and incidentals necessary to complete the

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work as specified and as shown on individual details for complete installation of the outside drop connection to the manhole including excavation, and Class E Backfill.

Valve (water/gas) or Cleanout (storm/sanitary) adjustments to finished grade are incidental and no separate or additional payment will be made. Payment will be included in payment made for the appropriate items under which this Work is required.

### SECTION 00495 - TRENCH RESURFACING

Comply with Section 00495 of the Standard Specifications modified as follows:

#### 00495.90 Payment - Modify as follows:

Trench Resurfacing will be Paid for Areas under AC Pavement Areas only, as listed in the Bid Schedule as A.C. Trench Resurfacing. All A.C. Trench Resurfacing shall be meet City of Happy Valley Standards.

Trench Resurfacing in areas with Concrete Sidewalk or Concrete Driveways will be paid under Section 00759.

### SECTION 00596B – PREFABRICATED MODULAR RETAINING WALLS

Comply with Section 00596B of the Standard Specifications modified as follows:

**00596B.01 Proprietary Prefabricated Modular Walls** – The following proprietary retaining wall systems have been preapproved for Prefabricated Modular Block Walls:

- Allan Block Retaining Wall System, telephone: (541-233-7856 - Tanner Weston).

Use the following materials for the walls:

AB Field Stone Collection – Rustic Creek with AB Field Stone Cap Unit. Style: Cascade Series

Contractor to submit samples of material for review to the Engineer and City of Happy Valley for approval prior to ordering materials and installation.

#### 00596B.03 Definitions -

beams made of precast reinforced concrete and backfilled with granular material. Replace the "**Prefabricated Modular Retaining Wall System**" definition with the following definition:

**Prefabricated Modular Retaining Wall System** - A basic gravity retaining wall system type composed of solid or hollow prefabricated concrete or steel modules. Hollow modules are typically backfilled with granular material. Prefabricated modular retaining walls include metal and precast concrete bin, precast concrete crib, gabion, dry cast concrete block, and wet cast concrete block gravity retaining walls.

**00596B.11(b) Modular Block Core and Drainage Backfill** - Replace this subsection, except for the subsection number and title, with the following:

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Furnish 3/4" - No. 4 PCC Aggregate Material meeting the requirements of 02690.20(a) through (d) and 02690.20(f).

**00596B.44(a)(1) Placement** - In the paragraph that begins " Place granular structure backfill with...", replace the first sentence with the following sentence:  
Place retaining wall granular backfill with each course of blocks.

**00596B.47(b)(2) Maximum Density and Optimum Moisture Content** - Replace this subsection, except for the subsection number and title, with the following:

Determine maximum density and optimum moisture content of the retaining wall granular backfill material according to AASHTO T 99 Standard Proctor Method A, with coarse particle correction according to ODOT TM 223.

**00596B.80 Measurement** – There will be no measurement of the wall quantities.

**00596B.90 Payment** – Add the following:

The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

<b>Pay Item</b>	<b>Unit of Measurement</b>
(d) Retaining Wall A, Segmental Block Wall	Lump Sum

Pay item includes all excavation, site prep, utility relocations, and granular back fill, and supplying all equipment, labor and materials for a complete installation of retaining walls A **including underpinning the porch foundation** as shown on the plans and as directed by the Engineer.

**SECTION 00596C - CAST-IN-PLACE CONCRETE RETAINING WALLS**

Comply with Section 00596C of the Standard Specifications modified as follows:

**00596C.00 Scope** – Add the following:

This work includes construction of the cast-in-place concrete retaining Wall B as shown on Sheet 8.1. This work also includes construction of 4' black vinyl fence along the top of the wall as shown.

**00596C.15 Architectural Treatments** – Furnish and install the following architectural treatments:

Ashlar Stone Form Liner - Provide one of the following, or approved equal:

Ashlar Stone pattern, as manufactured by Scott System, Inc., 10777 East 45th Ave., Denver, CO, 80239; ph: (303) 373-2500

Ashlar Stone, Parts A and B, Pattern 16986, as manufactured by Fitzgerald Form Liners, 1341 East Pomona Street, Santa Ana, CA, 92705; ph: (714) 547-6710

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

Form liners shall produce random Ashlar stone pattern, with stone sizes varying from 6 inch sides to 24 inch sides and having 1 1/2 inch of relief.

Add the following:

**00596C.16 Fence** – Provide fence materials meeting the requirements of 01050.

**00596C.80 Measurement** – Replace this subsection with the following:

There will be no measurement of quantities for cast-in-place concrete retaining walls

**00596C.90 Payment** – Replace this subsection with the following:

**00596C.90 Payment** - The accepted quantities of work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item	Unit of Measurement
(a) Retaining Wall ___ Cast in Place Concrete with Fence	Lump Sum

For (a) the wall location will be insert in the \_\_\_\_\_.

Payment will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for:

- excavation, shoring, and specified backfill
- wall drainage and filter systems
- concrete and reinforcement
- fence, fence post inserts, fence connections, or fence foundation grout

### SECTION 00610 – RECONDITIONING EXISTING ROADWAY

Comply with Section 00610 of the Standard Specifications.

### SECTION 00620 – COLD PLANE PAVEMENT REMOVAL

Comply with Section 00620 of the Standard Specifications modified as follows:

**00620.40(a) General** – Replace this subsection, except for the subsection number and title, with the following:

Remove the existing pavement to the depth, width, grade and cross section shown or as directed. The use of a heating device to soften the pavement is not allowed.



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Match Points: At all locations where the area to be cold planed abuts up to existing asphalt roadway, the contractor shall sawcut the asphalt equal to the depth of the cold plane at the match line prior to removal of existing pavement to provide a vertical surfaced, clean joint.

The contractor may need to chip out by hand areas adjacent to existing curbs and structures (i.e. manholes, catch basins, valve boxes, etc.) that are missed by grinding equipment or at transverse joints, as necessary to provide clean edges at the required depth.

**00620.43 Maintenance Under Traffic** – Replace this subsection, except for the subsection number and title, with the following:

Traffic will be allowed on the cold planed surface up to 5 Calendar Days after starting asphalt grinding work. Sweep and clean the cold planed surface before opening to traffic.

Contractor is to schedule the grind and pavement inlay work to prioritize paving half of the road at a time to minimize number of transverse joints.

Before beginning paving operations, make repairs to the existing cold planed surface as directed. Payment for the repairs will be made according to 00195.20.

**00620.90 Payment** – Add the following to this section.

Sawcutting required at match points defined in Section 00620.40(a) shall be considered incidental to payment. No additional payment will be made for removal or disposal of pavement fabric or for the “increased cost” of hauling grindings that include pavement fabric.

### SECTION 00641 – AGGREGATE SUBBASE, BASE, AND SHOULDERS

Comply with Section 00641 of the Standard Specifications modified as follows:

**00641.10 Materials** – Delete verbiage in this sub-section and replace with the following:

All aggregate used for leveling, repair, or any other purpose shall be 3/4”-0 crushed aggregate, per City of Happy Valley Engineering Design Manual (EDM) and Standard Detail Drawings (SDD).

### SECTION 00730 – EMULSIFIED ASPHALT TACK COAT

Comply with Section 00730 of the Standard Specifications.

**00730.90 Payment** – Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for emulsified asphalt tack coat.

### SECTION 00744 – ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

**00744.11(a) Asphalt Cement** – Add the following to the end of this subsection:

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Provide PG 64-22, level 3 HMAC/MWAC Pavement for this Project.

**00744.16 Sampling and Testing** – Replace this subsection, except for the subsection number and title, with the following:

For each 1,000 Tons of placement, have a CAT I perform a minimum of one of each of the following test methods as modified in the MFTP:

- Asphalt Content – AASHTO T 308 with ODOT TM 323 determined Calibration Factor
- Gradation – AASHTO T 30
- Mix Moisture – AASHTO T 329
- Maximum Specific Gravity – AASHTO T 209
- Field Compacted Gyratory Specimens – ODOT TM 326

When less than 1,000 Tons of mix is placed in a Day, perform a minimum of one series of tests per Day. Provide test results to the Engineer by the middle of the following work shift. The Engineer may waive the requirement for any of AASHTO T 308, AASHTO T 30, AASHTO T 329, and ODOT TM 326 on a daily basis. The Engineer may waive the requirement for AASHTO T 209 when less than 500 Tons of ACP is placed in a single work shift.

Provide samples or split samples to the Engineer when requested.

**00744.17 Acceptance** – Replace this subsection, except for the subsection number and title, with the following:

If the test result for each mix gradation constituent, asphalt content, and density measurement is within the specification limits, the material will be accepted. If the asphalt content, one or more gradation constituents, or the density measurement are not within the specification limits, the material that is not within the specification limits will be accepted according to 00150.25.

**00744.41 Mixing Temperature** – Replace the table with the following:

Type	Temperature, °F	
	Maximum at Mixer	Minimum Behind Paver
HMAC	350	240
WMAC	350	215

**00744.44(b) Drop-Offs** – Replace the bullet that begins “Provide warning signs and markings...” with the following bullet:

- Provide warning signs and markings according to Sections 00221, 00222, 00224 and 00225 where abrupt or sloped edge drop-offs greater than 1 inch in height occur.

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**00744.49 Compaction** – Replace the paragraph that begins “Determine compliance with...” with the following paragraph:

Determine compliance with density Specifications by random testing of the compacted surface with calibrated nuclear gauges. Determine the density by averaging QC tests performed by a CDT with the nuclear gauge operated in the backscatter mode according to AASHTO T 355 at one random location for each 100 Tons of asphalt concrete placed, but take no less than 10 tests each shift. Do not locate the center of a density test less than 1 foot from the Panel edge. Calculate MAMD according to ODOT TM 305. The Engineer may waive compaction testing requirements when less than 500 Tons of ACP is placed in a single work

### SECTION 00756 – PLAIN CONCRETE PAVEMENT

Comply with Section 00756 of the Standard Specifications modified as follows:

**00756.00 Scope** – Add the following:

This work will include the construction of the stamped concrete truck apron and stamped concrete medians as shown the plans.

**00756.10 Material** – Add the following:

The Concrete shall be integral colored concrete (Greystone or Similar) and shall be stamped concrete with an ashlar stone finish, or similar approved color and pattern.

The contractor must submit samples of selected color and stamp pattern as photos for City review and approval. The City reserves the right to change the color of the integral concrete and stamping pattern without impact to cost.

The stamped concrete shall be sealed with an approved sealer after it has time to cure.

**00756.90 Payment** – Add the following:

Pay Item	Unit of Measurement
(c) 6 inch Thick Stamped Concrete Surfacing	S.F.
(d) 6 inch Thick Stamped Reinforced Concrete Surfacing	S.F.

Payment for items (c) and (d) will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified. It includes providing the colored concrete and stamp pattern and application of a concrete sealer.

### SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

**00759.00 Scope** - Add the following:

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This work also includes furnishing, placing, and finishing Rapid Set concrete as required for construction of reinforced concrete driveways that need to be restored within 16 hours. Rapid Set concrete is required to achieve full strength within 8 hours of placement.

All driveways must be maintained to the Fire Station and Community Policing Building at all times. This will require driveways to be built in two stages for these properties. There will be a onetime 8-hour driveway closure on the Fire Station Driveway to pour the driveway. This must be coordinated with the Fire station a minimum of 7 days ahead of time and must be approved by the Engineer.

Add the following:

All work must meet the requirements of the American with Disabilities Act (ADA).

Add the following subsection:

**00759.01 Terminology** - According to 00110.05(a), for the purposes of this Contract, the terms "sidewalk ramp" and "sidewalk ramps" shall respectively refer to and shall be read to mean "curb ramp" and "curb ramps".

**00759.03(b) Curb Ramp Plan** - Replace the bullet that begins "Compliance with Working Drawings and details..." with the following bullet:

Comply with Working Drawings and details submitted under 00759.03(a)

**00759.10 Materials** - Add the following:

Furnish Rapid Set Concrete only where directed by the Engineer. Submit product for approval prior to placement. Rapid Set concrete is required to achieve full strength within 8 hours of placement.

**00759.11 Aggregate Base** - Add the following to the end of this subsection:

Aggregate base within the road section (i.e. under "Concrete Curb" or "Concrete Curb and Gutter") shall be 1"-0 and will be paid as "Aggregate Base" under 00641.90. See plans for depth requirements.

Crushed rock required under items outside of the road section (i.e. under sidewalks, driveways, etc.) shall be 3/4" – 0 and will be considered incidental to the appropriate bid item. See plans for depth requirements.

**00759.43 Foundation Preparation** - Add the following to the end of this subsection:

For medians, curbs for medians, or traffic separators constructed on existing asphalt surfaces, notify Engineer when forms are set to confirm lines and grades of structures. Do not begin placement of concrete until Engineer has reviewed and approved the layout and form grades.

**00759.90 Payment** – Add the following Pay Items:



**SECTION 00865 - LONGITUDINAL PAVEMENT MARKINGS - DURABLE**

Comply with Section 0865 of the Standard Specifications.

**SECTION 00867 - TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS**

Comply with Section 00867 of the Standard Specifications modified as follows:

**00867.90 Payment** - Add the following paragraph after the paragraph that begins "Item (p) includes one...":

Item (q) includes the bicycle and pedestrian shared use path pavement marking stencils.

**SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS**

Comply with Section 00905 of the Standard Specifications.

**SECTION 00940 - SIGNS**

Comply with Section 00940 of the Standard Specifications.

**SECTION 00930 - METAL SIGN SUPPORTS**

Comply with Section 00930 of the Standard Specifications modified as follows:

**00930.80 Measurement** - Add the following to the end of this subsection:

The estimated quantities of structural steel are as follows:

<b>Item</b>	<b>Estimated Quantity (Pound)</b>
<b>Minor Sign Supports</b>	
Perforated Steel Square Tube Anchor Sign Supports	650

**00930.90 Payment** - Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for the V-loc sign post anchor system.

**SECTION 00940 - SIGNS**

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

Comply with Section 00940 of the Standard Specifications modified as follows:

### **SECTION 00960 - COMMON PROVISIONS FOR ELECTRICAL SYSTEMS**

Replace Section 00960 of the Standard Specifications with the following:

**00960.01 Regulations, Standards, and Codes** – Add the following to the end of this subsection:

Provide and install an illumination system satisfying the requirements and standards of Portland General Electric (PGE) Option A. Comply with the requirements of the PGE Statement of Streetlight Installation Responsibilities, latest revision available at the time of advertisement.

**00960.10 Materials** - Furnish illumination system electrical materials that are listed on the PGE Approved Street Lighting Equipment list of the latest version available at the time of advertisement. The list is available at the following website:

[https://assets.ctfassets.net/416ywc1laqmd/4GOGrB2SbSruyf7SYCVz6n/169c11b0235499428a00bffd1172542/Approved\\_Materials\\_List.pdf](https://assets.ctfassets.net/416ywc1laqmd/4GOGrB2SbSruyf7SYCVz6n/169c11b0235499428a00bffd1172542/Approved_Materials_List.pdf)

**00960.30 Licensed Electricians** - Replace the paragraph that begins " According to the Oregon Administrative Rule ..." with the following paragraph:

According to the Oregon Administrative Rule 918-282-0120(1), no person or entity shall allow any individual to perform electrical work for which the individual is not properly registered or licensed. Every person who installs electrical systems on the Project shall submit a copy of their electrical license or apprentice registration to the Engineer prior to performing any Work. They must be licensed as an S or a J under Oregon Administrative Rule 918-282.

**00960.60 Maintenance, Operation and Power Costs** - The Agency will continue normal maintenance and operations of the existing systems including the furnishing of electrical energy. Do not use for construction purposes electrical energy billed to the Agency or other agencies.

**00960.70 Service Cabinet and Electrical Energy** – Replace this subsection, except for the subsection number and title, with the following:

Refer to Section 00150.50(f) for Utility contact information to arrange for Utilities to make electrical hookups:

Electrical energy is flat-rated. Meter base is not required.

Electrical energy costs will be billed to the Agency for permanent installations.

### **SECTION 00970 - HIGHWAY ILLUMINATION**

Replace Section 00970 of the Standard Specifications with the following:

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**00970.00 Scope** – This work includes the installation of street light conduit and street light foundations that could not be installed with a previous phase of construction that installed the conduits and junction boxes. In addition to requirements of Section 00960 install highway illumination according to the following Specifications:

**00970.01 Regulations, Standards, and Codes** - Provide and install PGE street lighting system satisfying the requirements and standards of Portland General Electric (PGE) Option A. Comply with the requirements of the PGE Statement of Streetlight Installation Responsibilities, latest revision available at the time of advertisement.

**00970.02 Materials** - The street lighting system will be installed under PGE Option A. Foundations will be provided by the Agency for the Contractor to install, see section 00160.30. Provide the materials to install the street light conduits, conduit bends, junction boxes, ground rods, and any other incidental work required for the installation of the street lights required for PGE Option A. Provide all trench excavation, bedding, and backfill for the installation of the street light conduits. Refer to the following website for PGE installation requirements:

<https://portlandgeneral.com/builders-new-construction/electric-service-requirements>

Furnish illumination system electrical materials that are listed on the PGE Approved Street Lighting Equipment list of the latest version available at the time of advertisement. The list is available at the following website:

[https://assets.ctfassets.net/416ywc1laqmd/4GOGrB2SbSruyf7SYCVz6n/169c11b0235499428a00bffb1172542/Approved\\_Materials\\_List.pdf](https://assets.ctfassets.net/416ywc1laqmd/4GOGrB2SbSruyf7SYCVz6n/169c11b0235499428a00bffb1172542/Approved_Materials_List.pdf)

**00970.40 Construction** - Install the conduit according to PGE requirements from the street light junction boxes or poles to the power source. The power source is considered the PGE electrical service point of connection.

Notify the Engineer at least 14 Calendar Days before underground work is constructed. The Contractor must receive the Engineer’s approval prior to covering underground work. After the Engineer has accepted the street underground system installed by the Contractor, PGE will install the street light poles, luminaire arms, and luminaires, and pull the cable and wires.

Field cutting of conduit bends is not allowed.

**00970.80 Measurement** - No measurement of quantities will be made for Work performed under this Section.

**00970.90 Payment** - The accepted quantities of Work performed under this Section will be paid for at the Contract unit price, per unit of measurement, for the following items

<b>Pay Item</b>	<b>Unit of Measurement</b>
(a) Pole Foundations .....	Each



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Item (a) includes installation of pre-cast foundations for lighting poles furnished by the Agency. The work includes extending the conduit to the foundation from the existing junction box, which is estimated to be less than 10 feet of conduit.

Payment will be payment in full for furnishing and placing all Materials, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

### SECTION 01040 - PLANTING

Comply with Section 01040 of the Standard Specifications modified as follows:

**001040.02 Definitions** - Add the following definition:

**Weed Free** - See 01030.02 for weed free definition

**01040.14 Topsoil** – Replace subsections (a), (b), and (c) with the following:

**(a) Topsoil** – Furnish medium compost meeting the requirements of Section 03020. Furnish soil meeting the following gradation requirements:

Sieve Size	Percent Passing (by Weight)
No. 4	100
No 10	95 - 100
No. 40	40 - 60
No. 100	10 - 25
No. 200	5 - 10

Sample soil according to AASHTO T 2. Determine sieve analysis according to AASHTO T 27 and AASHTO T 11.

Blend the medium compost and soil so that the mixture:

Is composed of between 20 percent and 25 percent medium compost material and between 75 percent and 80 percent soil material.

Has a pH between 5.5 and 8.0.

Does not have clumps greater than 3 inches in any direction.

**01040.15 Soil Conditioners** - Remove subsection (b) and replace with the following:

**(b) Commercially Manufactured Compost** - Commercially manufactured fine compost material meeting the requirements of Section 03020.

**01040.19(f) Plant Substitution** – Add the following to the end of this paragraph:

The Engineer reserves the right to modify tree or plant materials. The cost of changing materials will be limited to the price difference (credit or deduction) of the plant.

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**01040.22 Water** – Add the following:

**(c) Tree Bags** – Trees planted in non-irrigated areas, require placement of a tree watering bag, “TreeGator” or approved equal. Tree watering bags to be filled at least once a week, or as directed by product specifications.

Contractor will hand-water all plantings which are not served by underground irrigation systems. Trees in non-irrigated areas require placement of a “TreeGator” or approved equal tree watering bag. Tree watering bags to be re-filled at least once a week, or as directed by product specifications. All other vegetation to be hand-watered as required in 01040.49.

Provide moisture retention chemicals in all planter soils that are not irrigated for this Project.

**01040.48(a) Method “A” (Cultivated Planting Areas, Non-lawn)** – Modify as follows:

Delete the sentence beginning “Thoroughly mix 2 inches...” and replace with “Deliver Topsoil and Water Quality Mixture to the project, pre-blended to meet the specifications in 01040.14.

**01040.49 General Planting** - Add the following to the end of this subsection:

The following watering frequencies are required:

Plantings and seeded areas to be watered at a rate of one (1) inch per week.

**01040.80 Measurement** – Modify as follows:

Delete subsection (a). Soil Testing will be incidental to the bid items “Topsoil” and “Water Quality Mixture”.

Replace subsection (b) with the following:

**(b) Topsoil and Water Quality Mixture** – Topsoil and Water Quality Mixture will be measured on the volume basis, using neat line field measurements after material has settled. Place sufficient material as required to account for settlement.

Replace subsection (c) with the following:

**(c) Soil Conditioners** – There will be no measurement for soil conditioners.

Replace subsection (f) with the following:

**(f) Mulch** – Bark Mulch, 3 Inch Depth will be measured on the area basis at time of placement, using neat line field measurements.

**1040.90 Payment** – Modify as follows:

Delete subsection (a). Soil Testing will be incidental to the items “Topsoil” and “Water Quality Mixture”.

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**(b) Topsoil and Water Quality Mixture** – “Topsoil” and “Water Quality Mixture” will be paid at the Contract unit price per cubic yard.

**(c) Soil Conditioners** - Soil conditioner will be incidental to the payment for items paid under 1040.90 (b) Topsoil and Water Quality Mixture.

**(d) Plant Materials** – Modify as follows:

Delete the partial payment schedule. Payment for plants will be made in full after the time of original planting and after the City has accepted the plant material as healthy and properly planted.

**(f) Mulch** – Modify the following pay items:

<b>Pay Item</b>	<b>Unit of Measurement</b>
Bark Mulch, 3 Inch Depth	Square Yard

For the paragraph beginning “No separate or additional payment...”, add the following bullet:

- tree watering bags
- moisture retention chemicals

**SECTION 01065 – MONUMENT BOXES**

Section 01065, which is not in the Standard Specifications, is included for this project by Special Provision.

**01065.00 Scope** – This work shall consist of installing new monument frames and covers at the locations designated by the Engineer.

Adjustment of existing monument boxes to finish grade shall be considered incidental work.

There is a Section Corner at the Intersection of King and 129<sup>th</sup> Avenue that must be protected until Clackamas County Surveyors can survey it and adjust it. The Contractor shall protect the existing monument until the County adjust to grade. Coordinate with Engineer and County surveyor to ensure protection of the monument and the re-establishment of the monument.

**01065.10 Materials** - The monument frames and covers shall be in compliance with the Clackamas County Surveyor’s Office requirements as follows:

**8" inch frames and covers** - are typically acceptable for most local streets (subdivisions) with speeds of 35 miles per hour or less.

**East Jordan Iron Works, Inc.**  
13127 State Avenue  
Marysville, WA 98271

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

(360) 651-6144  
Fax (360) 651-6150

Anders Jorgenson  
Oregon Sales Representative  
(503) 774-4144  
Fax (503) 775-3263  
Cell (503) 367-7925  
[ajorgenson@ejiw.com](mailto:ajorgenson@ejiw.com)

- Product number 00368004 (fka 1036) for 8" Monument Frame and Cover
- Paving riser rings available

Additional vendor for 8" frames and covers:

**Olympic Foundry Inc.**  
6530 NE 42nd Avenue  
Portland, OR 97218  
503-281-3381  
503-284-5880 Fax

- Pattern No. M1010 for 8" Monument Frame and Cover
- Paving riser rings available

**12 " inch frames and covers** - are required for streets or County Roads of a higher speed classification (speeds over 35 miles per hour).

**East Jordan Iron Works, Inc.**  
13127 State Avenue  
Marysville, WA 98271  
(360) 651-6144  
Fax (360) 651-6150

Anders Jorgenson  
Oregon Sales Representative  
(503) 774-4144  
Fax (503) 775-3263  
Cell (503) 367-7925  
[ajorgenson@ejiw.com](mailto:ajorgenson@ejiw.com)

- Product No. 00367311 12" x 7-7/8" Monument Frame
- Product No. 00367323 Monument Cover with drop handle
- Paving riser rings available

**01065.40 Construction** - Set monument case just below the pavement finished surface (0.00 inch to ¼ inch) at the slope of the street surface.

For asphalt streets, contractor shall construct base lift paving before installing monument boxes. Upon completion of base lifts, contractor shall excavate and install monument boxes, filling the void spaces with commercial grade concrete. The contractor will then pave final lift around monument boxes. For concrete streets, monument boxes must be set and secured in place prior to concrete pour.

The location of the required monument boxes have not been indicated on the plans. The location of the required monument boxes will be determined during construction. A minimum of 5 days prior to placing the final lift of pavement, the contractor shall notify the engineer that they are ready for the monument boxes to be placed. The City or designated representative will mark the locations of the required monument boxes. At a minimum, the P.C.'s, P.T.'s, P.R.C.'s, P.C.C.'s, and tangents at a minimum of 1000 foot increments along the centerline will be marked.

**01065.80 Measurement** - The quantities to be paid for will be the actual number of monument boxes installed.

**01065.90 Payment** - Payment will be made at the contract unit price per each for the item "Monument Boxes". Payment will constitute full compensation to provide the monument boxes and furnish all materials, equipment, and labor required to set the monument boxes as specified.

**SECTION 01070 - MAILBOX SUPPORTS**

Comply with Section 01070 of the Standard Specifications.

**SECTION 01075 – MISCELLANEOUS PRIVATE PROPERTY ADJUSTMENTS**

Section 01075, which is not a Standard Specification, is included for this project by Special Provision. This section is intended to provide direction for specific private property improvements that are not covered under other Sections of the Standard Specifications or Special Provisions.

**01075.00 Scope** - The following work items shall be completed under this section and defined as follows:

- Private Property Improvements - Clackamas Fire District (Property 1)
  - Relocate existing monument sign including sign lighting and wiring. Contractor to take out electrical permit.
  - Relocate existing mailbox
  - Install concrete wheel stop.
  - Install concrete retaining wall
  - Install ADA parking stall signage, post, and post footing.
  - Install landscape boulders.

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- Relocate and/or adjust existing site lighting fixtures.
- Place 10 yards of dry river rock bed at base of slope (between PUE and grass lawn). The fire district will direct the Engineer on the location of this material to be placed as a final landscape item.

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### Private Property Improvements - Church (Property 3)

- Relocate existing monument sign.
- Relocate existing mailbox.
- Install concrete wheel stop.
- Install ADA parking stall signage, post, and post footing.
- Install wood railing matching existing porch stairway handrail at top of retaining wall.
- Install concrete stairs and handrail at main building entrance and courtyard entrance.
- Relocate Private Electrical Line and Irrigation required to construct Retaining Wall A (Note – Wall is paid separately under Section 00596B)

### Private Property Improvements - Church (Property 3) – Alternative Paving Work

- 2" Grind of drive aisle of Church Parking Lot – 60 Square Yards\*
- Level 2 ½ Inch Dense ACP Mixture – 84 Tons

\*Note: Confirm limits with Engineer.

### Private Property Improvements - Sunrise Water (Property 4)

- Relocate existing flagpole and base.

### Private Property Improvements – City Policing Center Sign Relocation

- Sign Relocation including electrical. Coordinate with City on new location.

**01075.80 Measurement** – No measurement of quantities will be made for work performed under this Section. No changes to measurement/payment will be made based on discrepancies of information presented here vs. actual. The contractor should inspect each property to determine their bid price for private property improvements work.

**01075.90 Payment** - Payment for each item listed in the bid schedule under this Section will be made on the Lump Sum basis. Payment will be payment in full for furnishing and placing all materials (including new materials), and for furnishing all equipment, labor, and incidentals necessary to complete the work, including permits, if necessary.

## SECTION 02001 - CONCRETE

Comply with Section 02001 of the Standard Specifications modified as follows:

### 02001.02 Abbreviations and Definitions:

Add the following definition:

**Lightweight Concrete** - Structural concrete having a specified density using lightweight Aggregates.

Replace the sentence that begins “**Pozzolans** - Fly ash, silica fume...” with the following sentence:

**Pozzolans** - Fly ash, natural Pozzolans, silica fume, and high-reactivity Pozzolans.

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Replace the sentence that begins “**Supplementary Cementitious Materials** - Fly ash, silica fume...” with the following sentence:

**Supplementary Cementitious Materials** - Pozzolans and ground granulated blast furnace slag.

**02001.15(a) Current Mix Designs** - Replace this subsection, except for the subsection number and title, with the following:

Mix designs that meet the requirements for the specified class of concrete and are currently being used or have been used within the past 24 months on any project, public or private, may be submitted for review. Provide individual test results that comprise the average if more than one data point exists. For paving designs the flexural strength testing must be from within the last two years. For HPC designs the length change and permeability tests must be from within the last two years.

**02001.15(b)(1) Trial Batch Plastic Properties** - Replace this subsection, except for the subsection number and title, with the following:

For each trial batch, test according to the following test methods:

Test	Test Method
Sampling Fresh Concrete	WAQTC TM 2
Concrete Temperature	AASHTO T 309
Slump	AASHTO T 119 <sup>1</sup>
Air Content	AASHTO T 152 or T 196 <sup>2</sup>
Density	AASHTO T 121
Yield	AASHTO T 121
Molding Concrete Specimens	AASHTO T 23 or R 39 <sup>3</sup>
Water Cement Ratio	<sup>4</sup>

- <sup>1</sup> For drilled shaft concrete test the slump retention by subsequent tests at half-hour intervals for the duration of the estimated drilled shaft placement, including temporary casing extraction. Report in table or graphical format.
- <sup>2</sup> Use AASHTO T 196 for lightweight concrete.
- <sup>3</sup> Cast cylinders in single use plastic molds.
- <sup>4</sup> Use ODOT's Field Operating Procedure for AASHTO T 121 in the MFTP.

### SECTION 02030 – SUPPLEMENTARY CEMENTITIOUS MATERIALS

Comply with Section 02030, of the Standard Specifications modified as follows:

**02030.00 Scope** - Replace this subsection, except for the subsection number and title, with the following:

This Section includes the requirements for fly ash, natural pozzolans, silica fume, ground granulated blast furnace slag and high reactivity pozzolans used in portland cement concrete.

**02030.10 Fly Ash** - Replace this subsection, except for the subsection number and title, with the following:



## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

Furnish Class C and Class F fly ash from the QPL and conforming to AASHTO M 295 (ASTM C618).

Add the following subsection:

**02030.15 Natural Pozzolans** - Furnish Class N natural pozzolans from the QPL and conforming to AASHTO M 295 (ASTM C618).

**02030.50 Metakaolin** - Replace this subsection with the following:

**02030.50 High Reactivity Pozzolans** - Furnish high-reactivity pozzolans from the QPL and conforming to AASHTO M 321.

### SECTION 02050 - CURING MATERIALS

Comply with Section 02050 of the Standard Specifications modified as follows:

**02050.10 Liquid Compounds** - Replace the paragraph that begins "Furnish liquid membrane-forming curing..." with the following paragraph:

Furnish liquid membrane-forming curing compounds from the QPL and meeting the requirements of ASTM C309. Before use, submit a one quart sample from each lot for testing. Samples will be tested according to ODOT TM 721. Samples are not required for curing compounds used on Commercial Grade Concrete.

### SECTION 02560 - FASTENERS

Comply with Section 02560 of the Standard Specifications modified as follows:

**02560.30(b) High Strength Tie Rods, Anchor Bolts and Anchor Rods** - Add the following paragraph to the end of this subsection:

End stamp all ASTM F1554, Grade 105 according to ASTM F1554 Supplementary Requirements S2 and S3. If the end of the bolt is to be embedded in concrete, the projecting end from the concrete shall be the marked end.

### SECTION 02910 - SIGN MATERIALS

Comply with Section 02910 of the Standard Specifications modified as follows:

**02910.33(a) General** - Replace this subsection, except for the subsection number and title, with the following:

Permanent legends consist of white retroreflective screened, red retroreflective screened, black screened or cut-out white retroreflective sheeting. The letters and numerals of all

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

permanent legends shall conform to the design of the FHWA Standard Rounded Capital Letter Alphabets.

Add following subsection:

**02910.50 Digitally Printed Signs, Temporary** - Temporary traffic control signs may use digitally printed signs from an integrated engineered match component system on the QPL and applied to furnished substrate according to 00222.10(b).

### SECTION 02690 - PCC AGGREGATES

Comply with Section 02690 of the Standard Specifications modified as follows:

**02690.20(e) Grading and Separation by Sizes for Prestressed Concrete** - Replace this subsection with the following subsection:

**02690.20(e) Grading and Separation by Sizes** - Sampling shall be according to AASHTO R 90. Sieve analysis shall be according to AASHTO T 27 and AASHTO T 11. Provide aggregates meeting the gradation requirements of Table 02690-1 for structural concrete. Provide a CAgT to perform sampling and testing when required.

**Table 02690-1**  
Gradation of Coarse Aggregates  
Percent passing (by Weight)

Size Number	Nominal Size Square Openings	Sieve Size											
		(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(⅜ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ⅜ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ⅜ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(⅜ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(⅜ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

\* Use two or more separated sizes which when combined meet these gradation limits.

\*\* See 02690.20(a). Do Not evaluate material passing the No. 200 sieve according to 00165.40.

**02690.20(f) Grading and Separation by Sizes for Other Concrete** - Delete this subsection.

## 129<sup>th</sup> Avenue & King Road Roundabout (CIP-07-24)

**02690.30(g) Grading** - In the paragraph that begins "Sampling shall be according to...", replace the words "AASHTO T 2" with the words "AASHTO R 90".

### SECTION 02910 - SIGN MATERIALS

Comply with Section 02910 of the Standard Specifications modified as follows:

**02910.33(a) General** - Replace this subsection, except for the subsection number and title, with the following:

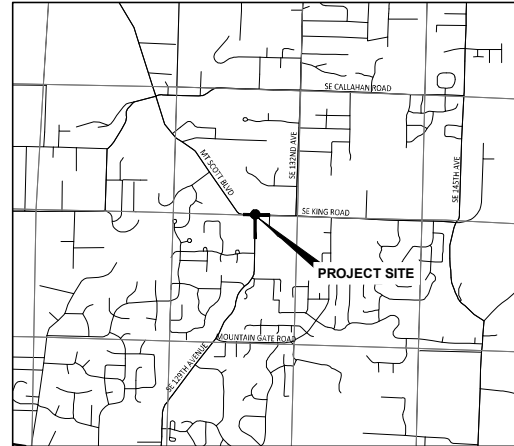
Permanent legends consist of white retroreflective screened, red retroreflective screened, black screened or cut-out white retroreflective sheeting. The letters and numerals of all permanent legends shall conform to the design of the FHWA Standard Rounded Capital Letter Alphabets.

Add following subsection:

**02910.50 Digitally Printed Signs, Temporary** - Temporary traffic control signs may use digitally printed signs from an integrated engineered match component system on the QPL and applied to furnished substrate according to 00222.10(b).

# 129TH AVE & KING RD ROUNDAABOUT IMPROVEMENTS

CIP-07-24  
HAPPY VALLEY, OREGON



VICINITY MAP  
NTS

### OWNER/DEVELOPER

CITY OF HAPPY VALLEY  
HAPPY VALLEY, OR 97086  
PHONE: (503) 886-8414  
CONTACT: SALLY CURRAN, PE

### ENGINEER

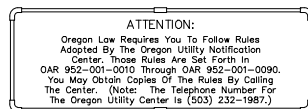
HARPER HOUF PETERSON RIGHELLIS INC.  
205 SE SPOKANE STREET, SUITE 200  
PORTLAND, OREGON 97202  
PHONE: (503) 221-1131  
CONTACT: BOBBY JACOBSON, PE  
EMAIL: ROBERTJ@HHPR.COM

### SITE INFORMATION

SE 129TH AVENUE & SE KING ROAD  
HAPPY VALLEY, OREGON  
CLACKAMAS COUNTY

### UTILITY CROSSINGS

NOTE: ALL UTILITY CROSSINGS ARE APPROXIMATE. CONTRACTOR TO POTHOLE AND FIELD DEPTH VERIFY PRIOR TO CONSTRUCTION AND CONSULT WITH THE ENGINEER REGARDING ANY CONFLICTS.



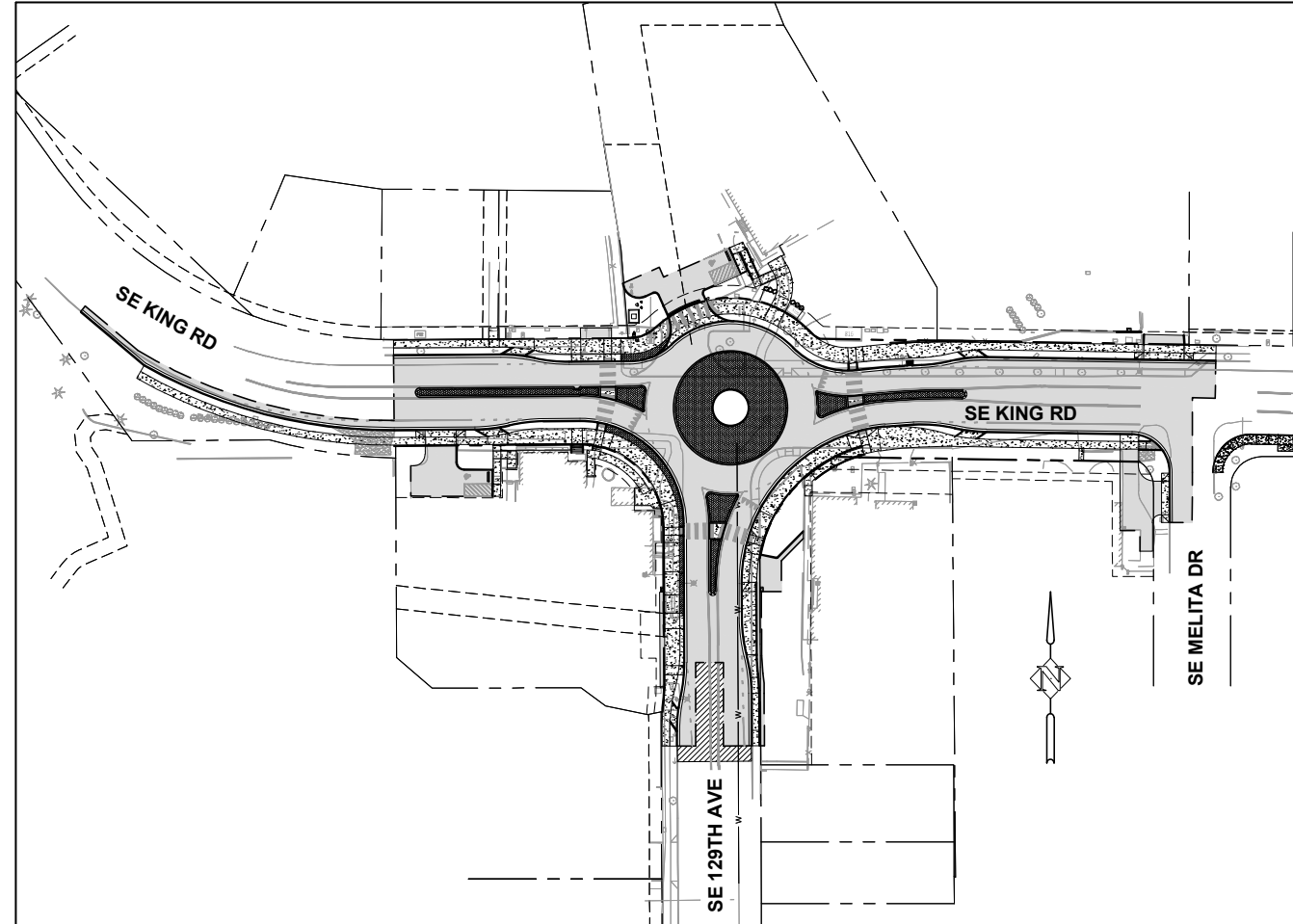
### SURVEY NOTES:

#### VERTICAL DATUM:

NAVD 88 PER GPS METHODS

#### HORIZONTAL DATUM:

LOCAL DATUM PLANE GROUND COORDINATES BASED ON THE OREGON COORDINATE REFERENCE SYSTEM - PORTLAND ZONE - INTERNATIONAL FEET. REFERENCE FRAME NAD 83 (2011)(EPOCH 2010.00)



SITE PLAN  
1" = 60'

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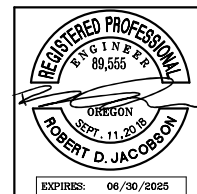


Know what's below.  
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DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**HHPR** 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

COVER SHEET  
**129TH AVE & KING RD ROUNDAABOUT**  
HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>1.0</b>
JOB NO.	HAP-14

P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-1.0-Cover\_Sheet.dwg

**CITY OF HAPPY VALLEY GENERAL NOTES:**

- ALL WORK AND MATERIAL SHALL CONFORM TO THESE PLANS AND THE APPLICABLE PROVISIONS OF THE CITY'S ENGINEERING DESIGN AND STANDARD DETAILS MANUAL (DESIGN MANUAL), LATEST EDITION, APWA/ODOT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION PHASES.
- AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS:
  - COPY OF THE CONTRACTOR'S CERTIFICATE OF INSURANCE
  - EMERGENCY CONTACT NAME AND PHONE NUMBER
  - TRAFFIC CONTROL PLAN
  - LIST OF SUBCONTRACTORS
- A COPY OF THE PERMIT WITH ALL ATTACHMENTS, A COPY OF THE APPROVED CONSTRUCTION PLANS, AND ALL AMENDMENTS SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. ALL WORK SHALL CONFORM TO THE PERMIT TERMS, CONDITIONS/PROVISIONS, APPROVED CONSTRUCTION PLANS, APPROVED PLAN AMENDMENTS, AND THESE GENERAL CONDITIONS. CHANGES TO ANY OF THE AFORESAID MUST BE APPROVED BY THE PROJECT ENGINEER AND CITY, IN ADVANCE OF WORK PERFORMANCE.
- THE CONTRACTOR SHALL HAVE A CURRENT HAPPY VALLEY BUSINESS LICENSE BEFORE STARTING CONSTRUCTION.
- A SIGN SHALL BE POSTED CONSPICUOUSLY AT THE JOB SITE ENTRANCE PRIOR TO SITE CONSTRUCTION, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. USE 2-INCH HIGH BLACK LETTERS ON AN ORANGE BACKGROUND. THIS SIGN SHALL READ AS FOLLOWS: "CONSTRUCTION SHALL BE LIMITED TO 7:00 AM TO 6:00 PM ON WEEKDAYS, AND 8:00AM TO 5:00PM ON SATURDAYS AND SUNDAYS. HOWEVER, SITE CLEARING, EARTH MOVING, INSTALLATION OR CONSTRUCTION OF UNDERGROUND UTILITIES, PAVING OF STREETS AND SIDEWALKS, FOUNDATION FRAMING AND POURING, AND STRUCTURAL FRAMING SHALL BE ENTIRELY PROHIBITED ON SUNDAYS. TO REPORT VIOLATIONS CALL 503-783-3800."
- ALL FENCING, ESC MEASURES, AND GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED BY THE DEVELOPER AND INSPECTED BY THE CITY OF HAPPY VALLEY PRIOR TO BEGINNING WORK ON THE SITE. EMAIL FOR INSPECTION 24 HOURS IN ADVANCE, INSPECT-ENGINEERING@HAPPYVALLEYOR.GOV.
- MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION, FREE FROM OBSTRUCTIONS, HAZARDS, DEBRIS, AND TRASH AT ALL TIMES. A COPY OF THE CONTRACTOR CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.
- THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY PUBLIC ROADWAY IS STRICTLY PROHIBITED AND VIOLATION SHALL BE CAUSE FOR IMMEDIATE SUSPENSION OF THE PERMIT. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER IMMEDIATE CLEAN UP AND STOPPAGE OF WORK TO ACCOMPLISH CLEAN-UP.
- ALL CONSTRUCTION SITES SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION AT ALL TIMES. CONSTRUCTION DEBRIS, INCLUDING FOOD AND DRINK WASTE, SHALL BE RESTRICTED FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF PROPER DISPOSAL CONTAINERS OR CONSTRUCTION FENCING ENCLOSURES. FAILURE TO COMPLY WITH THIS CONDITION MAY RESULT IN A "STOP WORK" ORDER UNTIL DEFICIENCIES HAVE BEEN CORRECTED TO THE SATISFACTION OF THE CITY.
- DUST SHALL BE CONTROLLED WITHIN THE DEVELOPMENT DURING CONSTRUCTION AND SHALL NOT BE PERMITTED TO DRIFT ONTO ADJACENT PROPERTIES.
- CONTRACTOR SHALL MONITOR THE HAULING OF DEBRIS TO ENSURE THAT ALL SPILLAGE FROM TRUCKS IS PROMPTLY AND COMPLETELY REMOVED AND CLEANED UP.
- ALL CONSTRUCTION TRUCKS SHALL PERFORM TRANSFER OF TRAILERS ON-SITE. SURROUNDING PUBLIC STREETS SHALL NOT BE USED AS A STAGING AREA FOR DUMP TRUCKS WITH TRANSFER TRAILERS WITHOUT AN APPROVED RIGHT-OF-WAY PERMIT FROM THE CITY OF HAPPY VALLEY.
- THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), "OREGON SUPPLEMENTS", AND CITY REQUIREMENTS. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN LOCAL ACCESS FOR OWNERS NEAR THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE A PROJECT-SPECIFIC TRAFFIC CONTROL PLAN, APPROVED BY THE CITY, AND AVAILABLE ON THE PROJECT SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TIMELY NOTIFICATION OF TRAFFIC FLOW DISRUPTIONS TO AREA-WIDE EMERGENCY SERVICES AND THE SCHOOL DISTRICT. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- TRAFFIC CONTROL DEVICES, FLAG PERSONS, ETC., SHALL BE IN PLACE PRIOR TO INITIATION OF CONSTRUCTION WORK AND SHALL BE EFFECTIVELY MAINTAINED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO ANY WORK WITHIN EXISTING RIGHT-OF-WAY.
- PUBLIC ROADWAYS SHALL NOT BE CLOSED TO TRAFFIC, AT ANY TIME, WITHOUT HAVING FIRST OBTAINED A STREET CLOSURE PERMIT FROM THE CITY.
- COMPACTION TESTING IS THE RESPONSIBILITY OF THE DEVELOPER. PROVIDE THE CITY WITH COPIES OF THE TEST RESULTS ON BASE ROCK AND ASPHALT. SCHEDULE PROOF ROLLS WITH THE CITY AT LEAST 48 HOURS IN ADVANCE.
- CONTRACTOR MUST VERIFY ALL EXISTING UTILITIES FOR BOTH VERTICAL ELEVATION AND HORIZONTAL LOCATION PRIOR TO START OF WORK (POTHOLE BEFORE DIGGING IF NECESSARY). CONTRACTOR SHALL COORDINATE THE WORK WITH APPLICABLE AGENCIES.
- TRENCHES WITHIN RIGHTS-OF-WAY, PAVEMENT, OR CONCRETE AREAS SHALL BE BACKFILLED WITH APPROVED CRUSHED ROCK (DRAWING NO. 205) OR CDF (DRAWING NO. 210), AND AS SPECIFIED ON THESE PLANS. TRENCHES OUTSIDE OF THE PAVED OR CONCRETE AREAS MAY BE BACKFILLED WITH NATIVE CLASS A MATERIAL PER DRAWING NO. 205.
- THE CONTRACTOR SHALL MAINTAIN BENCHMARKS, PROPERTY CORNERS, AND MONUMENTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES, THEY SHALL BE REPLACED IN ACCORDANCE WITH ORS 209 BY EMPLOYING A PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE CITY TWENTY-FOUR (24) HOURS PRIOR TO ANY PROOF ROLL, CONCRETE FORM INSPECTION, AND PAVING.
- PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED. GRASS, SHRUBS, FLOWERS, BARK DUST, EXISTING SIGNS, PAVEMENT MARKINGS, MAILBOXES, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED OR REPLACED, WITH LIKE KIND AND MATERIAL.
- EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- TRENCHES WILL NOT BE ALLOWED TO REMAIN OPEN OVERNIGHT. A TEMPORARY HARD-SURFACE PATCH (HOT MIX BASE PAVING) OR STEEL PLATES SECURED WITH PINS AND COLD MIX RAMPS SHALL BE PLACED ON TRENCHES WITHIN EXISTING ROADWAYS AT THE END OF EACH DAY'S WORK. NO TRENCH, ON-SITE OR OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM THE PROSECUTION OF THE WORK.
- WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MAY BE NECESSARY, IN THE CITY'S OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZED BY THE PERMIT. CORRECTIVE WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- POWER, TELEPHONE, GAS, AND CABLE TELEVISION TRENCHING AND CONDUITS ARE TO BE INSTALLED PER UTILITY COMPANY REQUIREMENTS. VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION.
- UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL UTILITY COMPANY HAS APPROVED THE CUT OR DISRUPTION.
- ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION.
- NOTIFY THE UTILITY COMPANY IMMEDIATELY OF ALL UTILITIES EXPOSED. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE NEW PUBLIC RIGHT-OF-WAY, UNDER THE NEW ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS.

**GENERAL NOTES CONTINUED:**

- IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES, AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE.
- SAWCUT STRAIGHT MATCH LINES WHERE EXISTING PAVEMENT MEETS NEW PAVEMENT. SAND AND SEAL JOINT (TYPICAL).
- CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS.
- ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING.
- WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAWCUT AND REMOVED AT A TOOLED JOINT UNLESS OTHERWISE AUTHORIZED BY THE OWNER'S REPRESENTATIVE. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. ALL REPAIRS SHALL USE NEW MATERIAL. REPAIRS SHALL RESTORE THE DAMAGED ITEM TO THE PRE-EXISTING CONDITION OR BETTER. SUCH REPAIRS SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
- SETTLEMENT OR CRACKING OF FINISHED SURFACES WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A FAILURE OF THE SUBGRADE, AND REPAIRED IN A MANNER ACCEPTABLE TO AND AT NO COST TO THE CITY OR DEVELOPER.
- PRIOR TO FINAL PROJECT ACCEPTANCE, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THIS CONTRACT.

**SUNRISE WATER AUTHORITY SPECIFICATIONS:**

- WATER LINE/SERVICE SPECIFICATIONS & INFORMATION FOR WATER SYSTEM CONSTRUCTION IN SUNRISE WATER AUTHORITY WATER MAINS SHALL BE DUCTILE IRON PIPE CONFORMING TO AWWA C151. PIPE IS TO HAVE CEMENT MORTAR LINING AND BITUMINOUS SEAL COAT CONFORMING TO AWWA C104. JOINTS ARE TO BE TYTON JOINT. (6-INCH TO 8- INCH PIPE IS TO BE CLASS 52; 12-INCH AND UP SHALL BE CLASS 52, UNLESS SPECIFIED BY THE AUTHORITY.) PIPE FITTINGS ARE TO BE CAST IRON, OR DUCTILE IRON, CONFORMING TO AWWA C110 OR C153. PIPE IS TO BE LAID SUCH THAT IT IS SUPPORTED ALONG ITS FULL LENGTH, INCLUDING DIGGING OF "BELL HOLES".
- WATER MAIN IS TO HAVE A MINIMUM COVER OF 42-INCHES.
- AN APPROVED MECHANICAL RESTRAINT SYSTEM IS TO BE USED AT ALL BRANCHES AND CHANGES IN DIRECTION.
- GATE VALVES (6-INCH THROUGH 12-INCH) SHALL BE RESILIENT-SEATED TYPE CONFORMING TO AWWA C509. BUTTERFLY VALVES 18-INCH AND LARGER SHALL BE CLASS 150 SHORT BODY TYPE IN CONFORMANCE WITH AWWA C504. WHERE WATER SYSTEM STATIC PRESSURES EXCEED 100 PSI, BUTTERFLY VALVES SHALL BE CLASS 250B, SHORT BODY TYPE IN CONFORMANCE WITH AWWA C504. VALVE BOXES SHALL BE VANCOUVER 910/18-INCHES LONG WITH 6-INCH P.V.C. 3034 AS BOTTOM SECTION. VALVE BOXES THAT ARE LOCATED OUTSIDE AREAS TO BE PAVED SHALL HAVE A 2' X 2' X 2' THICK COLLAR OF HOT ASPHALT PLACED AROUND THEM. WHERE THE TOP OF THE VALVE OPERATING NUT IS 48-INCHES OR MORE BELOW FINISH GRADE, OPERATING EXTENSIONS SHALL BE PROVIDED TO BRING THE OPERATING NUT TO A POINT 18-INCHES BELOW FINISH GRADE. THE EXTENSION STEM SHALL BE CONSTRUCTED OF STEEL.
- FIRE HYDRANTS SHALL BE MUELLER CENTURION, M&H 929 RELIANT, CLOW F-2500 OR KENNEDY GUARDIAN WITH 6-INCH MJ INLET AND 5-1/4 INCH VALVE OPENING. FIRE HYDRANTS ARE TO HAVE A 4-1/2 INCH AND TWO 2-1/2 INCH OUTLETS. PUMPER OUTLET TO FACE THE DIRECTION OF ACCESS.
- TAPPING SLEEVES SHALL BE EITHER EPOXY-COATED STEEL WITH STAINLESS STEEL BOLTS OR STAINLESS STEEL FULL CIRCLE TAPPING SLEEVE.
- GRANULAR MATERIAL USED FOR PIPE BASE, PIPE ZONE AND TRENCH BACKFILL SHALL BE 3/4" – 0" CRUSHED ROCK. PIPE BASE SHALL BE A MINIMUM OF 4-INCHES DEEP AT THE PIPE BARREL, AND NOT LESS THAN 3-INCHES DEEP AT THE BELL. GRANULAR BACKFILL IS TO BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T99 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED TO 85% OF IN-PLACE DENSITY OF SURROUNDING SOIL. BACKFILL WITHIN RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH APWA CLASS B BACKFILL.
- SERVICE LATERALS 1-INCH OR SMALLER SHALL BE TYPE K COPPER, SOFT. LATERAL SIZES SHALL BE 1-INCH FOR LINES THAT WILL SERVE TWO LOTS AND 3/4-INCH FOR LINES SERVING ONE LOT. CORPORATION STOPS, ANGLE CURB STOPS, AND SERVICE TEES SHALL BE:

	CORPORATION STOPS	ANGLE CURB STOPS	SERVICE TEES
MUELLER (BALL STYLE)	B-25008	B-24258	H-15381
FORD (BALL STYLE)	FB-10003Q	BA-43-332WQ	T444-333Q

- SPLIT 1-INCH LINES INTO TWO 3/4-INCH LINES BEHIND CURB LINE. PLACE CURB STOPS 9-INCHES BACK OF CURB LINE AND 9-INCHES BELOW CURB LINE WITH 48-INCHES SEPARATION ON DOUBLES. PLACE BROOK'S PRODUCT METER BOX ITEM #WB132312BM WITH POLYMER COVER #WC1323SCM AND READER LID #WL0611LIDM OVER THE CURB STOP AS PER WATER METER BOX DETAIL.
- INSPECTION OF THE WATER IMPROVEMENTS WILL BE MADE BY SUNRISE WATER AUTHORITY PERSONNEL OR OTHERS DESIGNATED BY THE AUTHORITY. THE PRESSURE TEST IS TO BE MADE AFTER ALL SERVICES ARE INSTALLED, CURBS ARE IN, AND ROAD BASE ROCK IS PLACED. TEST PRESSURE SHALL BE 1.5 TIMES STATIC LINE PRESSURE (MINIMUM 150PSI) AT THE LOWEST POINT IN THE SYSTEM BEING TESTED; 30 MINUTES DURATION; NO PRESSURE LOSS.
- ALL MATERIALS, INSTALLATIONS, TESTS, AND CHLORINATION ARE TO BE IN ACCORDANCE WITH THE STANDARDS AND CODES OF THE SUNRISE WATER AUTHORITY AND THE OREGON ADMINISTRATIVE RULES, CHAPTER 333, DIVISION 061.
- THE CONTRACTOR SHALL PROVIDE SUNRISE WATER AUTHORITY WITH CERTIFICATE OF INSURANCE AND WILL HAVE TO BE QUALIFIED BY THE WATER AUTHORITY, IF NOT ALREADY SO, TO DO WORK ON THE WATER SYSTEM. THE DEVELOPER SHALL PROVIDE SUNRISE WATER AUTHORITY WITH A 12-MONTH MAINTENANCE BOND, AN IRREVOCABLE LETTER OF CREDIT, OR AN ASSIGNMENT OF FUNDS, IN THE AMOUNT OF 25% OF THE COST OF THE WATER SYSTEM IMPROVEMENTS.
- WHERE SANITARY LINES CROSS WATER LINES, THE SYSTEMS NEED TO BE CONSTRUCTED SUCH THAT THE CROSSING WILL OCCUR AT THE CENTER OF A PIPE SEGMENT FOR BOTH LINES.
- PVC RE-USE WATER LINES WILL BE INSTALLED USING C-900 DR18 PURPLE PIPE WITH DUCTILE IRON FITTINGS. A TRACER WIRE, 12 GAUGE COPPERHEAD OR EQUIVALENT, MUST BE INSTALLED WITH PVC RE-USE WATER LINES. RE-USE IDENTIFICATION TAPE MUST BE INSTALLED ONE FOOT ABOVE RE-USE WATER LINES.

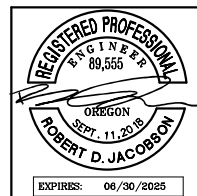
**CITY OF HAPPY VALLEY UTILITY NOTES:**

- ALL PUBLIC UTILITIES ASSOCIATED WITH OR ADJACENT TO A SUBDIVISION, PUD, MULTI-FAMILY, LAND PARTITION, ROAD IMPROVEMENT OR NONRESIDENTIAL CONSTRUCTION PROJECT, SHALL BE PLACED UNDERGROUND. FRANCHISE UTILITY CONSTRUCTION IS INCLUDED IN THE RIGHT-OF-WAY PERMIT THESE PROJECTS. THE OWNER, OR THE OWNER'S REPRESENTATIVE, IS RESPONSIBLE FOR COORDINATING WITH THE INDIVIDUAL UTILITIES AND FOR CONSTRUCTING IMPROVEMENTS PER THE APPROVED CONSTRUCTION PLANS.
- UTILITY LINES, VAULTS AND PEDESTALS SHALL BE PLACED IN THE 8' PUBLIC UTILITY EASEMENT (PUE) BEHIND THE RIGHT-OF-WAY AND SHALL BE JOINT TRENCH WHENEVER POSSIBLE. AN APPROVED RIGHT-OF-WAY PERMIT IS REQUIRED FOR ALL INSTALLATIONS.
- ON ALL PHASED (INTERIM) ROAD IMPROVEMENTS, THE NECESSARY UTILITIES SHALL BE STUBBED ACROSS THE INTERIM IMPROVEMENT TO ASSURE STREET CUTS ARE NOT NECESSARY WHEN THE ROAD IS EXPANDED TO ITS FULL WIDTH.
- UNDERGROUND UTILITIES BEING CONSTRUCTED ALONG EXISTING PAVED STREETS SHALL NOT BE LOCATED UNDER THE EXISTING PAVEMENT UNLESS APPROVED BY THE CITY ENGINEER.
- THE MINIMUM DEPTH OF UTILITIES ON IMPROVED ROADS SHALL BE THIRTY (30) INCHES AS MEASURED FROM FINISHED GRADE TO TOP OF UTILITY. ON UNIMPROVED ROADS, THE MINIMUM DEPTH SHALL BE FORTY (40) INCHES.
- SERVICE CROSSINGS SHALL MAINTAIN THE SAME DEPTH AS THE MAIN PIPELINE OR BURIED CABLE TO A POINT TWO FEET BEHIND THE CURB OR CENTER OF THE ROAD OR DITCH. IN NO CASE SHALL THERE BE LESS THAN ONE FOOT OF COVER FROM THE BOTTOM OF THE CURB OR DITCH TO THE TOP OF THE SERVICE LINE.
- UTILITY MAINTENANCE WORK OR NEW FACILITY INSTALLATIONS THAT WILL BE INSTALLED UNDER THE PAVEMENT IN EXISTING RIGHTS-OF-WAY MUST BE BORED RATHER THAN OPEN CUT. UTILITY VAULTS SHALL BE PLACED OUTSIDE THE PAVEMENT LIMITS.
- STREET CROSSINGS SHALL BE INSTALLED AT A 90-DEGREE ANGLE TO THE PUBLIC RIGHT-OF-WAY.
- ANY BORE PITS THAT ARE REQUIRED IN THE PAVEMENT FOR CONNECTION PURPOSES MUST BE T-CUT IN ACCORDANCE WITH THE CITY'S STANDARD DRAWING 200.
- ALL EXCAVATIONS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH CRUSHED ROCK IN ACCORDANCE WITH THE CITY'S STANDARD DRAWING 205, WITH THE EXCEPTION OF EXCAVATIONS IN COLLECTOR OR ARTERIAL FACILITIES, WHICH SHALL BE BACKFILLED WITH CONTROL DENSITY FILL (CDF) IN ACCORDANCE WITH THE CITY'S STANDARD DRAWING 210.
- TEMPORARY TRENCH PATCHES SHALL BE MADE USING HOT MIX ASPHALT.
- STEEL PLATES WILL NOT BE ALLOWED TO COVER EXCAVATIONS IN THE TRAVELED WAY DURING THE MONTHS OF JANUARY THROUGH APRIL, NOVEMBER, AND DECEMBER. ALL EXCAVATIONS DURING THESE RESTRICTED MONTHS SHALL BE BACKFILLED AND PATCHED TEMPORARILY WITH HOT MIX ASPHALT UNTIL THE FINAL PAVEMENT RESTORATION OCCURS.
- THE EXTENT OF THE PLACEMENT REPAIR SHALL BE DETERMINED BY THE CITY ENGINEER ON A CASE BY CASE BASIS. FOR EXAMPLE, IF THE UTILITY EXCAVATION IS WITHIN 5 FEET OF AN EXISTING TRENCH PATCH, THE PAVEMENT REMOVAL AND REPLACEMENT WILL NEED TO BE EXTENDED TO INCLUDE THESE AREAS. ADJACENT AREAS OF EXISTING PAVEMENT DISTRESS WILL ALSO NEED TO BE REMOVED AND REPLACED AS DETERMINED BY THE CITY ENGINEER.
- IF UTILITY WORK REQUIRES THE REMOVAL OF AN EXISTING SIDEWALK OR DRIVEWAY, THE AFFECTED CONCRETE PANELS WILL NEED TO BE REPLACED IN THEIR ENTIRETY.
- UTILITY WORK IS NOT ALLOWED ON WEEKENDS. IN THE EVENT OF AN EMERGENCY, A TESTING FIRM MUST BE PRESENT DURING BACKFILLING OPERATIONS TO CONFIRM THAT COMPACTION OF THE BACKFILL WAS PERFORMED IN ACCORDANCE WITH CITY SPECIFICATIONS.

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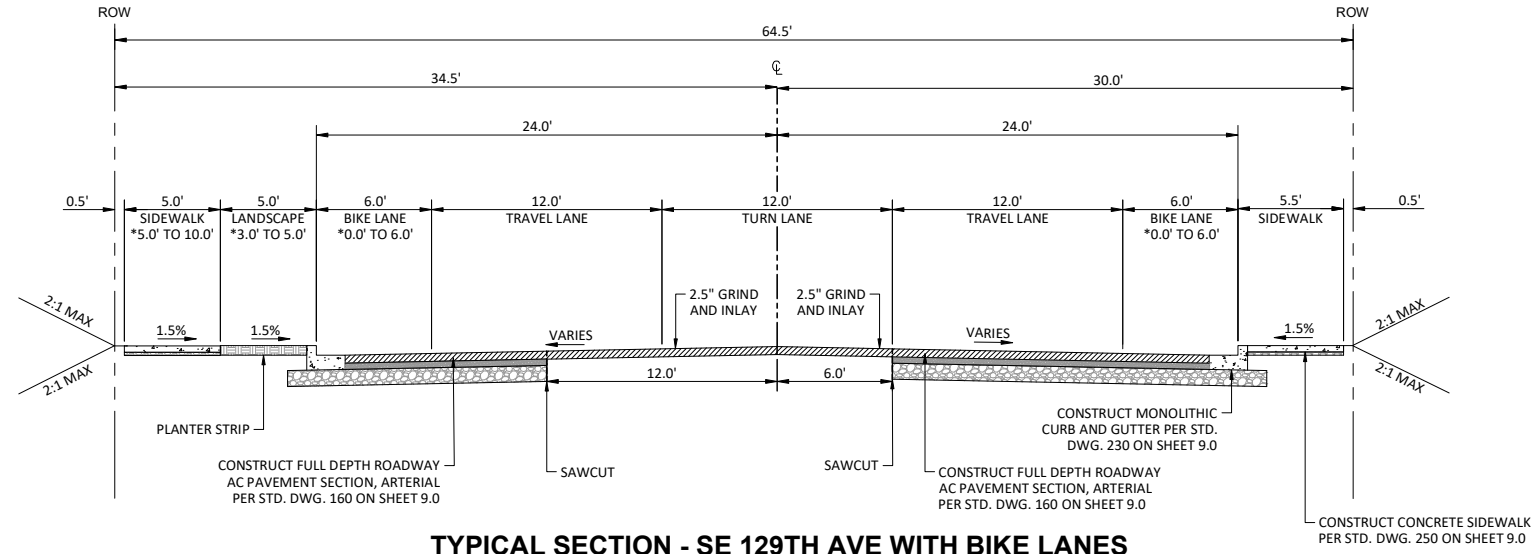


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GENERAL NOTES  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

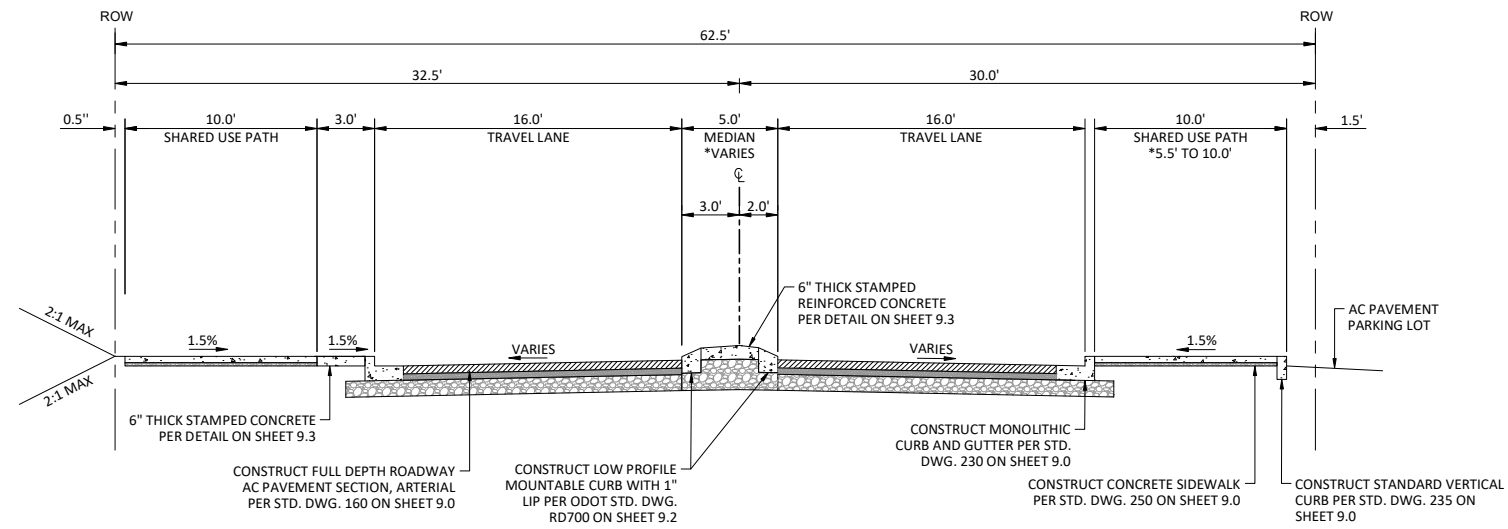
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**TYPICAL SECTION - SE 129TH AVE WITH BIKE LANES**

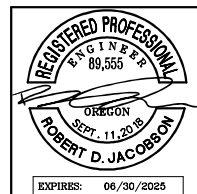
SEE GEOMETRY PLANS FOR LIMITS  
\*SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS



**TYPICAL SECTION - SE 129TH AVE WITH SHARED USE PATH**

SEE GEOMETRY PLANS FOR LIMITS  
\*SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS

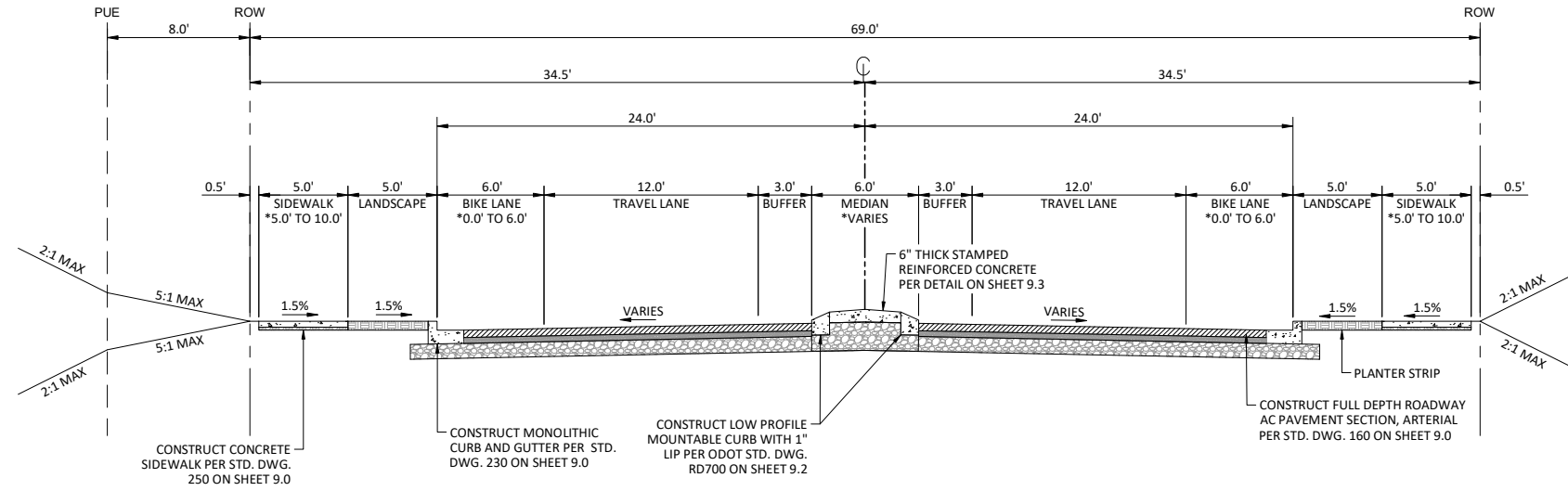
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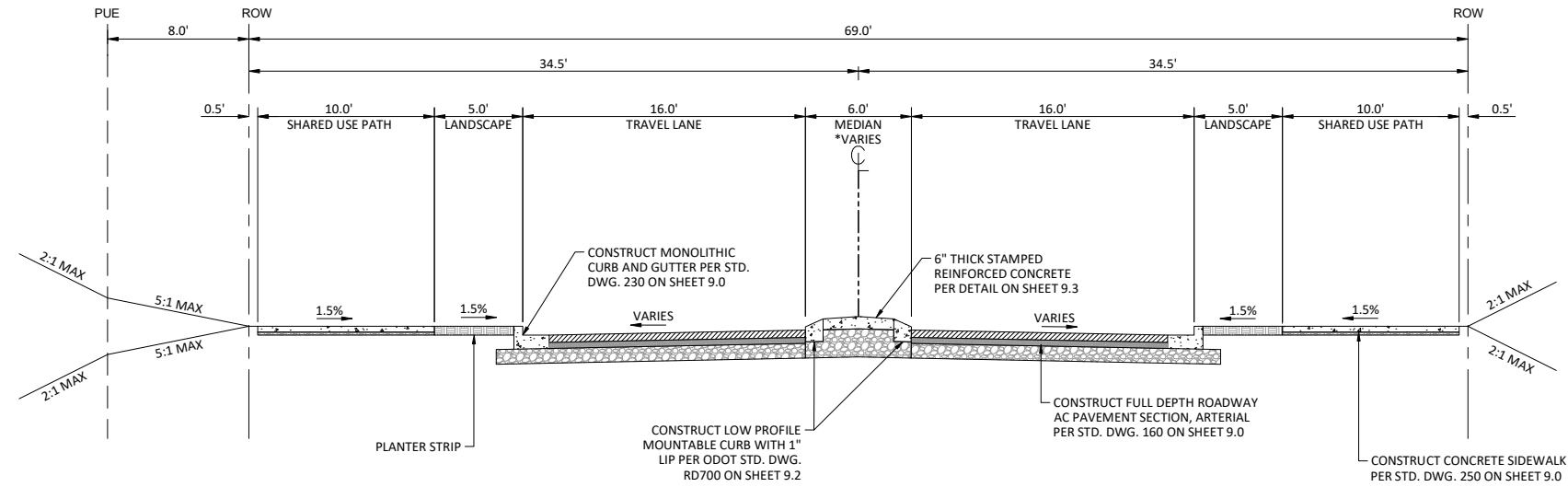
TYPICAL SECTIONS  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

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JOB NO.	HAP-14



**TYPICAL SECTION - SE KING ROAD WITH BIKE LANES (WEST LEG)**

SEE GEOMETRY PLANS FOR LIMITS  
\*SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS



**TYPICAL SECTION - SE KING ROAD WITH SHARED USE PATH (WEST LEG)**

SEE GEOMETRY PLANS FOR LIMITS  
\*SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS

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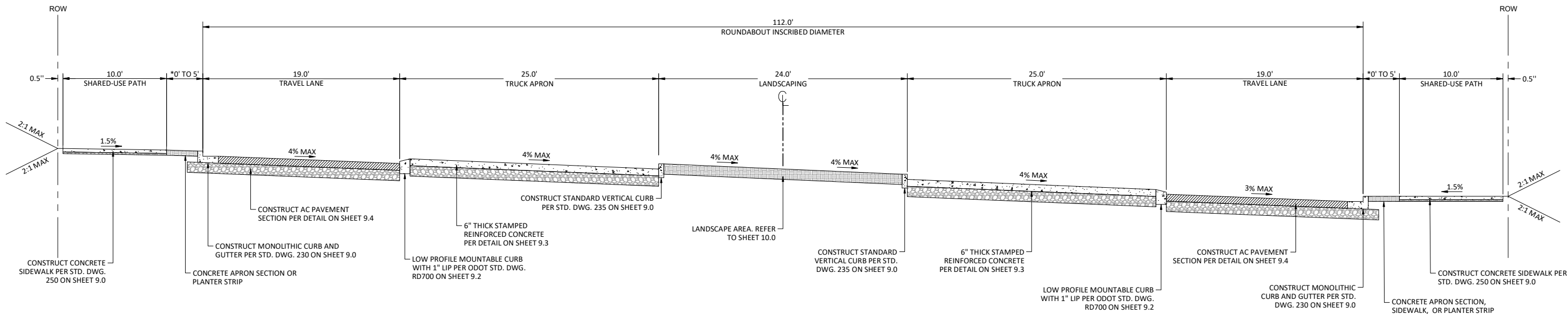
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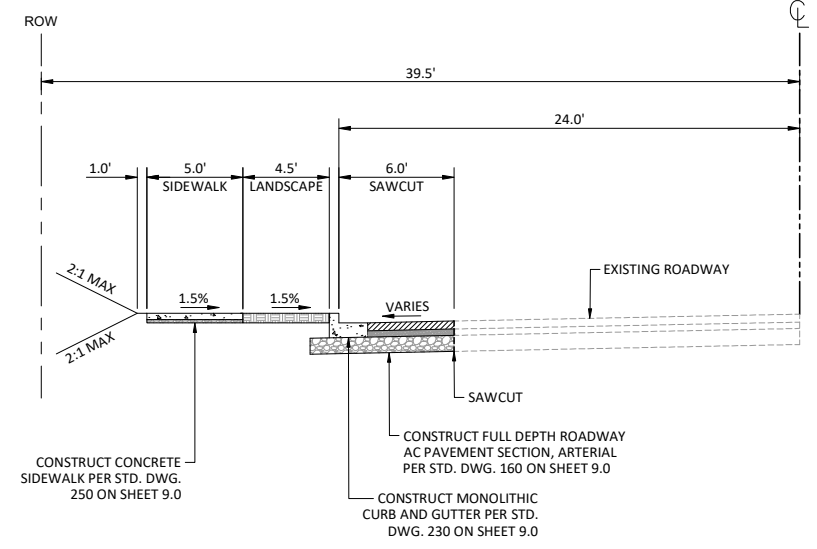
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**TYPICAL SECTION - ROUNDABOUT**

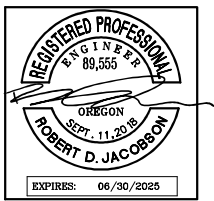
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\* SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS



**TYPICAL SECTION - MITCHELL PARK FRONTAGE**

SEE GEOMETRY PLANS FOR LIMITS  
\* SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS

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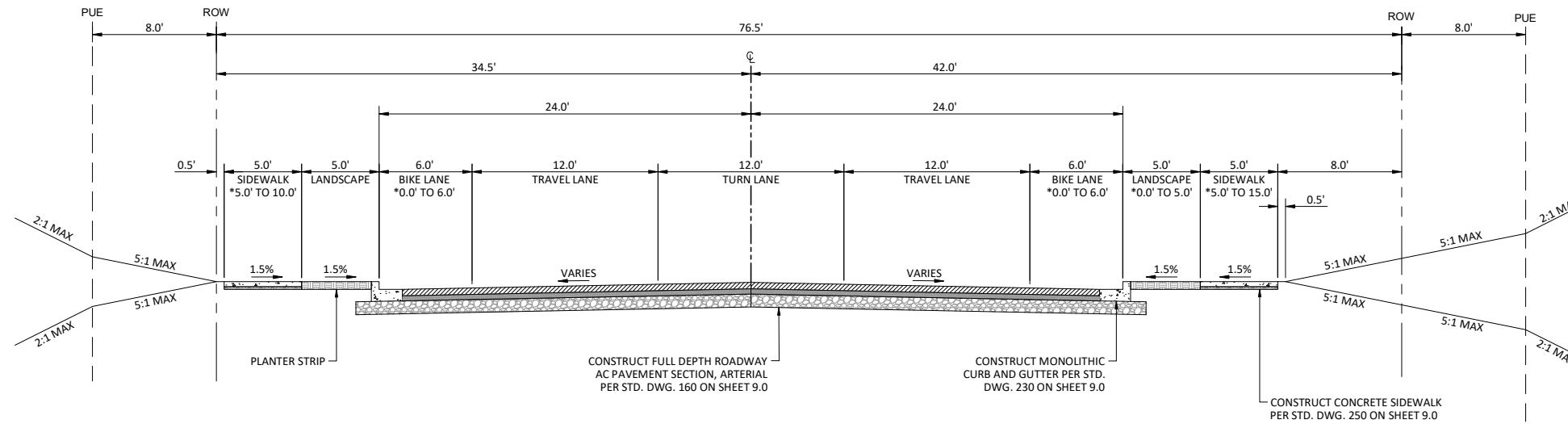


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TYPICAL SECTIONS  
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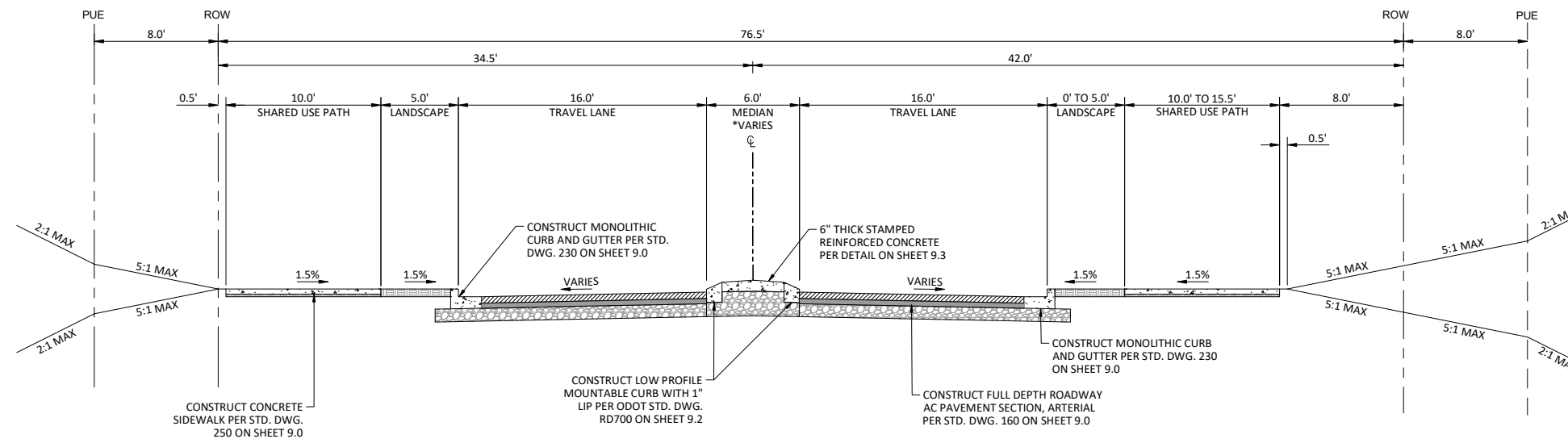
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JOB NO.	HAP-14





**TYPICAL SECTION - SE KING ROAD WITH BIKE LANES (EAST LEG)**

SEE GEOMETRY PLANS FOR LIMITS  
 \* SEE GEOMETRY PLANS FOR WIDTH TRANSITIONS



**TYPICAL SECTION - SE KING ROAD WITH SHARED USE PATH (EAST LEG)**

SEE GEOMETRY PLANS FOR LIMITS  
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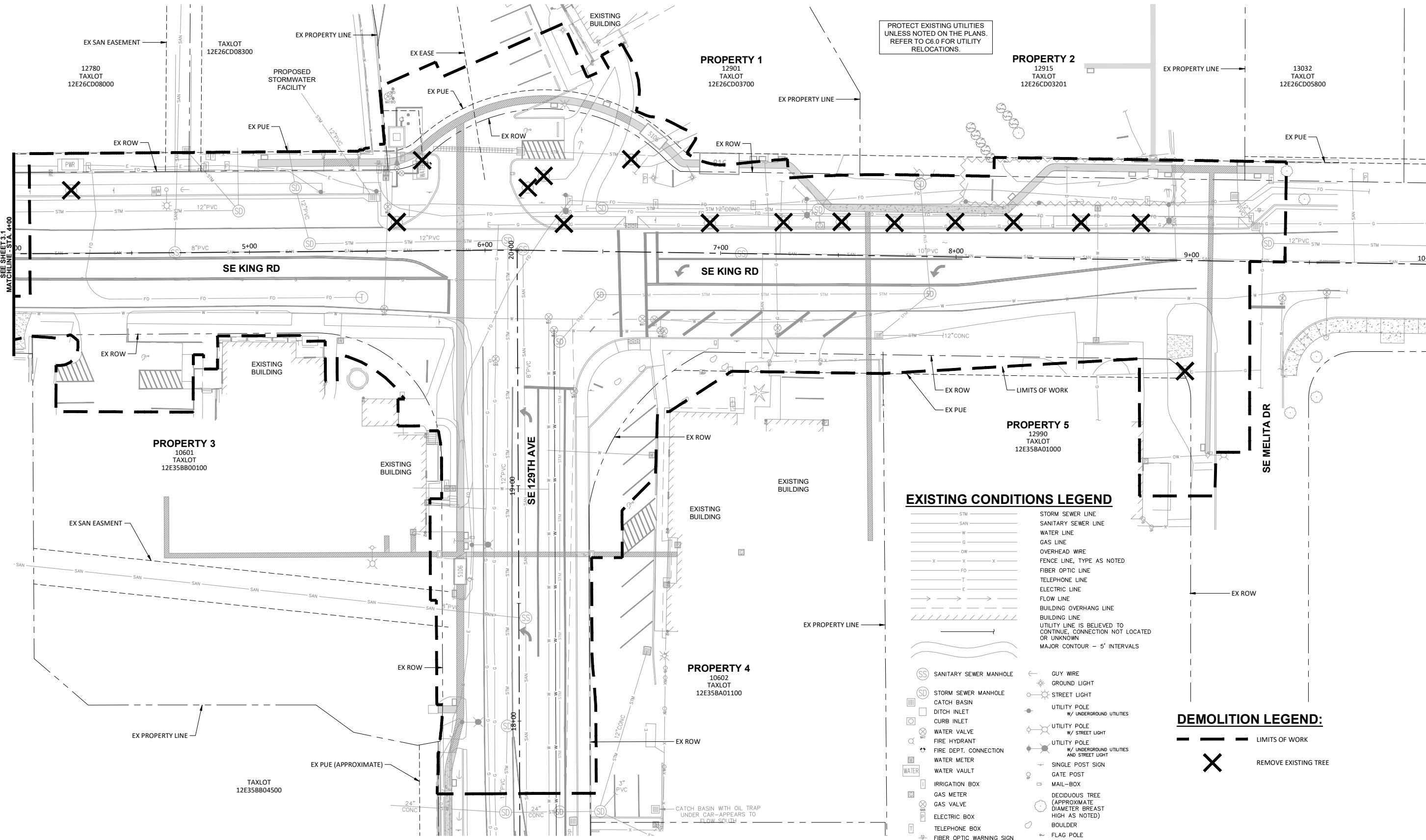


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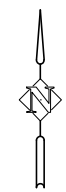
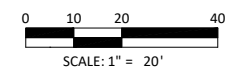
PROTECT EXISTING UTILITIES UNLESS NOTED ON THE PLANS. REFER TO C6.0 FOR UTILITY RELOCATIONS.

**EXISTING CONDITIONS LEGEND**

- STM STORM SEWER LINE
- SAN SANITARY SEWER LINE
- W WATER LINE
- G GAS LINE
- OW OVERHEAD WIRE
- X FENCE LINE, TYPE AS NOTED
- FO FIBER OPTIC LINE
- T TELEPHONE LINE
- E ELECTRIC LINE
- FLOW LINE
- BUILDING OVERHANG LINE
- BUILDING LINE
- UTILITY LINE IS BELIEVED TO CONTINUE, CONNECTION NOT LOCATED OR UNKNOWN
- MAJOR CONTOUR - 5' INTERVALS
- SS SANITARY SEWER MANHOLE
- SD STORM SEWER MANHOLE
- CB CATCH BASIN
- DI DITCH INLET
- CI CURB INLET
- WV WATER VALVE
- FH FIRE HYDRANT
- FDC FIRE DEPT. CONNECTION
- WM WATER METER
- WV WATER VAULT
- IB IRRIGATION BOX
- GM GAS METER
- GV GAS VALVE
- EB ELECTRIC BOX
- TB TELEPHONE BOX
- FOF FIBER OPTIC WARNING SIGN
- GW GUY WIRE
- GL GROUND LIGHT
- SL STREET LIGHT
- UP UTILITY POLE W/ UNDERGROUND UTILITIES
- USP UTILITY POLE W/ STREET LIGHT
- UUP UTILITY POLE W/ UNDERGROUND UTILITIES AND STREET LIGHT
- SPS SINGLE POST SIGN
- GP GATE POST
- MB MAIL-BOX
- DT DECIDUOUS TREE (APPROXIMATE DIAMETER BREST HIGH AS NOTED)
- B BOULDER
- FP FLAG POLE
- FM FOUND MONUMENT

**DEMOLITION LEGEND:**

- LIMITS OF WORK
- X REMOVE EXISTING TREE



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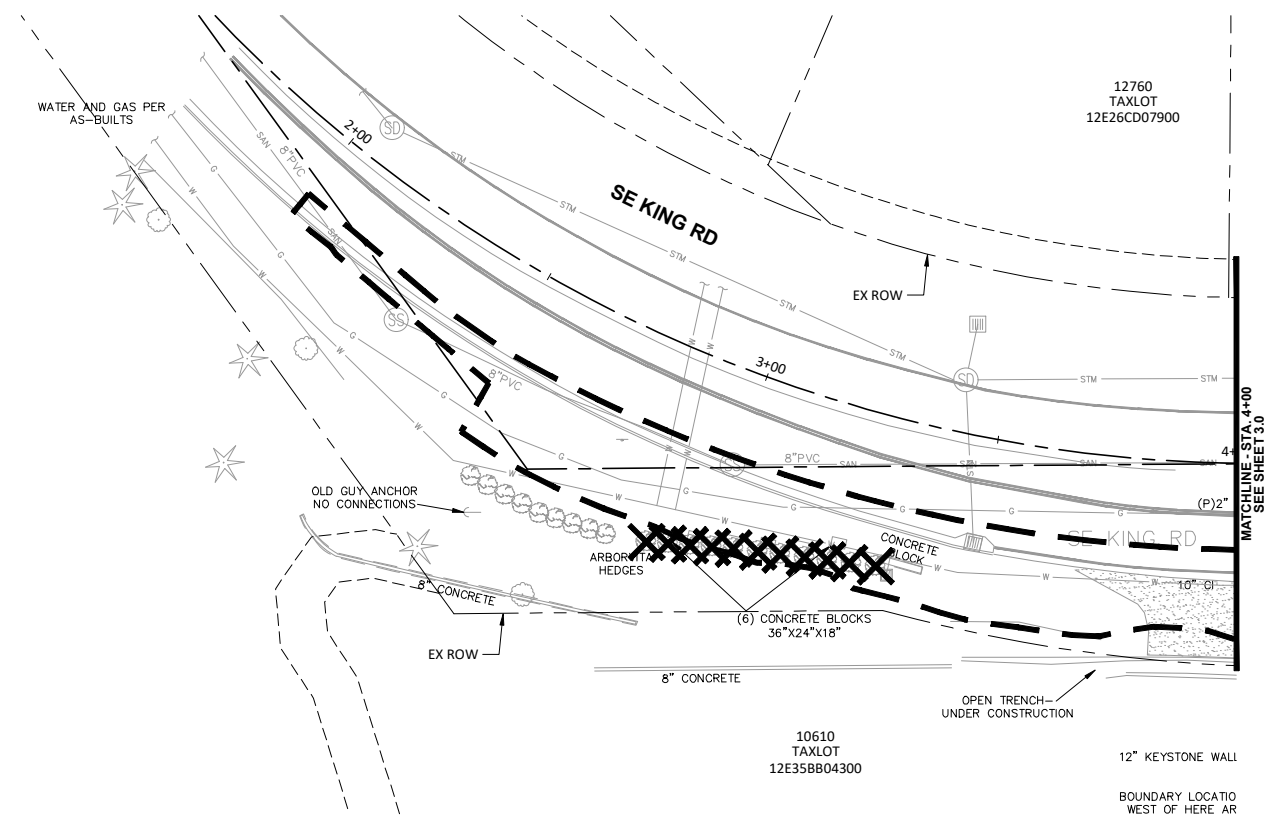


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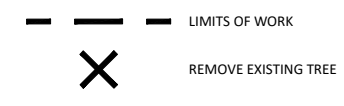
**EXISTING CONDITIONS PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

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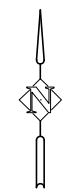
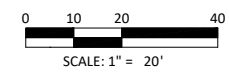
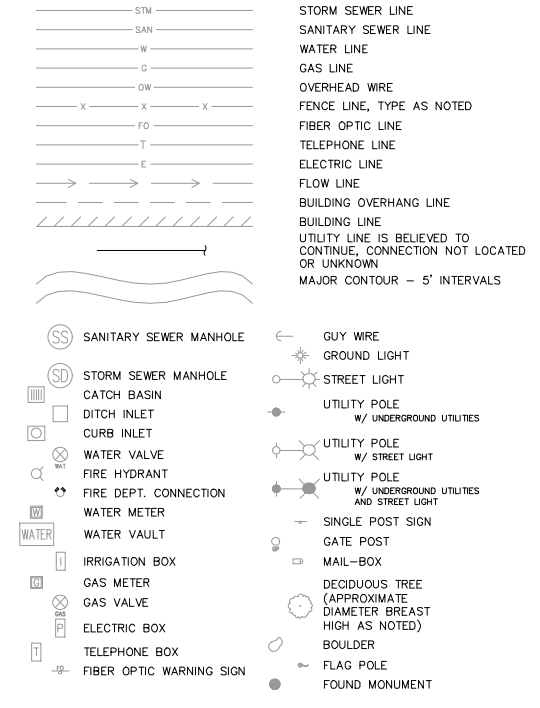
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**DEMOLITION LEGEND:**



**EXISTING CONDITIONS LEGEND**



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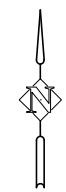
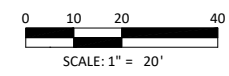
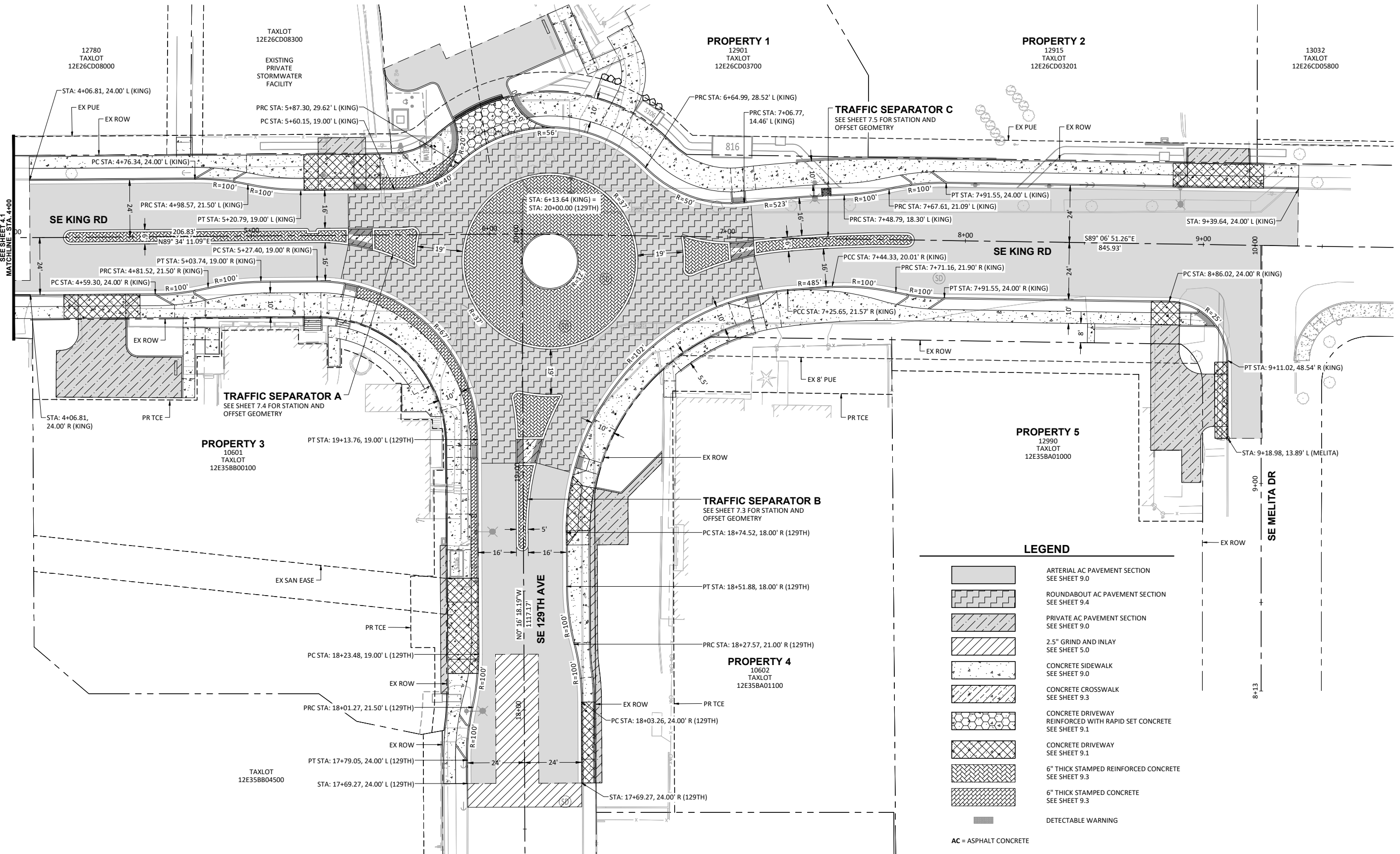


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**EXISTING CONDITIONS PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

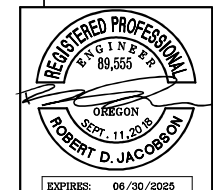
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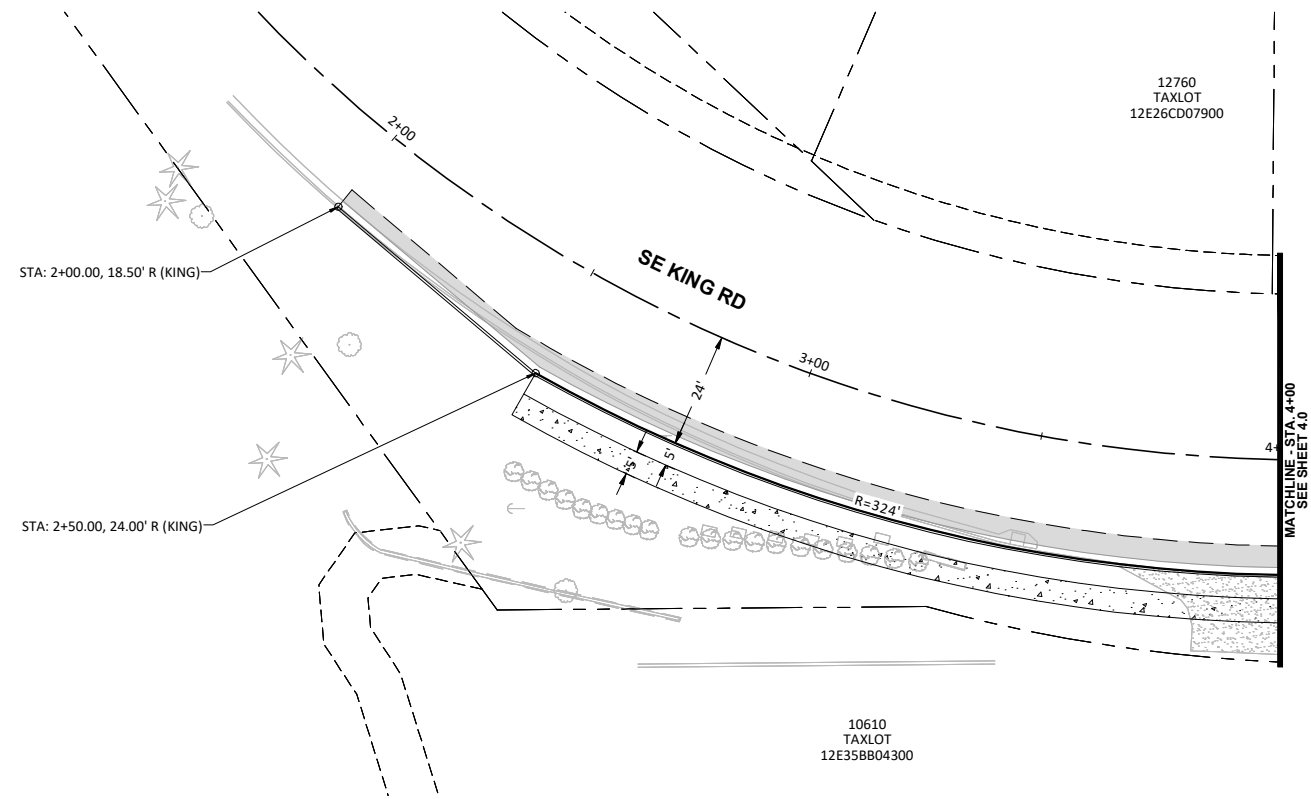


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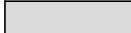
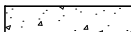
**GEOMETRY & PAVING PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

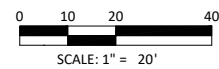
CIP NO.	CIP-07-24
SHEET NO.	<b>4.0</b>
JOB NO.	HAP-14

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**LEGEND**

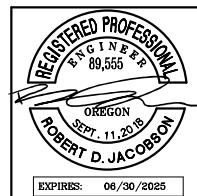
-  ASPHALT CONCRETE (AC) ARTERIAL PAVEMENT SECTION
-  CONCRETE SURFACING



DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	HHPR
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CHECKED:	DSH
DATE:	MAY 2024

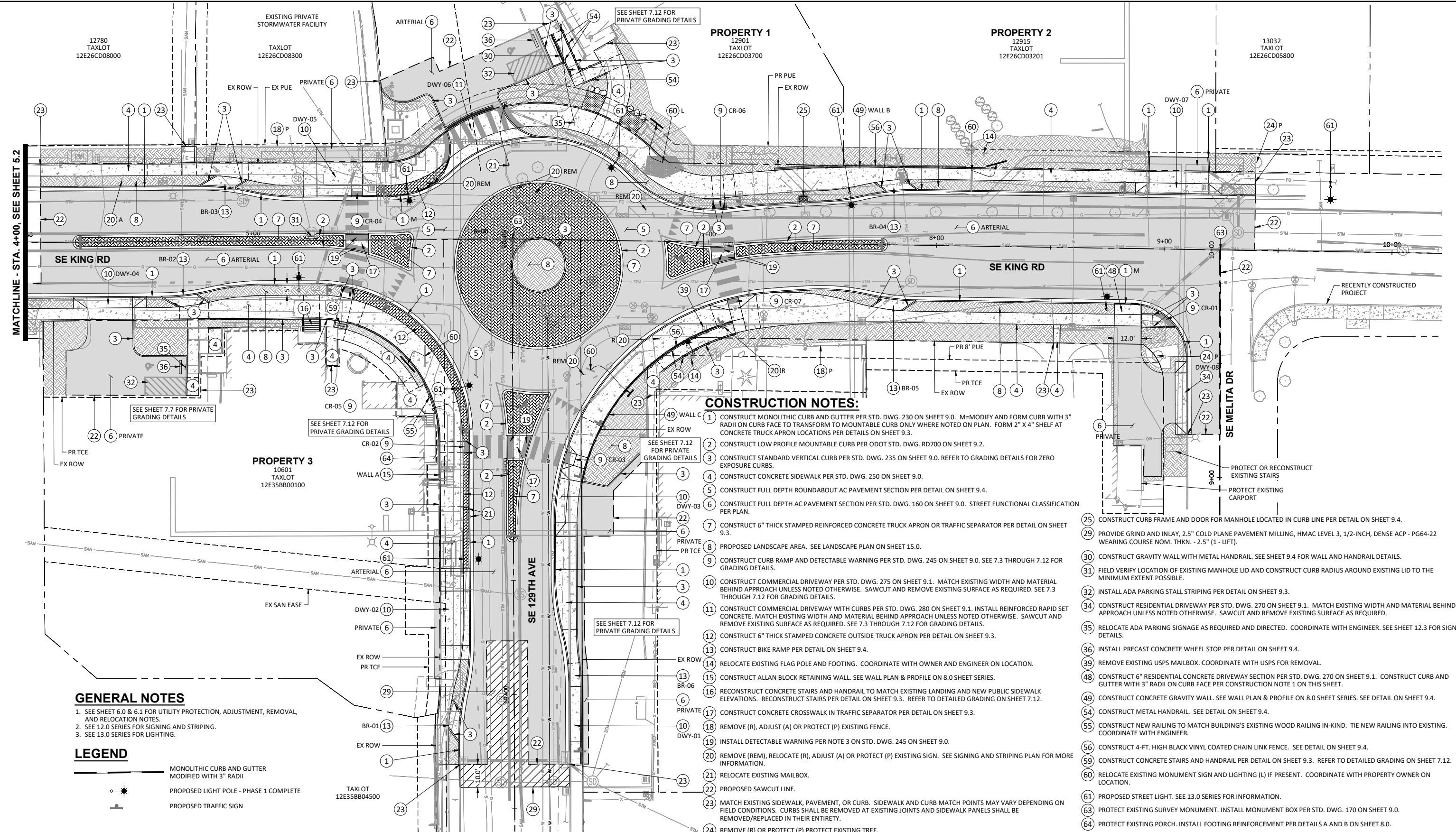


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 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**GEOMETRY & PAVING PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>4.1</b>
JOB NO.	HAP-14

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**CONSTRUCTION NOTES:**

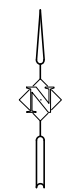
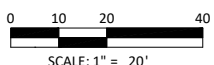
- CONSTRUCT MONOLITHIC CURB AND GUTTER PER STD. DWG. 230 ON SHEET 9.0. M=MODIFY AND FORM CURB WITH 3" RADII ON CURB FACE TO TRANSFORM TO MOUNTABLE CURB ONLY WHERE NOTED ON PLAN. FORM 2" X 4" SHELF AT CONCRETE TRUCK APRON LOCATIONS PER DETAILS ON SHEET 9.3.
- CONSTRUCT LOW PROFILE MOUNTABLE CURB PER ODOT STD. DWG. RD700 ON SHEET 9.2.
- CONSTRUCT STANDARD VERTICAL CURB PER STD. DWG. 235 ON SHEET 9.0. REFER TO GRADING DETAILS FOR ZERO EXPOSURE CURBS.
- CONSTRUCT CONCRETE SIDEWALK PER STD. DWG. 250 ON SHEET 9.0.
- CONSTRUCT FULL DEPTH ROUNDABOUT AC PAVEMENT SECTION PER DETAIL ON SHEET 9.4.
- CONSTRUCT FULL DEPTH AC PAVEMENT SECTION PER STD. DWG. 160 ON SHEET 9.0. STREET FUNCTIONAL CLASSIFICATION PER PLAN.
- CONSTRUCT 6" THICK STAMPED REINFORCED CONCRETE TRUCK APRON OR TRAFFIC SEPARATOR PER DETAIL ON SHEET 9.3.
- PROPOSED LANDSCAPE AREA. SEE LANDSCAPE PLAN ON SHEET 15.0.
- CONSTRUCT CURB RAMP AND DETECTABLE WARNING PER STD. DWG. 245 ON SHEET 9.0. SEE 7.3 THROUGH 7.12 FOR GRADING DETAILS.
- CONSTRUCT COMMERCIAL DRIVEWAY PER STD. DWG. 275 ON SHEET 9.1. MATCH EXISTING WIDTH AND MATERIAL BEHIND APPROACH UNLESS NOTED OTHERWISE. SAWCUT AND REMOVE EXISTING SURFACE AS REQUIRED. SEE 7.3 THROUGH 7.12 FOR GRADING DETAILS.
- CONSTRUCT COMMERCIAL DRIVEWAY WITH CURBS PER STD. DWG. 280 ON SHEET 9.1. INSTALL REINFORCED RAPID SET CONCRETE. MATCH EXISTING WIDTH AND MATERIAL BEHIND APPROACH UNLESS NOTED OTHERWISE. SAWCUT AND REMOVE EXISTING SURFACE AS REQUIRED. SEE 7.3 THROUGH 7.12 FOR GRADING DETAILS.
- CONSTRUCT 6" THICK STAMPED CONCRETE OUTSIDE TRUCK APRON PER DETAIL ON SHEET 9.3.
- CONSTRUCT BIKE RAMP PER DETAIL ON SHEET 9.4.
- RELOCATE EXISTING FLAG POLE AND FOOTING. COORDINATE WITH OWNER AND ENGINEER ON LOCATION.
- CONSTRUCT ALLAN BLOCK RETAINING WALL. SEE WALL PLAN & PROFILE ON 8.0 SHEET SERIES.
- RECONSTRUCT CONCRETE STAIRS AND HANDRAIL TO MATCH EXISTING LANDING AND NEW PUBLIC SIDEWALK ELEVATIONS. RECONSTRUCT STAIRS PER DETAIL ON SHEET 9.3. REFER TO DETAILED GRADING ON SHEET 7.12.
- CONSTRUCT CONCRETE CROSSWALK IN TRAFFIC SEPARATOR PER DETAIL ON SHEET 9.3.
- REMOVE (R), ADJUST (A) OR PROTECT (P) EXISTING FENCE.
- INSTALL DETECTABLE WARNING PER NOTE 3 ON STD. DWG. 245 ON SHEET 9.0.
- REMOVE (REM), RELOCATE (R), ADJUST (A) OR PROTECT (P) EXISTING SIGN. SEE SIGNING AND STRIPING PLAN FOR MORE INFORMATION.
- RELOCATE EXISTING MAILBOX.
- PROPOSED SAWCUT LINE.
- MATCH EXISTING SIDEWALK, PAVEMENT, OR CURB. SIDEWALK AND CURB MATCH POINTS MAY VARY DEPENDING ON FIELD CONDITIONS. CURBS SHALL BE REMOVED AT EXISTING JOINTS AND SIDEWALK PANELS SHALL BE REMOVED/REPLACED IN THEIR ENTIRETY.
- REMOVE (R) OR PROTECT (P) PROTECT EXISTING TREE.
- CONSTRUCT CURB FRAME AND DOOR FOR MANHOLE LOCATED IN CURB LINE PER DETAIL ON SHEET 9.4.
- PROVIDE GRIND AND INLAY, 2.5" COLD PLANE PAVEMENT MILLING, HMAC LEVEL 3, 1/2-INCH, DENSE ACP - PG64-22 WEARING COURSE NOM. THKN. - 2.5" (1 - LIFT).
- CONSTRUCT GRAVITY WALL WITH METAL HANDRAIL. SEE SHEET 9.4 FOR WALL AND HANDRAIL DETAILS.
- FIELD VERIFY LOCATION OF EXISTING MANHOLE LID AND CONSTRUCT CURB RADIUS AROUND EXISTING LID TO THE MINIMUM EXTENT POSSIBLE.
- INSTALL ADA PARKING STALL STRIPING PER DETAIL ON SHEET 9.3.
- CONSTRUCT RESIDENTIAL DRIVEWAY PER STD. DWG. 270 ON SHEET 9.1. MATCH EXISTING WIDTH AND MATERIAL BEHIND APPROACH UNLESS NOTED OTHERWISE. SAWCUT AND REMOVE EXISTING SURFACE AS REQUIRED.
- RELOCATE ADA PARKING SIGNAGE AS REQUIRED AND DIRECTED. COORDINATE WITH ENGINEER. SEE SHEET 12.3 FOR SIGN DETAILS.
- INSTALL PRECAST CONCRETE WHEEL STOP PER DETAIL ON SHEET 9.4.
- REMOVE EXISTING USPS MAILBOX. COORDINATE WITH USPS FOR REMOVAL.
- CONSTRUCT 6" RESIDENTIAL CONCRETE DRIVEWAY SECTION PER STD. DWG. 270 ON SHEET 9.1. CONSTRUCT CURB AND GUTTER WITH 3" RADII ON CURB FACE PER CONSTRUCTION NOTE 1 ON THIS SHEET.
- CONSTRUCT CONCRETE GRAVITY WALL. SEE WALL PLAN & PROFILE ON 8.0 SHEET SERIES. SEE DETAIL ON SHEET 9.4.
- CONSTRUCT METAL HANDRAIL. SEE DETAIL ON SHEET 9.4.
- CONSTRUCT NEW RAILING TO MATCH BUILDING'S EXISTING WOOD RAILING IN-KIND. TIE NEW RAILING INTO EXISTING. COORDINATE WITH ENGINEER.
- CONSTRUCT 4-FT. HIGH BLACK VINYL COATED CHAIN LINK FENCE. SEE DETAIL ON SHEET 9.4.
- CONSTRUCT CONCRETE STAIRS AND HANDRAIL PER DETAIL ON SHEET 9.3. REFER TO DETAILED GRADING ON SHEET 7.12.
- RELOCATE EXISTING MONUMENT SIGN AND LIGHTING (L) IF PRESENT. COORDINATE WITH PROPERTY OWNER ON LOCATION.
- PROPOSED STREET LIGHT. SEE 13.0 SERIES FOR INFORMATION.
- PROTECT EXISTING SURVEY MONUMENT. INSTALL MONUMENT BOX PER STD. DWG. 170 ON SHEET 9.0.
- PROTECT EXISTING PORCH. INSTALL FOOTING REINFORCEMENT PER DETAILS A AND B ON SHEET 8.0.

**GENERAL NOTES**

- SEE SHEET 6.0 & 6.1 FOR UTILITY PROTECTION, ADJUSTMENT, REMOVAL, AND RELOCATION NOTES.
- SEE 12.0 SERIES FOR SIGNING AND STRIPING.
- SEE 13.0 SERIES FOR LIGHTING.

**LEGEND**

- MONOLITHIC CURB AND GUTTER MODIFIED WITH 3" RADII
- PROPOSED LIGHT POLE - PHASE 1 COMPLETE
- PROPOSED TRAFFIC SIGN



DATE	NO.	DESCRIPTION
REVISIONS		

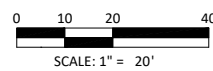
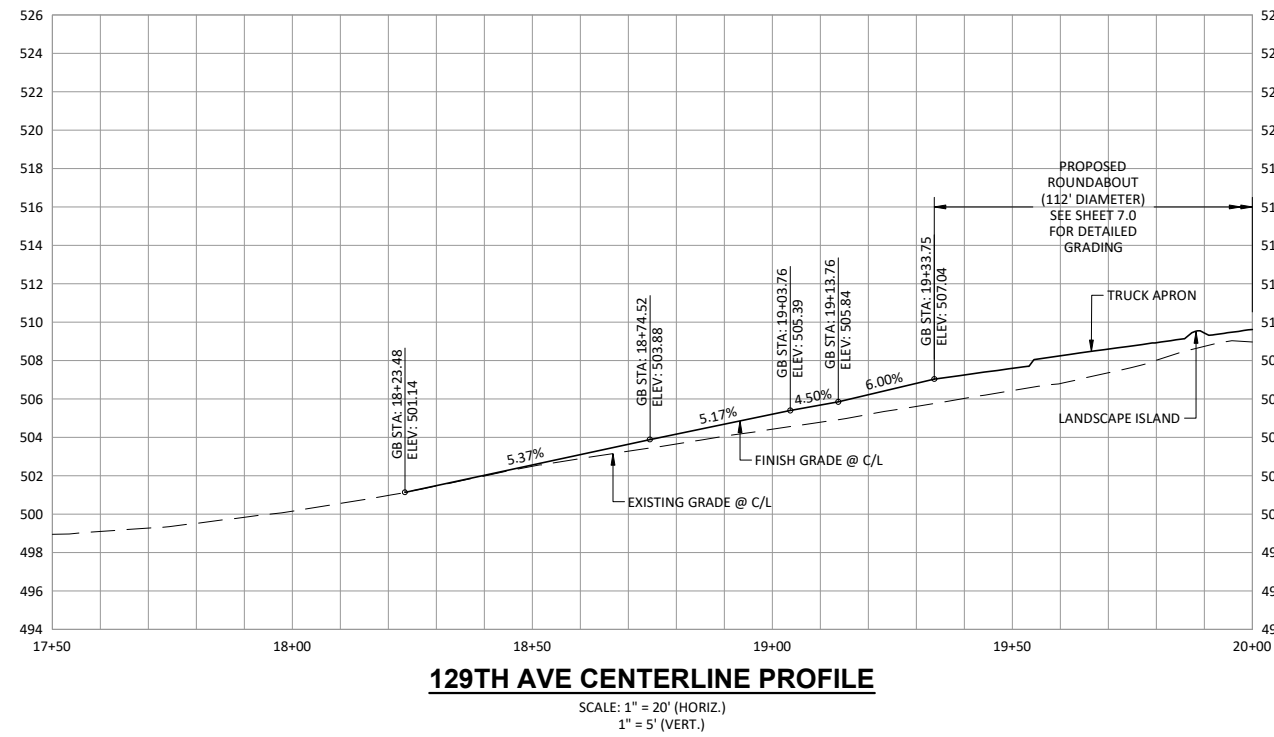
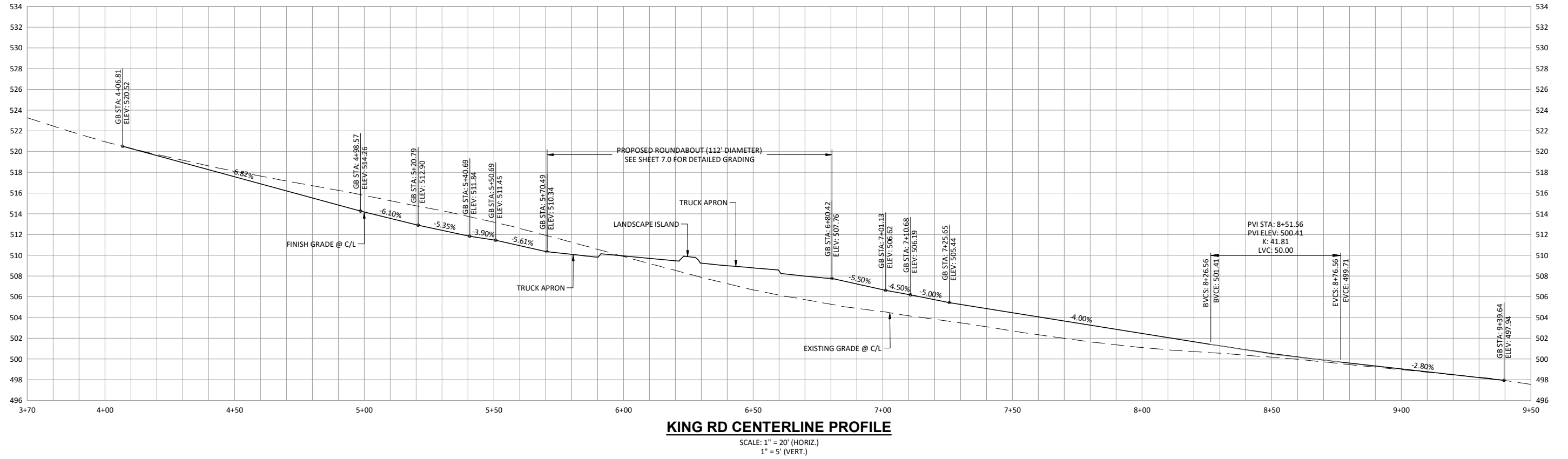
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**ROADWAY PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

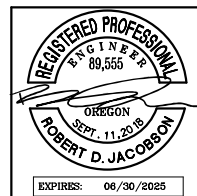
CIP NO.	CIP-07-24
SHEET NO.	<b>5.0</b>
JOB NO.	HAP-14



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DATE:	MAY 2024

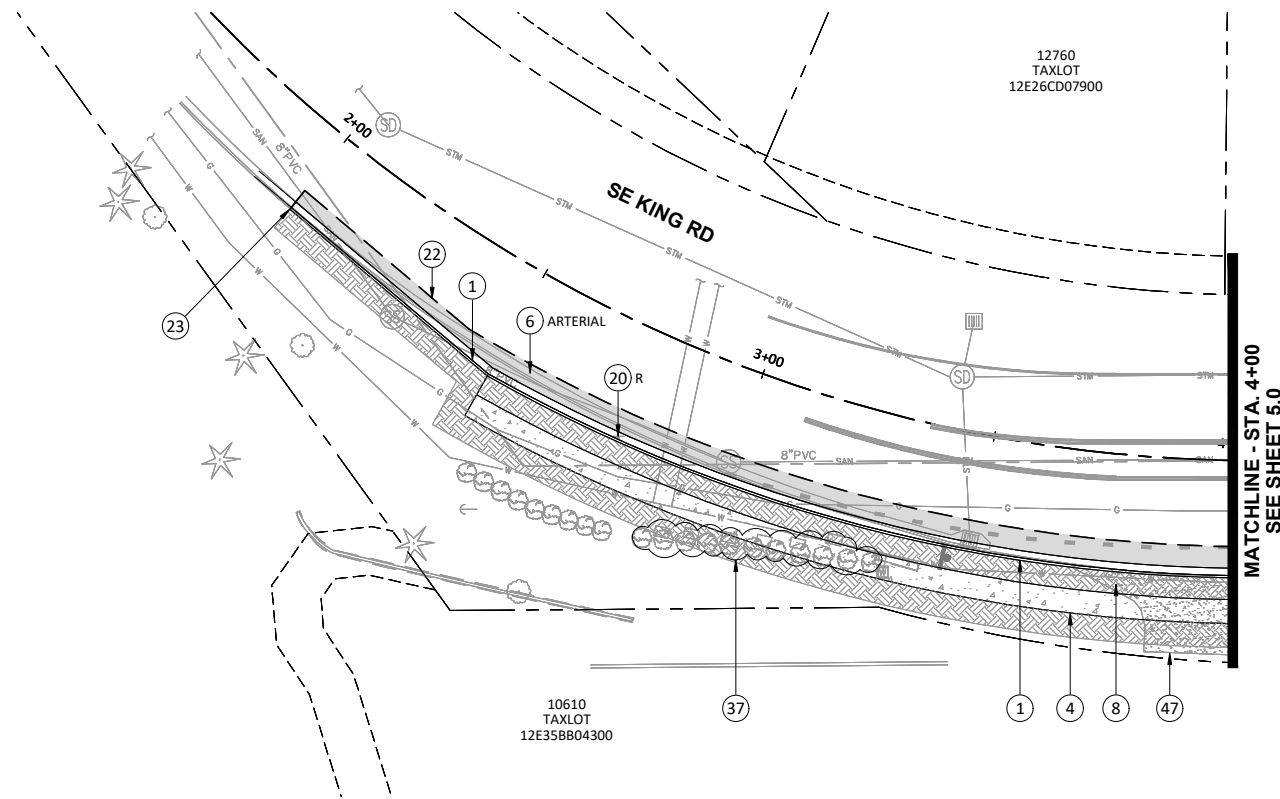


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**ROADWAY PROFILES**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

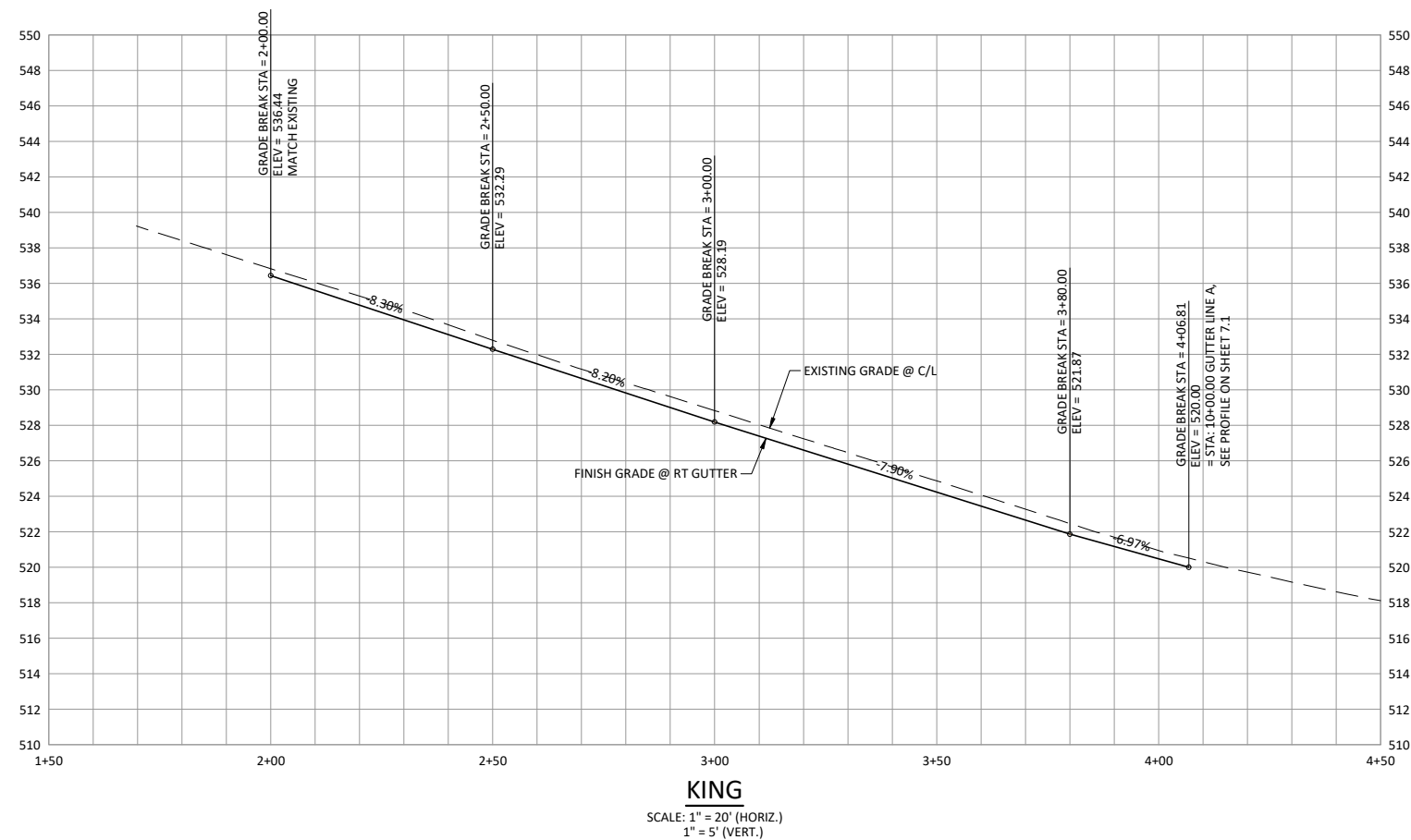
CIP NO.	CIP-07-24
SHEET NO.	<b>5.1</b>
JOB NO.	HAP-14

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**CONSTRUCTION NOTES:**

- 1 CONSTRUCT MONOLITHIC CURB AND GUTTER PER STD. DWG. 230 ON SHEET 9.0. M=MODIFY AND FORM CURB WITH 3" RADII ON CURB FACE TO TRANSFORM TO MOUNTABLE CURB ONLY WHERE NOTED ON PLAN. FORM 2" X 4" SHELF AT CONCRETE TRUCK APRON LOCATIONS PER DETAILS ON SHEET 9.3.
- 4 CONSTRUCT CONCRETE SIDEWALK PER STD. DWG. 250 ON SHEET 9.0.
- 6 CONSTRUCT FULL DEPTH AC PAVEMENT SECTION PER STD. DWG. 160 ON SHEET 9.0. STREET FUNCTIONAL CLASSIFICATION PER PLAN.
- 8 PROPOSED LANDSCAPE AREA. SEE LANDSCAPE PLAN ON SHEET 15.0.
- 20 REMOVE (REM), RELOCATE (R), ADJUST (A) OR PROTECT (P) EXISTING SIGN. SEE SIGNING AND STRIPING PLAN FOR MORE INFORMATION.
- 22 PROPOSED SAWCUT LINE.
- 23 MATCH EXISTING SIDEWALK, PAVEMENT, OR CURB. SIDEWALK AND CURB MATCH POINTS MAY VARY DEPENDING ON FIELD CONDITIONS. CURBS SHALL BE REMOVED AT EXISTING JOINTS AND SIDEWALK PANELS SHALL BE REMOVED/REPLACED IN THEIR ENTIRETY.
- 37 REMOVE ROW OF ARBORVITAE AND CONCRETE BLOCKS AND DISPOSE.
- 47 ABANDON EXISTING DRIVEWAY AND REMOVE GRAVEL TO RIGHT OF WAY. PROVIDE NEW LANDSCAPE AREA AND SEED AS REQUIRED AND DIRECTED. COORDINATE WITH ENGINEER.

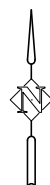
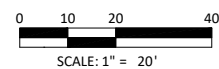


**GENERAL NOTES**

- 1. SEE SHEET 6.0 & 6.1 FOR UTILITY PROTECTION, ADJUSTMENT, REMOVAL, AND RELOCATION NOTES.
- 2. SEE 12.0 SERIES FOR SIGNING AND STRIPING.
- 3. SEE 13.0 SERIES FOR LIGHTING.

**LEGEND**

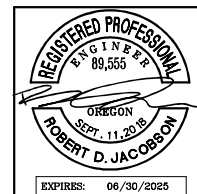
- PROPOSED LIGHT POLE - PHASE 1 COMPLETE
- PROPOSED TRAFFIC SIGN



DATE	NO.	DESCRIPTION
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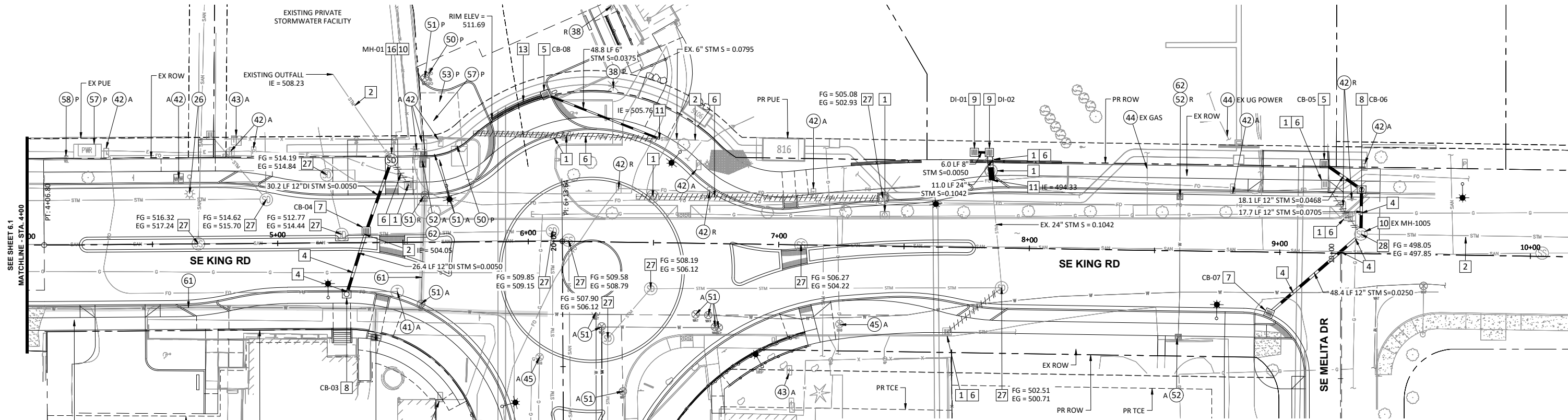
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**ROADWAY PROFILE & PROFILE**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>5.2</b>
JOB NO.	HAP-14



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**UTILITY NOTES:**

- 26 ADJUST EXISTING LIGHT POLE AND FOOTING TO FINISH GRADE. COORDINATE WITH PGE.
- 38 RELOCATE (R) OR PROTECT (P) EXISTING LIGHT. COORDINATE RELOCATION WITH ENGINEER.
- 40 REMOVE (REM) OR PROTECT (P) EXISTING UTILITY POLE. REMOVAL OR RELOCATION BY UTILITY. CONTRACTOR TO COORDINATE POLE AND WIRE RELOCATIONS WITH APPROPRIATE UTILITIES.
- 41 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING UTILITY MANHOLE. RELOCATION OR ADJUSTMENT BY UTILITY. CONTRACTOR TO COORDINATE.
- 42 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING UTILITY BOX. RELOCATION OR ADJUSTMENT BY UTILITY. CONTRACTOR TO COORDINATE.
- 43 REMOVE OR RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING PRIVATE IRRIGATION SYSTEM AS REQUIRED AND DIRECTED. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND ENGINEER.
- 44 CAUTION! EXISTING GAS LINE OR FRANCHISE UTILITY LINE, AS NOTED. POTHOLE TO AVOID CONFLICTS AND CONFIRM CONSTRUCTABILITY OF PROPOSED FEATURE PRIOR TO ANY STRUCTURE PROCUREMENT. IF ANY RELOCATION OR ADJUSTMENT IS NECESSARY IT IS TO BE DONE BY UTILITY. CONTRACTOR TO COORDINATE.
- 45 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING GAS VALVE. RELOCATION OR ADJUSTMENT BY UTILITY. CONTRACTOR TO COORDINATE.
- 46 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING GAS METER. RELOCATION OR ADJUSTMENT BY UTILITY. CONTRACTOR TO COORDINATE.
- 50 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING FIRE HYDRANT. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 51 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING WATER VALVE. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 52 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING WATER METER, BOX, AND SERVICE. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 53 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING FDC. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 57 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING VAULT. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 58 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING UTILITY PEDESTAL. RELOCATION OR ADJUSTMENT BY UTILITY. CONTRACTOR TO COORDINATE.
- 61 WATER MAIN TO BE ADJUSTED TO MEET MINIMUM COVER REQUIREMENTS WITH PROPOSED FINISH GRADE. ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.
- 62 ADJUST EXISTING WATER SERVICE ELEVATION AND LOCATION AND CONNECT TO NEW OR ADJUSTED WATER METER.

**STORMWATER DATA:**

- CB-01**  
STANDARD GB-2 CATCH BASIN  
STA = 17+70.93, 24.00' LT (129TH)  
RIM ELEV = 498.85  
GUT ELEV = 498.85  
12" IE OUT (SE) = 494.85  
44.7 LF 12" STM S = 0.0100
- CB-02**  
CONTECH STORMFILTER CATCH BASIN W/ (4) 27" CARTRIDGES  
STA = 17+70.93, 24.00' RT (129TH)  
RIM ELEV = 498.17  
GUT ELEV = 498.17  
12" IE IN (E) = 494.40  
12" IE OUT (SW) = 492.10  
15.2 LF 12" STM S = 0.0200
- CB-03**  
STANDARD CURB INLET CATCH BASIN  
STA = 5+27.40, 19.00' RT (KING)  
RIM ELEV = 512.60  
GUT ELEV = 512.10  
12" IE OUT (N) = 509.61  
26.4 LF 12" DI STM S = 0.0050
- CB-04**  
STANDARD GB-2 CATCH BASIN  
STA = 5+35.41, 3.00' LT (KING)  
RIM ELEV = 512.26  
GUT ELEV = 512.26  
12" IE IN (S) = 509.48  
12" IE OUT (NE) = 509.29  
30.2 LF 12" DI STM S = 0.0050
- CB-05**  
LYNCH STYLE CATCH BASIN  
STA = 9+17.24, 35.64' LT (KING)  
RIM ELEV = 498.97  
12" IE OUT (SE) = 494.47  
18.1 LF 12" STM S = 0.0468
- CB-06**  
STANDARD CURB INLET CATCH BASIN  
STA = 9+32.29', 24.00' LT (KING)  
RIM ELEV = 498.42  
GUT ELEV = 497.92  
12" IE IN (NW) = 493.62  
12" IE OUT (S) = 493.42  
17.7 LF 12" STM S = 0.0705
- CB-07**  
STANDARD GB-2 CATCH BASIN  
STA = 8+95.48, 25.86' RT (KING)  
RIM ELEV = 498.38  
GUT ELEV = 498.38  
12" IE IN (NE) = 493.38  
48.4 LF 12" STM S = 0.0250
- CB-08**  
LYNCH STYLE CATCH BASIN  
STA = 6+07.41, 58.54' LT (KING)  
RIM ELEV = 511.59  
IE IN (W) = 508.58  
6" IE OUT (E) = 507.59  
48.8 LF 6" STM S = 0.0375
- DI-01**  
CATCH BASIN-DITCH INLET  
STA = 7+77.51, 38.00' LT (KING RD)  
RIM ELEV = 496.50  
8" IE OUT (E) = 495.50  
6.0 LF 8" STM S = 0.0050
- DI-02**  
CATCH BASIN-DITCH INLET  
STA = 7+83.51, 38.00' LT (KING RD)  
RIM ELEV = 497.50  
24" IE OUT (SE) = 495.48  
11.0 LF 24" STM S = 0.1042
- MH-01**  
FLAT TOP STORM MANHOLE  
STA = 5+45.69, 32.91 LT (KING RD)  
RIM ELEV = 512.90  
12" IE IN (SW) = 509.14  
EX 12" IE OUT (NW) = 508.94
- EX MH-1005**  
EXISTING STORM MANHOLE  
STA = 9+08.86, 7.77' LT (KING RD)  
PR RIM ELEV = 498.05  
EX 12" IE IN (NW) = 491.62 (ABANDON)  
PR 12" IE IN (N) = 492.17 (PROPOSED)  
PR 12" IE IN (SW) = 492.17 (PROPOSED)  
EX 12" IE OUT (E) = 491.17 (PROTECT)
- EX MH-2197**  
EXISTING STORM MANHOLE  
STA = 17+61.32, 6.02' LT (129TH)  
RIM ELEV = 499.02  
EX 12" IE IN (NW) = 491.80 (PROPOSED)  
EX 4" IE IN (NE) = 491.92 (EXISTING)  
EX 12" IE IN (N) = 492.82 (EXISTING)  
EX 36" IE OUT (E) = 478.52 (EXISTING)  
EX 36" IE OUT (W) = 478.89 (EXISTING)
- EX MH-2067**  
EXISTING STORM MANHOLE  
INSTALL OUTSIDE DROP  
STA = 17+61.52, 34.26' RT (129TH)  
RIM ELEV = 497.04  
PR 12" IE IN (NW) = 491.80 (PROPOSED)  
EX 4" IE IN (NE) = 491.92 (EXISTING)  
EX 12" IE IN (N) = 492.82 (EXISTING)  
EX 36" IE OUT (E) = 478.52 (EXISTING)  
EX 36" IE OUT (W) = 478.89 (EXISTING)

**STORMWATER NOTES:**

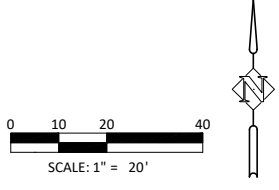
- 1 REMOVE EXISTING STORM STRUCTURE.
- 2 PROTECT EXISTING STORM LINE.
- 4 CAUTION! UNDERGROUND UTILITY CROSSING. POTHOLE ALL UTILITY CROSSINGS TO CONFIRM CONSTRUCTABILITY PRIOR TO ANY STRUCTURE PROCUREMENT. ALL EXISTING UTILITIES ARE TO BE PROTECTED.
- 5 CONSTRUCT LYNCH STYLE CATCH BASIN PER DETAIL ON SHEET 9.6.
- 6 REMOVE OR PLUG AND ABANDON EXISTING STORM PIPE AS REQUIRED AND DIRECTED. COORDINATE WITH ENGINEER.
- 7 CONSTRUCT STANDARD GB-2 CATCH BASIN PER DETAIL SWM CB-5.0 ON SHEET 9.5.
- 8 CONSTRUCT CATCH BASIN-CURB INLET STANDARD CG-30 PER DETAIL SWM CB-2.0 ON SHEET 9.5.
- 9 CONSTRUCT DITCH INLET CATCH BASIN PER DETAIL SWM CB-3.0 ON SHEET 9.5.
- 10 CONNECT TO EXISTING PIPE, MANHOLE OR CATCH BASIN PER DETAIL ON SHEET 9.5.
- 11 CONSTRUCT TO EXISTING PIPE PER DETAIL ON SHEET 9.5. POTHOLE AND FIELD VERIFY LOCATION, ELEVATION, AND SIZE OF EXISTING STORM LINE PRIOR TO CONSTRUCTION.
- 12 INSTALL OUTSIDE DROP.
- 13 CONSTRUCT ZERN TRENCH DRAIN PER DETAIL ON SHEET 9.6.
- 14 CONSTRUCT CONCRETE STORMFILTER CATCH BASIN WITH FOUR (4) 18" PSORB CARTRIDGES PER DETAIL ON SHEET 9.7.
- 15 UNSTABLE SOILS. SHORING REQUIRED.
- 16 CONSTRUCT FLAT TOP STORM MANHOLE PER DETAIL SWM MH-8.0 ON SHEET 9.6.
- 27 MAJOR ADJUSTMENT OF EXISTING MANHOLE RIM TO FINISH GRADE.
- 28 MINOR ADJUSTMENT OF EXISTING MANHOLE RIM TO FINISH GRADE.

**GENERAL NOTES**

- 1. SEE SHEET 5.0 & 5.2 FOR ROADWAY PLAN CONSTRUCTION NOTES.
- 2. SEE SHEET 9.1 & 9.2 FOR FRANCHISE UTILITY PLAN CONSTRUCTION NOTES.

**LEGEND:**

- REMOVE EXISTING UTILITY LINE
- REMOVE EXISTING UTILITY LINE



DATE	NO.	DESCRIPTION
REVISIONS		

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CHECKED:	DSH
DATE:	MAY 2024

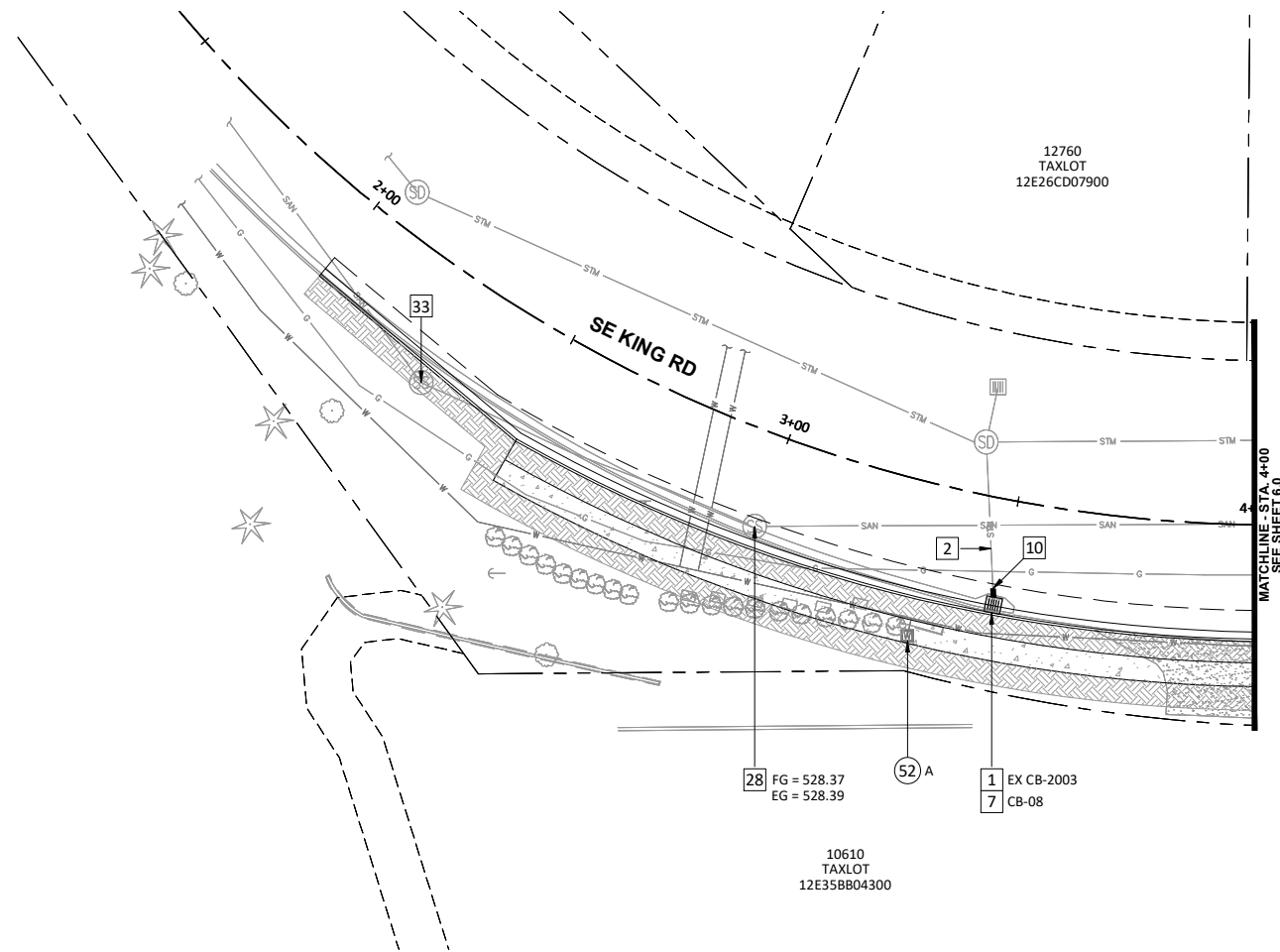


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**UTILITY PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>6.0</b>
JOB NO.	HAP-14

P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-S-U-Utility Plan.dwg



**UTILITY NOTES:**

- 52 RELOCATE (R), ADJUST (A), OR PROTECT (P) EXISTING WATER METER, BOX, AND SERVICE. RELOCATIONS AND ADJUSTMENTS BY OTHERS. CONTRACTOR TO COORDINATE.

**STORMWATER NOTES:**

- 1 REMOVE EXISTING STORM STRUCTURE.
- 2 PROTECT EXISTING STORM LINE.
- 7 CONSTRUCT STANDARD GB-2 CATCH BASIN PER DETAIL SWM CB-5.0 ON SHEET 9.5.
- 10 CONNECT TO EXISTING PIPE, MANHOLE OR CATCH BASIN PER DETAIL ON SHEET 9.5.
- 28 MINOR ADJUSTMENT OF EXISTING MANHOLE RIM TO FINISH GRADE.
- 33 PROTECT EXISTING MANHOLE.

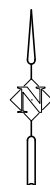
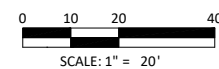
**STORMWATER DATA:**

**CB-08**  
 CATCH BASIN-STANDARD GB-2  
 STA = 3+48.87, 24.00' RT (KING)  
 GUT ELEV = 524.33  
 12" IE OUT (N) = 520.67  
 3.0 LF 12" STM S = 0.0335

**EX CB-2003**  
 EXISTING CATCH BASIN-STANDARD GB-2  
 EX RIM ELEV = 524.37  
 EX 12" IE OUT (N) = 520.67  
 EX S = 0.0335

**GENERAL NOTES**

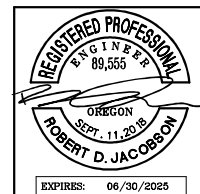
- 1. SEE SHEET 5.0 & 5.2 FOR ROADWAY PLAN CONSTRUCTION NOTES.
- 2. SEE SHEET 9.1 & 9.2 FOR FRANCHISE UTILITY PLAN CONSTRUCTION NOTES.



DATE	NO.	DESCRIPTION
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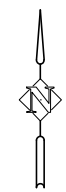
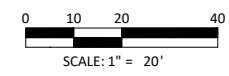
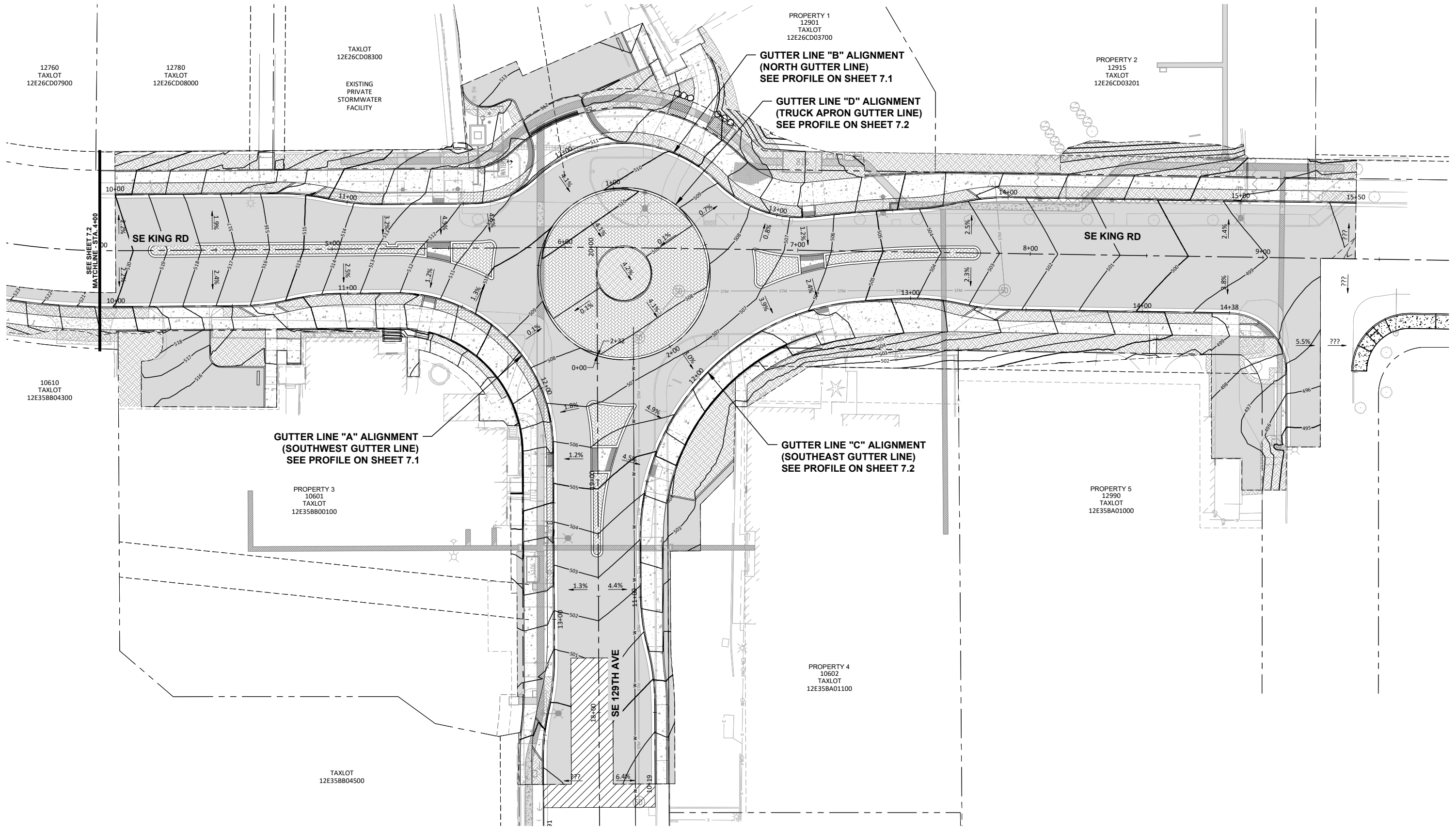


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UTILITY PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>6.1</b>
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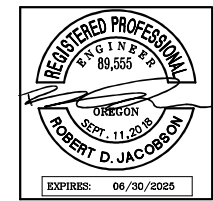
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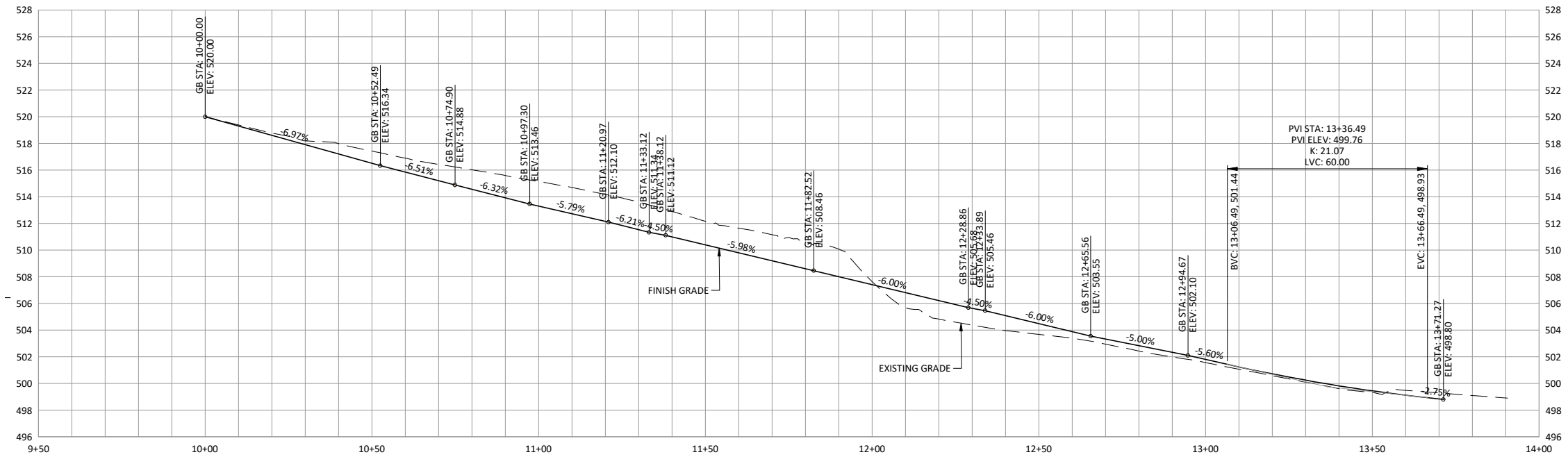


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**OVERALL GRADING PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

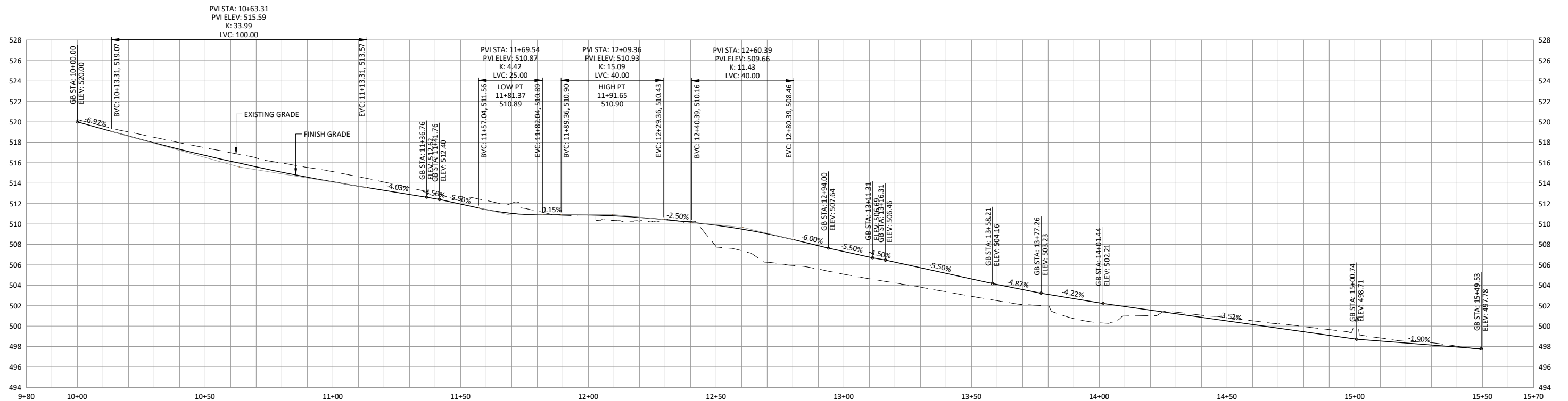
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SHEET NO.	<b>7.0</b>
JOB NO.	HAP-14

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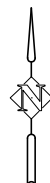
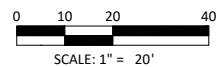
**GUTTER LINE A PROFILE (SOUTHWEST GUTTER LINE)**

SCALE: 1" = 20' (HORIZ.)  
1" = 5' (VERT.)



**GUTTER LINE B PROFILE (NORTH GUTTER LINE)**

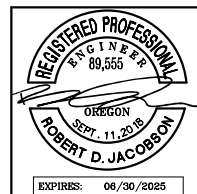
SCALE: 1" = 20' (HORIZ.)  
1" = 5' (VERT.)



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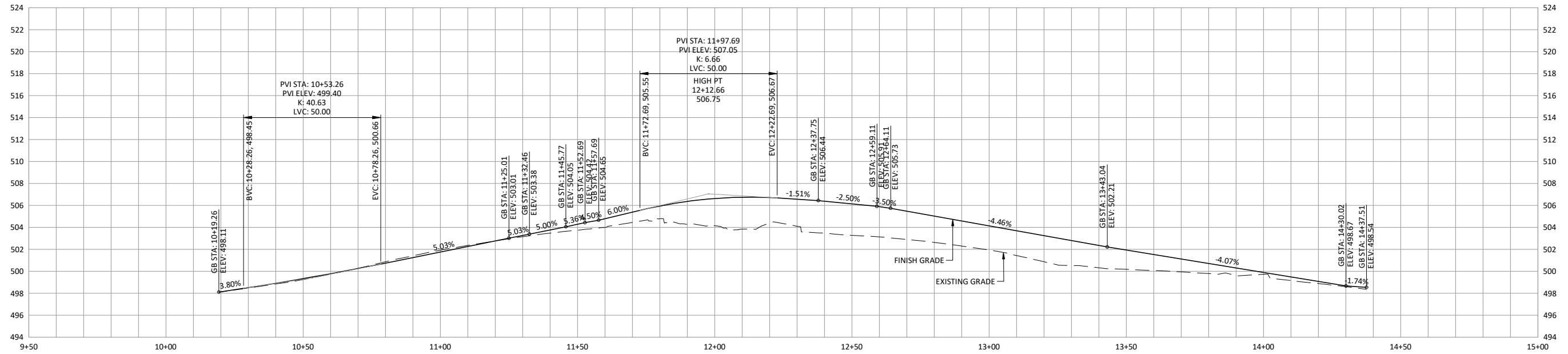


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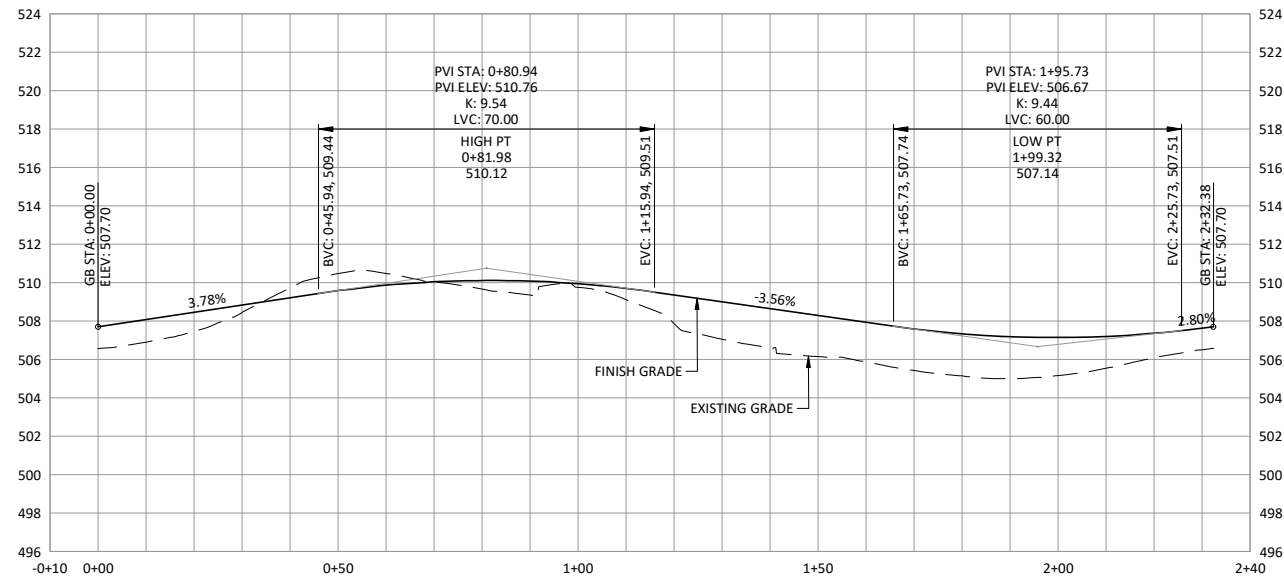
**GUTTER PROFILES**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>7.1</b>
JOB NO.	HAP-14

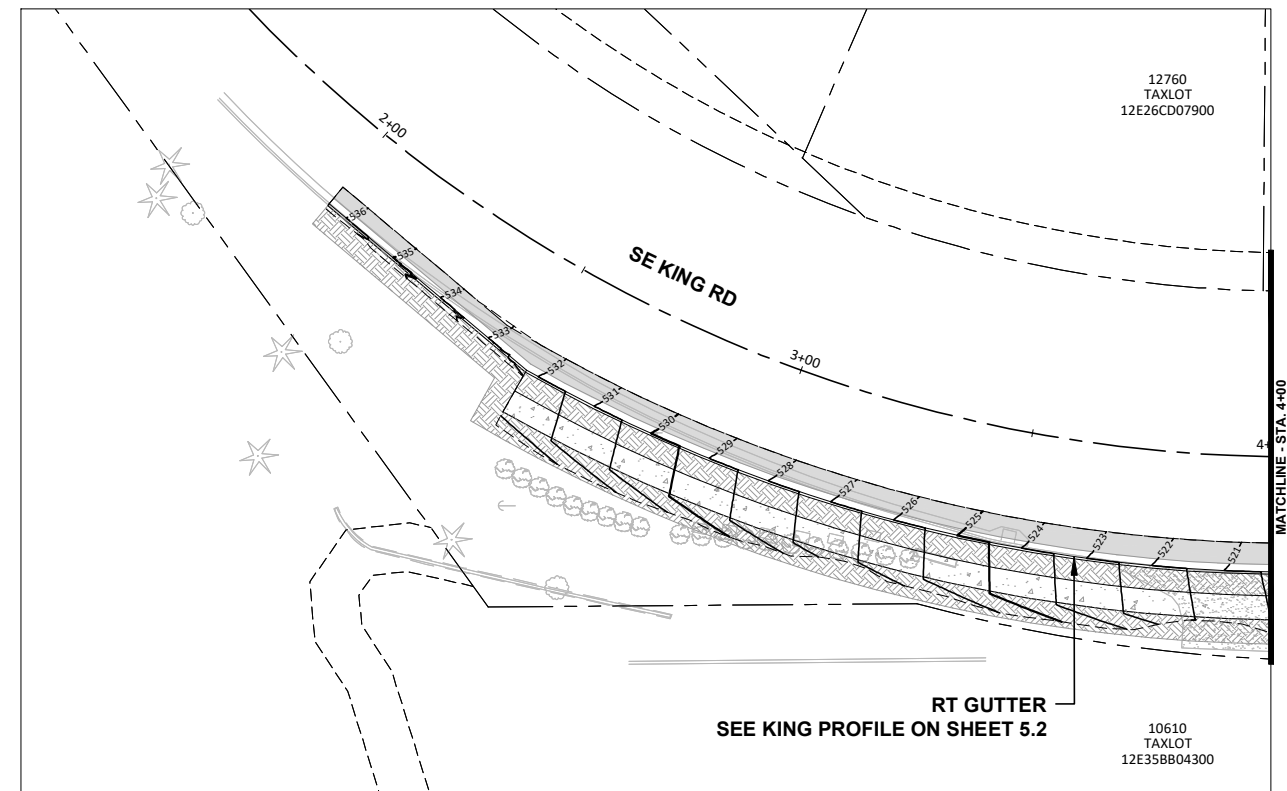
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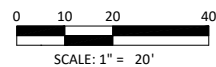
**GUTTER LINE C PROFILE (SOUTHEAST GUTTER LINE)**  
 SCALE: 1" = 20' (HORIZ.)  
 1" = 5' (VERT.)



**GUTTER LINE D PROFILE (TRUCK APRON GUTTER LINE)**  
 SCALE: 1" = 20' (HORIZ.)  
 1" = 5' (VERT.)



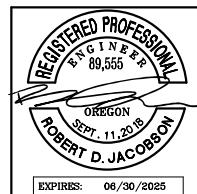
**GRADING PLAN - MITCHELL PARK FRONTAGE**  
 SCALE: 1" = 20'



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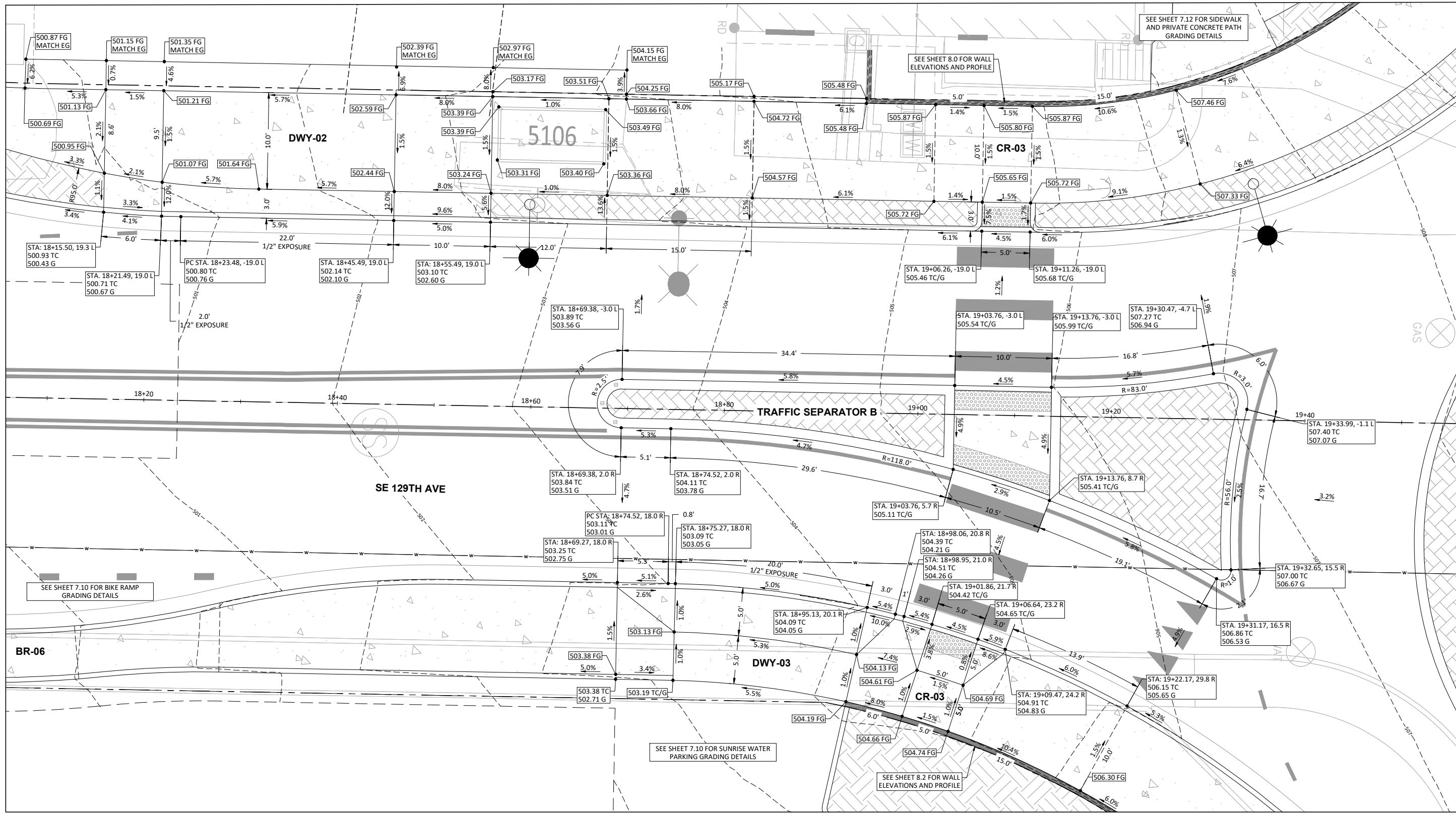


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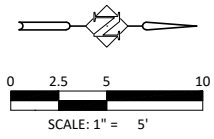
**GUTTER PROFILES**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>7.2</b>
JOB NO.	HAP-14

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**TRAFFIC SEPARATOR B, DWY-02, DWY-03, CR-02, & CR-03**  
SCALE: 1" = 5'



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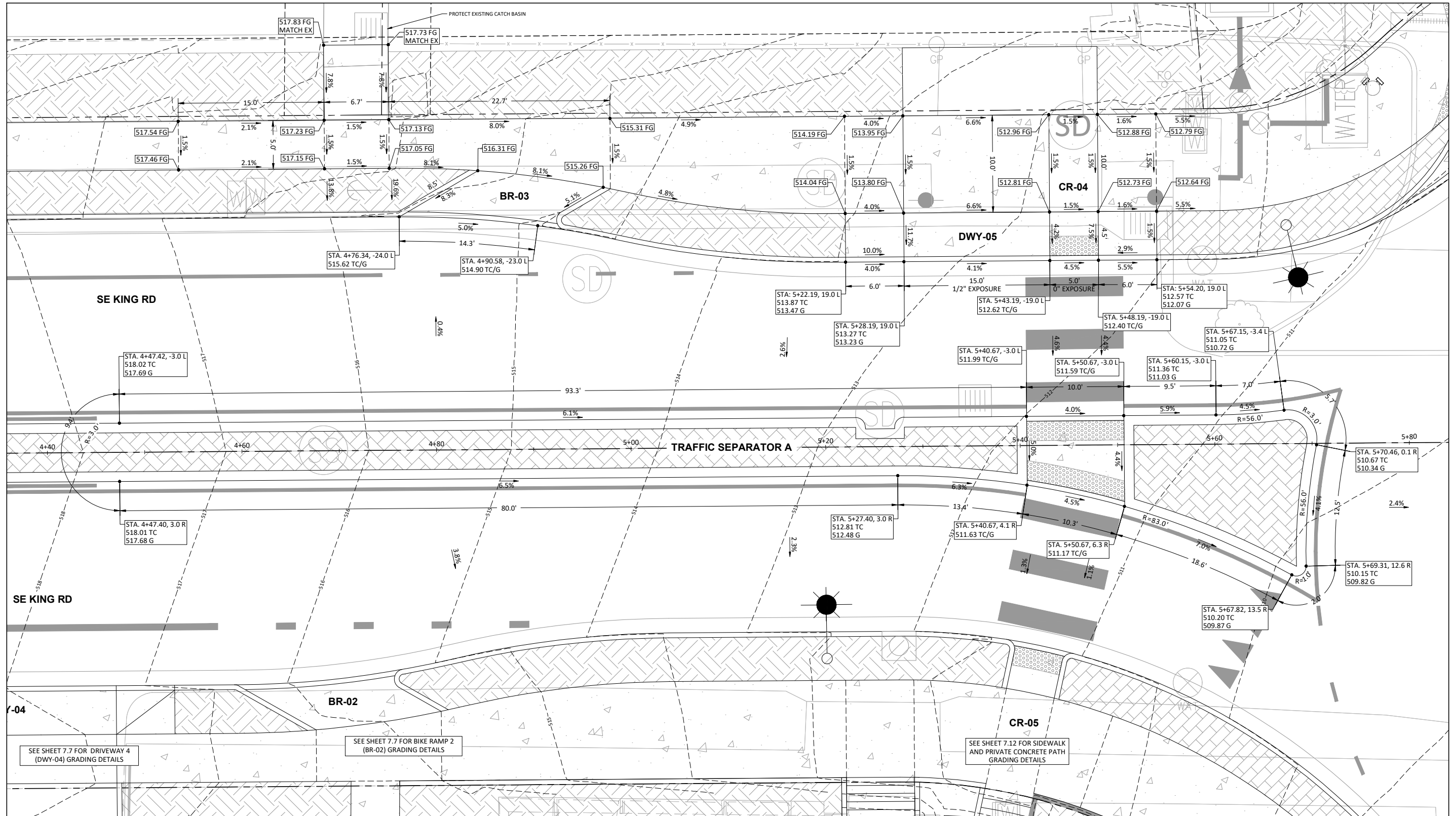


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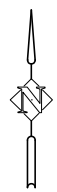
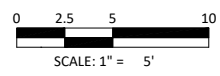
**GRADING DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>7.3</b>
JOB NO.	HAP-14

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**TRAFFIC SEPARATOR A, DWY-05, BR-03, & CR-05**  
SCALE: 1" = 5'



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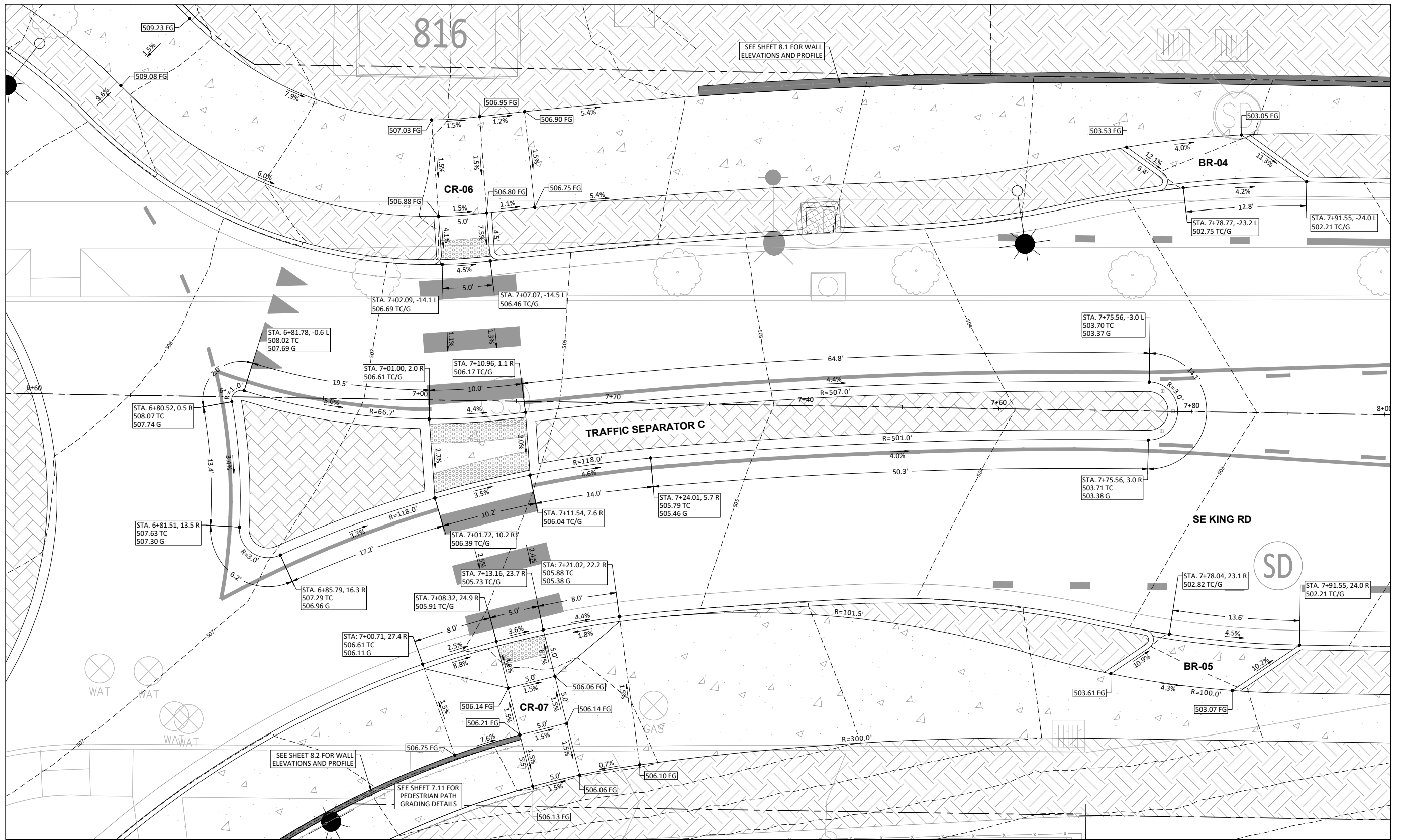


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**GRADING DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

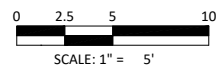
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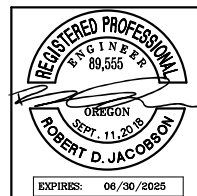
**TRAFFIC SEPARATOR C, CR-06, CR-07, BR-04, & BR-05**

SCALE: 1" = 5'



DATE	NO.	DESCRIPTION
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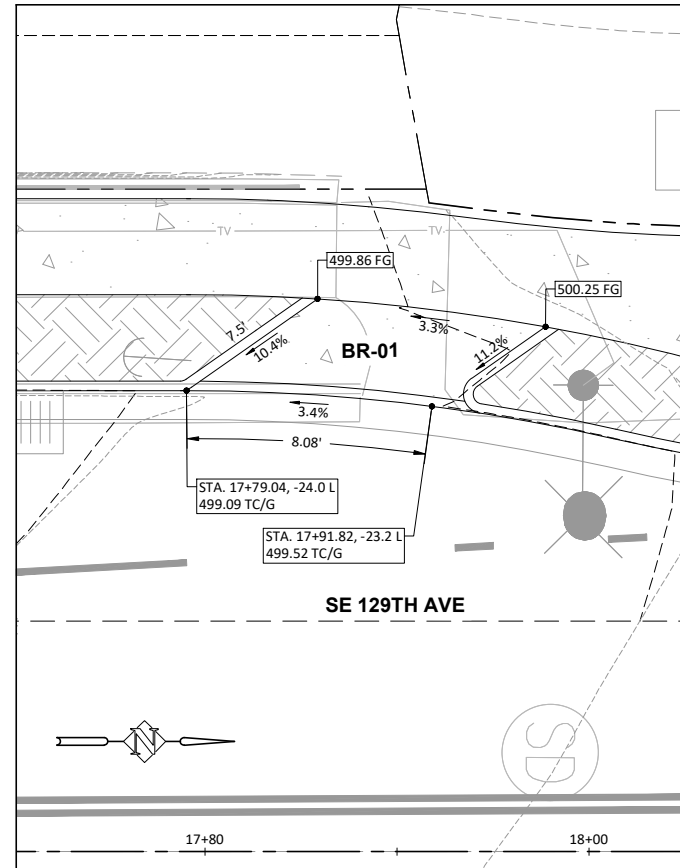
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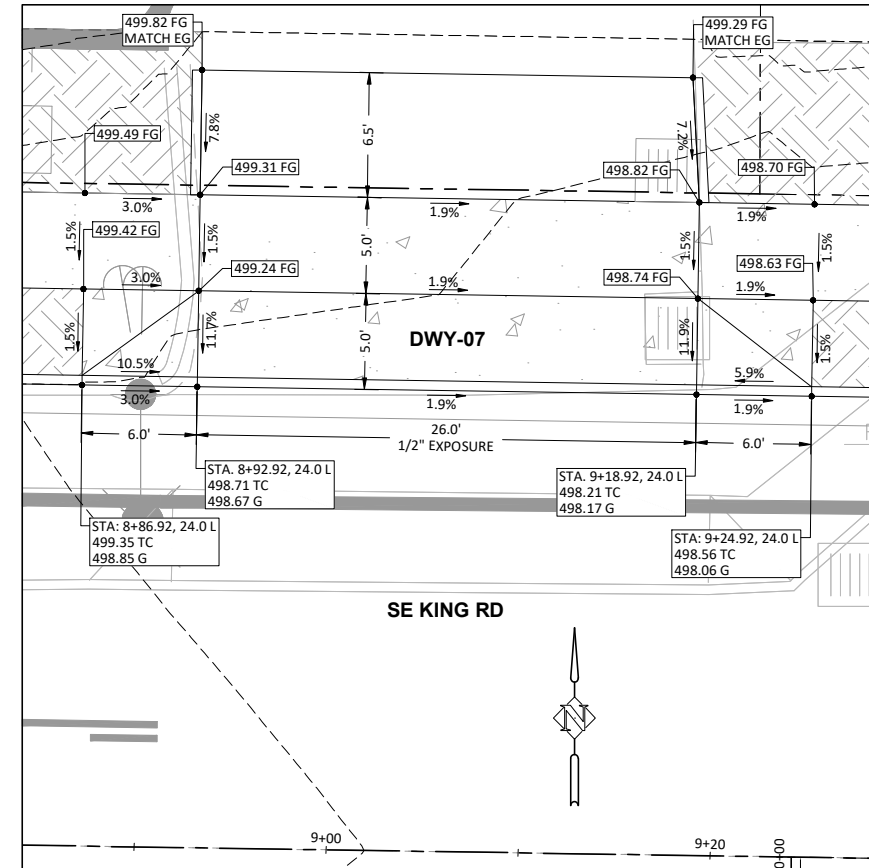
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SHEET NO.	<b>7.5</b>
JOB NO.	HAP-14



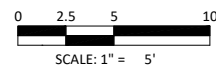
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**BIKE RAMP 1 (BR-01)**  
SCALE: 1" = 5'



**DRIVEWAY 7 (DWY-07)**  
SCALE: 1" = 5'



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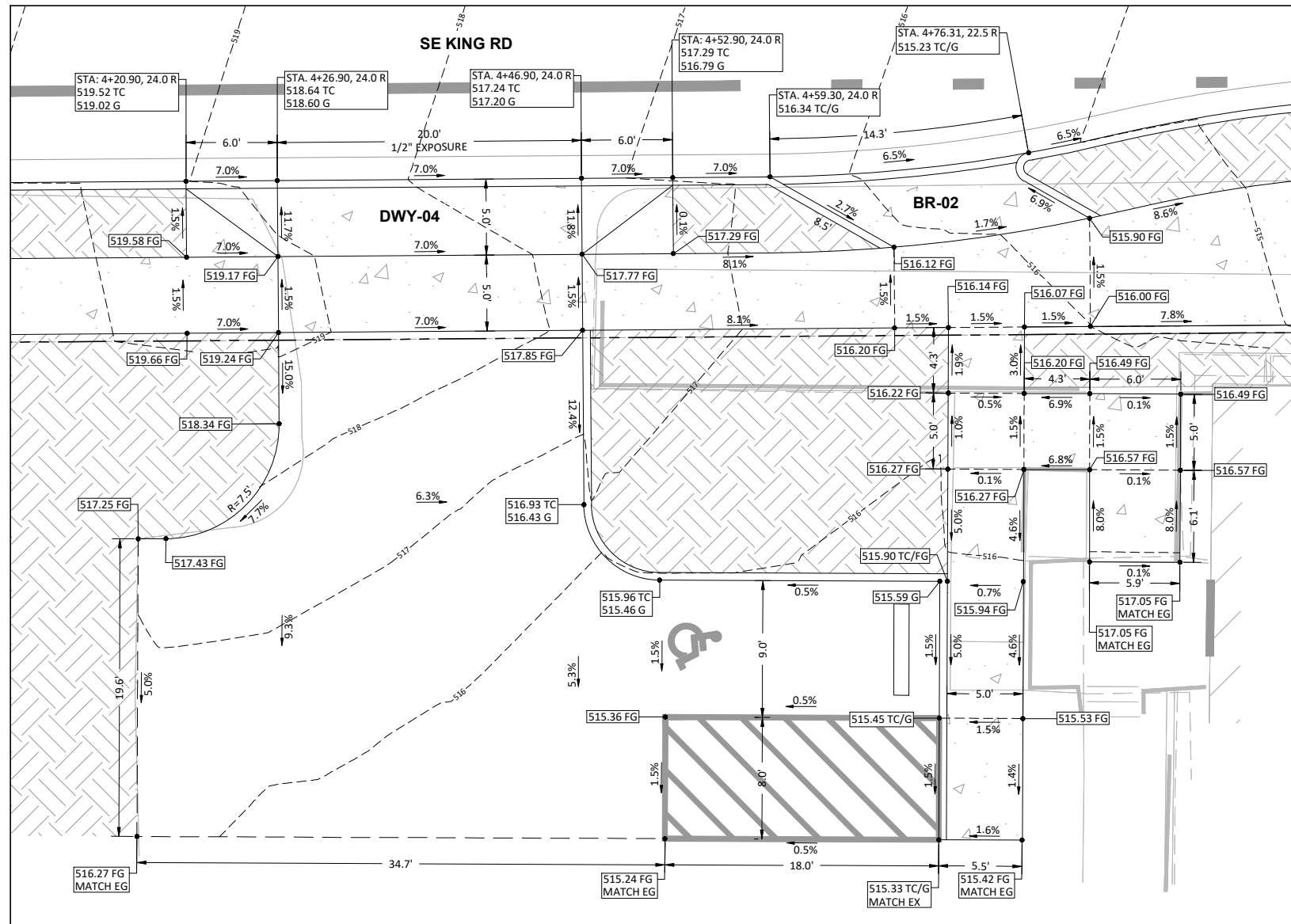


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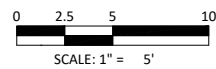
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 HAPPY VALLEY, OREGON

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SHEET NO.	<b>7.6</b>
JOB NO.	HAP-14

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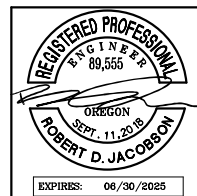
**BIKE RAMP 2 (BR-02) DRIVEWAY 4 (DWY-04)**  
SCALE: 1" = 5'



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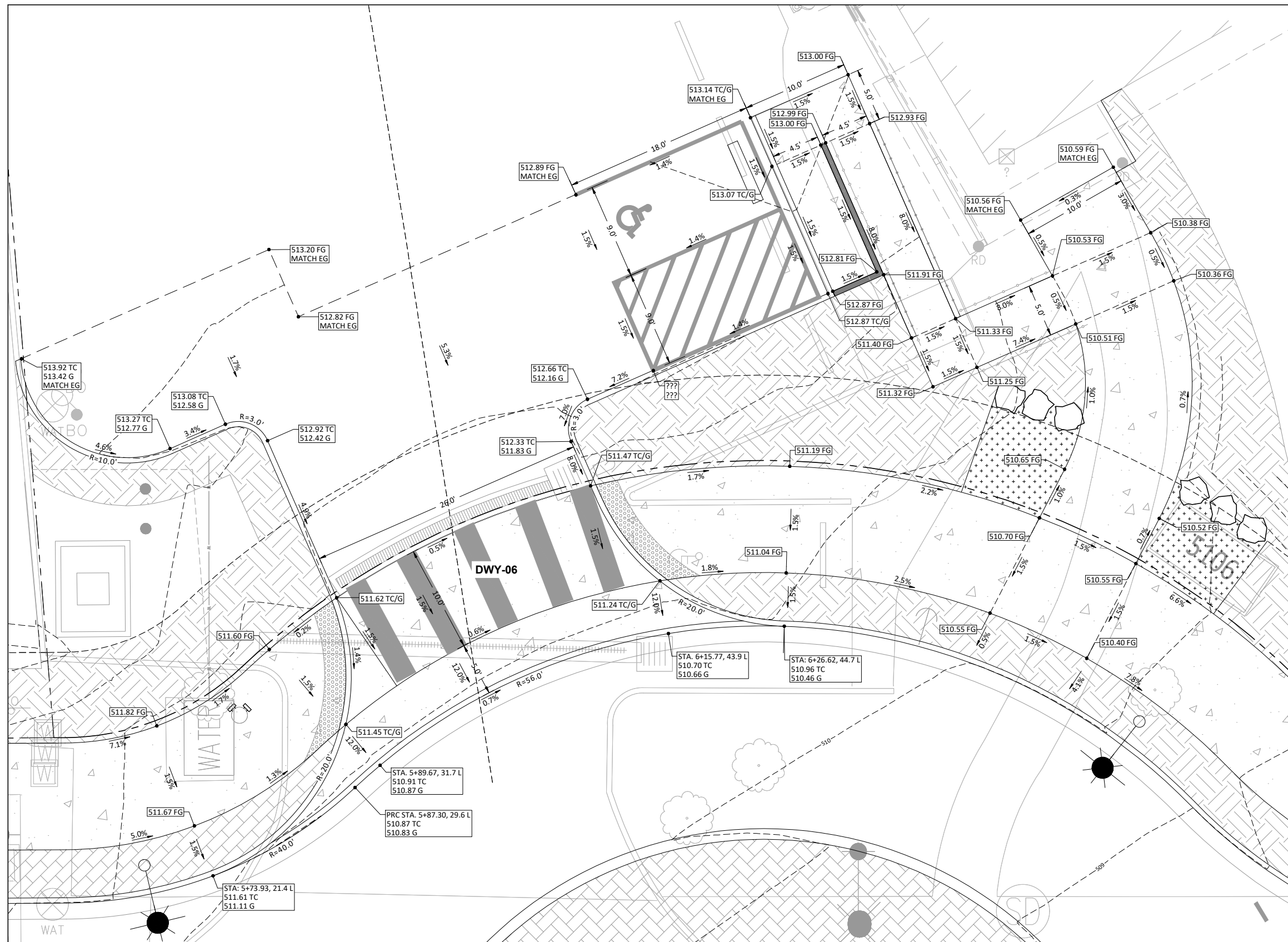


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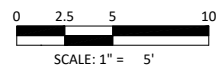
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**DRIVEWAY 6 (DWY-06)**

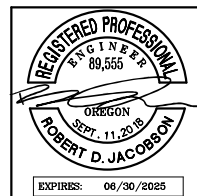
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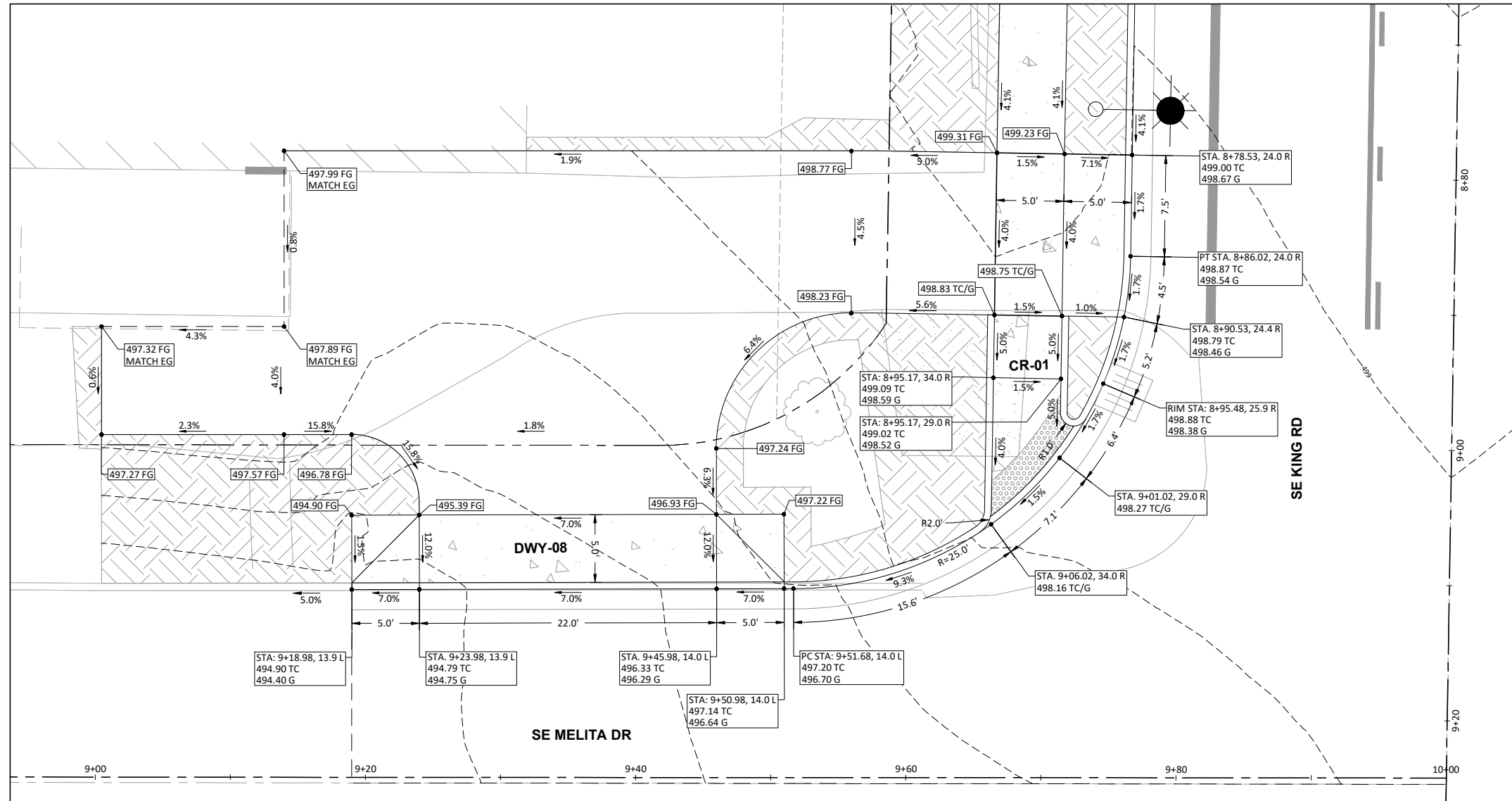


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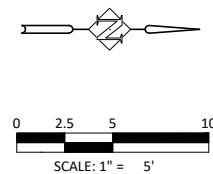
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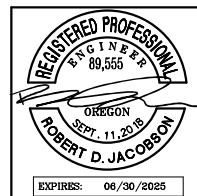


**DRIVEWAY 8 (DWY-08) AND CR-01**

SCALE: 1" = 5'



DESIGNED:	HHPR						
DRAWN:	HHPR						
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DATE:	MAY 2024						
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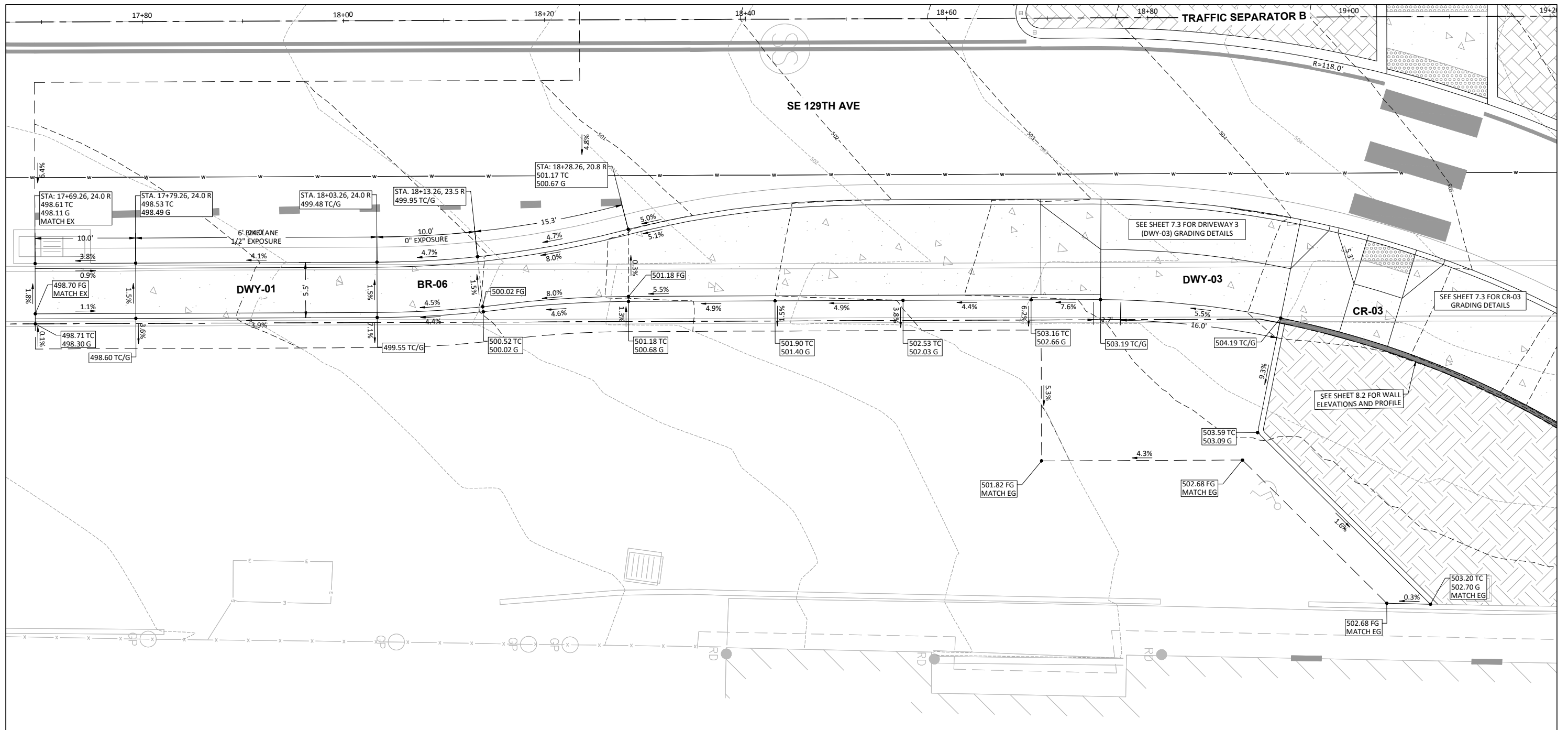


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**GRADING DETAILS**  
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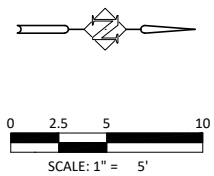
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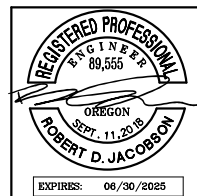


**SUNRISE WATER PARKING LOT & DRIVEWAY 01 (DWY-01) GRADING DETAIL**

SCALE: 1" = 5'



DESIGNED:	HHPR						
DRAWN:	HHPR						
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DATE	NO.	DESCRIPTION					
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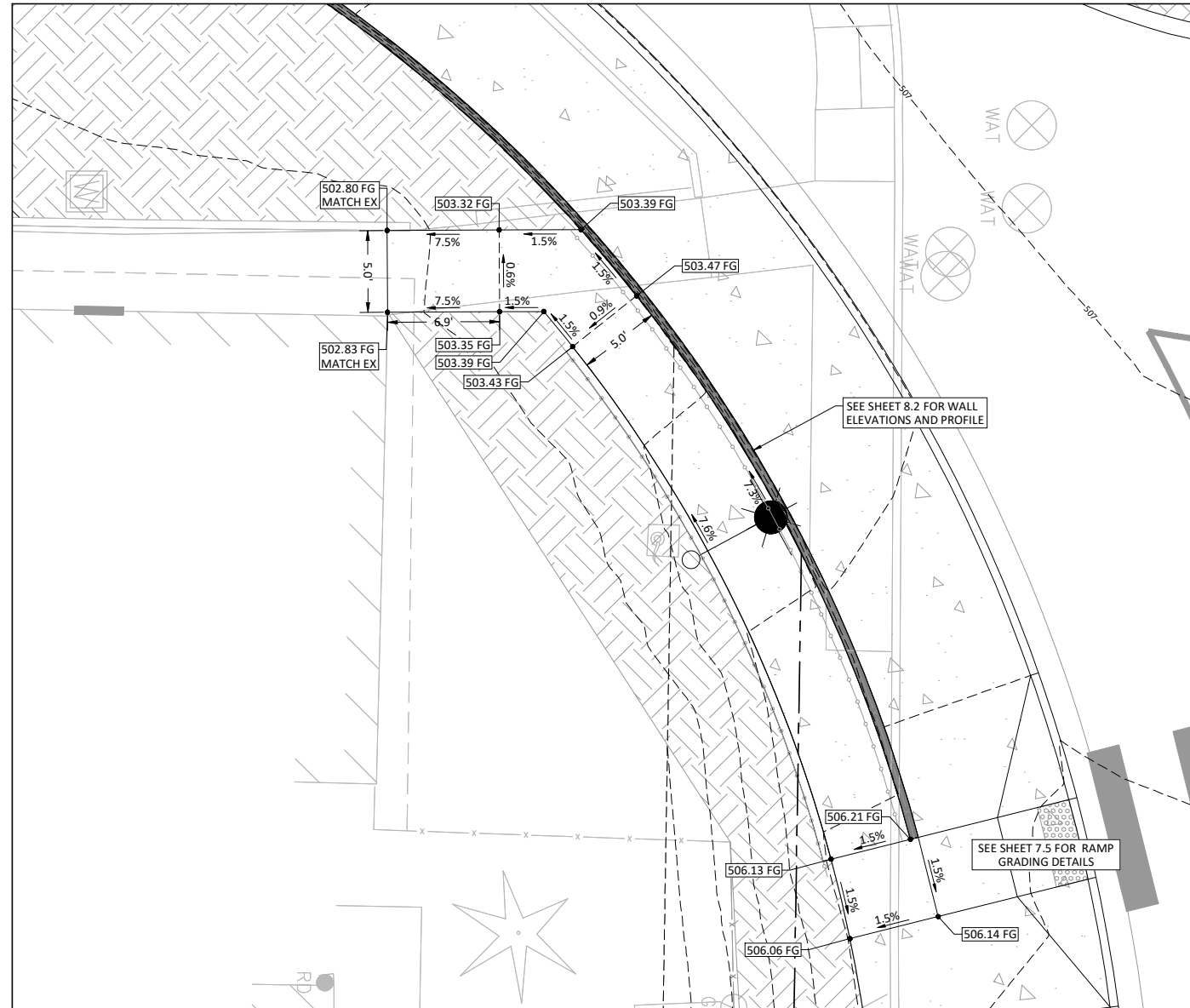


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GRADING DETAILS  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

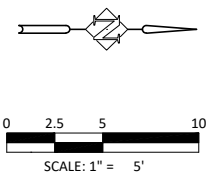
CIP NO.	CIP-07-24
SHEET NO.	<b>7.10</b>
JOB NO.	HAP-14

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**PEDESTRIAN PATH GRADING DETAIL**

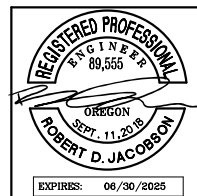
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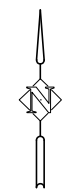
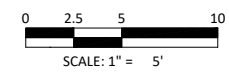
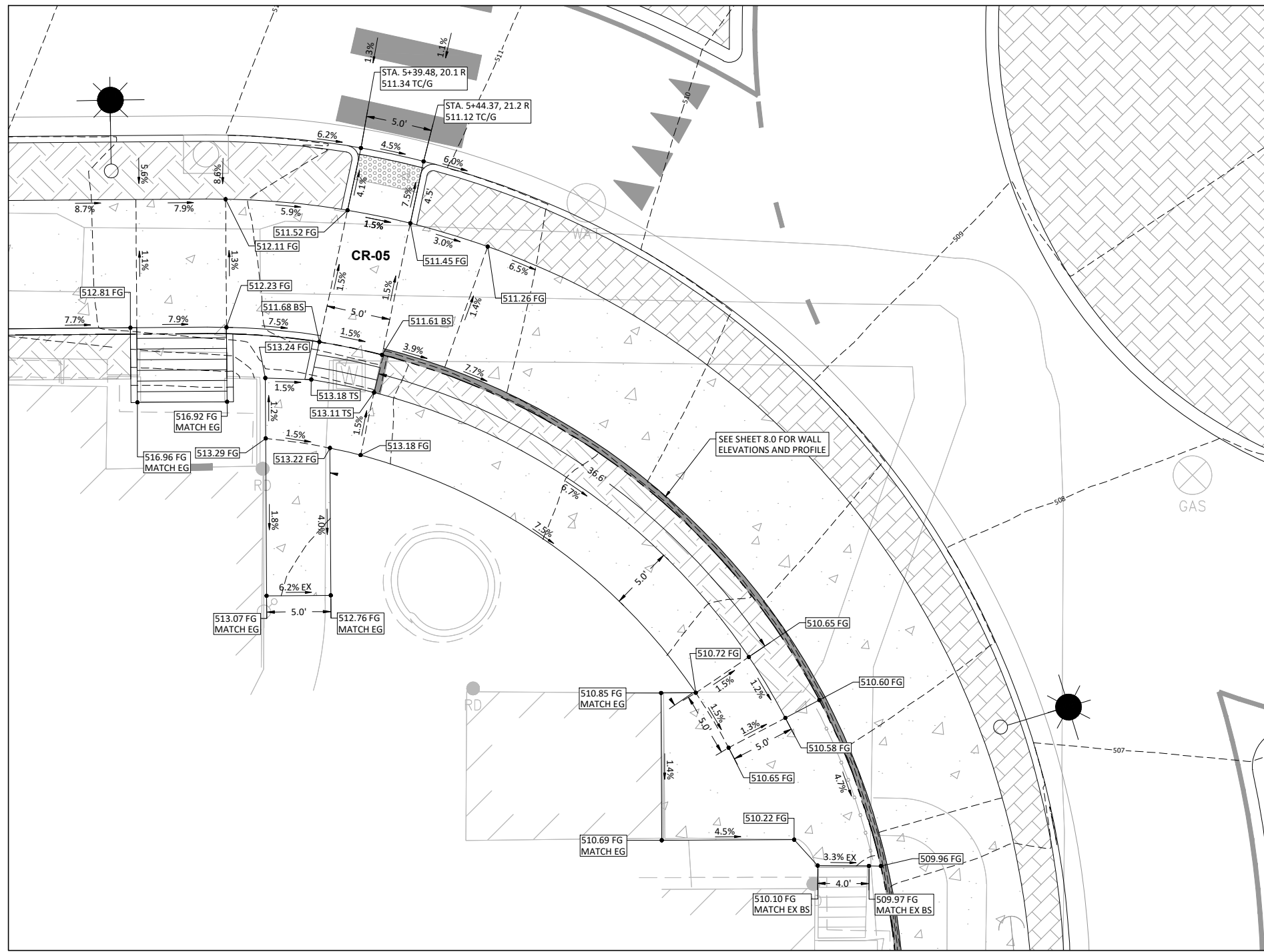


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**GRADING DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>7.11</b>
JOB NO.	HAP-14

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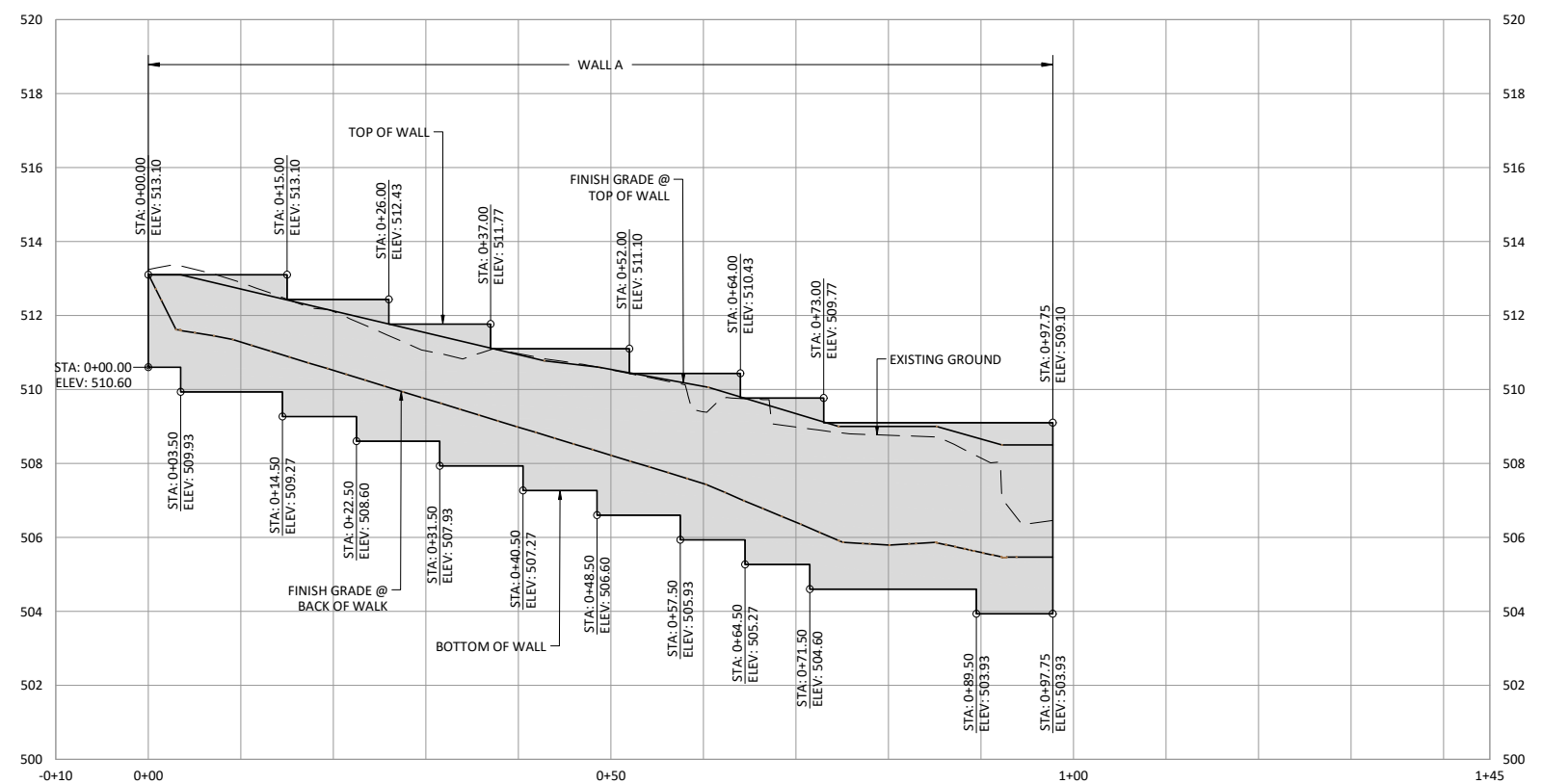
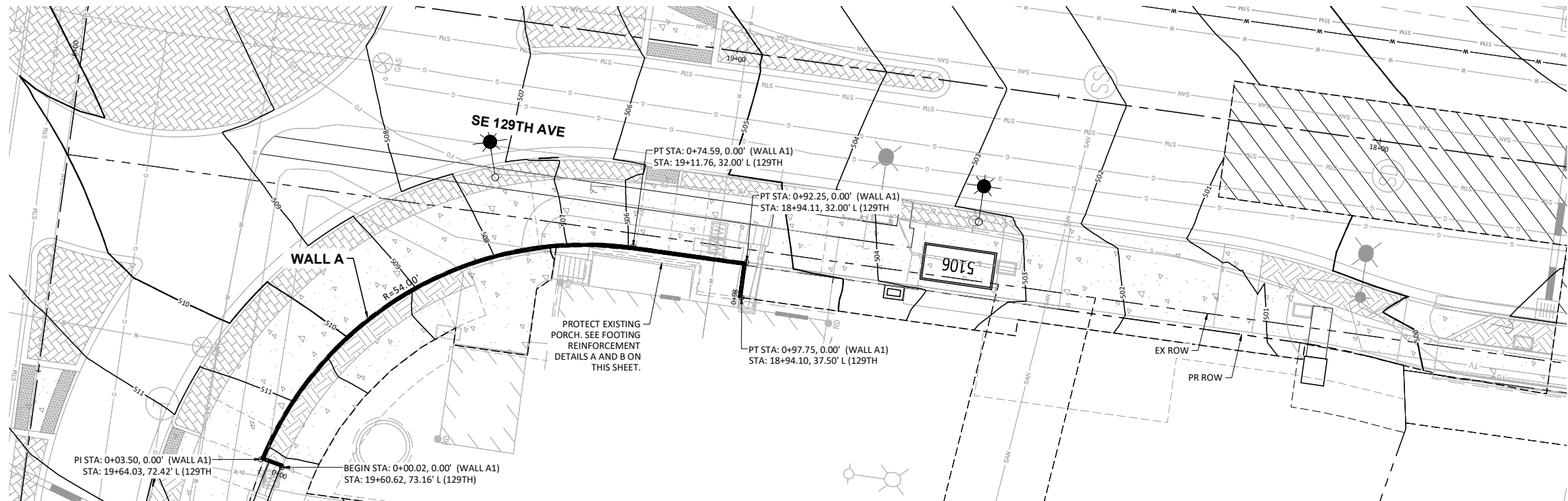


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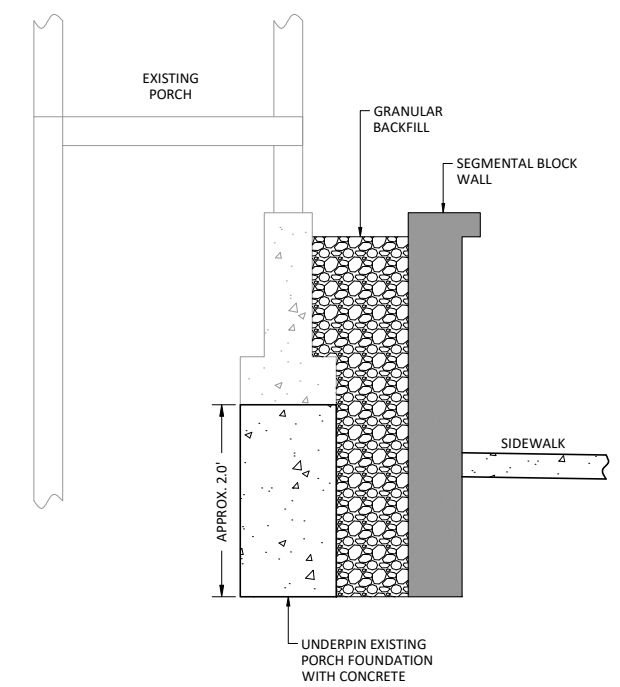
**GRADING DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>7.12</b>
JOB NO.	HAP-14

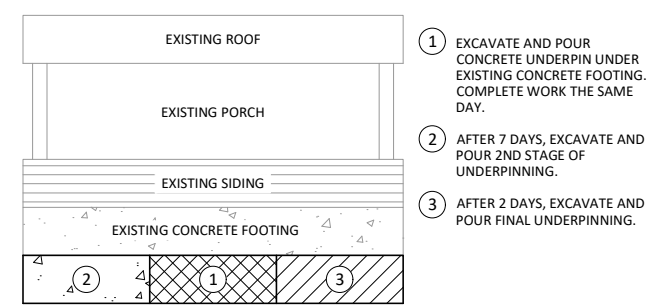
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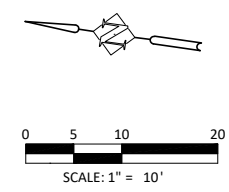
**WALL A**  
SCALE: 1" = 10' (HORIZ.)  
1" = 2' (VERT.)



**FOOTING REINFORCEMENT DETAIL A**  
NTS



**FOOTING REINFORCEMENT DETAIL B**  
NTS



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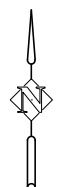
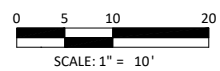
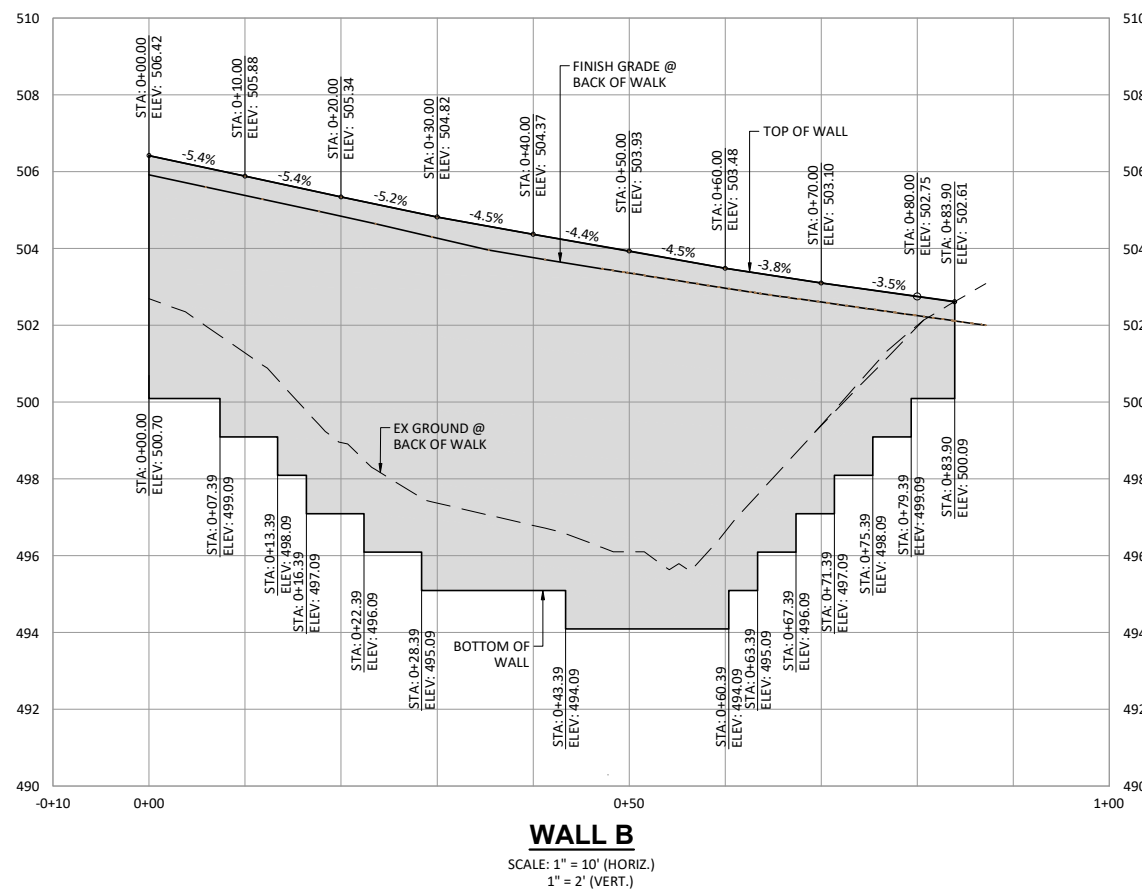
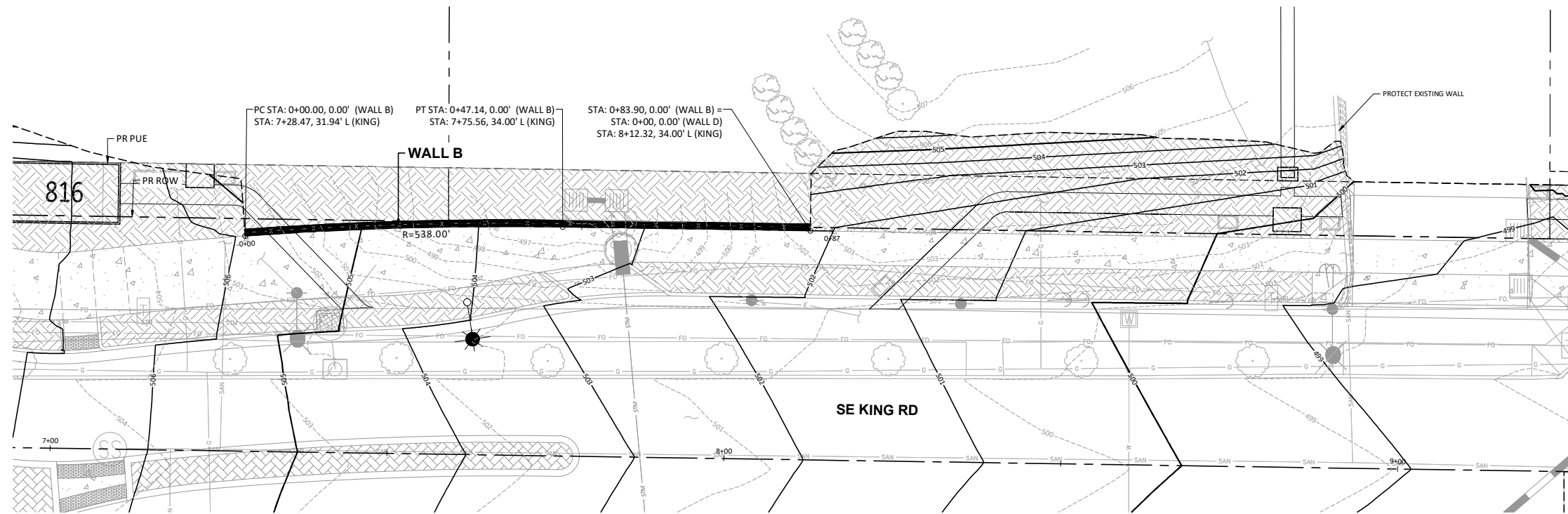
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**WALL A PLAN & PROFILE**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>8.0</b>
JOB NO.	HAP-14



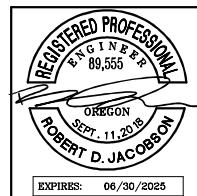
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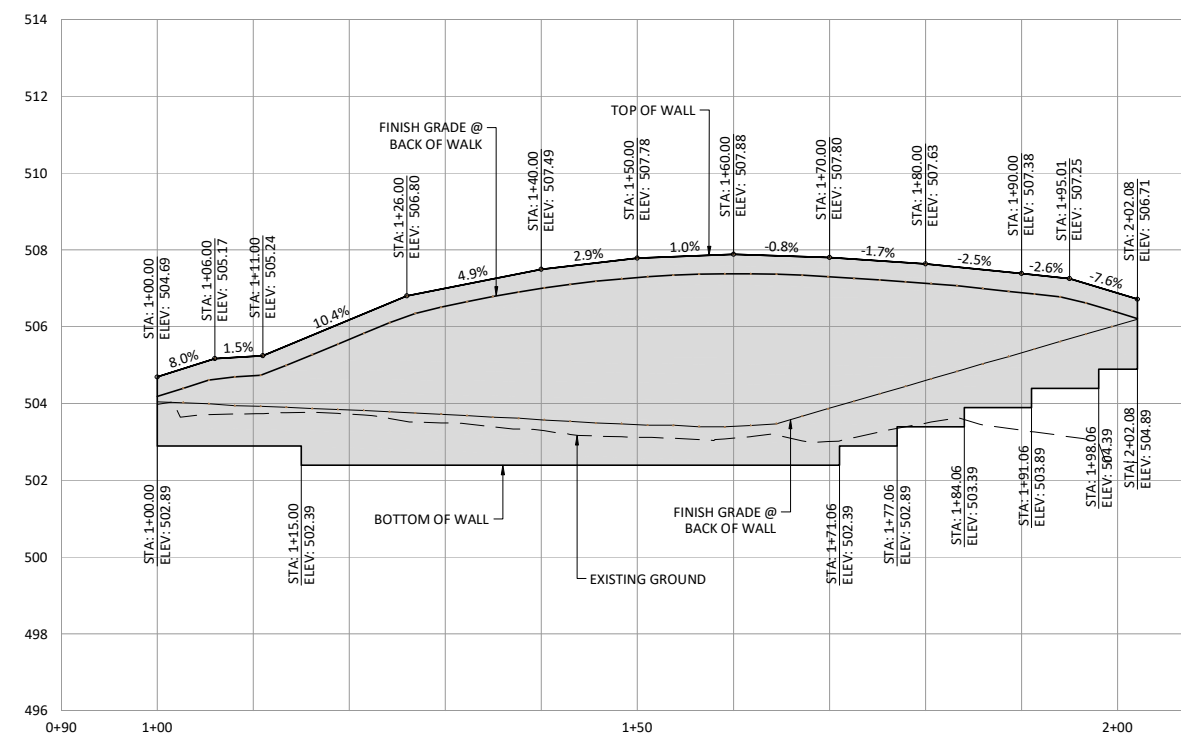
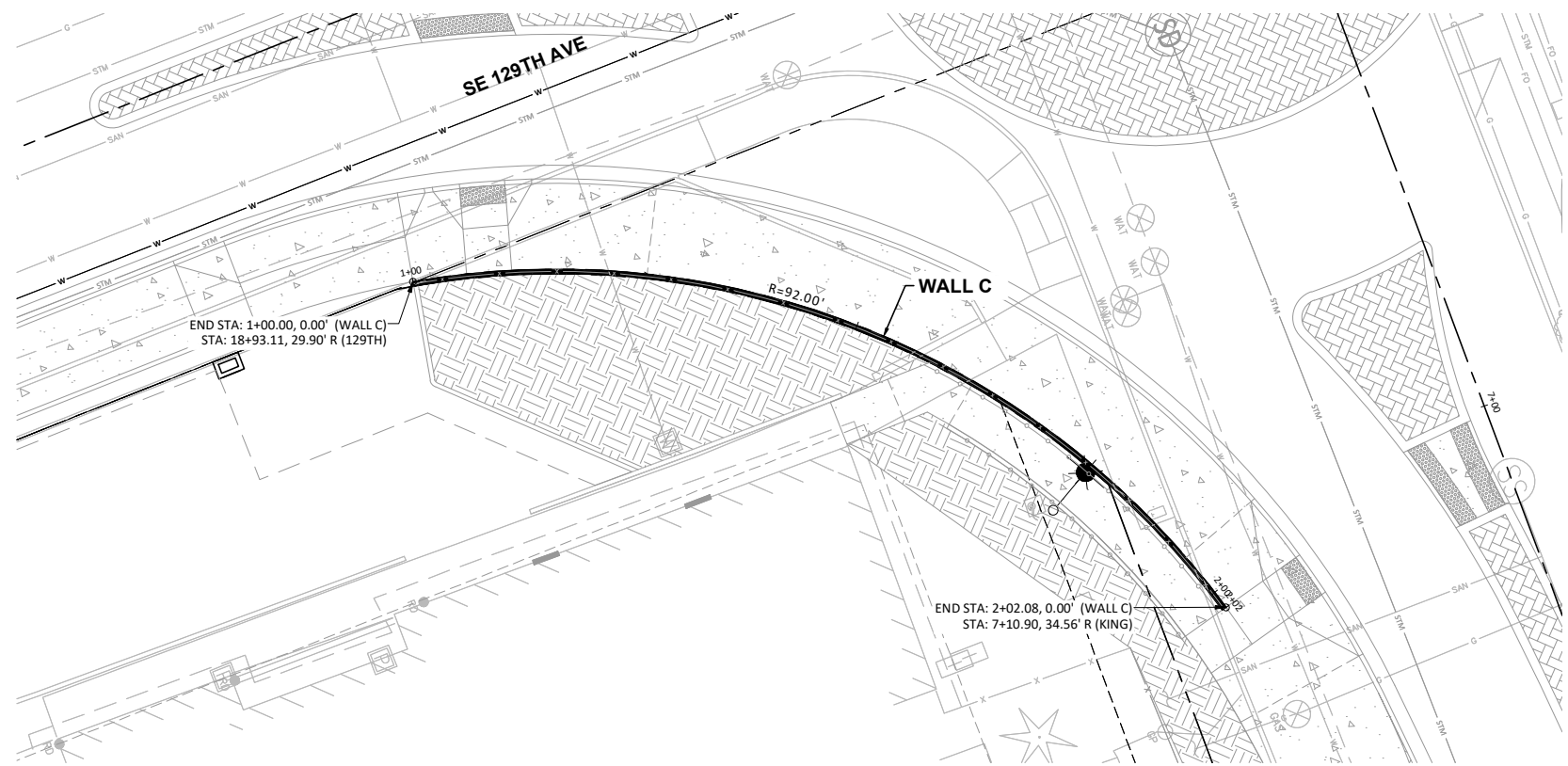


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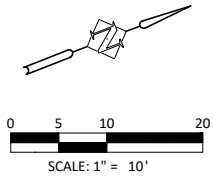
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**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>8.1</b>
JOB NO.	HAP-14

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**WALL C**  
 SCALE: 1" = 10' (HORIZ.)  
 1" = 2' (VERT.)



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**WALL C PLAN & PROFILE**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>8.2</b>
JOB NO.	HAP-14

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STREET FUNCTIONAL CLASSIFICATION	LEVEL HMAC	BINDER GRADE	TOP LIFT HMAC THICKNESS	BASE LIFT HMAC THICKNESS	LEVELING COURSE THICKNESS	BASE ROCK COURSE THICKNESS	GEOTEXT FABRIC REQUIRED
PRIVATE	2	PG64-22	3"	2"	2"	8"	YES
LOCAL	2	PG64-22	2"	2"	2"	8"	YES
NEIGHBORHOOD	3	PG64-22	2"	2"	2"	9"	YES
COLLECTOR	3	PG64-22	2-1/2"	2-1/2"	3"	9"	YES
ARTERIAL	3	PG64-22	2-1/2"	2-1/2"	4"	10"	YES

**NOTES:**

- MATERIALS AND PLACEMENT OF THE HOT MIXED ASPHALT CONCRETE (HMAC) SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 00744 OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, EXCEPT AS MODIFIED BY THE CITY AND/OR APPROVED BY CITY ENGINEER.
- THE TOP LIFT OF HMAC SHALL BE PLACED PRIOR TO CITY FINAL ACCEPTANCE OF PUBLIC INFRASTRUCTURE IMPROVEMENTS.
- CRUSHED AGGREGATE USED FOR BASE ROCK AND LEVELING COURSE SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 02630 - BASE AGGREGATE, OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. MAXIMUM MOISTURE DENSITY BY AASHTO T-180 ASTM D-1557 AS SPECIFIED.
- 1/2" DENSE HMAC MAY BE USED IN-LIEU-OF 3/4" DENSE HMAC FOR THE BASE LIFT OF ASPHALT.
- PAVEMENT DESIGN SHALL BE BASED ON SITE SPECIFIC CONDITIONS. THE ABOVE PAVEMENT SECTIONS REPRESENT THE MINIMUM THICKNESS AFTER COMPACTION.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 160 PAVEMENT SECTIONS**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**SECTION A - A**  
WEIGHT = 52 LBS  
SCALE = N.T.S.

**SECTION B - B**  
WEIGHT = 25 LBS  
SCALE = N.T.S.

**NOTES:**

- MONUMENT BOXES ARE REQUIRED FOR ALL PUBLIC LAND CORNER MONUMENTS THAT FALL WITHIN PAVED AREAS AS WELL AS FOR CENTERLINE MONUMENTS.
- 8" BOXES ARE ACCEPTABLE FOR STREETS WITH SPEEDS LESS THAN 35 MPH.
- 12" BOXES ARE REQUIRED FOR STREETS WITH SPEEDS GREATER THAN 35 MPH.
- IF BOXES ARE INSTALLED AFTER THE PAVEMENT IS PLACED, USE A CIRCULAR CUT. FILL THE VOID WITH CONCRETE OR APPROVED EQUAL.
- MUST BE FLUSH WITH SURROUNDING SURFACE.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 170 MONUMENT BOXES**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**TRENCH RESTORATION: GRANULAR BACKFILL (CROSS-SECTION VIEW)**  
SCALE = N.T.S.

**CONDUIT TRENCH PIPE ZONE (CROSS-SECTION VIEW)**  
SCALE = N.T.S.

**NOTES:**

- SAWCUT EDGES TO BE TACKED WITH EMULSIFIED ASPHALT.
- ASPHALT JOINTS SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENT.
- CONTROL DENSITY FILL SHALL BE USED ON COLLECTOR AND ARTERIAL STREETS. REFER TO CITY DETAIL 210.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 205 TRENCH RESTORATION WITH GRANULAR BACKFILL**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**MONOLITHIC CURB AND GUTTER**  
SCALE = N.T.S.

**NOTES:**

- CONCRETE SHALL BE COMMERCIAL MIX WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- CONSTRUCT EXPANSION JOINTS AT 200' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONTRACTION JOINTS SHALL HAVE:
  - SPACING OF NOT MORE THAN 15 FEET.
  - DEPTH OF JOINT OF AT LEAST 1 1/2".
- BASE ROCK SHALL BE 3/4"-0" CRUSHED AGGREGATE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
- FOR CURB AND GUTTER REQUIREMENTS ON SHED AND SUPERELEVATED ROAD SECTIONS, REVERSE THE GUTTER PAN SLOPE SO THAT THERE IS A 1" DROP FROM FACE OF CURB TO THE EDGE OF THE GUTTER PAN.
- AT CATCH BASIN INLETS TRANSITION GUTTER LINE TO MATCH CATCH BASIN OVER A 3' DISTANCE.
- WEEP HOLES ARE NOT ALLOWED THROUGH THE CURB.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 230 MONOLITHIC CURB AND GUTTER**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**STANDARD VERTICAL CURB**  
SCALE = N.T.S.

**NOTES:**

- VERTICAL CURB MAY BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
- CONCRETE SHALL BE COMMERCIAL MIX WITH A 28-DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- CONSTRUCT EXPANSION JOINTS AT 200' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- CONTRACTION JOINTS SHALL HAVE:
  - SPACING OF NOT MORE THAN 15 FEET.
  - DEPTH OF JOINT OF AT LEAST 1 1/2".
- BASE ROCK SHALL BE 3/4"-0" COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 4", WHICHEVER IS GREATER, AND SHALL EXTEND 12" BEHIND CURB.
- WEEP HOLES ARE NOT ALLOWED THROUGH THE CURB.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 235 VERTICAL CURB**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**INTERSECTION CURB RAMP (PLAN VIEW)**  
SCALE = N.T.S.

**CROSS-SECTION**  
SCALE = N.T.S.

**NOTES:**

- PROJECT ENGINEER SHALL USE THIS DRAWING AS A GUIDE FOR DESIGNING RAMPS AND SHALL PREPARE A SITE SPECIFIC DRAWING FOR EACH RAMP.
- SIDEWALK RAMP SHALL MEET CURRENT ADA STANDARDS. CONSTRUCT ALL RAMPS PERPENDICULAR TO THE CURB. CITY TO INSPECT FORMS PRIOR TO POUR.
- DETECTABLE WARNING SHALL BE TRUNCATED DOME TYPE, 24" LONG IN DIRECTION OF TRAVEL AND FULL WIDTH OF RAMP, WITH DOMES ALIGNED ON A SQUARE GRID WITH ITS GRIDLINES PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE RAMP. COLOR OF DETECTABLE WARNING SURFACE SHALL BE YELLOW AND CONTRAST FROM ADJACENT SURFACE.
- CURB INLET OR CATCH BASIN SHALL NOT BE ALLOWED IN FRONT OF RAMP.
- CONCRETE SHALL BE 4" THICK LAYER OF COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440, OVER 2" LAYER OF 3/4"-0" BASE ROCK COMPACTED TO 95% MAX. DENSITY PER AASHTO T-180.
- SCORE CONCRETE AT GRADE CHANGES, SURFACE TEXTURE CHANGES AND AT ALL OTHER POINTS SHOWN.
- CONCRETE SURFACE SHALL HAVE BROOM FINISH AND EDGE ALL JOINTS.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 245 CURB RAMPS**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**SIDEWALK WITH PLANTER STRIP**  
SCALE = N.T.S.

**CURB-TIGHT SIDEWALK**  
SCALE = N.T.S.

**NOTES:**

- CONCRETE SHALL BE A COMMERCIAL MIX WITH A 28 DAY COMPRESSIVE STRENGTH OF 3300 PSI AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00440.
- SIDEWALK PANELS TO BE SQUARE (5' LONG x 5' WIDE TYP.).
- EXPANSION JOINT MATERIAL SHALL BE PREFORMED FILLER NOT LESS THAN 1/2" WIDE AND SHALL MEET ALL REQUIREMENTS FROM ODOT SECTION 00759.
- FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
- SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 6" IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS A PORTION OF A DRIVEWAY. OTHERWISE SIDEWALK SHALL HAVE A MINIMUM THICKNESS OF 4".
- CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED.
- WIDTH OF PLANTER STRIP IS MEASURED FROM FACE OF CURB. WIDTH OF A CURB-TIGHT SIDEWALK IS MEASURED FROM BACK OF CURB.

**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 250 SIDEWALK**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

**TRENCH RESTORATION WITH CDF**  
SCALE = N.T.S.

**NOTES:**

- SAWCUT EDGES TO BE TACKED WITH EMULSIFIED ASPHALT.
- ASPHALT JOINTS SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENT.
- CONTROL DENSITY FILL (CDF) CONSISTS OF A MIXTURE OF PORTLAND CEMENT, FLY ASH, AGGREGATES, WATER AND ADMIXTURES PROPORTIONED TO PROVIDE A NON-SEGREGATING, SELF-CONSOLIDATING, FREE-FLOWING MATERIAL WHICH WILL RESULT IN A HARDENED, DENSE, NON-SETTLING FILL PRODUCING UNCONFINED COMPRESSIVE 28 DAY STRENGTH FROM 100 PSI TO A MAXIMUM OF 200 PSI.
  - CONTRACTOR WILL PROVIDE BATCH WEIGHTS SHOWING THE AMOUNTS OF ALL INGREDIENTS IN THE MIX, BATCH TIME, AND THE TOTAL AMOUNT OF THE BATCH.
  - CDF SHALL BE PERFORMANCE BASED AND MEET THE FOLLOWING CRITERIA:
    - TYPE F FLY ASH: 200 LB MIN, TYPE I OR II CEMENT: 50 LB MIN
    - SETTLING SHALL BE LESS THAN 1" PER FT DEPTH
    - FINE AGGREGATE (LESS THAN 8") SHALL BE USED
    - CONCRETE UNIT WEIGHT SHALL BE 100 PCF MIN
  - CDF SHALL NOT BE PLACED ON FROZEN GROUND. DURING PLACEMENT TEMPERATURE MUST BE AT LEAST 34 DEGREES F. AND RISING. CDF PLACING SHALL STOP WHEN TEMPERATURE IS 38 DEGREES F OR LESS AND FALLING.
  - TRENCH SECTIONS TO BE FILLED WITH CDF SHALL BE CONTAINED AT EITHER END OF THE TRENCH SECTION BY BULKHEADS OR EARTH FILL.
  - DURING CDF CURE TIME THE CONTRACTOR SHALL INSTALL STEEL SHEETS OR OTHER PROTECTIVE DEVICES TO ALLOW FOR THE PASSAGE AND SAFETY OF TRAFFIC AND SO NO LOAD IS TRANSFERRED TO THE CDF.
  - CONTRACTOR SHALL ALLOW FOR A MINIMUM 48 HOUR CURE TIME FOR CDF PRIOR TO PLACING ASPHALT.
  - 30 INCH DEPTH OF CDF MAY BE REDUCED IF CONFLICTING WITH FIRE ZONE BACKFILL.

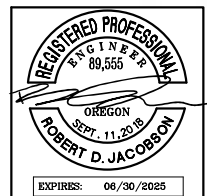
**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 210 TRENCH RESTORATION WITH CDF**  
CITY ENGINEER CAROL EARLE, P.E. DATE: 4/1/2019 REVISED BY: PCB/JHH

DATE	NO.	DESCRIPTION

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DATE:	MAY 2024



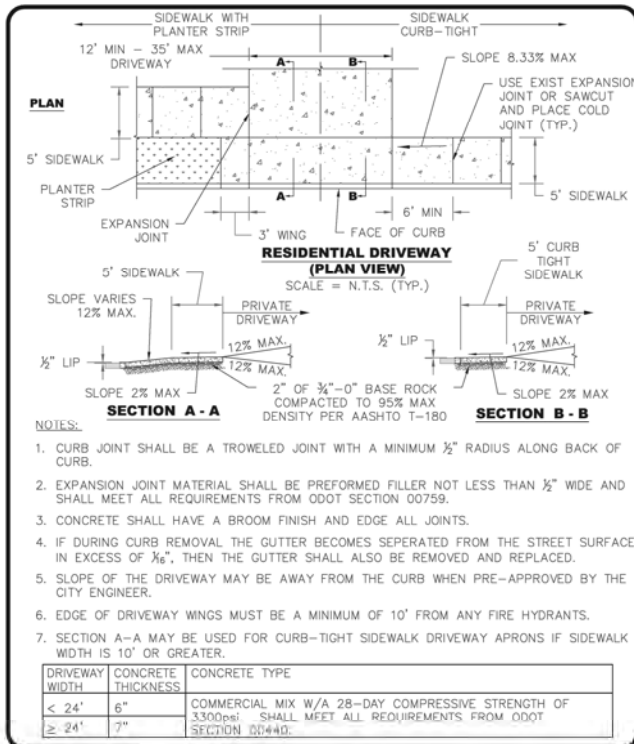
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**DETAILS**

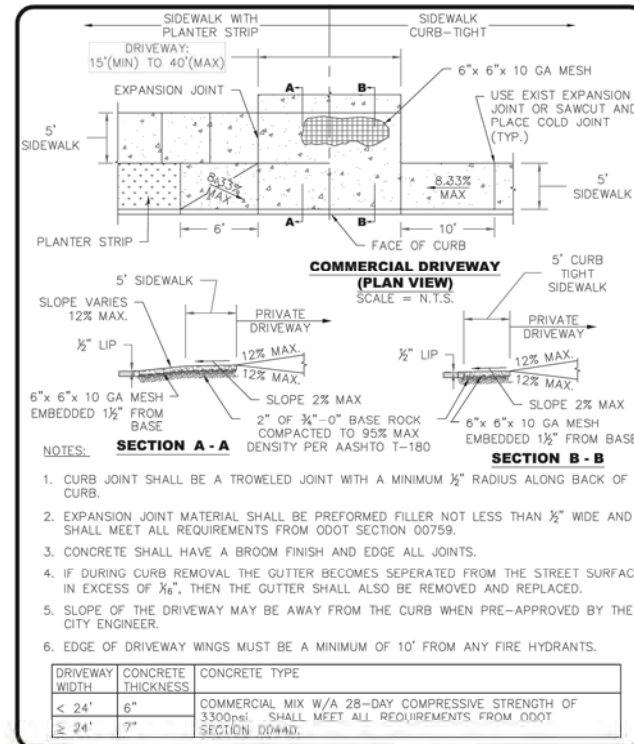
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**HAPPY VALLEY, OREGON**

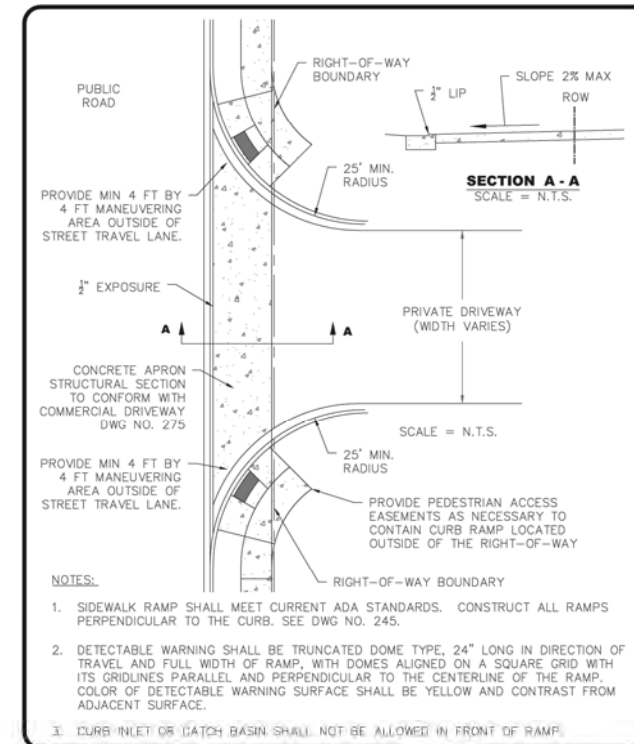
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JOB NO.	HAP-14



CITY OF HAPPY VALLEY ENGINEERING DIVISION 16000 SE MISTY DRIVE HAPPY VALLEY, OR 97086	DWG NO: 270	RESIDENTIAL DRIVEWAY
	CITY ENGINEER CAROL EARLE, P.E.	DATE: 4/1/2019 REVISED BY: PCB/JHH



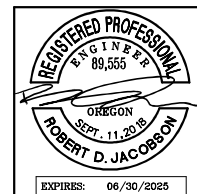
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	CITY ENGINEER CAROL EARLE, P.E.	DATE: 4/1/2019 REVISED BY: PCB/JHH



CITY OF HAPPY VALLEY ENGINEERING DIVISION 16000 SE MISTY DRIVE HAPPY VALLEY, OR 97086	DWG NO: 280	COMMERCIAL DRIVEWAY WITH CURBS
	CITY ENGINEER CAROL EARLE, P.E.	DATE: 4/1/2019 REVISED BY: PCB/JHH

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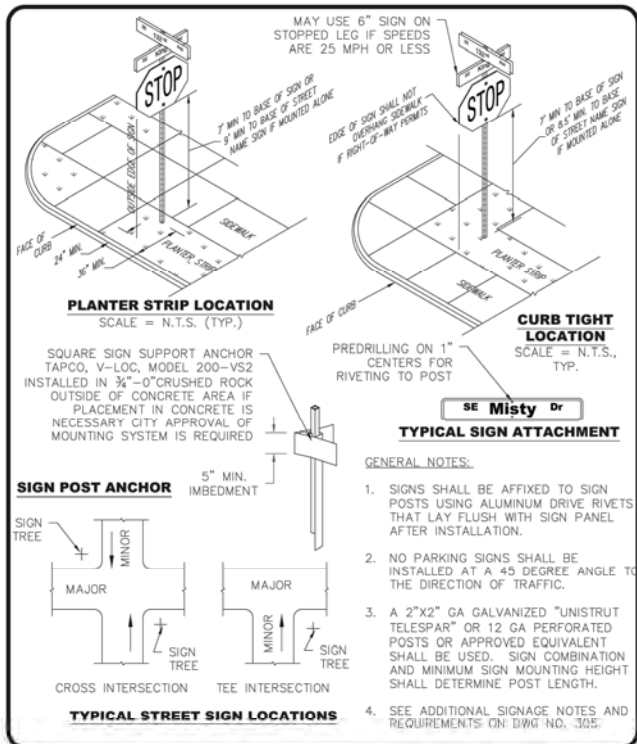
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DETAILS

## 129TH AVE & KING RD ROUNDABOUT

HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	9.1
JOB NO.	HAP-14



**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 300**  
CITY ENGINEER: CAROL EARLE, P.E.  
DATE: 4/1/2019  
REVISED BY: PCB/JHH

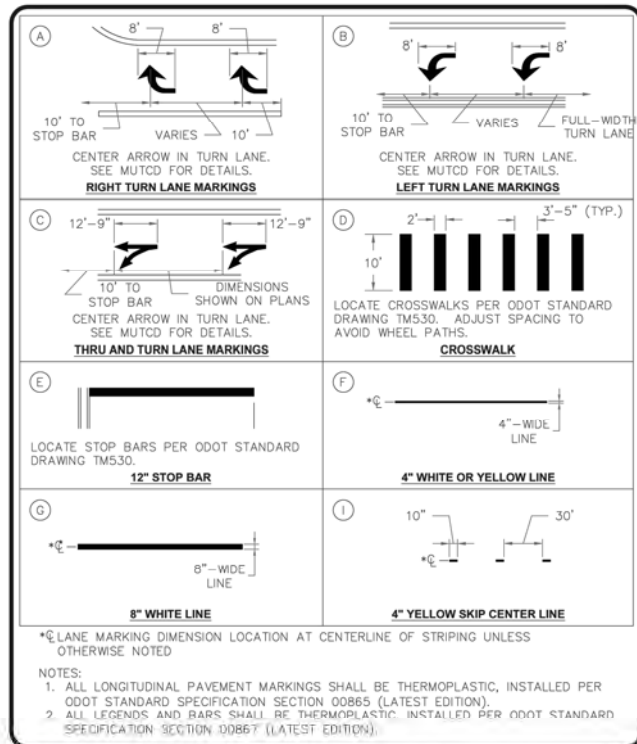
**STREET SIGNING**



**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 305**  
CITY ENGINEER: CAROL EARLE, P.E.  
DATE: 4/1/2019  
REVISED BY: PCB/JHH

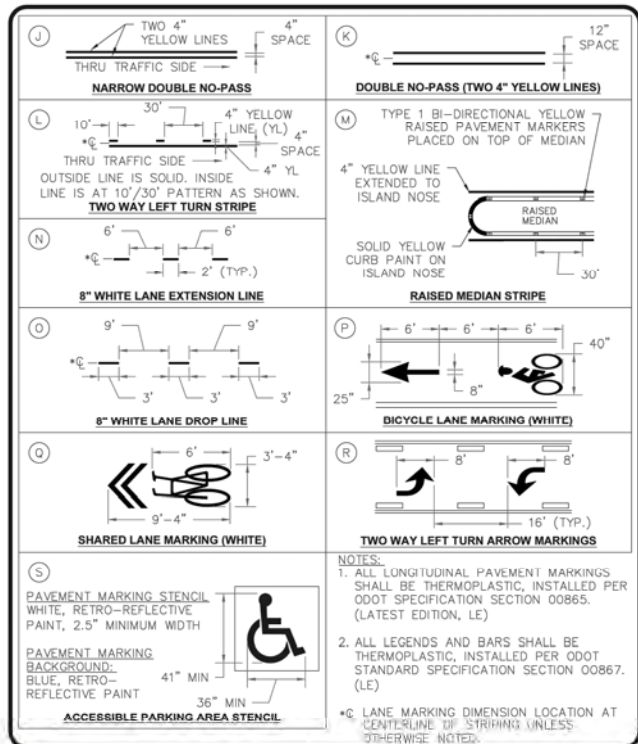
**STREET SIGNING NOTES**



**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 330**  
CITY ENGINEER: CAROL EARLE, P.E.  
DATE: 4/1/2019  
REVISED BY: PCB/JHH

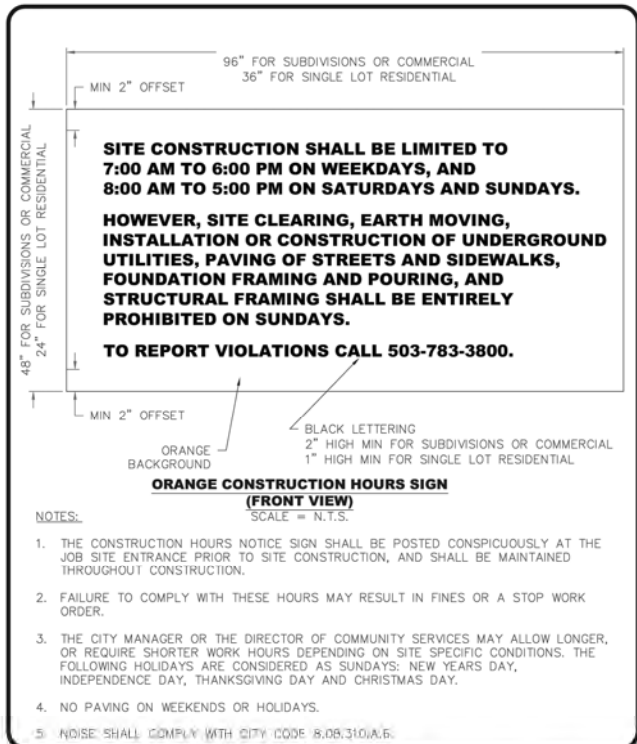
**STRIPING DETAILS 1**



**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 335**  
CITY ENGINEER: CAROL EARLE, P.E.  
DATE: 4/1/2019  
REVISED BY: PCB/JHH

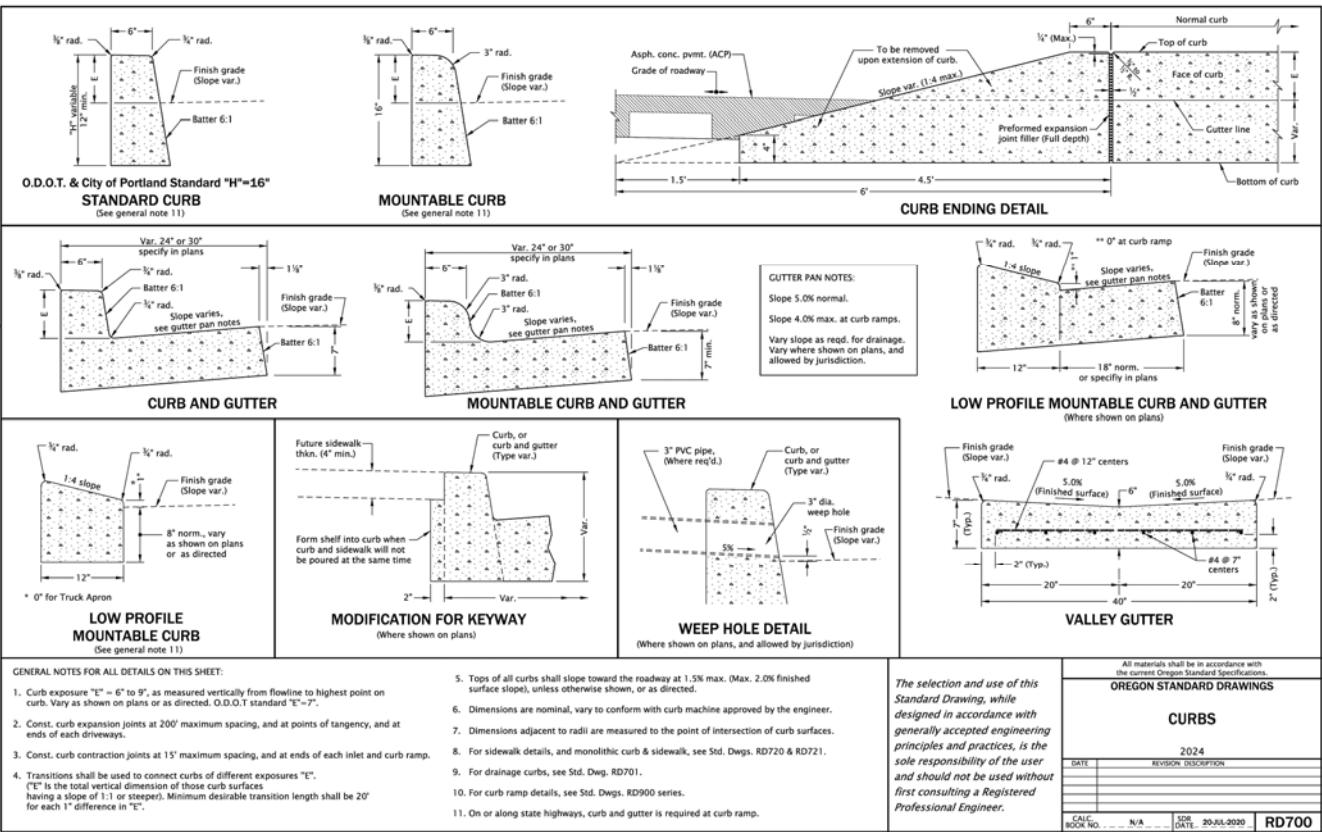
**STRIPING DETAILS 2**



**CITY OF HAPPY VALLEY ENGINEERING DIVISION**  
16000 SE MISTY DRIVE  
HAPPY VALLEY, OR 97086

**DWG NO: 350**  
CITY ENGINEER: CAROL EARLE, P.E.  
DATE: 4/1/2019  
REVISED BY: PCB/JHH

**CONSTRUCTION HOURS NOTICE SIGN**



P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-9.0-Details.dwg

DATE	NO.	DESCRIPTION

DESIGNED: HHPR  
DRAWN: HHPR  
CHECKED: DSH  
DATE: MAY 2024



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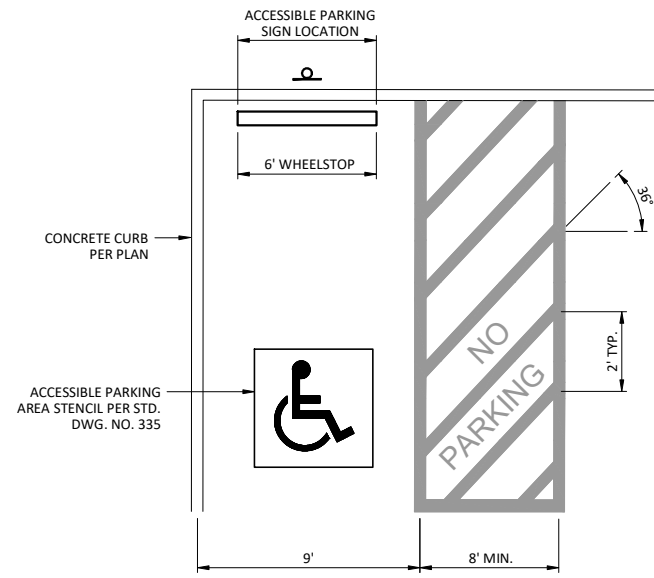
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phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

DETAILS

**129TH AVE & KING RD ROUNDABOUT**

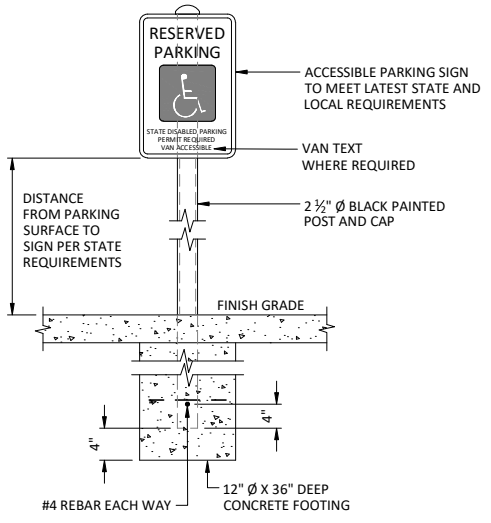
HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	9.2
JOB NO.	HAP-14



**ACCESSIBLE PARKING STALL DETAIL**

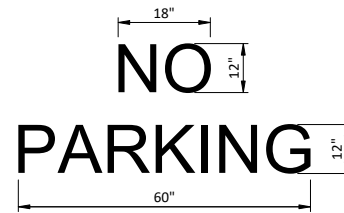
NTS



**ACCESSIBLE PARKING SIGN NOTE:**  
 1. EXISTING ACCESSIBLE PARKING SIGNS BEING RELOCATED ARE TO BE REPLACED IN-KIND AND MEET LATEST STATE AND LOCAL REQUIREMENTS.

**ACCESSIBLE PARKING SIGN**

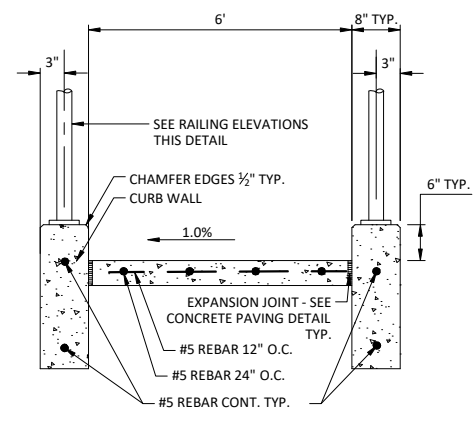
NTS



**"NO PARKING" TEXT STRIPING IN ACCESS AISLE**

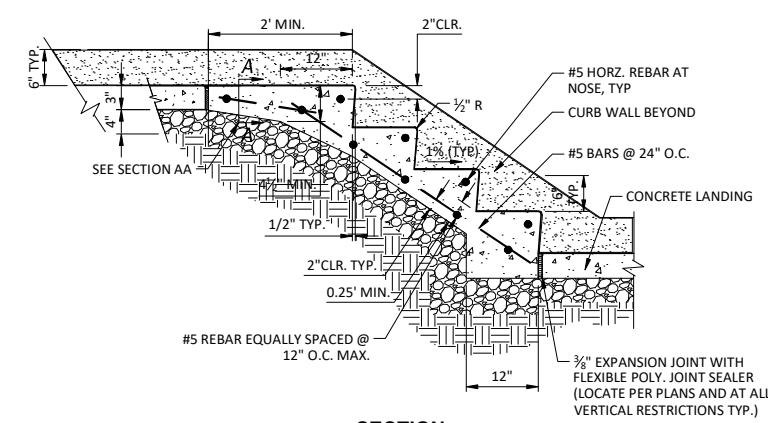
**ACCESSIBLE PARKING TEXT STRIPING**

NTS



**SECTION A-A**

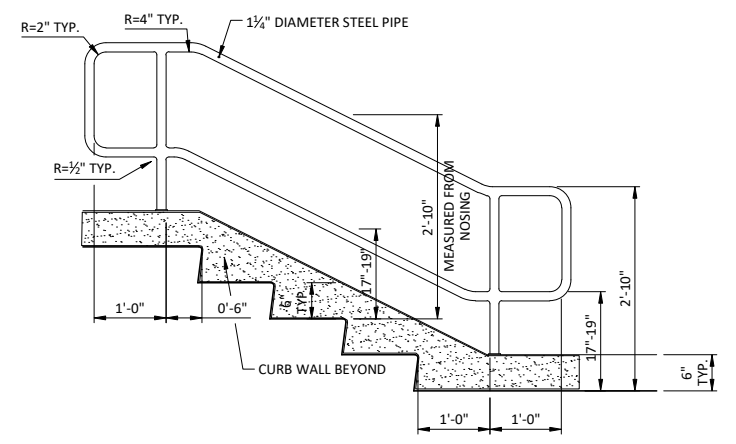
NOTE: SEE RAILING ELEVATION THIS DETAIL PART 2



**SECTION**

**STAIR AND HANDRAIL DETAIL PART #1**

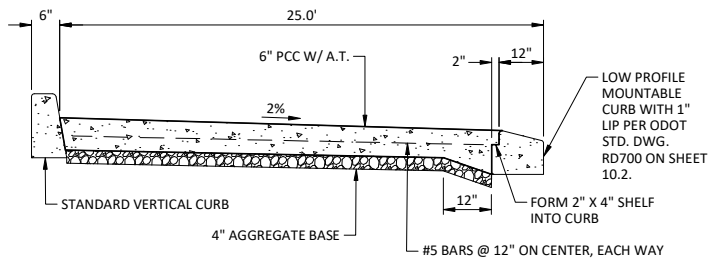
NTS



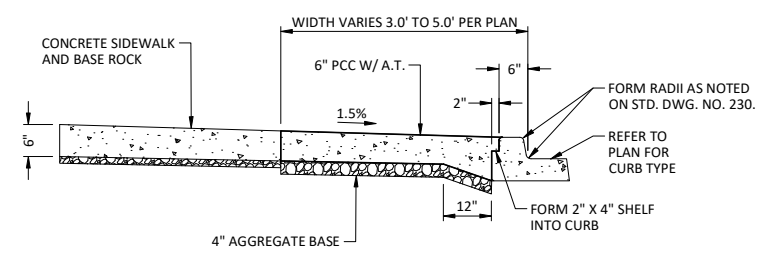
**HANDRAIL ELEVATION**

**STAIR AND HANDRAIL DETAIL #2**

NTS



**STAMPED REINFORCED CONCRETE TRUCK APRON/TRAFFIC SEPARATOR**

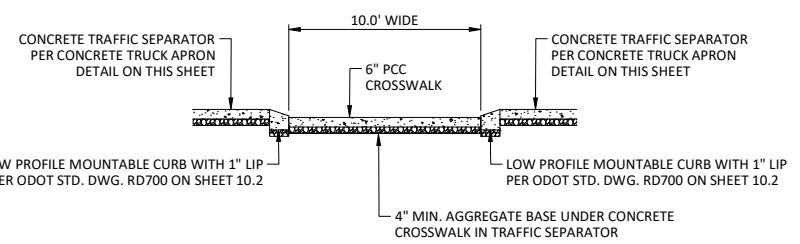


**STAMPED CONCRETE OUTSIDE APRON**

**CONCRETE TRUCK APRON NOTES**  
 1. PLAIN CEMENT CONCRETE (PCC) TO INCLUDE ARCHITECTURAL TREATMENT (A.T.) STAMPED AND COLORED COMMERCIAL GRADE CONCRETE. SEE SPECIAL PROVISIONS.  
 2. CONCRETE TRAFFIC SEPARATOR STRUCTURAL SECTION TO INCLUDE 6" PCC W/ A.T., #5 BARS, AND 4" AGGREGATE BASE PER ROUNDABOUT TRUCK APRON.

**6" THICK STAMPED CONCRETE**

NTS



**CONCRETE CROSSWALK IN TRAFFIC SEPARATOR**

NTS

DESIGNED:	HHPR	
DRAWN:	HHPR	
CHECKED:	DSH	
DATE:	MAY 2024	
DATE	NO.	DESCRIPTION
R E V I S I O N S		

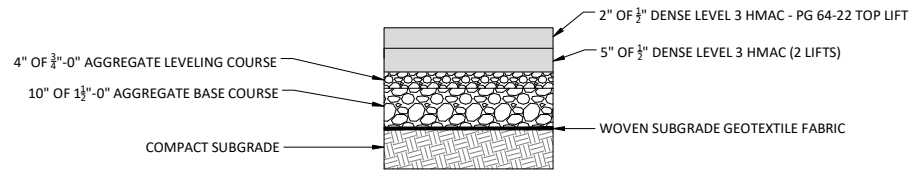


**Harper Houf Peterson Righellis Inc.**  
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**DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

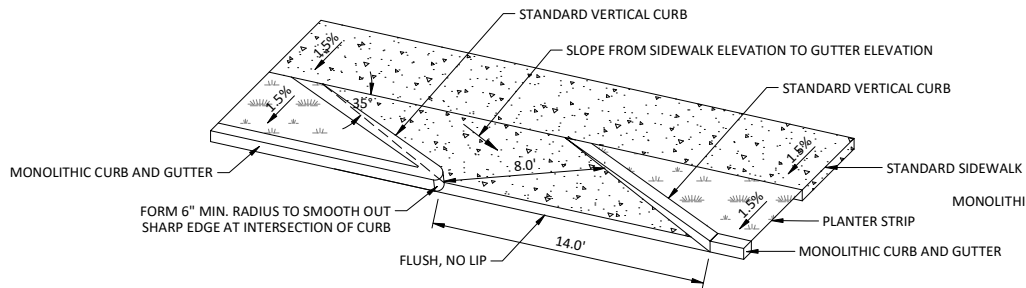
CIP NO.	CIP-07-24
SHEET NO.	<b>9.3</b>
JOB NO.	HAP-14

P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-9-Details.dwg



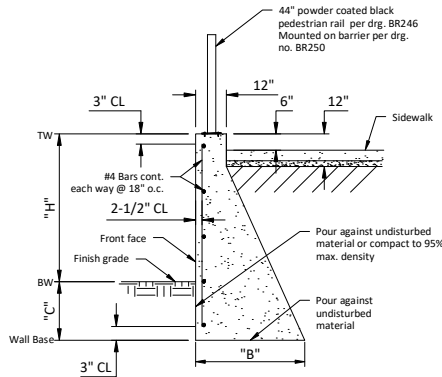
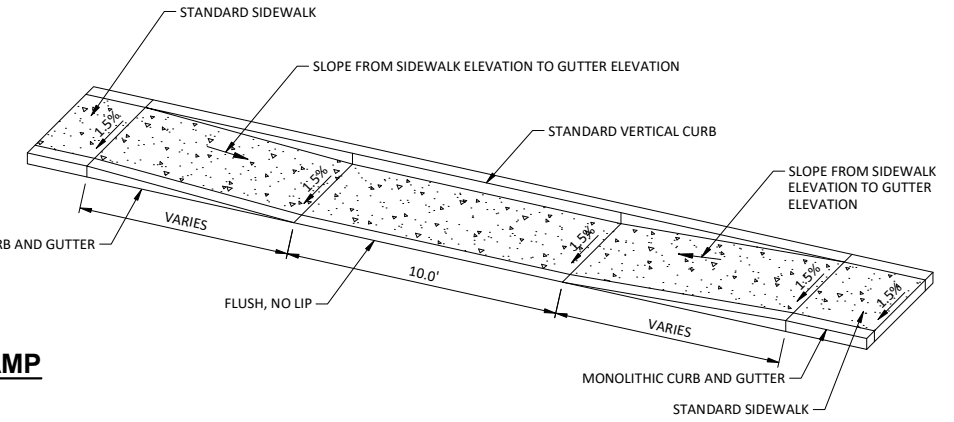
**ROUNDABOUT AC PAVEMENT SECTION**

NTS



**BIKE RAMP**

NTS

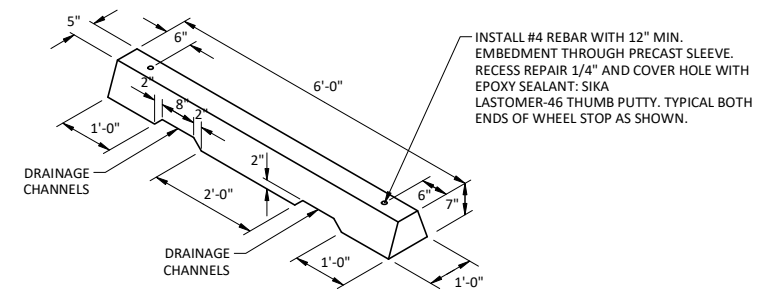


**GRAVITY WALL FOR LEVEL FILL WITH SURCHARGE**

NTS

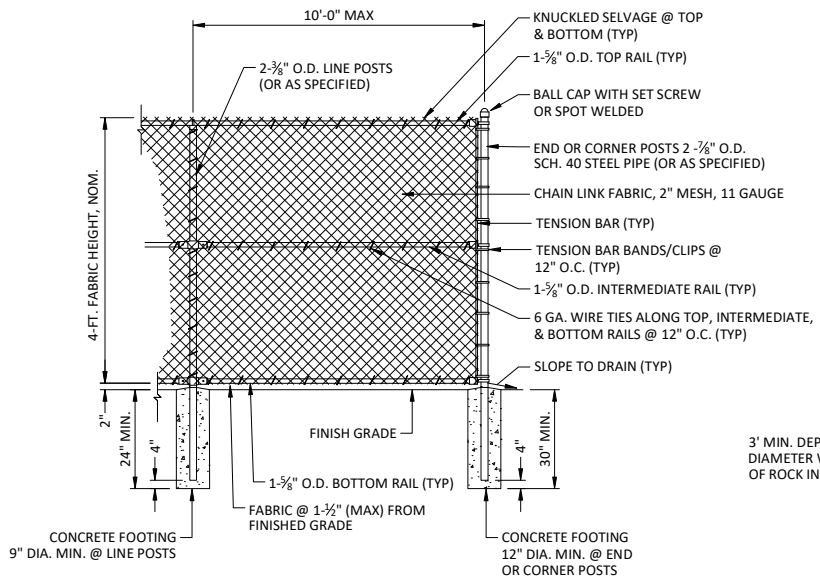
FACE OF WALL SHALL HAVE AN "ASHLAR STONE" FORM LINER. REFER TO SPECIFICATIONS.

WALL DIMENSIONS		
H (FT)	B (FT)	C (INCHES)
0-2	1.0'	12"
2-3	2.5'	12"
3-5	3.5'	12"
5-10	5.5'	12"



**PRECAST CONCRETE WHEEL STOP**

NTS

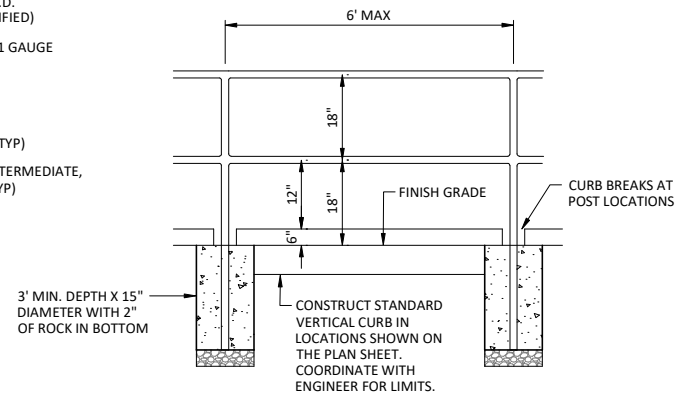


**NOTES:**

- FENCE FABRIC SHALL BE SECURED TO GATE FRAMES WITH KNUCKLED SELVAGE ALONG ALL EDGES FOR ALL TYPES CHAIN LINK FENCE INSTALLATIONS.
- ALL CONCRETE FOOTINGS AROUND POSTS AT GROUND LINE SHALL BE MOUNDED & SLOPED FOR POSITIVE DRAINAGE.
- ALL FENCE POSTS, COMPONENTS, AND FABRIC SHALL BE VINYL COATED BLACK. PROVIDE COLOR SAMPLE FOR APPROVAL.

**TYPICAL FENCE DETAIL**

NTS

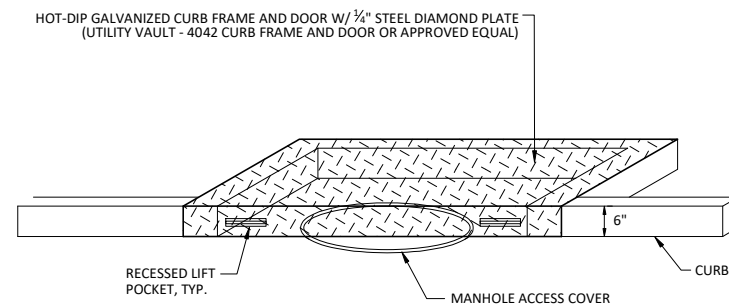


**NOTES:**

- POSTS AND RAILS TO BE CONSTRUCTED FROM:  
- 1 1/4" STD. STEEL PIPE - ASTM A501 (ONE SPAN)  
- 1 1/2" EXTRA STRONG STEEL PIPE - ASTM A501 (TWO OR MORE SPANS)
- RAILING SHALL EXTEND 12" BEYOND STAIR OR RAMP, PER CURRENT ADA GUIDELINES.
- HOT-DIP GALVANIZE ALL METAL PARTS AFTER FABRICATION.

**METAL HANDRAIL DETAIL**

NTS

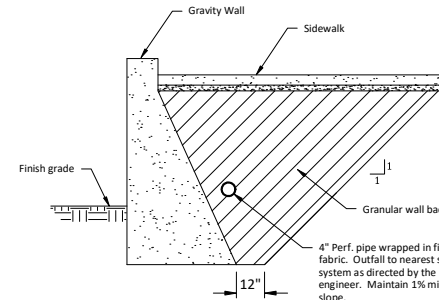


**NOTE:**

CURB FRAME AND DOOR LOCATION SHOWN ON PLAN IS SCHEMATIC. CONTRACTOR TO PROVIDE SHOP DRAWING FOR EACH LOCATION AND OBTAIN APPROVALS PRIOR TO PROCUREMENT AND CONSTRUCTION. COORDINATE WITH ENGINEER.

**CURB FRAME AND DOOR**

NTS



**BACKFILL AND DRAINAGE DETAILS**

NTS

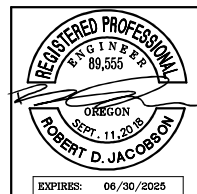
**GENERAL NOTES**

- All material and workmanship shall conform to the special provisions.
- All reinforcing steel shall conform to ASTM specification A706M or A615M grade 420. All #16 bar splices shall be 20" overlap min.
- All concrete shall be "minor structure concrete".
- Place expansion joints in approx. 100' o.c. and contraction joints at approx. 32' o.c. unless otherwise shown.
- There is no batter on the front face of wall.

DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024

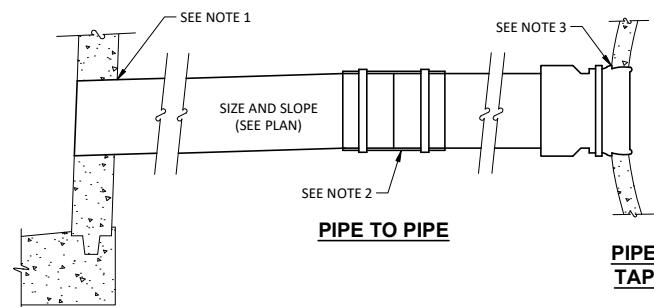


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DETAILS  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>9.4</b>
JOB NO.	HAP-14

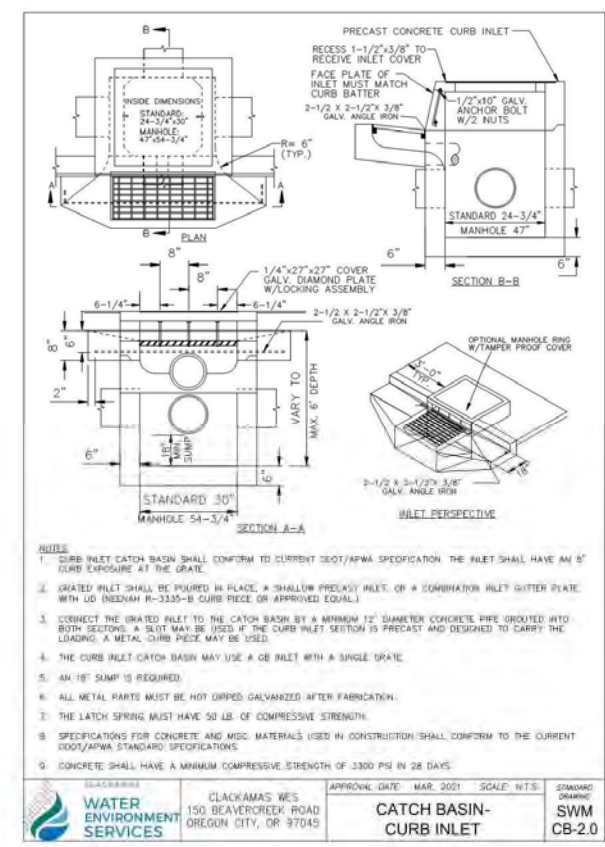
P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2, HAP-14-9.0-Details.dwg



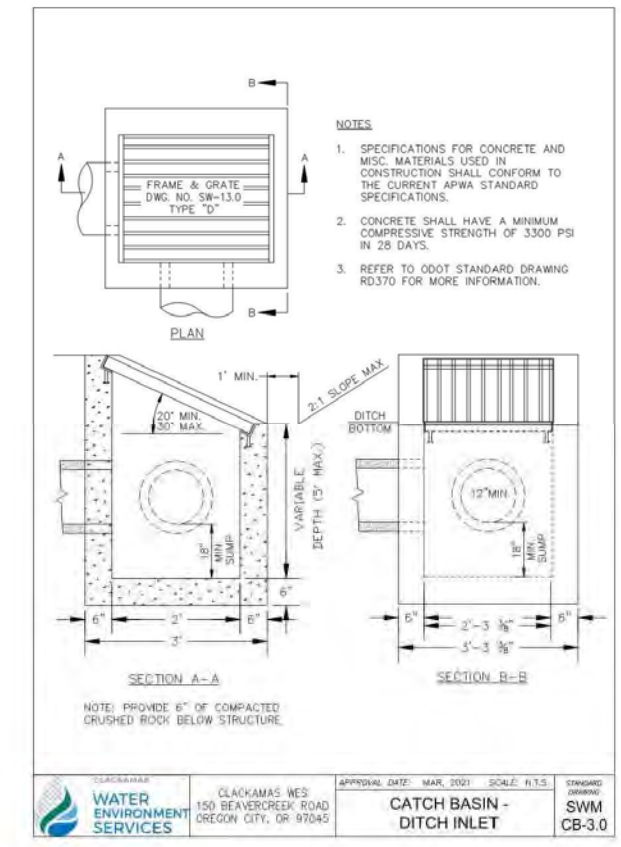
**MANHOLE OR CATCH BASIN**

- NOTES:**
- BREAK OUT WALL 2" MIN., 4" MAX. CLEAR OF PIPE WALL. GROUT SPACE WITH NON-SHRINK GROUT. FOR SANITARY CONNECTION INSTALL SAND COLLAR AS DIRECTED BY WATER ENVIRONMENT SERVICES (WES).
  - USE "FERNCO" FLEXIBLE COUPLING WITH STAINLESS STEEL CLAMPS OR APPROVED EQUAL AS REQUIRED.
  - CUT HOLE INTO PIPE AND INSTALL "FOWLER" SEWER BOOT TAP OR APPROVED EQUAL.

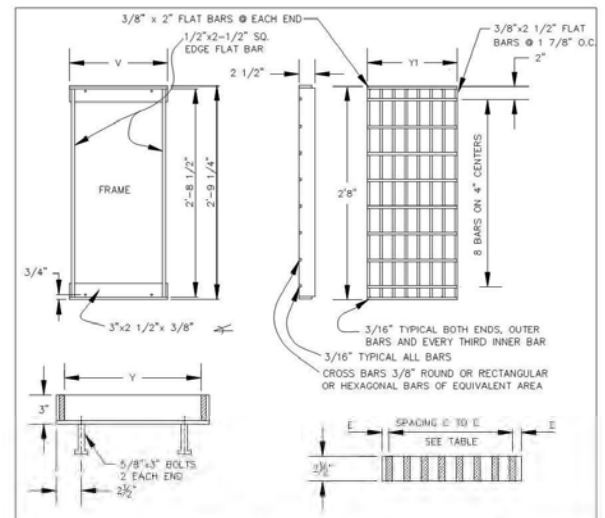
**PIPE CONNECTION**  
NTS



DESIGNED BY: WATER ENVIRONMENT SERVICES  
 CHECKED BY: CLACKAMAS WES, 150 BEAVERCREEK ROAD, OREGON CITY, OR 97045  
 APPROVAL DATE: MAR. 2021 SCALE: N.T.S. STANDARD DRAWING: SWM CB-2.0

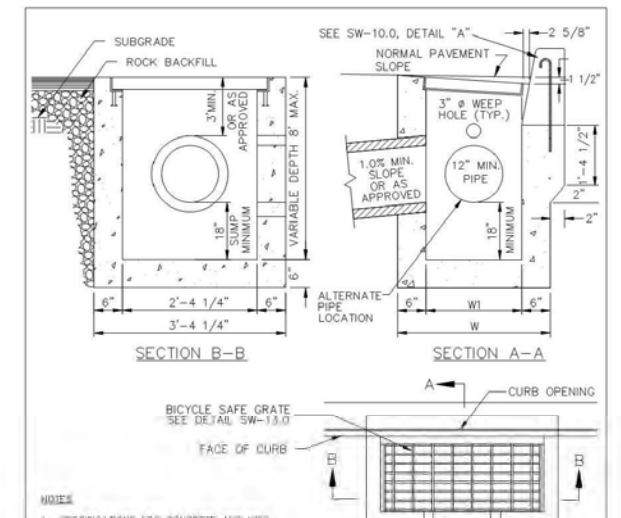


DESIGNED BY: WATER ENVIRONMENT SERVICES  
 CHECKED BY: CLACKAMAS WES, 150 BEAVERCREEK ROAD, OREGON CITY, OR 97045  
 APPROVAL DATE: MAR. 2021 SCALE: N.T.S. STANDARD DRAWING: SWM CB-3.0



CATCH BASIN TYPE	V	Y	Y1	E	SPACING C TO C	NO. OF BARS PER GRATE	REMARKS
GB-2	2'-4 3/4"	2'-3 3/8"	1'-1 1/2"	5/8"	1 3/4"	8	2-GRATES
B	2'-4 3/4"	2'-3 3/8"	2'-3"	1 1/2"	3"	8	
GB	1'-3 1/4"	1'-1 7/8"	1'-1 1/2"	5/8"	1 3/4"	8	1-GRATE

DESIGNED BY: WATER ENVIRONMENT SERVICES  
 CHECKED BY: CLACKAMAS WES, 150 BEAVERCREEK ROAD, OREGON CITY, OR 97045  
 APPROVAL DATE: MAR. 2021 SCALE: N.T.S. STANDARD DRAWING: SWM CB-4.0



CATCH BASIN TYPE	W	W1
GB-2	3'-3 3/8"	2'-3 3/8"

GB-1 NOT ALLOWED

DESIGNED BY: WATER ENVIRONMENT SERVICES  
 CHECKED BY: CLACKAMAS WES, 150 BEAVERCREEK ROAD, OREGON CITY, OR 97045  
 APPROVAL DATE: MAR. 2021 SCALE: N.T.S. STANDARD DRAWING: SWM CB-5.0

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	HHPR
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CHECKED:	DSH
DATE:	MAY 2024



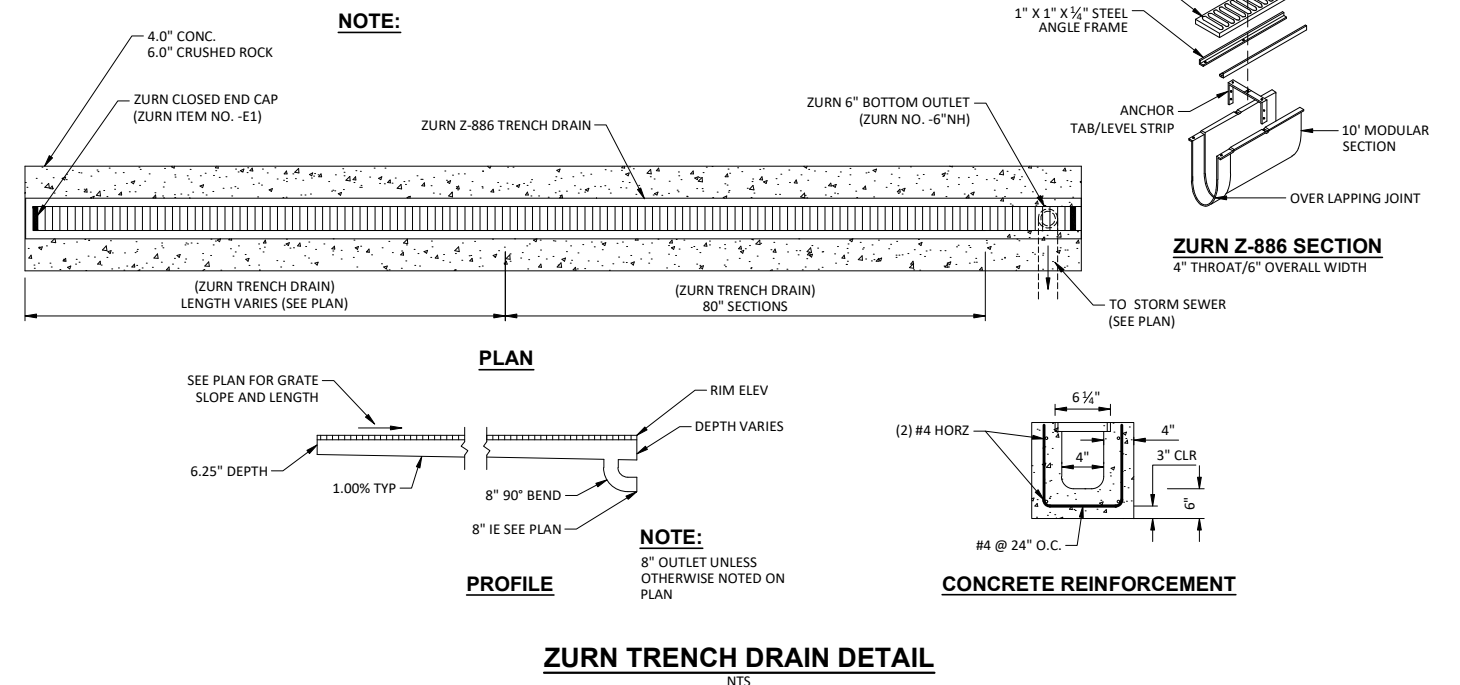
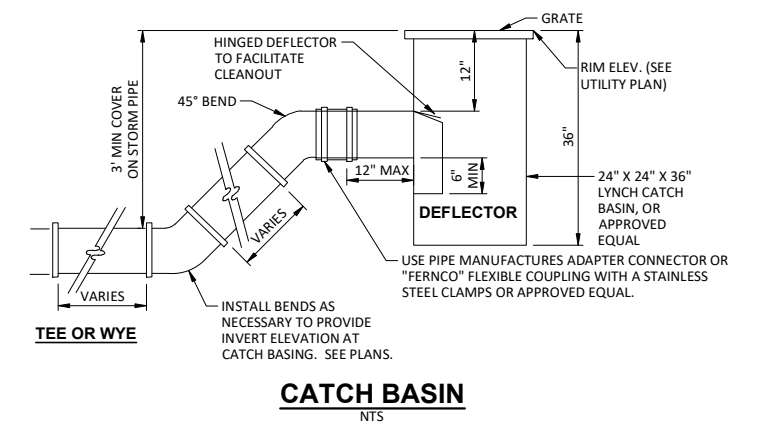
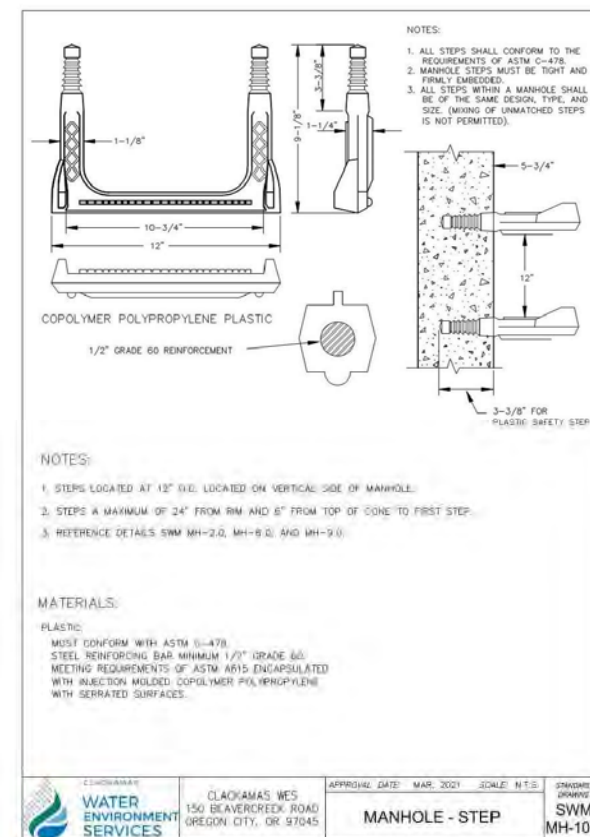
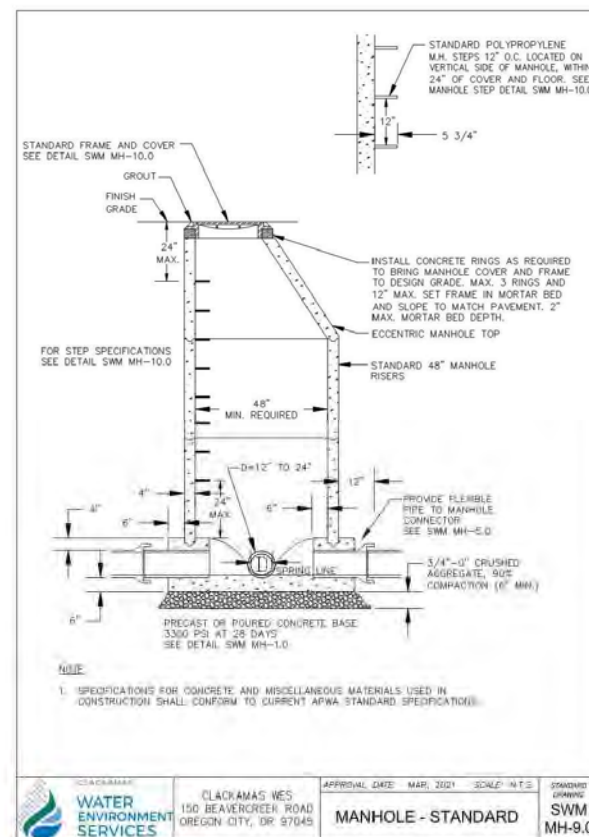
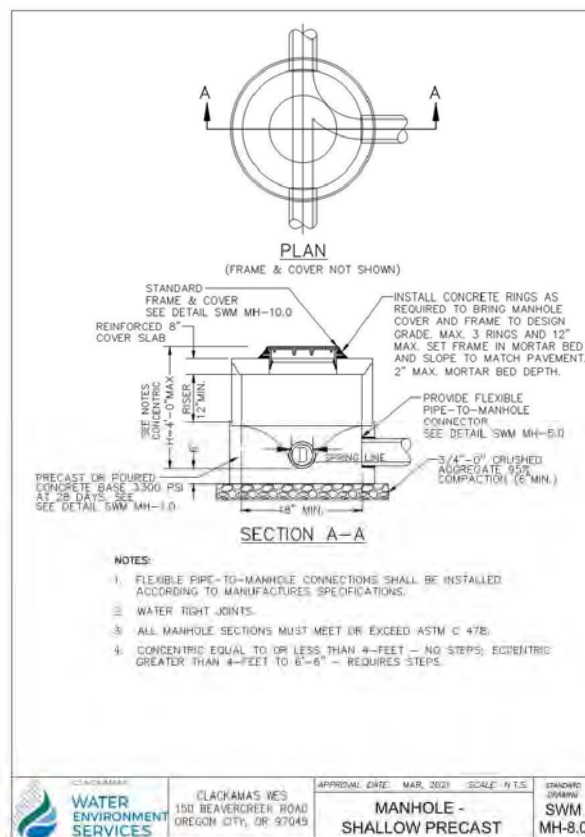
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**DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

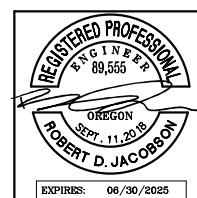
CIP NO.	CIP-07-24
SHEET NO.	<b>9.5</b>
JOB NO.	HAP-14



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DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024
NO.	DESCRIPTION
REVISIONS	



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**DETAILS**

**129TH AVE & KING RD ROUNDABOUT**

**HAPPY VALLEY, OREGON**

CIP NO.	CIP-07-24
SHEET NO.	<b>9.6</b>
JOB NO.	HAP-14

**PLAN VIEW**

**PLAN VIEW**  
CASTINGS NOT SHOWN

**ELEVATION VIEW**

**STORMFILTER DESIGN NOTES**

- CONCRETE CATCHBASIN STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCAL APPROVALS
- PEAK CONVEYANCE CAPACITY IS 1.3 CFS
- CONCRETE CATCHBASIN STORMFILTER IS AVAILABLE WITH UP TO TWO (2) 18\"/>

CARTRIDGE SIZE (in [mm])	27 [693]	18 [457]
RECOMMENDED HYDRAULIC DROP (ft [mm])	3.06 [930]	2.3 [720]
SPECIFIC FLOW RATE (gpm/ft [L/m²])	21.5 [82]	1.87 [71]
CARTRIDGE FLOW RATE (gpm [L/m²])	22.5 [84]	19.75 [77]

LINKING OPTIONS SHOWN BELOW. FLEXIBLE INLET PIPE, GRADED AND SOLID COVER PLACEMENT CONTACT YOUR CONTRACT REPRESENTATIVE FOR MORE INFORMATION

MAXIMUM RIM TO OUTLET PIPE INVERT HEIGHT IS 6.05 (184)

**GENERAL NOTES**

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. ALTERNATE DIMENSIONS ARE MILLIMETERS [mm] UNLESS NOTED OTHERWISE.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND HEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
5. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES (178). FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
7. SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM [L/S]) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF [m²]).
8. STRUCTURE SHALL MEET AASHTO HBS-10 LOAD RATING, ASSUMING EARTH COVER OF 2'-0\"/>

**INSTALLATION NOTES**

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
3. CONTRACTOR TO PROVIDE AND INSTALL PIPES. MATCH PIPE INVERTS SHOWN ON PROJECT SPECIFIC DRAWINGS.
4. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	C9-02
WATER QUALITY FLOW RATE (cfs [L/s])	0.094
PEAK FLOW RATE (cfs [L/s])	0.430
RETURN PERIOD OF PEAK FLOW (yrs)	25
CARTRIDGE SIZE (27, 18)	18
CARTRIDGE FLOW RATE	12.53
MEDIA TYPE (PERLITE, ZPO, FIBER)	ZPO PERLITE
NUMBER OF CARTRIDGES REQUIRED	4
RIM ELEVATION	498.17

PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	498.40	PVC D-3034	12"
INLET PIPE 2	N/A	PVC D-3034	N/A
OUTLET PIPE	498.10	PVC D-3034	12"

NOTES/SPECIAL REQUIREMENTS:

**CONTECH**  
ENGINEERED SOLUTIONS LLC

www.ContechES.com  
11815 NE QUINN WINGING DRIVE, PORTLAND, OR 97220  
800.648.4967 503.240.3393 800.861.5271 FAX

**CONCRETE CATCHBASIN STORMFILTER STANDARD DETAIL**

DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**HHPR** Harper Houf Peterson Righellis Inc.

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DETAILS

**129TH AVE & KING RD ROUNDABOUT**

HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>9.7</b>
JOB NO.	HAP-14

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THESE ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

**STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:**

- ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
- VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
- THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
- SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
- MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SECTIONS 2.1.1. AND 2.2.16)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS.(SECTIONS 2.2.20 AND 2.2.21)
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES. (SECTION 2.2.7)
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
- ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
- IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
- PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
- DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)

**LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES:**

- VEGETATIVE COVER SHALL BE MAINTAINED ON SLOPES OR ESTABLISHED THROUGH NEW PLANTINGS FOR STABILITY AND EROSION CONTROL PURPOSES. VEGETATION SHALL NOT BE STRIPPED FROM ANY STEEPLY SLOPED AREA EXCEPT FOR CONSTRUCTION OF UTILITIES, INTERNAL STREETS, PARKING AREAS, PEDESTRIAN FACILITIES, RETAINING WALLS AND BUILDINGS.
- SEDIMENT THAT IS TRACKED FROM A CONSTRUCTION SITE AND ONTO ADJACENT PUBLIC STREETS WILL NEED TO BE REMOVED IMMEDIATELY BY MECHANICAL MEANS AND NOT WASHED WITH WATER. DUST SHALL BE CONTROLLED WITHIN THE DEVELOPMENT DURING CONSTRUCTION AND SHALL NOT BE PERMITTED TO DRIFT ONTO ADJACENT PROPERTIES.
- WET WEATHER MEASURES SHALL BE IMPLEMENTED AND MAINTAINED BETWEEN THE DATES OF OCTOBER 1ST AND APRIL 30TH. NOTE: EXPERIENCE HAS SHOWN THAT ONCE THE FINE CLAY SOILS IN THE HAPPY VALLEY AREA BECOME WATERBORNE, THEY ARE NOT EASILY SEPARATED FROM WATER. MECHANICAL SYSTEMS, SUCH AS BAKER TANKS, ARE THE MOST EFFECTIVE MEANS OF FILTRATION FOR THESE SOIL TYPES.
- WHEN A CONTRACTOR OR DEVELOPER REQUESTS THE USE OF CEMENT-TREATED BASE (CTB) ON A PROJECT, THEY WILL BE REQUIRED TO PROVIDE A STORMWATER MONITORING ACTION PLAN FOR CITY REVIEW. IF THE CTB IS FOR ROAD BASE, A RECOMMENDED PAVEMENT SECTION FROM THE PROJECT GEOTECH IS REQUIRED TO BE SUBMITTED FOR CITY REVIEW AND APPROVAL. SEE CHAPTER 2, SECTION 11 FOR MORE INFORMATION.
- PRIOR TO PROJECT ACCEPTANCE, THE SITE VEGETATION MUST BE ESTABLISHED AND/OR FINAL EROSION CONTROL MEASURES COVERING ALL EXPOSED SOILS NEED TO BE IN PLACE.

**LOCATION OF NEAREST OFFICIAL RAIN GAUGE:**

SYCO3 - JOHNSON CREEK AT SYCAMORE  
 NESDIS ID: 172E4566  
 NEAR GRESHAM 3W  
 LATITUDE: N 45°28'39"  
 LONGITUDE: W 122°30'29"  
[HTTPS://HADS.NCEP.NOAA.GOV/CGI-BIN/HADS/INTERACTIVEDISPLAYS/DISPLAYMETADATA.PL?TABLE=DCP&NESDIS\\_ID=172E4566](https://hads.ncep.noaa.gov/cgi-bin/hads/interactivedisplays/displaymetadata.pl?table=DCP&nesdis_id=172E4566)

**POLLUTION GENERATING ACTIVITIES:**

- FUEL/HYDRAULIC FLUID/OIL FROM VEHICLE AND CONSTRUCTION EQUIPMENT
- DEBRIS/FERTILIZER/PESTICIDES/HERBICIDES FROM CLEARING AND LANDSCAPING

THE POLLUTANT GENERATING ACTIVITIES LISTED ABOVE WILL OCCUR THROUGHOUT THE ENTIRE PROJECT AREA.

NO POLLUTANTS SHALL BE ALLOWED TO BE DISCHARGED INTO THE STORM SYSTEM. THE CONTRACTOR SHALL PROVIDE DEQ APPROVED SPILL AND CONTAINMENT FACILITIES IN MATERIAL STORAGE LOCATION SHOWN ON PLANS.

ALL VEHICLES, EQUIPMENT, AND MATERIALS SHALL BE STORED IN THE STAGING AND STORAGE AREAS AS MARKED ON THE EROSION AND SEDIMENT CONTROL PLANS.

**SPILL PREVENTION PROCEDURES:**

- DISCHARGES OF TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE ARE PROHIBITED. WHERE A LEAK, SPILL, OR OTHER RELEASE CONTAINING HAZARDOUS SUBSTANCE OR OIL OCCURS DURING A 24-HOUR PERIOD, THE REGISTRANT MUST NOTIFY THE OREGON EMERGENCY RESPONSE SYSTEM AT (800) 425-0311 AS SOON AS THE REGISTRANT HAS KNOWLEDGE OF THE RELEASE. CONTACT INFORMATION MUST BE IN LOCATIONS THAT ARE READILY ACCESSIBLE AND AVAILABLE TO ALL EMPLOYEES.
- REFERENCE THE SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLANS DEVELOPED FOR ALL CONSTRUCTION ACTIVITIES ON SITE. PROVIDE A COPY ON SITE AT ALL TIMES.
- WASTE MANAGEMENT ON-SITE SHALL MEET THE FOLLOWING CONDITIONS:
  - LOCATE ACTIVITIES AWAY FROM WATERS OF THE STATE AND STORMWATER INLETS OR CONVEYANCES SO THAT STORMWATER COMING INTO CONTACT WITH THESE ACTIVITIES CANNOT REACH WATERS OF THE STATE;
  - ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO HANDLE SPILLS, LEAKS, AND DISPOSAL OF LIQUIDS, AND PROVIDE SECONDARY CONTAINMENT (E.G. SPILL BERMS, DECKS, SPILL CONTAINMENT PALLETS); HAVE A SPILL KIT AVAILABLE ON SITE AND ENSURE PERSONNEL ARE AVAILABLE TO RESPOND EXPEDITIOUSLY IN THE EVENT OF A LEAK OR SPILL;
  - CLEAN UP SPILLS OR CONTAMINATED SURFACES IMMEDIATELY USING DRY CLEAN UP MEASURES (DO NOT CLEAN CONTAMINATED SURFACES BY HOSING THE AREA DOWN), AND ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A CONTINUATION OF AN ONGOING DISCHARGE; AND
  - STORE MATERIALS IN A COVERED AREA (E.G., PLASTIC SHEETING, TEMPORARY ROOFS), OR IN SECONDARY CONTAINMENT TO PREVENT THE EXPOSURE OF THESE CONTAINERS TO PRECIPITATION OR STORMWATER RUNOFF, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS.
  - MINIMIZE MATERIAL EXPOSURE IN CASES WHERE THE EXPOSURE TO PRECIPITATION OR TO STORMWATER WILL RESULT IN A DISCHARGE OF POLLUTANTS (E.G. ELEVATE MATERIALS FROM SOIL TO PREVENT LEACHING OF POLLUTANTS).
- FERTILIZERS MAY BE USED TO ESTABLISH VEGETATION IN LOCATIONS SHOWN ON SHEET EC1.4 SUCH THAT FERTILIZERS ARE INSTALLED PER PROJECT SPECIFICATIONS. SEE LANDSCAPE PLANS/SPECIFICATIONS FOR MORE INFORMATION.

**WORK HOURS**

7:00 AM TO 6:00 PM ON WEEKDAYS  
 8:00 AM TO 5:00 PM ON SATURDAYS AND SUNDAYS

SITE CLEARING, EARTH MOVING, INSTALLATION OR CONSTRUCTION OF UNDERGROUND UTILITIES, PAVING OF STREETS AND SIDEWALKS, FOUNDATION FRAMING AND POURING, AND STRUCTURAL FRAMING SHALL BE ENTIRELY PROHIBITED ON SUNDAYS.

**AUTHORIZED NON-STORMWATER DISCHARGES:**

THE FOLLOWING NON-STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE AUTHORIZED IF THE TERMS AND CONDITIONS OF THIS PERMIT ARE MET, ALL NECESSARY CONTROLS ARE IMPLEMENTED TO MINIMIZE SEDIMENT TRANSPORT, THE DISCHARGE IS NOT A SIGNIFICANT SOURCE OF POLLUTANTS AND NOT CONTAMINATED, AND THE DISCHARGE IS NOT PROHIBITED BY LOCAL ORDINANCE.

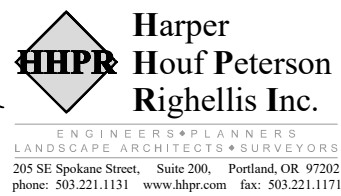
- WATER AND ASSOCIATED DISCHARGES FROM EMERGENCY FIREFIGHTING ACTIVITIES;
- FIRE HYDRANT FLUSHING;
- PROPERLY MANAGED LANDSCAPE IRRIGATION;
- WATER USED TO WASH EQUIPMENT AND VEHICLES (EXCLUDING THE ENGINE, UNDERCARRIAGE, AND WHEELS/TIRES) PROVIDED THERE IS NO DISCHARGE OF SOAPS, SOLVENTS, OR DETERGENTS USED;
- WATER USED TO CONTROL DUST;
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS;
- EXTERNAL BUILDING WASHDOWN, PROVIDED SOAPS, SOLVENTS, AND DETERGENTS ARE NOT USED, AND EXTERNAL SURFACES DO NOT CONTAIN HAZARDOUS SUBSTANCES;
- PAVEMENT WASH WATERS, PROVIDED SPILLS OR LEAKS OF TOXIC OR HAZARDOUS SUBSTANCES HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE SOAPS, SOLVENTS, AND DETERGENTS ARE NOT USED. DIRECTING PAVEMENT WASH WATERS INTO ANY SURFACE WATER, STORM DRAIN INLET, OR STORMWATER CONVEYANCE IS PROHIBITED, UNLESS THE CONVEYANCE IS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL FOR THE POLLUTANTS PRESENT. PER 2.2.19.B, HOSING OF ACCUMULATED SEDIMENTS ON PAVEMENT INTO ANY STORMWATER CONVEYANCE IS PROHIBITED;
- UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- UNCONTAMINATED, NON-TURBID DISCHARGES OF GROUNDWATER OR SPRING WATER;
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS OR CONTAMINATED GROUNDWATER; AND
- CONSTRUCTION DEWATERING ACTIVITIES (INCLUDING GROUNDWATER DEWATERING AND WELL DRILLING DISCHARGE ASSOCIATED WITH THE REGISTERED CONSTRUCTION ACTIVITY), PROVIDED THAT:
  - THE WATER IS LAND APPLIED IN A WAY THAT RESULTS IN COMPLETE INFILTRATION WITH NO POTENTIAL TO DISCHARGE TO A SURFACE WATER OF THE STATE, OR THE USE OF A SANITARY OR COMBINED SEWER DISCHARGE IS AUTHORIZED WITH LOCAL SEWER DISTRICT APPROVAL; OR
  - BEST MANAGEMENT PRACTICES AND A TREATMENT SYSTEM APPROVED BY DEQ OR AGENT (SEE SECTION 1.2.9) ARE USED TO ENSURE COMPLIANCE WITH DISCHARGE AND WATER QUALITY REQUIREMENTS IN SECTION 2.4.

**ENGINEERED SOILS**

- ENGINEERED SOILS WILL NOT BE USED ON THIS PROJECT.

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		DESIGNED:	HHPR
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		CHECKED:	DSH
DATE	NO.	DESCRIPTION	
R E V I S I O N S			
		DATE:	MAY 2024



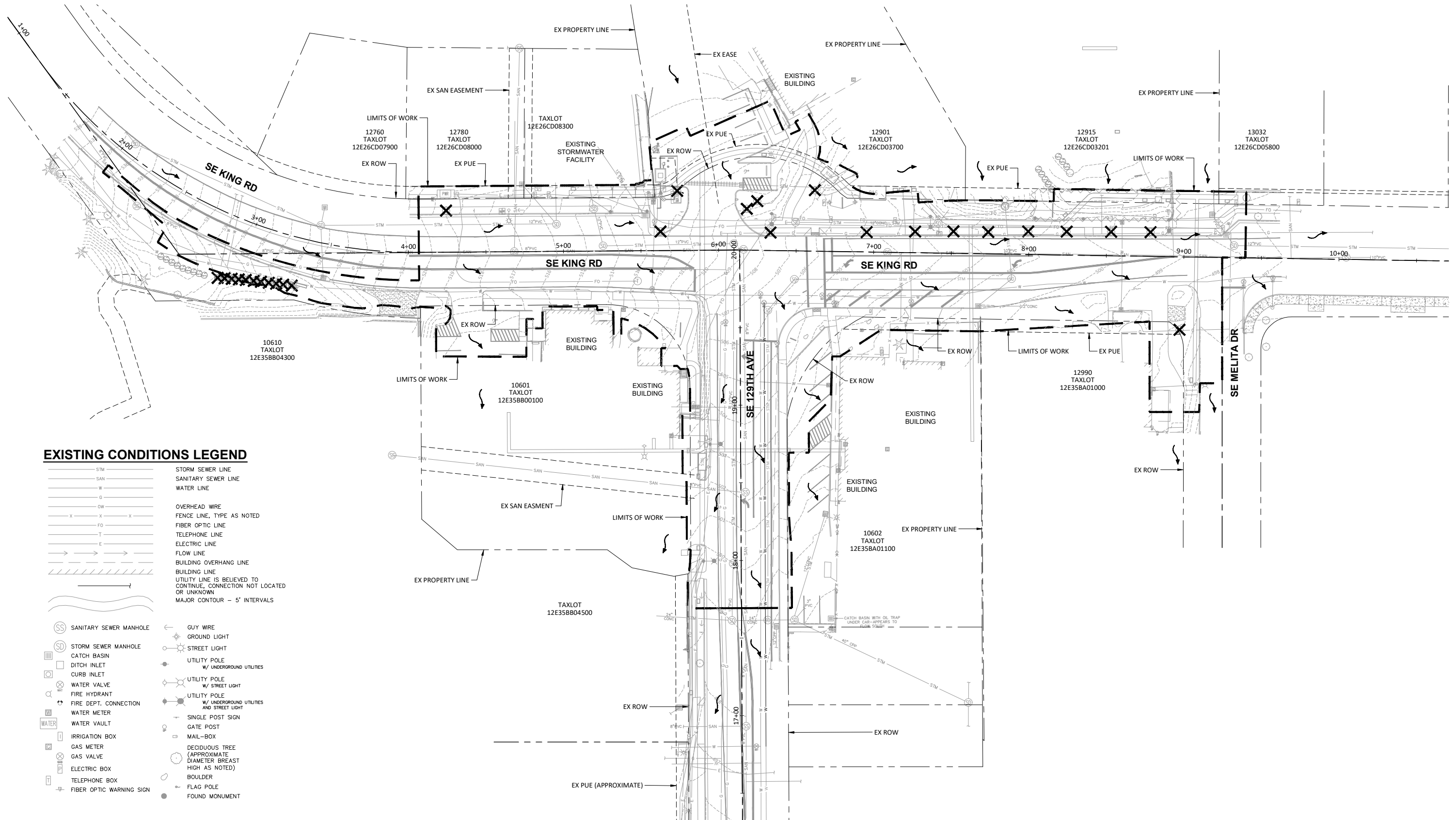
ESCP STANDARD NOTES

**129TH AVE & KING RD ROUNDABOUT**

HAPPY VALLEY, OREGON

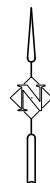
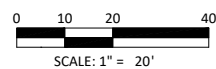
CIP NO.	CIP-07-24
SHEET NO.	11.1
JOB NO.	HAP-14

P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-11.2\_ESCP\_Existing\_Condition.dwg



**EXISTING CONDITIONS LEGEND**

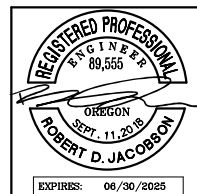
- |     |   |     |                          |       |   |
|-----|---|-----|--------------------------|-------|---|
| STM | STORM SEWER LINE  | SS  | SANITARY SEWER MANHOLE   | GW    | GUY WIRE  |
| SAN | SANITARY SEWER LINE   | SM  | STORM SEWER MANHOLE      | GL    | GROUND LIGHT  |
| W   | WATER LINE  | CB  | CATCH BASIN              | SL    | STREET LIGHT  |
| G   | OVERHEAD WIRE   | DI  | DITCH INLET              | UP    | UTILITY POLE<br>W/ UNDERGROUND UTILITIES                            |
| OW  | OVERHEAD WIRE   | CI  | CURB INLET               | USL   | UTILITY POLE<br>W/ STREET LIGHT                                     |
| X   | FENCE LINE, TYPE AS NOTED   | WF  | WATER VALVE              | UPUSL | UTILITY POLE<br>W/ UNDERGROUND UTILITIES<br>AND STREET LIGHT        |
| FO  | FIBER OPTIC LINE  | FH  | FIRE HYDRANT             | SPS   | SINGLE POST SIGN  |
| T   | TELEPHONE LINE  | FDC | FIRE DEPT. CONNECTION    | GP    | GATE POST   |
| E   | ELECTRIC LINE   | WM  | WATER METER              | MB    | MAIL-BOX  |
| FL  | FLOW LINE   | WV  | WATER VAULT              | DM    | DECIDUOUS TREE<br>(APPROXIMATE<br>DIAMETER/BREAST<br>HIGH AS NOTED) |
| BO  | BUILDING OVERHANG LINE  | GM  | GAS METER                | B     | BOULDER   |
| BL  | BUILDING LINE   | GV  | GAS VALVE                | FP    | FLAG POLE   |
| UL  | UTILITY LINE IS BELIEVED TO<br>CONTINUE, CONNECTION NOT LOCATED<br>OR UNKNOWN | EB  | ELECTRIC BOX             | FM    | FOUND MONUMENT  |
| MC  | MAJOR CONTOUR - 5' INTERVALS  | FB  | FIBER OPTIC WARNING SIGN |       |   |



DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**Harper Houf Peterson Righellis Inc.**  
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 LANDSCAPE ARCHITECTS • SURVEYORS  
 205 SE Spokane Street, Suite 200, Portland, OR 97202  
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ESCP EXISTING CONDITIONS PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>11.2</b>
JOB NO.	HAP-14

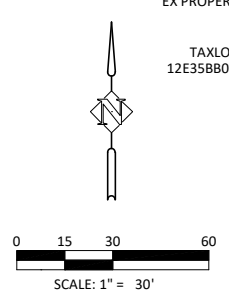
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**GENERAL ESC NOTES:**

- BMP'S SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES MAY BE NECESSARY DURING CONSTRUCTION AS FIELD CONDITIONS DICTATE IN ACCORDANCE WITH CITY AND DEQ PERMIT REQUIREMENTS.
- ALL PROPOSED SLOPE GRADING SHALL CONFORM TO I.B.C. REQUIREMENTS FOR BENCHING AND GRADING.

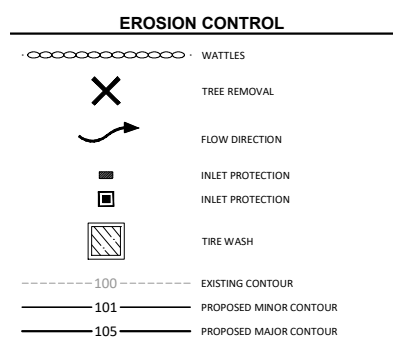
**DEMO, CLEARING, AND GRADING EROSION AND SEDIMENT CONSTRUCTION NOTES:**

- SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
  - VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
  - DWARF GRASS MIX (MIN. 100 LB./AC.)  
DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)  
CREEPING RED FESCUE (20% BY WEIGHT)
  - STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)  
ANNUAL RYEGRASS (40% BY WEIGHT)  
TURF-TYPE FESCUE (60% BY WEIGHT)
- SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES.
- AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
- SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
- AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTling PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
- SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- USE BMP'S SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.



**CONSTRUCTION NOTES:**

- REMOVE EXISTING TREE.
- INSTALL SEDIMENT FENCE OR WATTLES PER DETAIL ON SHEET 11.6.
- TYPE 4 OR 5 INLET PROTECTION (SILT SACKS ON CATCH BASINS AND BEEHIVES. BIOBAGS ON CURB INLETS) PER DETAILS ON SHEET 11.6.
- CONCRETE WASHOUT PER DETAIL ON SHEET 11.6.
- ALL DISTURBED SOIL AREAS NOT SHOWN ON LANDSCAPE PLAN SHALL BE RESTORED AND SEEDED WITH FESTUCA ARUNDINACEA 'INFERNO' (350 LBS/ACRES).



**PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
- SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

**CONCRETE WASH GENERAL NOTES:**

- WASH CONCRETE TRUCKS AND EQUIPMENT IN AN APPROPRIATELY PROTECTED AREA OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY.
- DIRECT ALL CONCRETE WASH WATER INTO AN IMPERMEABLE-LINED PIT OR LEAK-PROOF CONTAINER DESIGNED SO THAT OVERFLOWS WILL NOT OCCUR DUE TO INADEQUATE SIZING OR PRECIPITATION.
- LOCATE ACTIVITIES AWAY FROM WATERS OF THE STATE AND STORMWATER INLETS OR CONVEYANCES SO THAT STORMWATER COMING INTO CONTACT WITH THESE ACTIVITIES CANNOT REACH WATERS OF THE STATE.
- CONCRETE WASH MAY NOT ADVERSELY AFFECT GROUNDWATER.
- CONCRETE WASHOUT AND WASTE CONCRETE MANAGEMENT AREAS MUST BE MAINTAINED AND FUNCTIONAL.
- HANDLE (E.G. THROUGH DISPOSAL, REUSE OR RECYCLE) WASH WATER AS WASTE. DO NOT DISPOSE OF CONCRETE WASH WATER OR WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- NOT DUMP EXCESS CONCRETE ON SITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
- HANDLE (E.G. THROUGH DISPOSAL, REUSE OR RECYCLE) HARDENED CONCRETE WASTE CONSISTENT WITH HANDLING OF OTHER CONSTRUCTION WASTES.
- CONCRETE SPILLAGE OR CONCRETE DISCHARGE TO SURFACE WATERS OF THE STATE IS PROHIBITED.

DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024

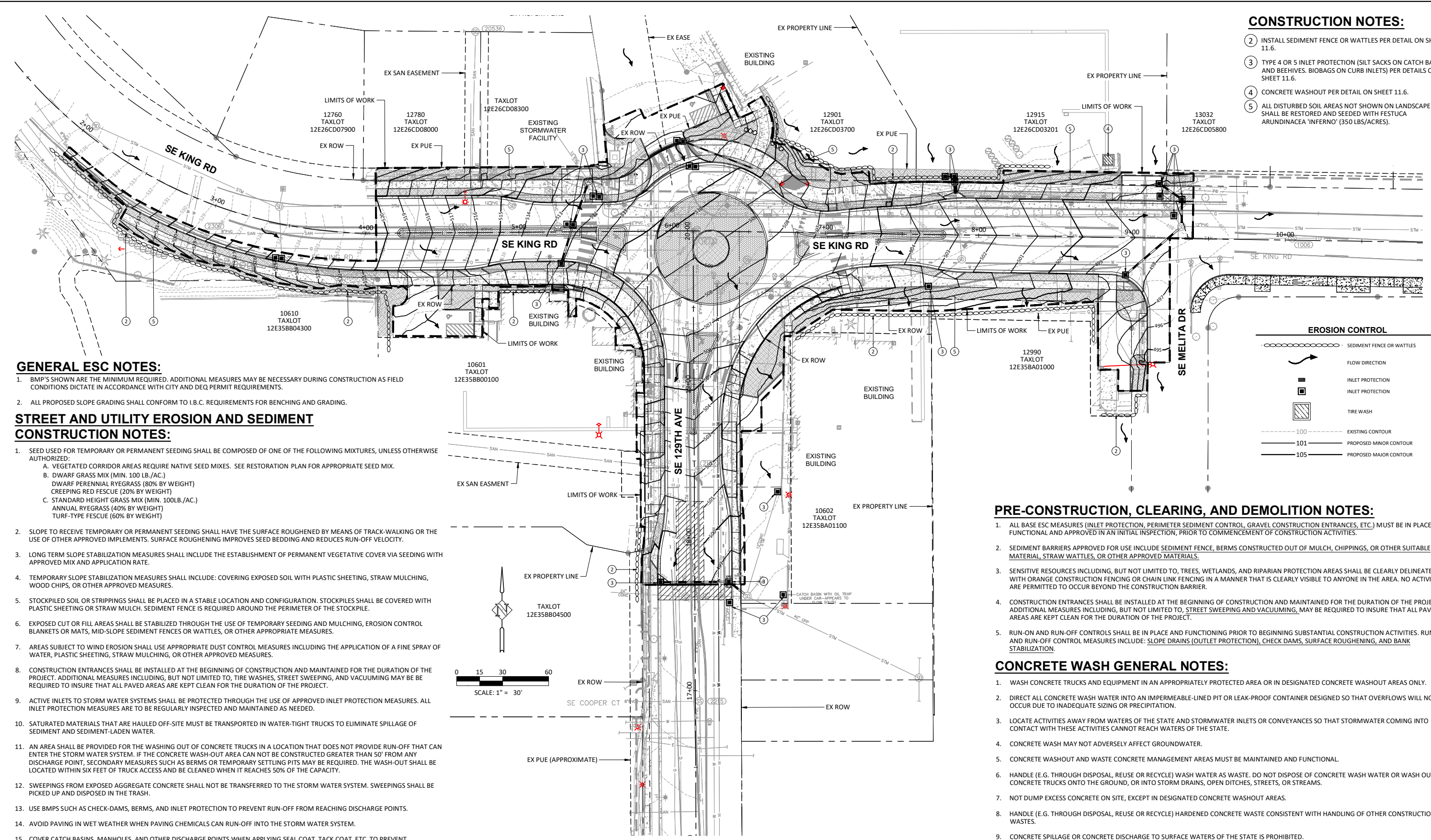


**Harper Houf Peterson Righelli Inc.**  
 ENGINEERS \* PLANNERS  
 LANDSCAPE ARCHITECTS \* SURVEYORS  
 205 SE Spokane Street, Suite 200, Portland, OR 97202  
 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**ESCP DEMO, CLEARING, GRADING, & EXCAVATION**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>11.3</b>
JOB NO.	HAP-14

P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG\SHEETS\Phase 2\HAP-14-11.4\_ESCP\_Street\_UTILITY.dwg



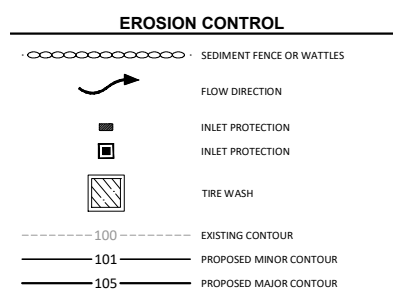
- CONSTRUCTION NOTES:**
- INSTALL SEDIMENT FENCE OR WATTLES PER DETAIL ON SHEET 11.6.
  - TYPE 4 OR 5 INLET PROTECTION (SILT SACKS ON CATCH BASINS AND BEEHIVES, BIOBAGS ON CURB INLETS) PER DETAILS ON SHEET 11.6.
  - CONCRETE WASHOUT PER DETAIL ON SHEET 11.6.
  - ALL DISTURBED SOIL AREAS NOT SHOWN ON LANDSCAPE PLAN SHALL BE RESTORED AND SEEDED WITH FESTUCA ARUNDINACEA 'INFERNO' (350 LBS/ACRES).

**GENERAL ESC NOTES:**

- BMP'S SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES MAY BE NECESSARY DURING CONSTRUCTION AS FIELD CONDITIONS DICTATE IN ACCORDANCE WITH CITY AND DEQ PERMIT REQUIREMENTS.
- ALL PROPOSED SLOPE GRADING SHALL CONFORM TO I.B.C. REQUIREMENTS FOR BENCHING AND GRADING.

**STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:**

- SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
  - VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
  - DWARF GRASS MIX (MIN. 100 LB./AC.)  
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  - STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)  
ANNUAL RYEGRASS (40% BY WEIGHT)  
TURF-TYPE FESCUE (60% BY WEIGHT)
- SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
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- EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES.
- AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
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- SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
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- SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- USE BMP'S SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
- AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
- COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

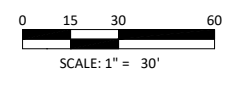


**PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
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**CONCRETE WASH GENERAL NOTES:**

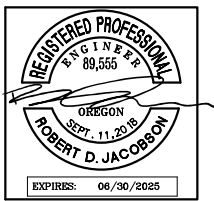
- WASH CONCRETE TRUCKS AND EQUIPMENT IN AN APPROPRIATELY PROTECTED AREA OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY.
- DIRECT ALL CONCRETE WASH WATER INTO AN IMPERMEABLE-LINED PIT OR LEAK-PROOF CONTAINER DESIGNED SO THAT OVERFLOWS WILL NOT OCCUR DUE TO INADEQUATE SIZING OR PRECIPITATION.
- LOCATE ACTIVITIES AWAY FROM WATERS OF THE STATE AND STORMWATER INLETS OR CONVEYANCES SO THAT STORMWATER COMING INTO CONTACT WITH THESE ACTIVITIES CANNOT REACH WATERS OF THE STATE.
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- HANDLE (E.G. THROUGH DISPOSAL, REUSE OR RECYCLE) WASH WATER AS WASTE. DO NOT DISPOSE OF CONCRETE WASH WATER OR WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- NOT DUMP EXCESS CONCRETE ON SITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
- HANDLE (E.G. THROUGH DISPOSAL, REUSE OR RECYCLE) HARDENED CONCRETE WASTE CONSISTENT WITH HANDLING OF OTHER CONSTRUCTION WASTES.
- CONCRETE SPILLAGE OR CONCRETE DISCHARGE TO SURFACE WATERS OF THE STATE IS PROHIBITED.



DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**HHPR** Harper Houf Peterson Righelli 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

**ESCP STREET & UTILITY PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-07-24
SHEET NO.	<b>11.4</b>
JOB NO.	HAP-14

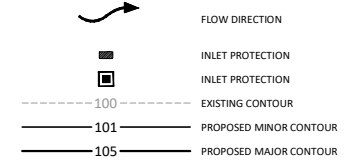
**CONSTRUCTION NOTES:**

- ③ TYPE 4 OR 5 INLET PROTECTION (SILT SACKS ON CATCH BASINS AND BEEHIVES. BIOBAGS ON CURB INLETS) PER DETAILS ON SHEET 11.6.
- ⑤ ALL DISTURBED SOIL AREAS NOT SHOWN ON LANDSCAPE PLAN SHALL BE RESTORED AND SEEDED WITH FESTUCA ARUNDINACEA 'INFERN0' (350 LBS/ACRES).

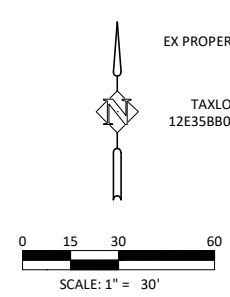
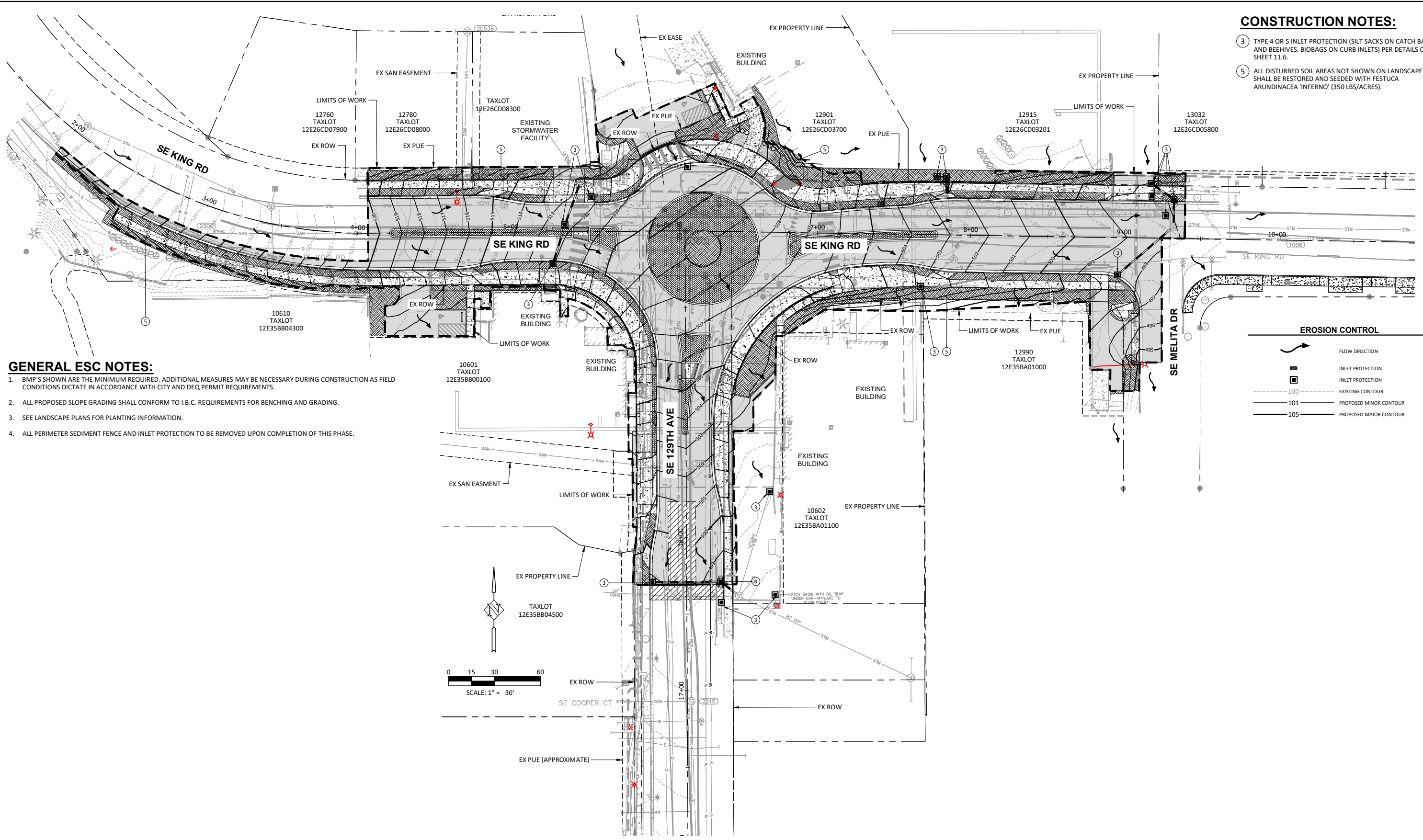
**GENERAL ESC NOTES:**

- 1. BMP'S SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES MAY BE NECESSARY DURING CONSTRUCTION AS FIELD CONDITIONS DICTATE IN ACCORDANCE WITH CITY AND DEQ PERMIT REQUIREMENTS.
- 2. ALL PROPOSED SLOPE GRADING SHALL CONFORM TO I.B.C. REQUIREMENTS FOR BENCHING AND GRADING.
- 3. SEE LANDSCAPE PLANS FOR PLANTING INFORMATION.
- 4. ALL PERIMETER SEDIMENT FENCE AND INLET PROTECTION TO BE REMOVED UPON COMPLETION OF THIS PHASE.

**EROSION CONTROL**



P:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\HAP-14-DWG(S)\SHEETS\Phase 2\HAP-14-11.5-ESCP\_Final\_Landscape.dwg



DESIGNED:	HHPR						
DRAWN:	HHPR						
CHECKED:	DSH						
DATE:	MAY 2024						
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DATE	NO.	DESCRIPTION					
REVISIONS							

**Harper Houf Peterson Righellis Inc.**

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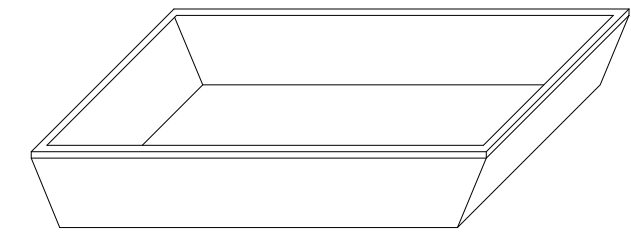
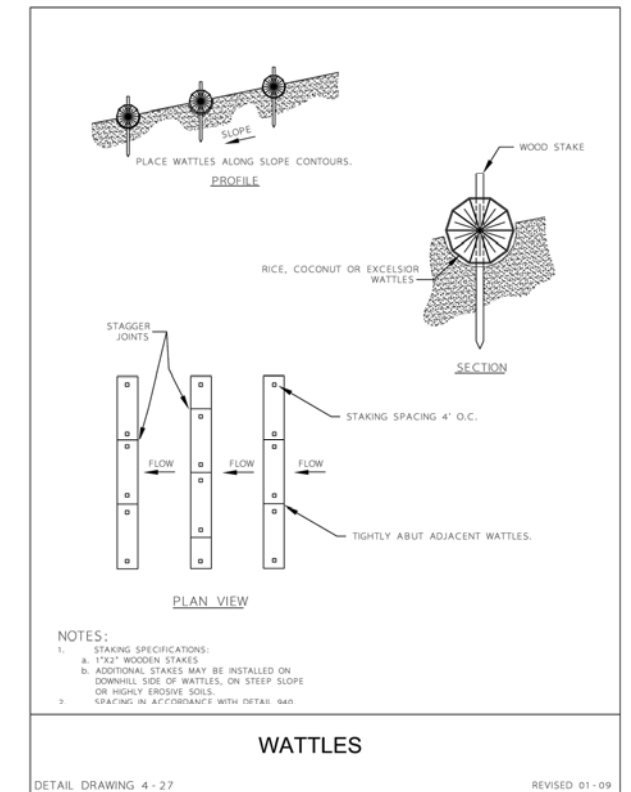
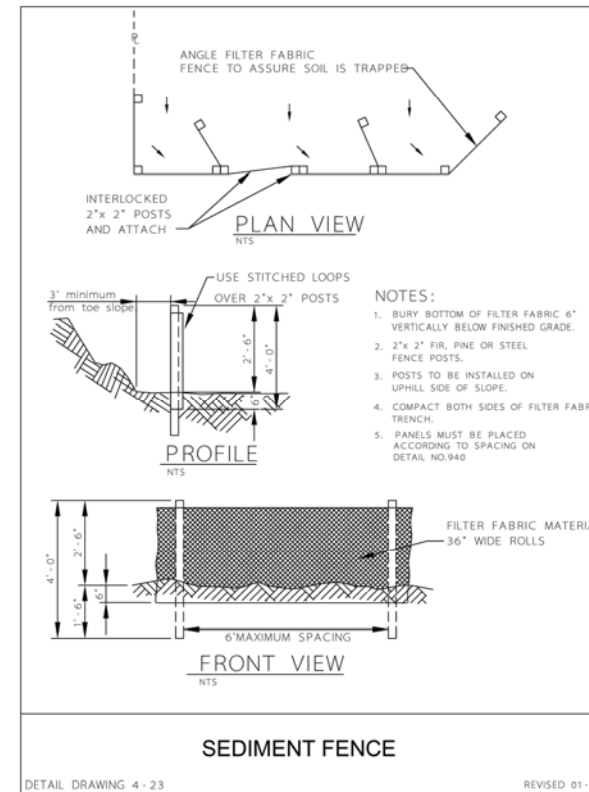
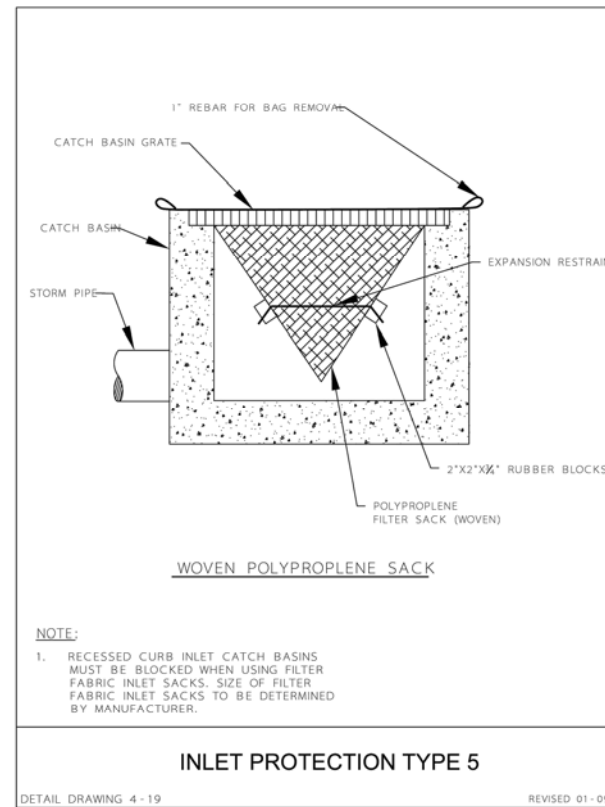
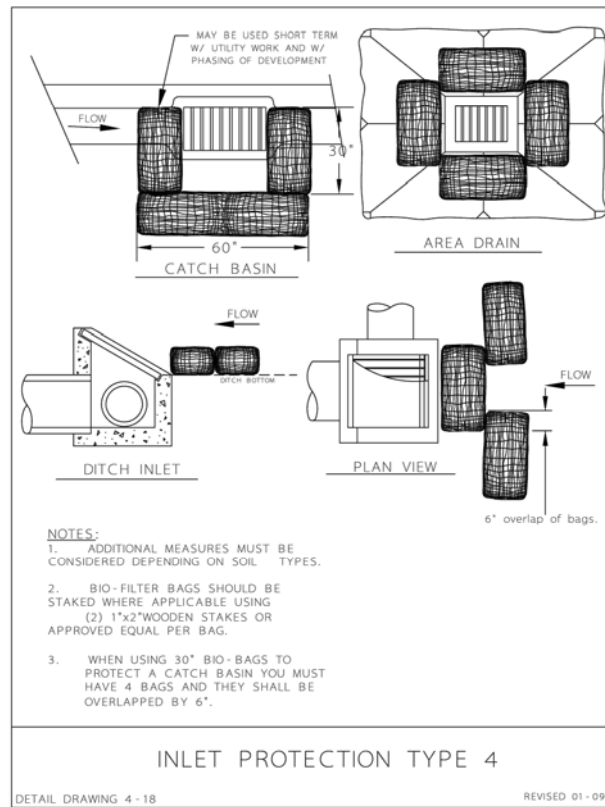
205 SE Spokane Street, Suite 200, Portland, OR 97202  
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ESCP FINAL LANDSCAPING & STABILIZATION

**129TH AVE & KING RD ROUNDABOUT**

HAPPY VALLEY, OREGON

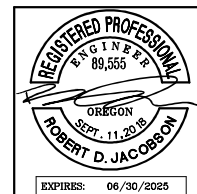
CIP NO.	CIP-07-24
SHEET NO.	11.5
JOB NO.	HAP-14



**CONCRETE TRUCK WASHOUT BASIN**  
NTS

**NOTES:**  
 1. COLLECT AND RETAIN ALL THE CONCRETE WASHOUT WATER AND SOLIDS IN A LEAK PROOF BASIN.  
 2. INSPECT FREQUENTLY. DO NOT OVERFILL BASIN.  
 3. RECYCLE MATERIALS.  
 A. WASHWATER RECYCLING: WASHWATER SHOULD BE PASSED THROUGH A FILTER AND TREATMENT SYSTEM TO REMOVE SOLIDS REDUCE PH. WASHWATER MAY BE REUSED FOR CONCRETE WASHOUT WATER. DISPOSAL OF WASHWATER SHALL BE AT AN APPROVED DISPOSAL FACILITY. DO NOT DRAIN TO STORM OR SANITARY SYSTEM.  
 B. SOLIDS RECYCLING: COURSE AGGREGATE MATERIALS THAT ARE SEPARATED FROM WASHWATER MAY BE RETURN TO READY MIX PLANT. COORDINATE WITH READY MIX PLANT PRIOR TO CONSTRUCTION.  
 C. HARDENED CONCRETE RECYCLING: ALLOW CONCRETE WASHOUT TO HARDEN IN BASIN. THE HARDEN CONCRETE MAY BE DELIVERED TO RECYCLING PLANTS.

DESIGNED:	HHPR	
DRAWN:	HHPR	
CHECKED:	DSH	
DATE:	AUGUST 2023	
DATE	NO.	DESCRIPTION
R E V I S I O N S		



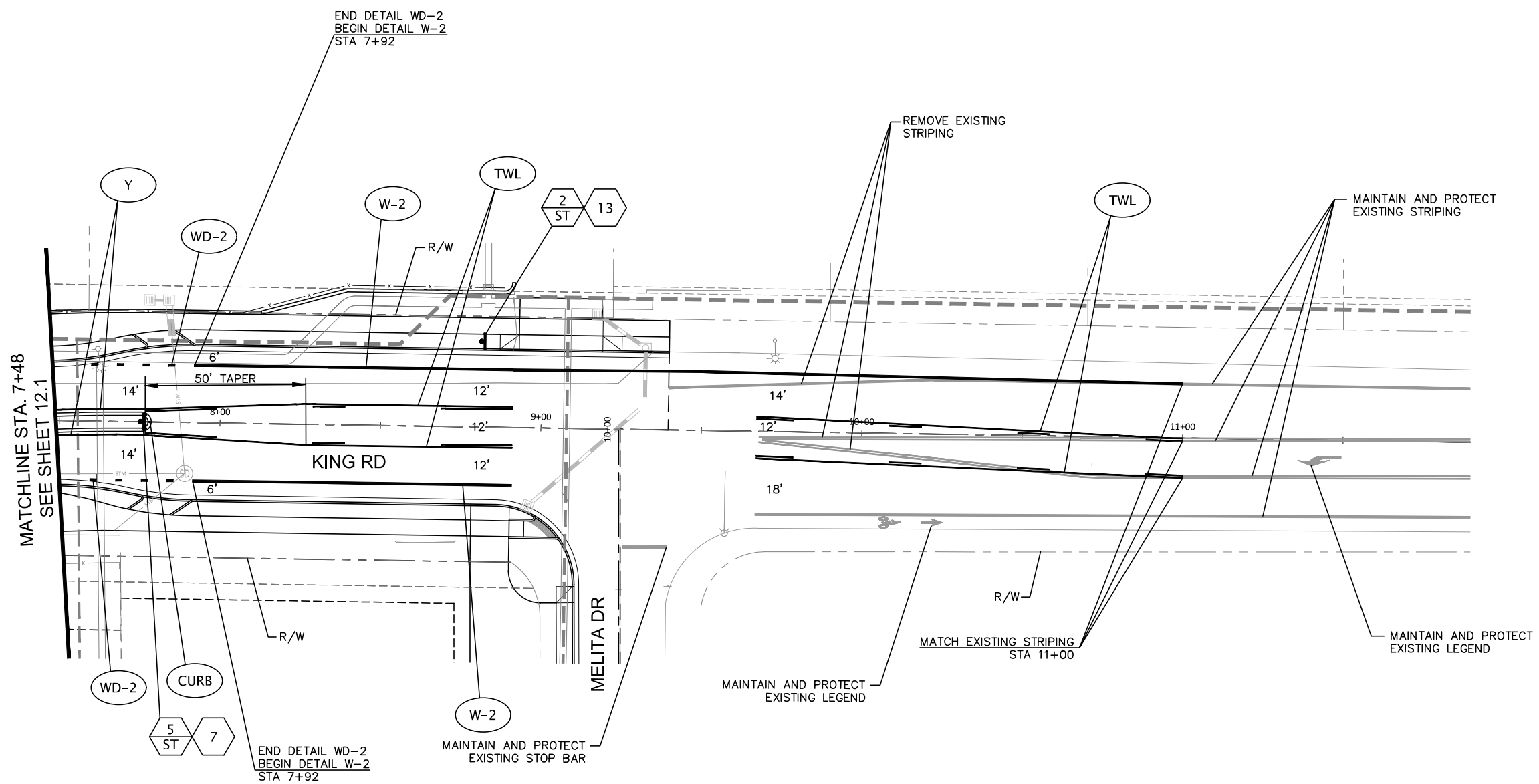
**HHPR** Harper Houf Peterson Righellis Inc.  
 ENGINEERS\*PLANNERS  
 LANDSCAPE ARCHITECTS\*SURVEYORS  
 205 SE Spokane Street, Suite 200, Portland, OR 97202  
 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ESCP STANDARD DETAILS  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON



CIP NO.	CIP-07-24
SHEET NO.	<b>11.6</b>
JOB NO.	HAP-14







**SIGNING LEGEND**

-  INSTALL NEW SIGN (N).
-  INSTALL NEW SIGN (N) ON NEW (M) SIGN SUPPORT.

N = SIGN NUMBER  
M = MATERIAL

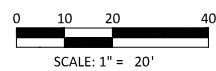
MATERIAL OPTIONS:  
ST = PERFORATED STEEL SQUARE TUBE

**GENERAL NOTE:**

1. EXISTING SIGNS NOT SHOWN ARE TO REMAIN IN PLACE.

SEE STRIPING DETAILS ON SHEETS 12.3

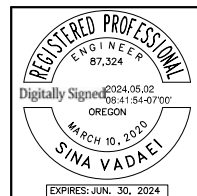
SEE SIGNING DETAILS ON SHEET 12.4



DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	AMB
DRAWN:	RAS
CHECKED:	SXV
DATE:	MAY 2024

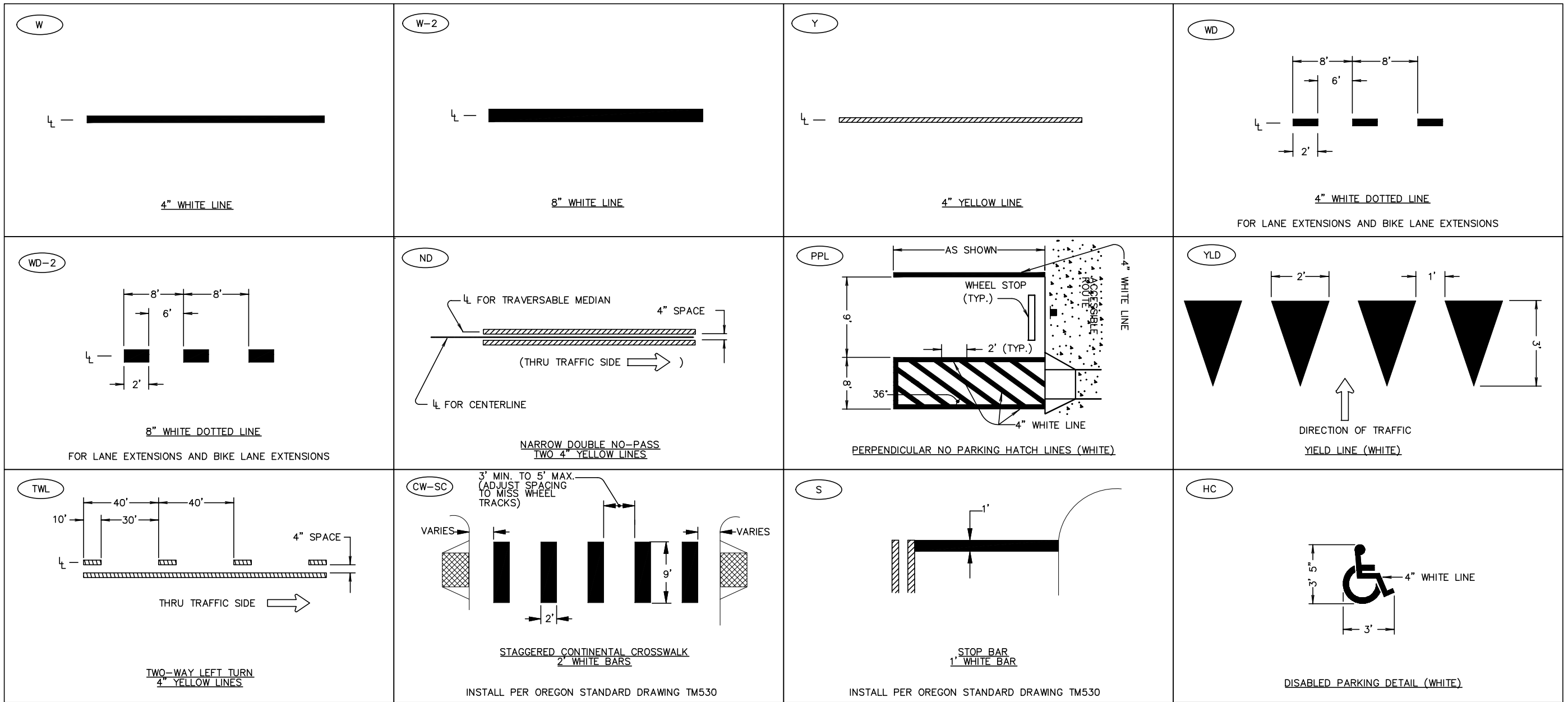


1050 SW 6th Avenue, Suite 600  
Portland, Oregon 97204  
www.dksassociates.com

**SIGNING AND STRIPING PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.	<b>12.2</b>
JOB NO.	HAP-14

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**NOTES:**

1. LOCATE STOP BARS 10' BACK OF THE EXTENDED FOG LINE, EDGE OF PAVEMENT, OR CURB FACE, VERIFY SIGHT DISTANCE.
2. LOCATE CROSSWALKS AS PER ADA RAMP LOCATIONS OR 5' BACK OF EXTENDED FOG LINE, EDGE OF PAVEMENT OR CURB FACE, RAMPS MUST BE FULLY CONTAINED WITHIN THE MARKED CROSSWALK.
3. ALL THERMOPLASTIC PAVEMENT MARKING MATERIAL SHALL BE INSTALLED AS PER SECTION 00850 OF THE 2021 OREGON STANDARD SPECIFICATIONS FOR HWY CONSTRUCTION.
4. ALL PAVEMENT MARKING SHALL CONFORM TO THE 2021 ODOT SPECIFICATIONS.
5. ALL PERMANENT LONGITUDINAL STRIPING SHALL BE METHOD "AB" THERMOPLASTIC, EXTRUDED SURFACE, NON-PROFIED, INSTALLED PER 2021 ODOT STANDARD SPECIFICATION SECTION 00865, UNLESS OTHERWISE NOTED.
6. ALL LEGENDS AND BARS ARE METHOD "B-HS", PREFORMED, FUSED THERMOPLASTIC HIGH SKID FILM INSTALLED PER 2021 ODOT STANDARD SPECIFICATION SECTION 00867, UNLESS OTHERWISE NOTED.
7. MATCH POINTS TO EXISTING PAVEMENT MARKINGS AND STATION CALL-OUTS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
8. REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH THESE PLANS. STRIPING SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
9. TO BE ACCOMPANIED BY CITY OF HAPPY VALLEY STANDARD DRAWINGS 300 AND ODOT STANDARD DRAWINGS TM200, TM201, TM500, TM503, TM521, TM530, TM560, TM561, AND TM676.

DESIGNED:	AMB						
DRAWN:	RAS						
CHECKED:	SXV						
DATE:	MAY 2024						
<table border="1"> <thead> <tr> <th>DATE</th> <th>NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">R E V I S I O N S</td> </tr> </tbody> </table>		DATE	NO.	DESCRIPTION	R E V I S I O N S		
DATE	NO.	DESCRIPTION					
R E V I S I O N S							



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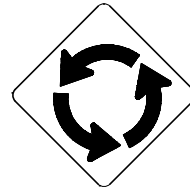
**STRIPING DETAILS**  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.  
**12.3**  
JOB NO.  
HAP-14

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R1-2  
SIGN NO. 1



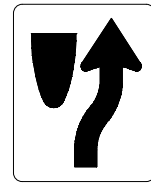
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SIGN NO. 2



W11-15  
SIGN NO. 3



W16-7PL  
SIGN NO. 4



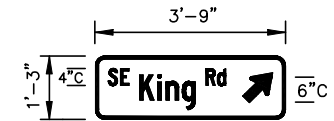
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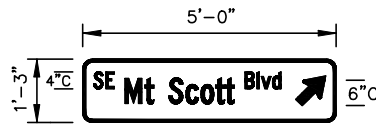
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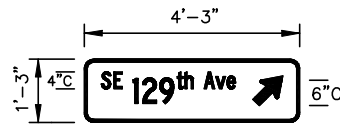
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SIGN NO. 7



SIGN NO. 8



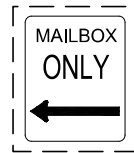
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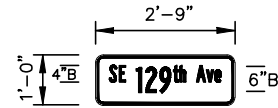
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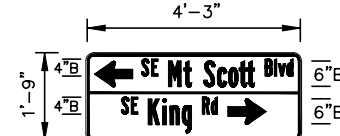
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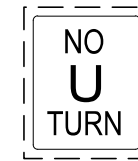
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W16-8P  
SIGN NO. 13



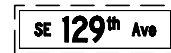
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SIGN NO. 15



SIGN NO. 16



SIGN NO. 17



SIGN NO. 18



SIGN NO. 19



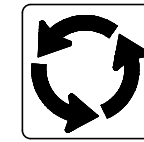
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SIGN NO. 21



SIGN NO. 22

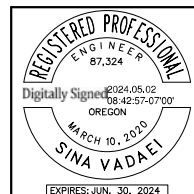


R6-5P  
SIGN NO. 23

NOTE:  
SIGNS WITH DASHED BORDER ARE  
EXISTING SIGNS.

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	AMB
DRAWN:	RAS
CHECKED:	SXV
DATE:	MAY 2024



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SIGNING DETAILS  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.

**12.4**

JOB NO.

HAP-14

SIGN & POST DATA TABLE

SIGN NO.	SIGN LOCATION (TM200-TM201, TM635)	SIGN DIMENSIONS		SUB-STRATE	COLOR 1/				LECD	SIGN NO. 2/	TYPE OF SUPPORT	POST		FOOTING 11/18 ATION 4/	REMARKS
		WIDTH	HEIGHT		BACKGROUND	LEGEND	SIZE	LENGTH							
1	05+59 KING RD R	36"	36"		R		W		1	WOOD POST (TM600-TM601, TM616)	2" x 2" - 12 ga	14'-6"	3'-9"	3 / Face of Curb	
	19+20 129TH AVE R	36"	36"		R		W		1	SO. TUBE SIGN SUPPORT (CITY OF HAPPY VALLEY STANDARD DNG. 300)	2" x 2" - 12 ga	14'-6"	10'-3"	3 / Face of Curb	
	06+88 KING RD L	36"	36"		R		W		1	TRIANGULAR BASE BREAKAWAY (TM602)	2" x 2" - 12 ga	14'-6"	3'-0"	3 / Face of Curb	
2	03+45 KING RD R	30"	30"		Y			BK	2	H-FRAME (TM602)	2" x 2" - 12 ga	13'-6"	2'-6"	3 / Face of Curb	
	17+76 129TH AVE R	30"	30"		Y			BK	2	MULTI-POST BREAKAWAY (TM620, TM600-TM601)	2" x 2" - 12 ga	14'-6"	4'-0"	3 / Face of Curb	
	08+82 KING RD L	30"	30"		Y			BK	2	STAINLESS STEEL CLAMP (SC) (TM677)	2" x 2" - 12 ga	13'-6"	3'-0"	3 / Face of Curb	
3	05+34 KING RD R	36"	36"		Y			BK	3	SIGNAL POLE MOUNT (TM680)	2" x 2" - 12 ga	14'-0"	3'-0"	3 / Face of Curb	
	16+94 129TH AVE R	36"	36"		Y			BK	3	MAST ARM SIGN MOUNT (TM675)	2" x 2" - 12 ga	14'-0"	9'-9"	3 / Face of Curb	
	07+13 KING RD L	36"	36"		Y			BK	3	BRIDGE STRUCTURE MOUNT (Refer to Bridge Drawing)	2" x 2" - 12 ga	14'-0"	3'-0"	3 / Face of Curb	
	05+57 KING RD L	36"	36"		Y			BK	3	CARTER (E), NOTT (E) (Refer to Bridge Drawing)	2" x 2" - 12 ga	14'-0"	2'-6"	3 / Face of Curb	
	19+16 129TH AVE L	36"	36"		Y			BK	3	SIGN BRIDGE (Refer to Bridge Drawing)	2" x 2" - 12 ga	14'-0"	1'-9"	3 / Face of Curb	
	07+07 KING RD R	36"	36"		Y			BK	3	EXT. NUMBER SIGN SUPPORT (TM620, TM675)	2" x 2" - 12 ga	14'-0"	9'-9"	3 / Face of Curb	
4	03+54 KING RD R	24"	12"		Y			BK	4	ROUTE MARKER FRAME (TM628)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	18+94 129TH AVE R	24"	12"		Y			BK	4	MILE POST MARKER POST (TM621-TM622)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	07+13 KING RD L	24"	12"		Y			BK	4	CROSSWALK CLOSURE SUPPORT (TM640)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	05+57 KING RD L	24"	12"		Y			BK	4	VERTICAL SIGN MOUNTS ON EXISTING STRUCTURES (CUSTOM VARIABLE SUPPORT)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	19+16 129TH AVE L	24"	12"		Y			BK	4	2-4X5.8 2-4X7.85 LENGTH	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
5	04+25 KING RD	24"	30"		W			BK	5	WOOD POST (TM600-TM601, TM616)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	18+71 129TH AVE L	24"	30"		W			BK	5	SO. TUBE SIGN SUPPORT (CITY OF HAPPY VALLEY STANDARD DNG. 300)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
	07+75 KING RD	24"	30"		W			BK	5	TRIANGULAR BASE BREAKAWAY (TM602)	2" x 2" - 12 ga	11'-6"	0'-0"	3 / From Centerline	
6	05+82 KING RD L	30"	30"		R		W		6	H-FRAME (TM602)	2" x 2" - 12 ga	11'-6"	21'-3"	3 / Face of Curb	
	04+48 KING RD	12"	36"		V/BK				7	MULTI-POST BREAKAWAY (TM620, TM600-TM601)				Install below Sign Number 5	
	18+71 129TH AVE L	24"	30"		V/BK				7	STAINLESS STEEL CLAMP (SC) (TM677)				Install below Sign Number 5	
8	06+88 KING RD R	45"	15"		G		W		8	SIGNAL POLE MOUNT (TM680)	2" x 2" - 12 ga	10'-6"	2'-0"	3 / From Centerline	
	05+63 KING RD R	60"	15"		G		W		9	MAST ARM SIGN MOUNT (TM675)	2" x 2" - 12 ga	10'-6"	4'-0"	3 / From Centerline	
	19+27 129TH AVE R	51"	15"		G		W		10	BRIDGE STRUCTURE MOUNT (Refer to Bridge Drawing)	2" x 2" - 12 ga	10'-6"	0'-0"	3 / From Centerline	
13	04+09 KING RD R	33"	12"		Y			BK	13	CARTER (E), NOTT (E) (Refer to Bridge Drawing)				Install below Sign Number 2	
	08+82 KING RD L	33"	12"		Y			BK	13	EXT. NUMBER SIGN SUPPORT (TM620, TM675)				Install below Sign Number 2	
14	17+76 129TH AVE R	51"	21"		Y			BK	14	ROUTE MARKER FRAME (TM628)				Install below Sign Number 2	
23	05+59 KING RD R	30"	30"		W			BK	23	MILE POST MARKER POST (TM621-TM622)				Install below Sign Number 1	
	19+20 129TH AVE R	30"	30"		W			BK	23	CROSSWALK CLOSURE SUPPORT (TM640)				Install below Sign Number 1	
	06+88 KING RD L	30"	30"		W			BK	23	VERTICAL SIGN MOUNTS ON EXISTING STRUCTURES (CUSTOM VARIABLE SUPPORT)				Install below Sign Number 1	

- 1/
- BK-BLACK
  - BL-BLUE
  - BR-BROWN
  - FY-FLUORESCENT YELLOW
  - G-GREEN
  - O-ORANGE
  - P-PURPLE
  - R-RED
  - RB-RED-BLUE
  - W-WHITE
  - Y-YELLOW
  - YG-FLUORESCENT YELLOW-GREEN

- 2/
- NOTE: L,C,R ARE LOCATIONS OF POSTS FACING THE SIGN.
- L - LEFT POST
  - C - CENTER POST
  - R - RIGHT POST

- 3/
- DISTANCE FROM EDGE OF TRAVEL LANE, FACE OF CURB, GUARDRAIL, OR BARRIER TO THE CENTERLINE OF FOOTING. FOR ADDITIONAL INFORMATION SEE STANDARD DRAWINGS TM600, TM602, AND TM635

- 4/
- NOTE: THE LOCATIONS SHOWN ARE APPROXIMATE EXCEPT FOR SPEED ZONES, SCHOOL ZONES, OBJECT MARKERS AND MILEPOST MARKERS. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER

NOTE:  
ALL PERFORATED STEEL SQUARE TUBES (PSST) SHALL BE INSTALLED WITH SQUARE SIGN SUPPORT ANCHOR TAPCO, V-LOC MODEL 200-VS2 OR APPROVED EQUAL PER CITY OF HAPPY VALLEY STANDARD DRAWING NO. 300.

DESIGNED:	AMB
DRAWN:	RAS
CHECKED:	SVX
DATE:	MAY 2024
REVISIONS	
NO.	DESCRIPTION



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SIGN AND POST DATA TABLE  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.





**12.5**

JOB NO.


HAP-14

**LEGEND**

**POLES**

-  PGE TO FURNISH AND INSTALL NEW PGE APPROVED 35' ALUMINUM DAVIT STREET LIGHT POLE WITH LUMINAIRE ARM AND LUMINAIRE (SEE LIGHT POLE TABLE ON THIS SHEET).
-  INSTALL PGE APPROVED FOUNDATION FOR STREET LIGHT POLE. FOUNDATION TO BE PROVIDED BY PGE.
-  RETAIN AND PROTECT EXISTING LUMINAIRE POLE AND APPURTENANCES.
-  RETAIN AND PROTECT EXISTING WOOD POLE AND APPURTENANCES.

**LUMINAIRES**

-  LUMINAIRE NO. (N) FOR ROADWAY ILLUMINATION (SEE LIGHT POLE TABLE ON THIS SHEET).

**GENERAL NOTES:**

1. UTILITY LOCATIONS ARE APPROXIMATE AND NOT ALL UTILITIES ARE SHOWN. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES THROUGHOUT CONSTRUCTION. MAINTAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED. COORDINATE ALL WORK WITH UTILITY COMPANIES TO ELIMINATE CONFLICTS.
2. ALL STREET LIGHT POLES, LUMINAIRE ARMS, LUMINAIRES, LAMPS, AND WIRING SHALL BE FURNISHED BY PGE. FOUNDATIONS SHALL BE FURNISHED BY PGE AND INSTALLED BY THE CONTRACTOR.
3. CONDUITS AND JUNCTION BOXES FOR PROPOSED LIGHTS HAVE ALREADY BEEN INSTALLED WITH A PRIOR PHASE OF THE PROJECT. WORK UNDER THIS CONTRACT INCLUDES POLE FOUNDATION INSTALLATION AND CONDUIT CONNECTION BETWEEN THE FOUNDATION AND EXISTING JUNCTION BOX. CONTACT THE ENGINEER IF QUESTIONS ARISE DURING CONSTRUCTION.
4. FIELD VERIFY ALL MEASUREMENTS PRIOR TO CONSTRUCTION. FINAL LIGHT POLE LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
5. MAINTAIN A MINIMUM 12 INCH CLEARANCE BETWEEN ALL EXISTING UTILITIES AND NEW FOUNDATIONS, JUNCTION BOXES, AND ELECTRICAL CONDUIT.
6. PLANS ARE SHOWN FOR BIDDING AND REFERENCE ONLY. CONTACT RICO TORRES SOLIS AT (503) 403-9084 FOR PGE PLANS AND SPECIFICATIONS TO BE USED FOR CONSTRUCTION. REFERENCE PGE WORK ORDER NUMBER M3170182.
7. STREET LIGHTING MATERIALS AND INSTALLATIONS SHALL CONFORM TO PORTLAND GENERAL ELECTRIC (P.G.E.) SCHEDULE 95 OPTION "A" SPECIFICATIONS. MATERIALS AND INSTALLATION SHALL BE APPROVED BY P.G.E., UNLESS NOTED OTHERWISE.
8. SEE PGE PLANS FOR APPROXIMATE LOCATIONS OF ILLUMINATION CONDUIT, JUNCTION BOXES, AND POWER SOURCE.

**LIGHT POLE TABLE**

POLE NO.	STREET	STATION	OFFSET* (ft)	MOUNTING HEIGHT (ft)	ARM LENGTH (ft)	LUMINAIRE					
						MANUFACTURER	PGE PART NUMBER	LIGHT SOURCE	WATTAGE	TYPE	LIGHT LOSS FACTOR
1	SE KING ROAD	05+20 RT	2.5 FC	35	8	LEOTEK	GCM2-40H-MV-WW-2R-GY-700-PCR7-RWG-WL-FDC-PGE	LED	88	II	0.855
2	SE KING ROAD	06+94 RT	16.8 FC	35	8	LEOTEK	GCM2-40H-MV-WW-2R-GY-700-PCR7-RWG-WL-FDC-PGE	LED	88	III	0.855
3	SE KING ROAD	08+75 RT	2.5 FC	35	8	LEOTEK	GCM2-40H-MV-WW-2R-GY-700-PCR7-RWG-WL-FDC-PGE	LED	88	II	0.855

\*FC = MEASURED FROM CENTER OF POLE TO FACE OF CURB

**DESIGN VALUES TABLE**

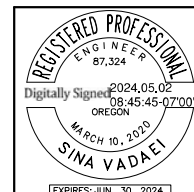
LOCATION	CLASSIFICATION	TARGETED AVERAGE ILLUMINANCE (fc)	ACHIEVED AVERAGE ILLUMINANCE (fc)	TARGETED UNIFORMITY (Avg/Min)	ACHIEVED UNIFORMITY (Avg/Min)
<b>INTERSECTION</b>					
SE 129TH AVENUE / SE KING ROAD *	ARTERIAL/ARTERIAL	≥1.7	2.2	≤3.0	2.7
SE KING ROAD / SE MELITA DRIVE	ARTERIAL/LOCAL	≥1.2	1.2	≤3.0	2.0
<b>ROADWAY</b>					
SE KING ROAD BETWEEN SE 129TH AVENUE AND SE MELITA DRIVE	ARTERIAL	≥0.9	1.2	≤3.0	1.7
SE 129TH AVENUE BETWEEN SE COOPER CT AND SE KING ROAD	ARTERIAL	≥0.9	0.9	≤3.0	2.2

\* TARGETED LIGHT VALUES FOR ROUNDABOUTS PER IES RP-8-21.

NOTE 1: TARGETED LIGHTING VALUES BASED ON LOW PEDESTRIAN AREA CLASSIFICATION, UNLESS OTHERWISE NOTED.

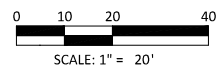
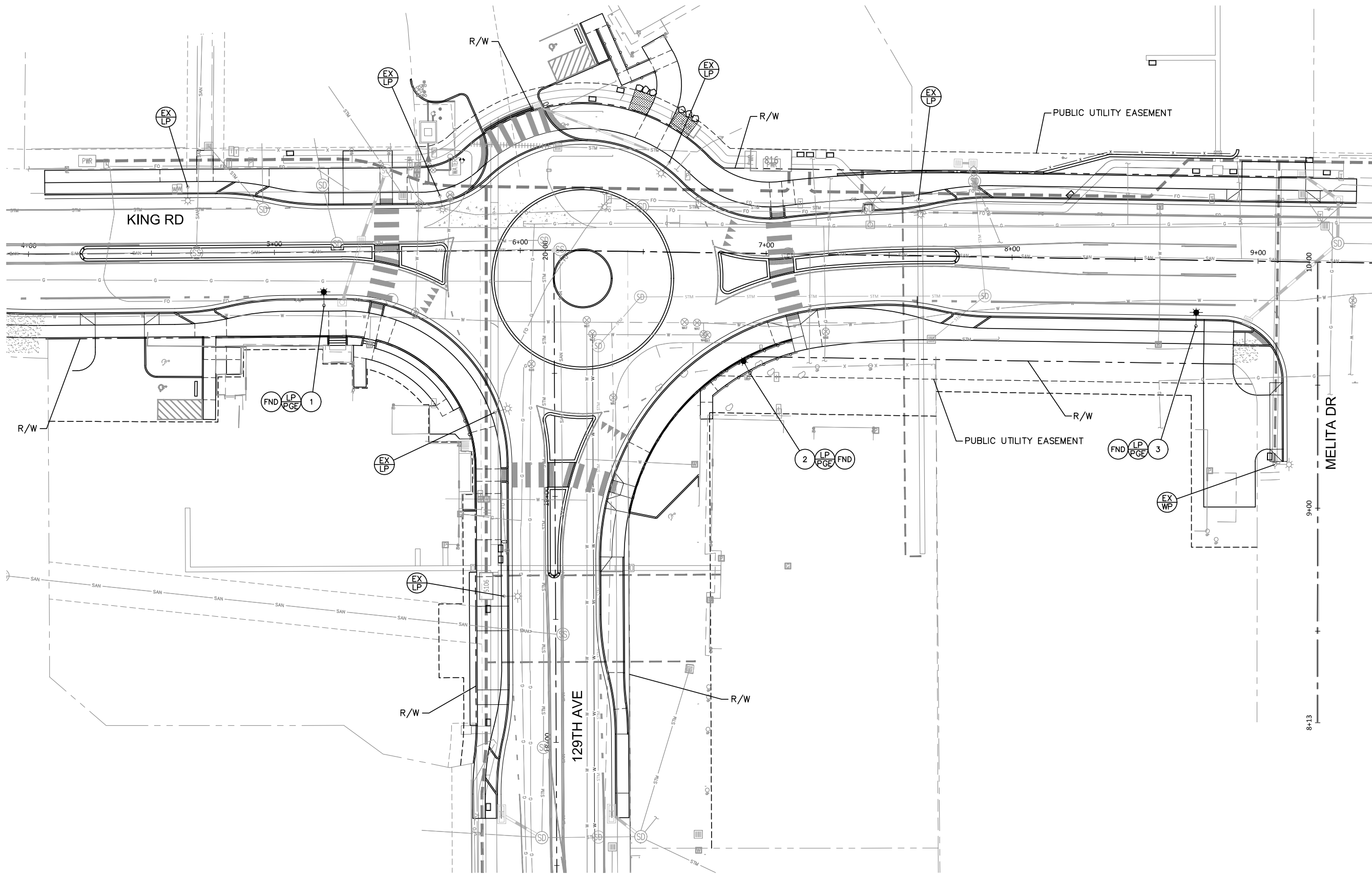
NOTE 2: VERTICAL ILLUMINANCE AT ALL UNCONTROLLED CROSSWALKS MEETS OR EXCEEDS THE AVERAGE ILLUMINANCE FOR EACH DRIVING DIRECTION AT A STOPPING SIGHT DISTANCE PER IES DG 19-08 AND RP-8-21

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<p>ILLUMINATION LEGEND</p> <p><b>129TH AVE &amp; KING RD ROUNDABOUT</b></p> <p>HAPPY VALLEY, OREGON</p>	<p>SHEET NO.</p> <p><b>13.0</b></p> <p>JOB NO.</p> <p>HAP-14</p>
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ILLUMINATION PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

SHEET NO.	<b>13.1</b>
JOB NO.	HAP-14



W20-2  
36" x 36"

1



M4-9R  
30" x 24"

2



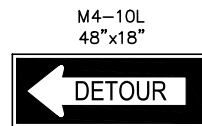
M4-9L  
30" x 24"

3



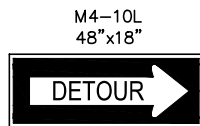
CG20-6  
30" x 36"

4



M4-10L  
48" x 18"

5



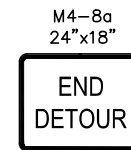
M4-10L  
48" x 18"

6



OR11-4a  
60" x 30"

7

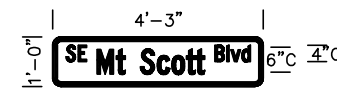


M4-8a  
24" x 18"

8



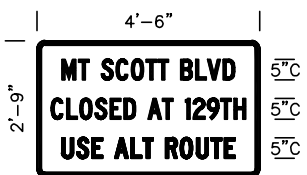
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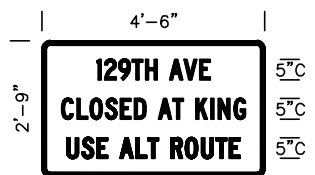
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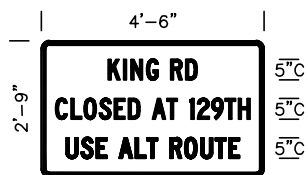
11



12



13



14



M4-9L(MOD)  
30" x 36"

15



M4-9R(MOD)  
30" x 36"

16

**GENERAL NOTES:**

1. REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
3. ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, AND TM840.

DESIGNED:			AMB
DRAWN:			RAS
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DATE	NO.	DESCRIPTION	
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TRAFFIC CONTROL DETAILS  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.

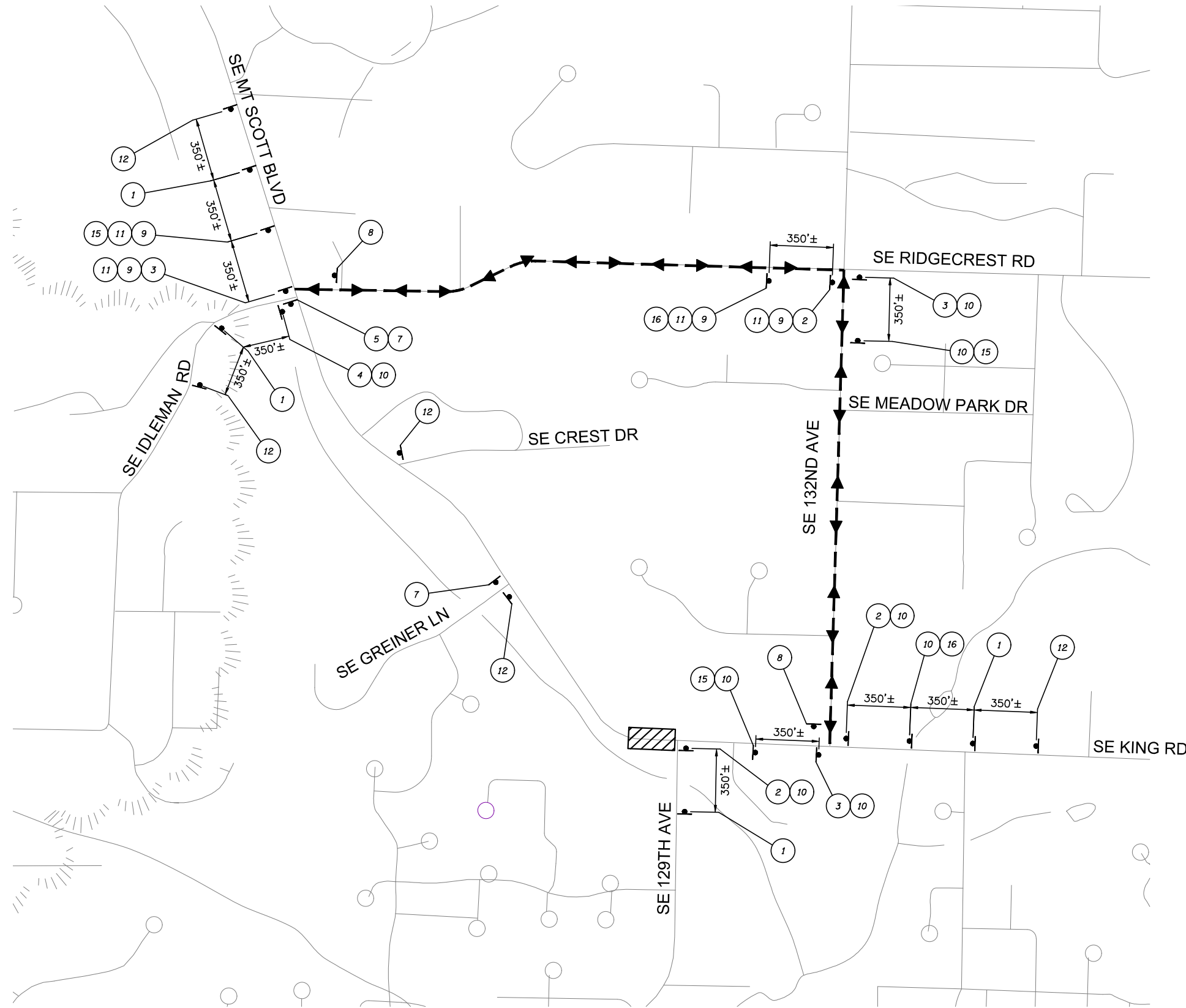
**14.0**

JOB NO.

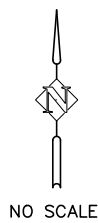
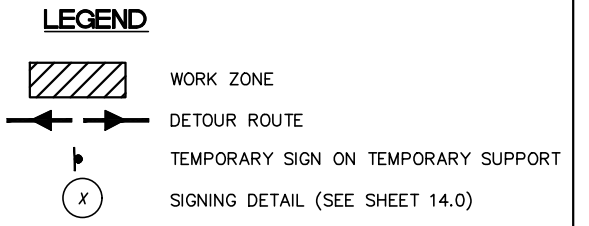
HAP-14



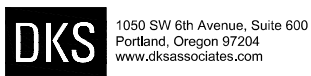
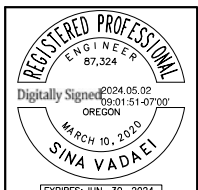
STAGE II/IV  
WEST LEG CLOSED



- GENERAL NOTES:**
1. SEE SHEET 15.1 FOR WORK ZONE DETAILS.
  2. COVER EXISTING SIGNS THAT CONFLICT WITH THIS PLAN.
  3. ADJUSTMENTS TO TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE EXISTING FIELD CONDITIONS.



DESIGNED:	AMB	
DRAWN:	RAS	
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DATE:	MAY 2024	
REVISIONS		
DATE	NO.	DESCRIPTION

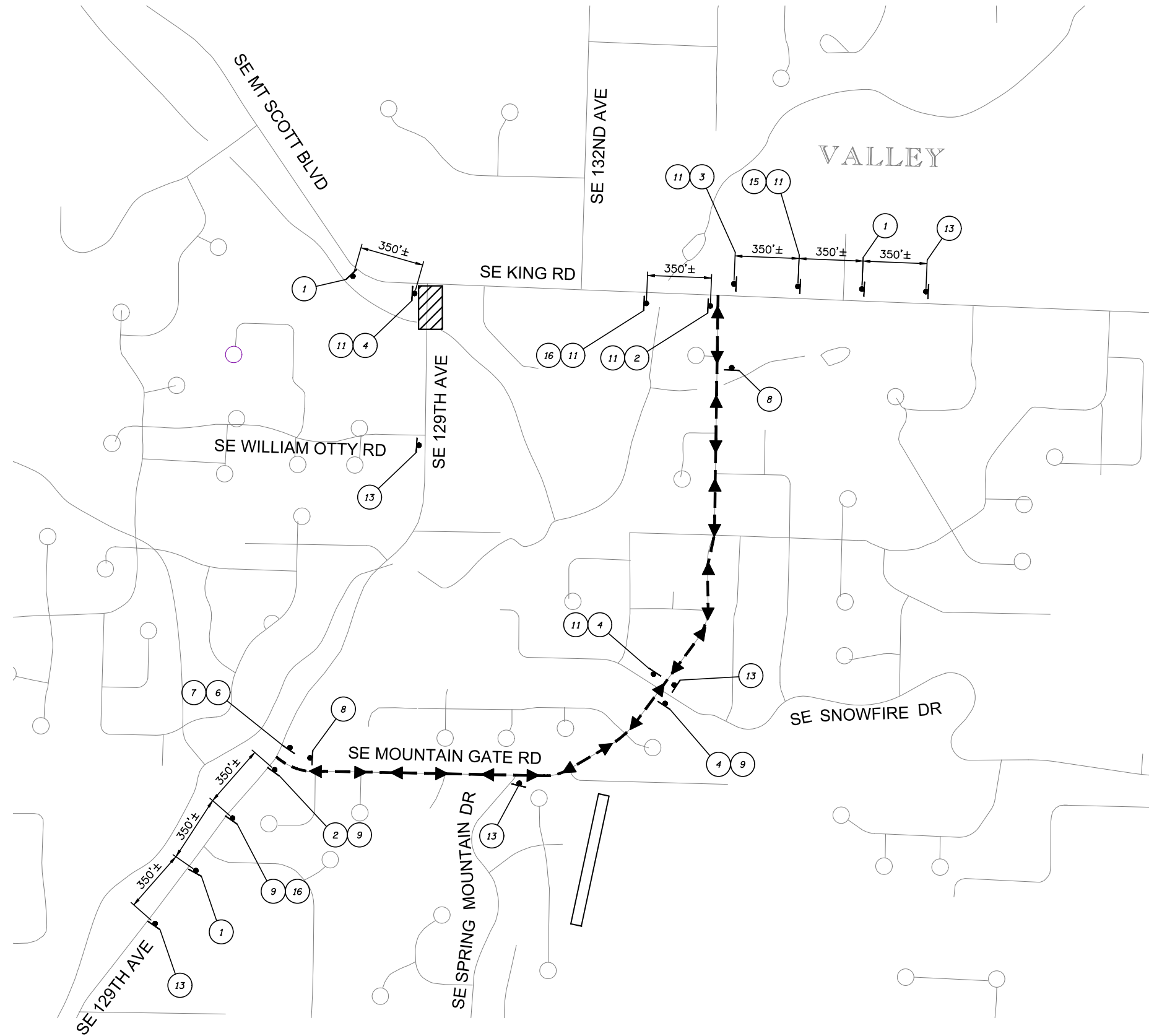


DETOUR PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.	<b>14.1</b>
JOB NO.	HAP-14

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
STAGE III/V  
SOUTH LEG CLOSED

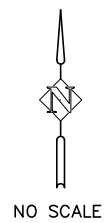


**GENERAL NOTES:**

1. SEE SHEET 15.2 FOR WORK ZONE DETAILS.
2. COVER EXISTING SIGNS THAT CONFLICT WITH THIS PLAN.
3. ADJUSTMENTS TO TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE EXISTING FIELD CONDITIONS.

**LEGEND**

-  WORK ZONE
-  DETOUR ROUTE
-  TEMPORARY SIGN ON TEMPORARY SUPPORT
-  SIGNING DETAIL (SEE SHEET 14.0)



DESIGNED:	AMB	
DRAWN:	RAS	
CHECKED:	SXV	
DATE:	MAY 2024	
REVISIONS		
DATE	NO.	DESCRIPTION



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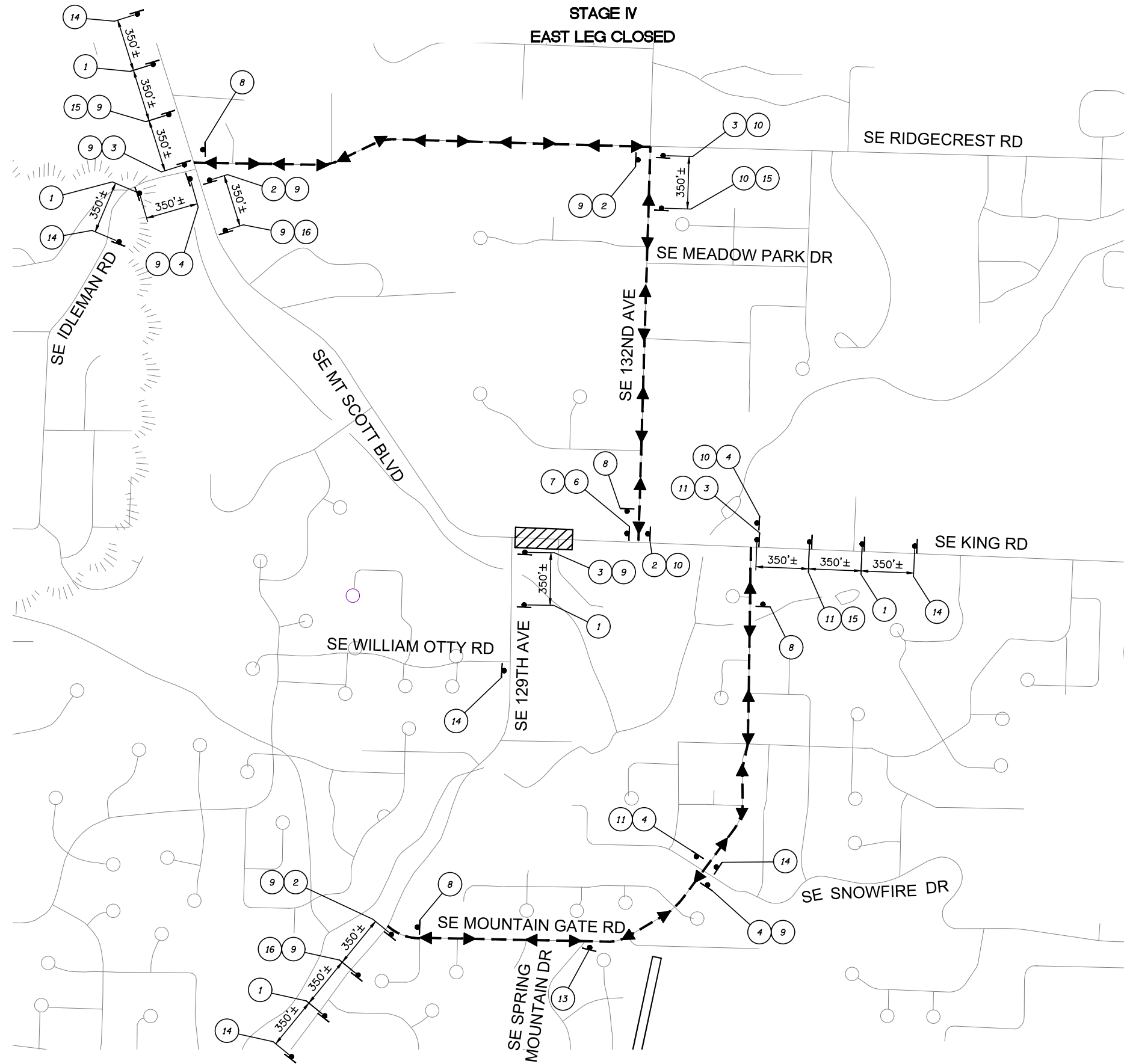
DETOUR PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.

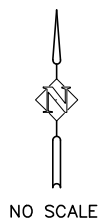
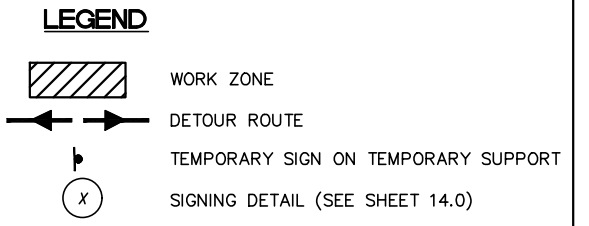
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JOB NO.

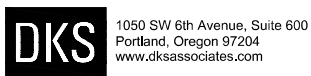
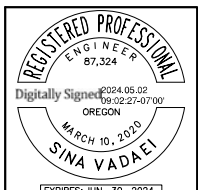
HAP-14



- GENERAL NOTES:**
1. SEE SHEET 15.3 FOR WORK ZONE DETAILS.
  2. COVER EXISTING SIGNS THAT CONFLICT WITH THIS PLAN.
  3. ADJUSTMENTS TO TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE EXISTING FIELD CONDITIONS.



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DRAWN:	RAS		
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DATE:	MAY 2024		
REVISIONS			
DATE	NO.	DESCRIPTION	

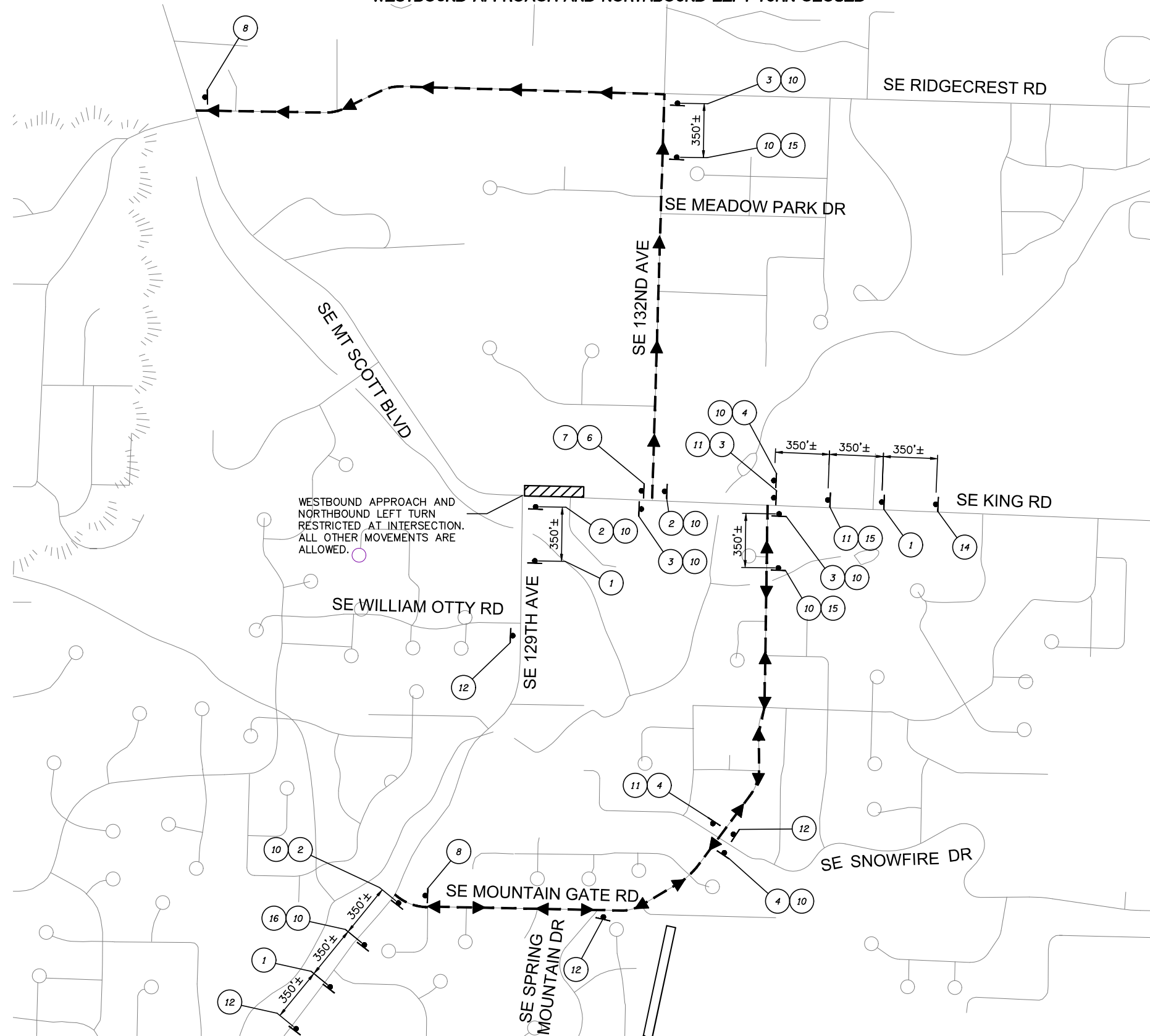


**DETOUR PLAN**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

SHEET NO.	<b>14.3</b>
JOB NO.	HAP-14

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
STAGE VII  
WESTBOUND APPROACH AND NORTHBOUND LEFT TURN CLOSED

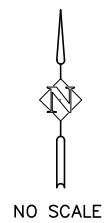


**GENERAL NOTES:**

1. SEE SHEET 15.4 FOR WORK ZONE DETAILS.
2. COVER EXISTING SIGNS THAT CONFLICT WITH THIS PLAN.
3. ADJUSTMENTS TO TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE EXISTING FIELD CONDITIONS.

**LEGEND**

-  WORK ZONE
-  DETOUR ROUTE
-  TEMPORARY SIGN ON TEMPORARY SUPPORT
-  SIGNING DETAIL (SEE SHEET 14.0)



DESIGNED:	AMB		
DRAWN:	RAS		
CHECKED:	SXV		
DATE:	MAY 2024		
REVISIONS			
DATE	NO.	DESCRIPTION	



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DETOUR PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

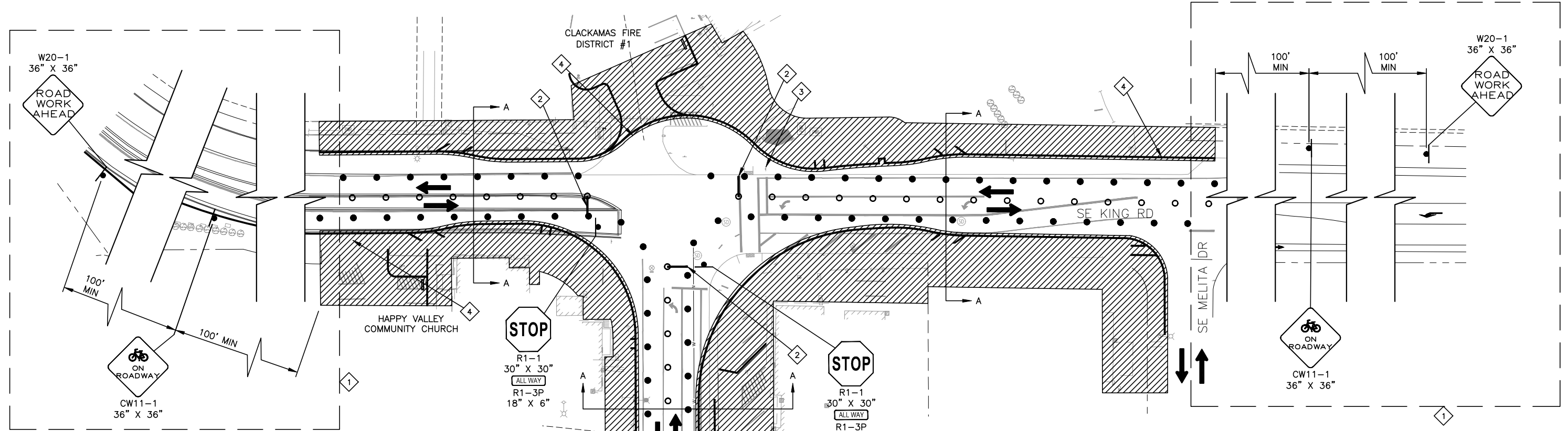
SHEET NO.

**14.4**

JOB NO.

HAP-14

STAGE I  
SIDEWALK UPGRADES



**STAGE I STAGING**

CONSTRUCT SIDEWALK AND PARKING IMPROVEMENTS ALONG KING ROAD and 129TH AVENUE. MAINTAIN BIDIRECTIONAL TRAFFIC ON ALL LEGS OF THE INTERSECTION. VEHICLES TO SHARE ROAD WITH BICYCLES.

**CONSTRUCTION NOTES**

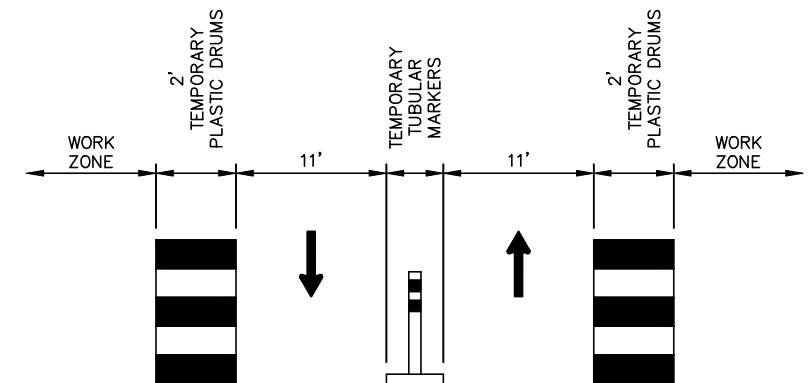
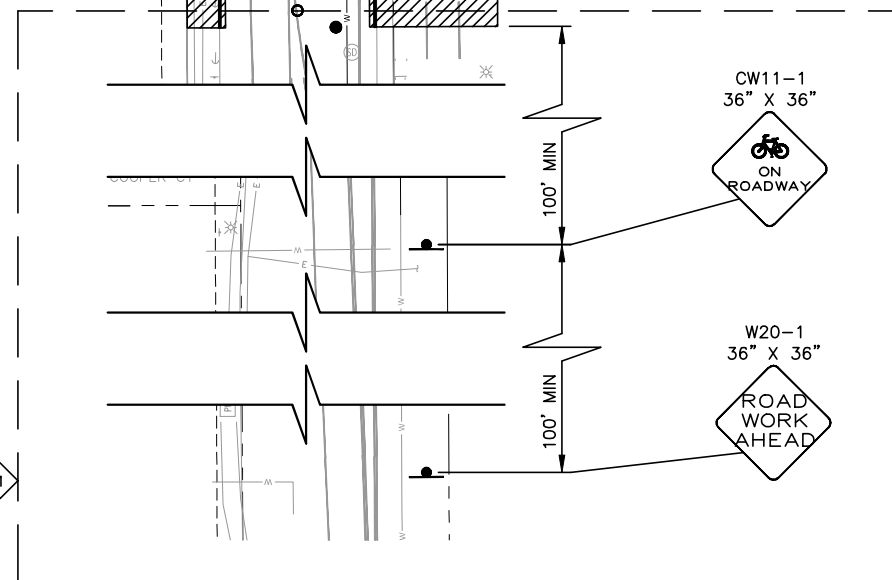
- 1 TRANSITION TEMPORARY TRAFFIC ALIGNMENT BACK TO EXISTING LANE ALIGNMENTS. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800 AND TM841.
- 2 INSTALL TEMPORARY PAINTED STOP BAR LINE.
- 3 MAINTAIN AND PROTECT EXISTING STOP SIGN FOR DURATION OF CONSTRUCTION PHASE.
- 4 MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. CONSTRUCT DRIVEWAY IN PHASES.

**TRAFFIC CONTROL LEGEND**

- WORK ZONE
- TEMPORARY TUBULAR MARKERS
- TEMPORARY PLASTIC DRUMS
- TEMPORARY SIGN ON SUPPORT
- DIRECTION OF TRAFFIC

**GENERAL NOTES**

- 1. STAGE CONSTRUCTION TO MAINTAIN ADA COMPLIANT PEDESTRIAN ROUTES THROUGH THE INTERSECTION AT ALL TIMES. SEE ODOT STANDARD DETAIL TM844.
- 2. REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
- 3. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
- 4. ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, TM841, AND TM844.



SECTION A-A  
(NOT TO SCALE)

DESIGNED:	AMB
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CONSTRUCTION STAGING PLAN - STAGE I  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

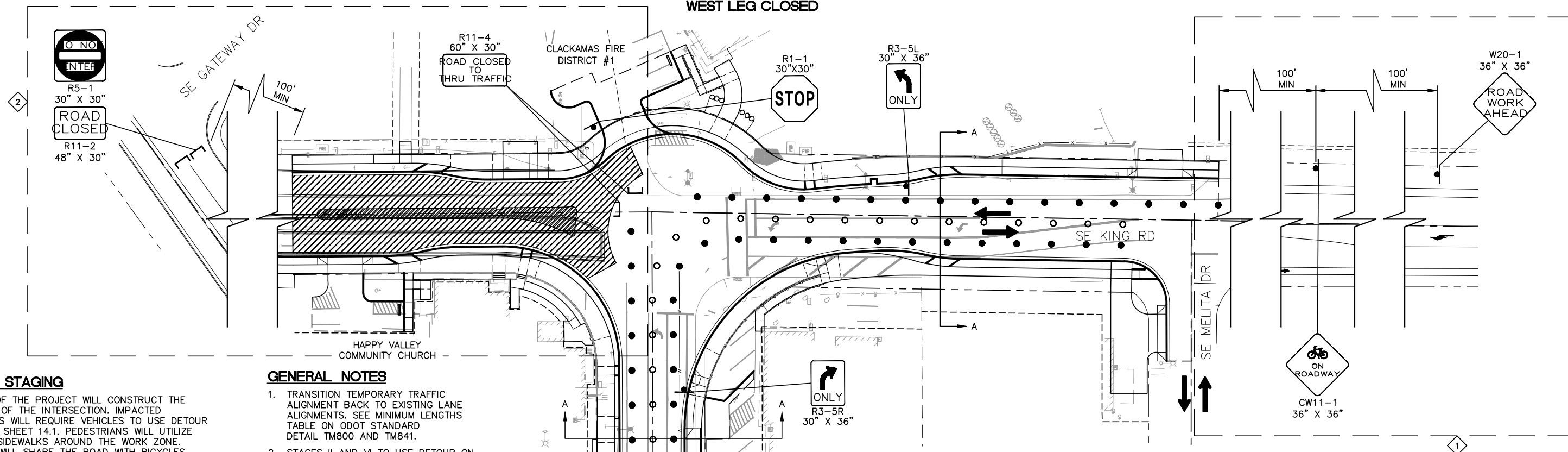
SHEET NO.

**15.0**

JOB NO.

HAP-14

STAGE II/IV  
WEST LEG CLOSED



**STAGE II STAGING**

STAGE II OF THE PROJECT WILL CONSTRUCT THE WEST LEG OF THE INTERSECTION. IMPACTED MOVEMENTS WILL REQUIRE VEHICLES TO USE DETOUR PLANS ON SHEET 14.1. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE. VEHICLES WILL SHARE THE ROAD WITH BICYCLES. CONSTRUCT THE ROADWAY IN TWO HALVES (NORTH AND SOUTH) IN ORDER TO MAINTAIN ONE LANE OPEN FOR EMERGENCY FIRE USE. THE SPLITTER ISLAND WILL NOT BE CONSTRUCTED UNTIL STAGE VI.

**STAGE VI STAGING**

STAGE VI OF THIS PROJECT WILL AGAIN CLOSE THE WEST LEG OF THE INTERSECTION TO INSTALL THE SPLITTER ISLAND. DETOUR GENERAL TRAFFIC PER SHEET 14.1. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE. VEHICLES WILL SHARE THE ROAD WITH BICYCLES. CONTRACTOR TO MAINTAIN ONE LANE OPEN FOR EMERGENCY FIRE USE.

**GENERAL NOTES**

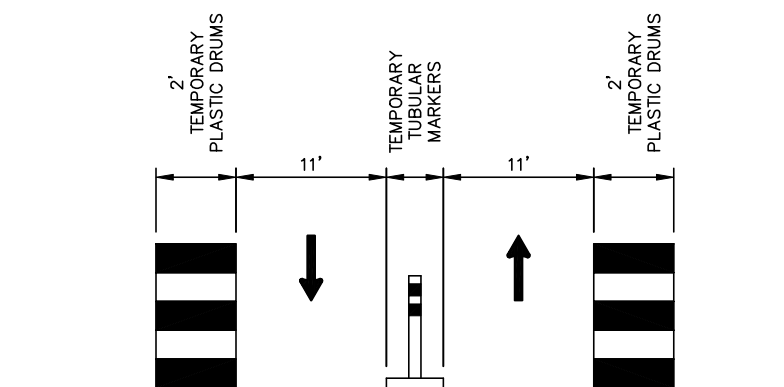
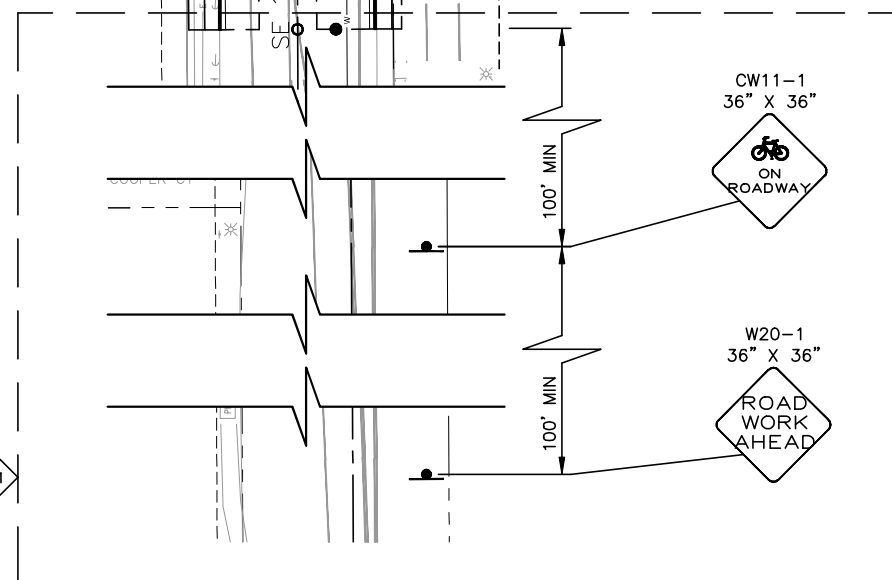
1. TRANSITION TEMPORARY TRAFFIC ALIGNMENT BACK TO EXISTING LANE ALIGNMENTS. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800 AND TM841.
2. STAGES II AND VI TO USE DETOUR ON SHEET 14.1 FOR DURATION OF THESE STAGES.
3. REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
5. ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, TM841 AND TM844.

**CONSTRUCTION NOTES**

1. TRANSITION TWO-WAY TRAFFIC BACK TO STANDARD LANES. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800.
2. MAINTAIN ONE LANE OF TRAFFIC FOR EMERGENCY USE DURING CONSTRUCTION.

**TRAFFIC CONTROL LEGEND**

- WORK ZONE
- SPLITTER ISLAND WORK ZONE
- TEMPORARY TUBULAR MARKERS
- TEMPORARY PLASTIC DRUMS
- TEMPORARY SIGN ON SUPPORT
- TEMPORARY TYPE III "C" BARRICADE (MIN. 8' WIDE)
- DIRECTION OF TRAFFIC



DESIGNED:	AMB
DRAWN:	PCB
CHECKED:	BJM
DATE:	MAY 2024

DATE	NO.	DESCRIPTION
REVISIONS		

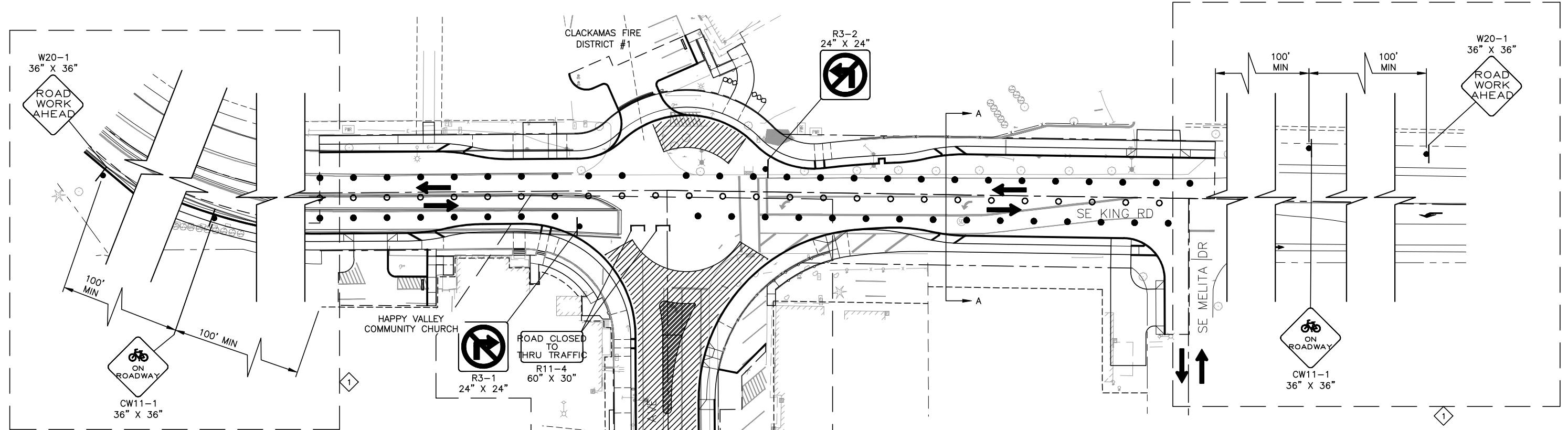


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CONSTRUCTION STAGING PLAN - STAGE II & VI  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.	<b>15.1</b>
JOB NO.	HAP-14

STAGE III/V  
SOUTH LEG CLOSED



**STAGE III STAGING**

STAGE III OF THE PROJECT WILL CONSTRUCT THE SOUTH LEG OF THE INTERSECTION. IMPACTED MOVEMENTS WILL REQUIRE VEHICLES TO USE DETOUR PLANS ON SHEET 14.2. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE. VEHICLES WILL SHARE THE ROAD WITH BICYCLES. CONSTRUCT THE ROADWAY IN TWO HALVES (EAST AND WEST) IN ORDER TO MAINTAIN ONE LANE OPEN FOR EMERGENCY FIRE USE. THE SPLITTER ISLAND WILL NOT BE CONSTRUCTED UNTIL STAGE V.

**CONSTRUCTION NOTES**

- 1 TRANSITION TWO-WAY TRAFFIC BACK TO STANDARD LANES. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800 AND TM841.
- 2 MAINTAIN ONE LANE OF TRAFFIC FOR EMERGENCY USE DURING CONSTRUCTION. CONSTRUCT ROADWAY IN HALVES.

**STAGE V STAGING**

STAGE V OF THE PROJECT WILL AGAIN CLOSE THE SOUTH LEG OF THE INTERSECTION TO INSTALL THE SPLITTER ISLAND. DETOUR GENERAL TRAFFIC PER SHEET 14.2. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE. VEHICLES WILL SHARE THE ROAD WITH BICYCLES. CONTRACTOR TO MAINTAIN ONE LANE OPEN FOR EMERGENCY FIRE USE.

**TRAFFIC CONTROL LEGEND**

- WORK ZONE
- SPLITTER ISLAND WORK ZONE
- TEMPORARY TUBULAR MARKERS
- TEMPORARY PLASTIC DRUMS
- TEMPORARY SIGN ON SUPPORT
- TEMPORARY TYPE III "C" BARRICADE (MIN. 8' WIDE)
- DIRECTION OF TRAFFIC

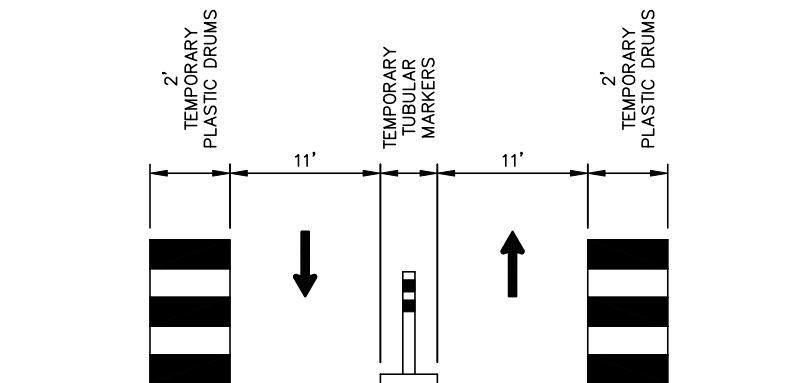
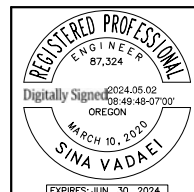
**GENERAL NOTES**

- STAGE CONSTRUCTION TO MAINTAIN ADA COMPLIANT PEDESTRIAN ROUTES THROUGH THE INTERSECTION AT ALL TIMES. SEE ODOT STANDARD DETAIL TM844.
- STAGES II AND VI TO USE DETOUR ON SHEET 14.2 FOR DURATION OF THESE STAGES.
- REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
- ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
- ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, TM841, AND TM844.

DATE	NO.	DESCRIPTION
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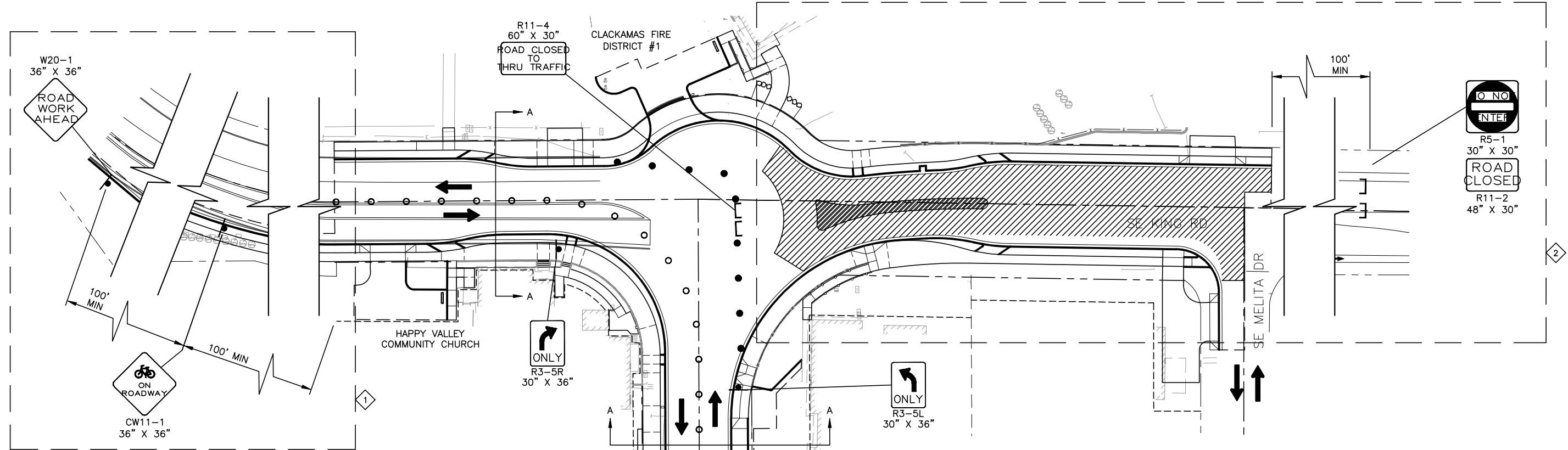
DESIGNED:	AMB
DRAWN:	PCB
CHECKED:	BJM
DATE:	MAY 2024



CONSTRUCTION STAGING PLAN - STAGE III & V  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.  
**15.2**  
JOB NO.  
HAP-14

STAGE IV  
EAST LEG CLOSED



**STAGE IV STAGING**

STAGE IV OF THE PROJECT WILL CONSTRUCT THE EAST LEG OF THE INTERSECTION AND INSTALLATION OF THE SPLITTER ISLAND. IMPACTED MOVEMENTS WILL REQUIRE VEHICLES TO USE DETOUR PLANS ON SHEET 14.3. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE. VEHICLES WILL SHARE THE ROAD WITH BICYCLES. THE LEG WILL BE CONSTRUCTED IN TWO HALVES (NORTH AND SOUTH) IN ORDER TO MAINTAIN ONE LANE OPEN FOR EMERGENCY FIRE USE.

**CONSTRUCTION NOTES**

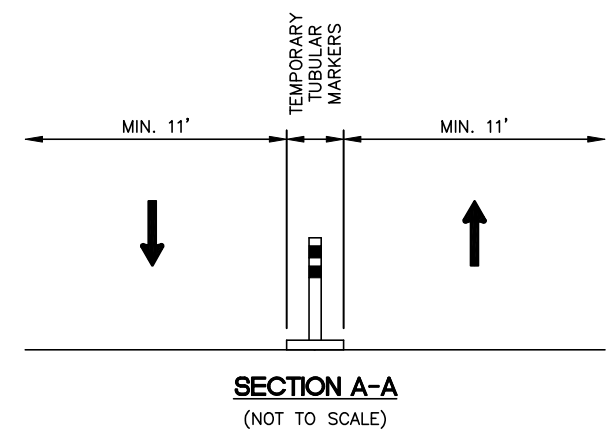
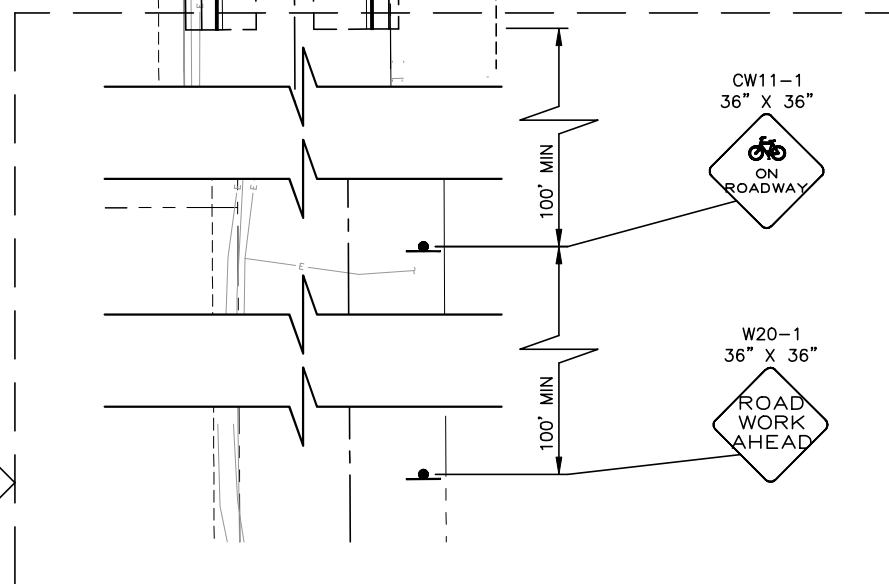
- 1 TRANSITION TWO-WAY TRAFFIC BACK TO STANDARD LANES. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800.
- 2 MAINTAIN ONE LANE OF TRAFFIC FOR EMERGENCY USE DURING CONSTRUCTION.

**TRAFFIC CONTROL LEGEND**

- WORK ZONE
- SPLITTER ISLAND WORK ZONE
- TEMPORARY TUBULAR MARKERS
- TEMPORARY SIGN ON SUPPORT
- TEMPORARY TYPE III "C" BARRICADE (MIN. 8' WIDE)
- DIRECTION OF TRAFFIC

**GENERAL NOTES**

1. STAGE CONSTRUCTION TO MAINTAIN ADA COMPLIANT PEDESTRIAN ROUTES THROUGH THE INTERSECTION AT ALL TIMES. SEE ODOT STANDARD DETAIL TM844.
2. STAGE IV TO USE DETOUR ON SHEET 14.3 FOR DURATION OF THESE STAGES.
3. REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
5. ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, TM841 AND TM844.



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CHECKED:	BJM
DATE:	MAY 2024

DATE	NO.	DESCRIPTION
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CONSTRUCTION STAGING PLAN - STAGE IV  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.

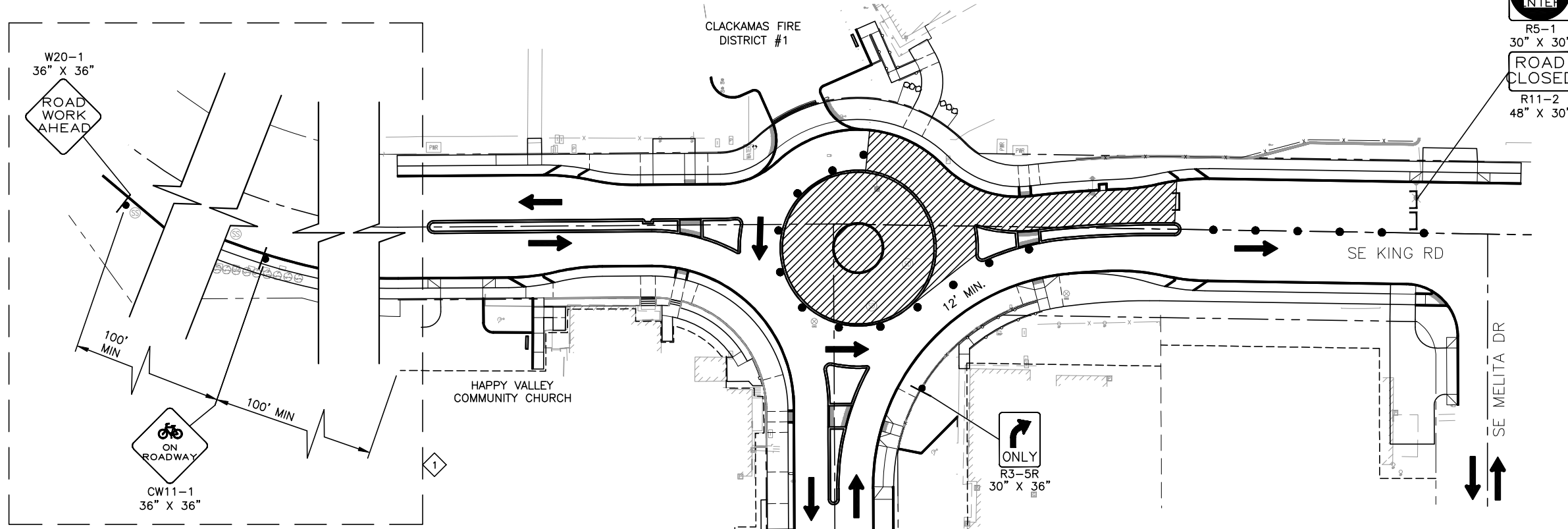
**15.3**

JOB NO.

HAP-14



STAGE VII  
CENTER ISLAND INSTALLATION



**STAGE VII STAGING**

STAGE VII OF THE PROJECT WILL CONSTRUCT THE CENTER ISLAND FOR THE ROUNDABOUT BY CLOSING THE WESTBOUND LANE ON THE EAST LEG OF THE INTERSECTION. IMPACTED MOVEMENTS WILL REQUIRE VEHICLES TO USE DETOUR PLANS ON SHEET 14.4. PEDESTRIANS WILL UTILIZE THE NEW SIDEWALKS AROUND THE WORK ZONE.

**GENERAL NOTES**

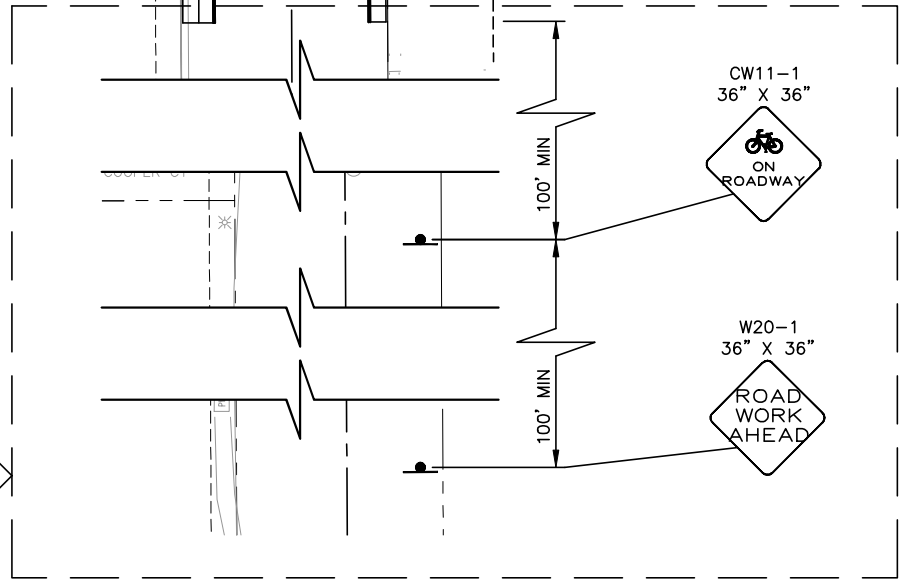
1. STAGE CONSTRUCTION TO MAINTAIN ADA COMPLIANT PEDESTRIAN ROUTES THROUGH THE INTERSECTION AT ALL TIMES. SEE ODOT STANDARD DETAIL TM844.
2. STAGE VII TO USE DETOUR ON SHEET 14.4 FOR DURATION OF THIS STAGE.
3. REFER TO THE MUTCD AND OREGON SIGN POLICY AND GUIDELINES FOR ADDITIONAL DETAILS.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE COMPLIANT FOR NIGHTTIME REFLECTIVITY.
5. ACCOMPANIED BY OREGON STANDARD DRAWINGS TM800, TM821, TM822, TM841 AND TM844.

**CONSTRUCTION NOTES**

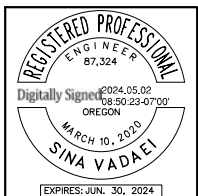
- 1 TRANSITION TWO-WAY TRAFFIC BACK TO STANDARD LANES. SEE MINIMUM LENGTHS TABLE ON ODOT STANDARD DETAIL TM800.

**TRAFFIC CONTROL LEGEND**

- WORK ZONE
- TEMPORARY PLASTIC DRUMS
- TEMPORARY SIGN ON SUPPORT
- TEMPORARY TYPE III "C" BARRICADE (MIN. 8' WIDE)
- DIRECTION OF TRAFFIC



DESIGNED:	AMB						
DRAWN:	PCB						
CHECKED:	BJM						
DATE:	MAY 2024						
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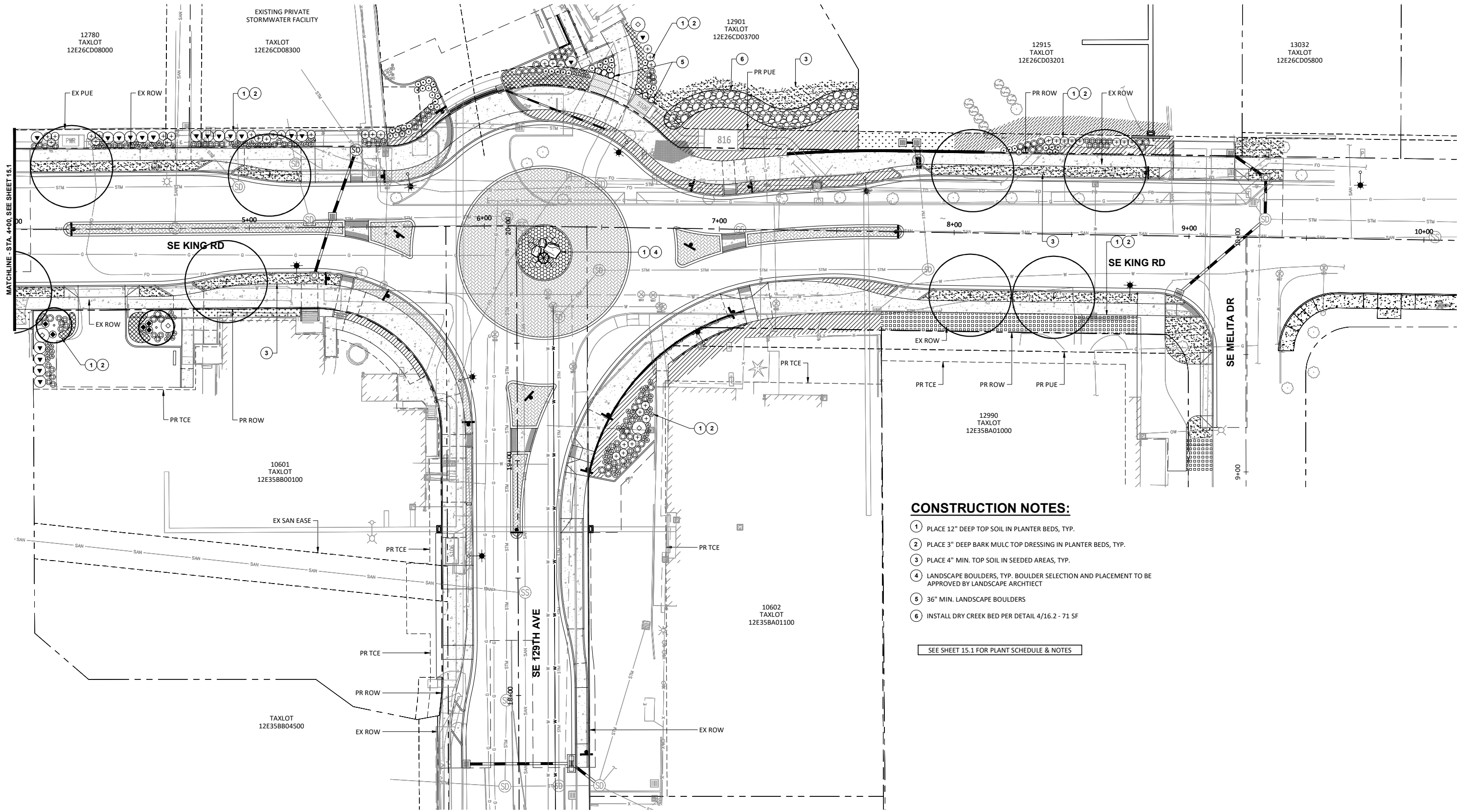
**DKS** 1050 SW 6th Avenue, Suite 600  
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CONSTRUCTION STAGING PLAN - STAGE VII  
**129TH AVE & KING RD ROUNDABOUT**  
HAPPY VALLEY, OREGON

SHEET NO.	<b>15.4</b>
JOB NO.	HAP-14

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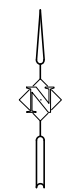
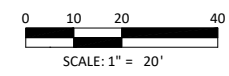
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**CONSTRUCTION NOTES:**

- 1 PLACE 12" DEEP TOP SOIL IN PLANTER BEDS, TYP.
- 2 PLACE 3" DEEP BARK MULC TOP DRESSING IN PLANTER BEDS, TYP.
- 3 PLACE 4" MIN. TOP SOIL IN SEEDED AREAS, TYP.
- 4 LANDSCAPE BOULDERS, TYP. BOULDER SELECTION AND PLACEMENT TO BE APPROVED BY LANDSCAPE ARCHITECT
- 5 36" MIN. LANDSCAPE BOULDERS
- 6 INSTALL DRY CREEK BED PER DETAIL 4/16.2 - 71 SF

SEE SHEET 15.1 FOR PLANT SCHEDULE & NOTES



DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**HHPR** 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

LANDSCAPE PLAN  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-XX-XX
SHEET NO.	<b>16.0</b>
JOB NO.	HAP-14

**GENERAL PLANTING NOTES**

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF HAPPY VALLEY STANDARDS AND OREGON STATE BUILDING AND SPECIALTY CODES.
- INSTALL EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF HAPPY VALLEY STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
- CONTRACTOR SHALL MARK AND PROTECT ALL UTILITIES, SITE FEATURES, AND VEGETATION TO REMAIN IN PLACE.
- CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING OR SEEDING.
- ALL AREAS DISTURBED BY STAGING AND CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT NO ADDITIONAL COST TO THE OWNER.
- PRIOR TO PLANTING, CONTRACTOR SHALL TEST PLANTING SOILS FOR SOIL FERTILITY BY CERTIFIED TESTING LAB. IF NECESSARY, BACKFILL SOILS FOR TREE PITS, SHRUB AND GROUND COVER AREAS SHALL BE AMENDED AS RECOMMENDED BY SOIL ANALYSIS REPORT.
- ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 4" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
- ALL PLANTER BEDS SHALL BE SCARIFIED 12" BELOW FINISHED GRADE AND HAVE 12" OF TOPSOIL ADDED TO BRING BACK TO FINISHED GRADE PRIOR TO PLANTING.
- CONTRACTOR TO INSTALL 3" LAYER OF COMPOST MULCH AT ALL TREE, SHRUB AND GROUND COVER AREAS.
- LANDSCAPE INSTALLATION SHALL INCLUDE PROVISION OF AN AUTOMATIC IRRIGATION SYSTEM TO SUSTAIN LANDSCAPE PLANTINGS, MEETING LOCAL AND STATE BUILDING CODES.
- PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
- QUANTITIES OF PLANT MATERIALS SHALL BE AS DETERMINED BY CONTRACTOR IN ACCORDANCE WITH SPECIFIED SPACING OR LOCATION ON PLAN. MATERIAL QUANTITIES SHOWN ON PLAN ARE FOR CONTRACTOR CONVENIENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION. SURPLUS OR SHORTAGES OF PLANT QUANTITIES SHALL BE RESPONSIBILITY OF CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR DURATION OF 365 DAY WARRANTY PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE IN SATISFACTORY HEALTH. LANDSCAPE CONTRACTOR SHALL REPLACE ALL DAMAGED, DEAD, OR DYING PLANTS COVERED BY WARRANTY WITHIN 30 DAYS OF INITIAL IDENTIFICATION OF CONDITION.

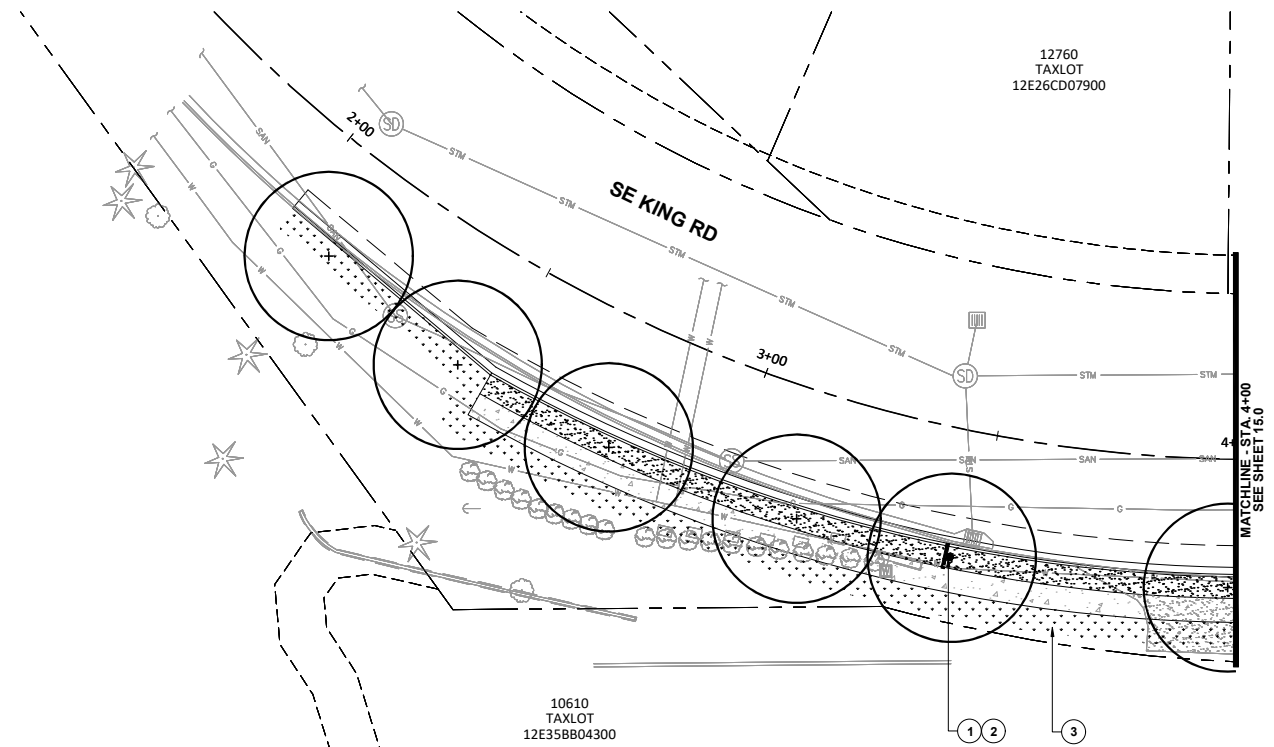
**PLANT SCHEDULE**

TREES	
	13 Acer rubrum 'October Glory' - October Glory Maple 2" CAL. B&B, WELL BRANCHED, LIMBED TO 6'
	2 Cornus 'Eddie's White Wonder' - Eddie's White Dogwood 2" CAL. B&B, WELL BRANCHED, LIMBED TO 6'
	1 Chamaecyparis obtusa 'Fernspray Gold' - Gold Falsecypress 6' HT. B&B, FULL TREES, BRANCHED TO GROUND
SHRUBS	
	47 Cornus sericea 'Kelsey' - Kelsey Dogwood 2 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	40 Viburnum davidii - David Viburnum 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	77 Abelia x grandiflora 'Kaleidoscope' - Kaleidoscope Glossy Abelia 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	83 Pennisetum alopecuroides 'Hamel' - Dwarf Fountain Grass 1 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	19 Escallonia x exoniensis 'Fradesil' - Pink Princess Escallonia 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	38 Spiraea japonica 'Gold Mound' - Goldmound Spiraea 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	4 Euonymus alatus 'Compactus' - Dwarf Buring Bush 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	5 Miscanthus sinensis 'Yakushima' - Dwarf Maiden Grass 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	6 Helictotrichon sempervirens - Blue Oat Grass 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
	6 Euonymus japonicus 'Monesi' - Boxleaf Euonymus 5 GAL. CONT., FULL PLANTS, SPACING AS SHOWN
GROUND COVER	
	636 Cotoneaster dammeri 'Lowfast' - Lowfast Cotoneaster 1 GAL. CONT., FULL PLANTS, 30" O.C.
	217 Carex oshimensis 'Everora' - Variegated Sedge 1 GAL. CONT., FULL PLANTS, 18" O.C.
	31 Sarcococca hookeriana var. humilis - Himalayan Sweet Box 1 GAL. CONT., FULL PLANTS, 30" O.C.
	73 Lithodora diffusa 'Grace Ward' - Grace Ward Lithodora 1 GAL. CONT., FULL PLANTS, 24" O.C.
	91 Rhus aromatica 'Gro-Low' - Gro-Low Fragrant Sumac 1 GAL. CONT., FULL PLANTS, 36" O.C.
	BARK MULCH ONLY - 3" DEEP

**SEED MIXES**

SEED MIX	AREA	% PLS	LBS OF PLA/ 1000 SF
SEED MIX 1 (LAWN AREAS)	4,654 sf	Festuca rubra spp. fallax var Windward	27.42 1.93
		Festuca rubra var. Garnet	29.03 2.03
		Lolium perenne var. Blazer 4	21.77 1.52
		Lolium perenne var Express II	21.77 1.52
		TOTAL	7.00

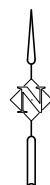
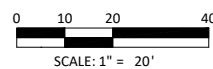
SEED MIX	AREA	% PLS	LBS OF PLA/ ACRE
SEED MIX 2 (ROUGH SEED)	1,825 sf	Lolium perenne	30 12.0
		Festuca rubra sp 'fallax'	20 8.0
		Festuca rubra	20 8.0
		Agrostis capillaris var highland	20 8.0
		Trifolium repens	10 4.0
		TOTAL	40.0



**CONSTRUCTION NOTES:**

- PLACE 12" DEEP TOP SOIL IN PLANTER BEDS, TYP.
- PLACE 3" DEEP BARK MULCH TOP DRESSING IN PLANTER BEDS, TYP.
- PLACE 4" MIN. TOP SOIL IN SEEDED AREAS, TYP.

N:\HAP\_City of Happy Valley\HAP-14 (SE 129th Ave and King Rd Intersection Analysis)\DWGSSheets\HAP-14-16-0-Landscape Plan.dwg



DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	HHPR
DRAWN:	HHPR
CHECKED:	DSH
DATE:	MAY 2024



**Harper Houf Peterson Righellis Inc.**  
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**LANDSCAPE PLAN - MITCHELL PARK FRONTAGE**  
**129TH AVE & KING RD ROUNDABOUT**  
 HAPPY VALLEY, OREGON

CIP NO.	CIP-XX-XX
SHEET NO.	<b>16.1</b>
JOB NO.	HAP-14

