

ADDENDUM No. 1
TO THE
CONTRACT DOCUMENTS FOR CONSTRUCTION OF
NE STEPHENS STREET ROADWAY IMPROVEMENTS
PROJECT #24PW01

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS DATED
May 13, 2024, TO THE SAME EXTENT AS THOUGH IT WERE ORIGINALLY INCLUDED
THEREIN.

ISSUED THIS 20th DAY OF May, 2024.

CITY OF ROSEBURG
PUBLIC WORKS DEPARTMENT
900 SE DOUGLAS AVENUE
ROSEBURG, OREGON 97470
(541) 492-6730

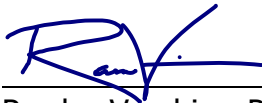
This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated May 13, 2024 as noted below. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

SPECIFICATIONS

SECTION - TECHNICAL PROVISIONS

1. **Change** Add attached section titled "Technical Provisions" in its entirety.

END OF ADDENDUM NO. 1



Rawley Voorhies, PE
Project Manager
Issued May 20, 2024

TECHNICAL PROVISIONS

WORK TO BE DONE

The Work to be done under this Contract consists of the following on the **24PW01 Stephens Street Roadway Improvements**.

1. Furnish, install, and remove temporary traffic control devices and temporary erosion control measures.
2. Construct sidewalk and curb ramps.
3. Construct storm drain improvements.
4. Grind and inlay asphalt concrete pavement.
5. Fog coat asphalt concrete pavement.
6. Install permanent striping.
7. 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 are the 2021 edition of the "Oregon Standard Specifications for Construction".

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.

CLASS OF PROJECT

This is a City of Roseburg Project.

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

Comply with the City of Roseburg "General Conditions" and 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:

- American Traffic Safety Services Association (ATSSA)
www.atssa.com
- BidExpress
www.bidx.com
- ODOT Construction Section
www.oregon.gov/odot/construction/pages/index.aspx
- ODOT Construction Section - Qualified Products List (QPL)
www.oregon.gov/ODOT/Construction/Pages/Qualified-Products.aspx
- ODOT Electronic Bidding Information Distribution System (eBids)
(Also referred to as ODOT eBids website)
ecm.odot.state.or.us/cf/EBIDS/
- ODOT Estimating
www.oregon.gov/ODOT/Business/Pages/Steel.aspx
- Oregon Legislative Counsel
www.oregonlegislature.gov/lc
- ODOT Procurement Office - Conflict of Interest Guidelines and Disclosure Forms
www.oregon.gov/ODOT/Business/Procurement/Pages/PSK.aspx
- ODOT Procurement Office - Construction Contracts Unit Notice of Intent
www.oregon.gov/ODOT/Business/Procurement/Pages/NOI.aspx
- ODOT Procurement Office - Construction Contracts Unit prequalification forms
www.oregon.gov/odot/business/procurement/pages/bid_award.aspx
- Oregon Secretary of State: State Archives
sos.oregon.gov/archives/Pages/default.aspx
- ODOT Traffic Control Plans Unit
www.oregon.gov/ODOT/Engineering/Pages/Work-Zone.aspx
- ODOT Traffic Standards
www.oregon.gov/ODOT/Engineering/Pages/Signals.aspx

SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES

Replace Section 00120 of the Standard Specifications except for the Section number and title, with the following:

Comply with the City of Roseburg “General Conditions” located within this booklet and supplemented and/or modified as follows:

The plans, which are applicable to the work to be performed under the contract, bear title and date as follows:

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Examination of Work Site and Bidding Documents – Before submitting a bid, bidders shall carefully examine the site of the proposed work, the bid booklet, plans, and specifications. Submission of a bid will be considered proof that the bidder has examined the site and bidding documents and understands the conditions to be encountered in performing the work and all requirements of the contract.

The City or its employees or agents will not be responsible for loss or unanticipated costs suffered by the bidder because the bidder failed to become fully informed about all conditions of the work. Any explanation or interpretation of plans and specifications needed by the bidder shall be requested in writing and directed to the following:

- Technical Information pertaining to work on this project:

Rawley Voorhies, P.E., Century West Engineering
5500 Meadows Road, Suite 250
Lake Oswego, OR 97035
(503) 740-8444
rvoorhies@centurywest.com

- All other requests:

City of Roseburg City Recorder
900 SE Douglas
Roseburg, OR 97470
(541) 492-6866
anytes@cityofroseburg.org

The request shall be made in sufficient time for the reply to reach the bidders before submission of the bidder’s bid. No requests will be answered that are submitted less than 10 days prior to the bid submission deadline. Refer to “Information to Bidders”. Oral explanations or interpretations given before receiving bids for a project will not be binding. To be binding, interpretation of the plans and specifications by the City must be made by written addendum or written clarification furnished to all plan holders.

Changes to Plans, Specifications, or Quantities before Opening of Bids – The City reserves the right to issue addenda making changes or corrections to the plans, specifications, or

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quantities. Only holders of bidding documents obtained from the ORPIN will be notified of these changes or corrections by email, sent to the bidder's email address as it appears on the plan holder's list files.

The City will not be responsible for failure of bidders to receive addenda sent as described in the preceding paragraph. Bids will be rejected if opened and found not to be based on changes or corrections sent before bids were opened.

Disqualification of Bidders – Any of the following reasons may be sufficient to disqualify a bidder and cause its proposal(s) to be rejected:

- More than one proposal for the same work from an individual, partnership, corporation, or joint venture under the same or different name
- Evidence of collusion among bidders. Participants in collusion will be found not responsible and may be subject to criminal prosecution.
- The reasons cited in ORS 279.037

A bidder will be disqualified if the bidder has:

- Not been prequalified as required by the Information for Bidders, Section 9
- Been declared ineligible by the commissioner of the Bureau of Labor and Industries under ORS 279.361.
- Not registered with the Oregon Construction Contractors Board or been licensed by State Landscape Contractors Board before submitting a bid (ORS 279.025(2)(k) and (671.530). The bidder's registration number and expiration date shall be shown in the proposal form, if requested. Failure to furnish the registration number, if requested, will render the bid non-responsive and subject to rejection. (Not required on Federal-Aid projects.)

SECTION 00130 - AWARD AND EXECUTION OF CONTRACT

Replace Section 00130 of the Standard Specifications except for the Section number and title, with the following:

Comply with the City of Roseburg "General Conditions".

SECTION 00140 - SCOPE OF WORK

Comply with the City of Roseburg "General Conditions" and Section 00140 of the Standard Specifications.

SECTION 00150 - CONTROL OF WORK

Comply with the City of Roseburg "General Conditions" and Section 00150 of the Standard Specifications modified as follows:

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00150.10(a) Order of Precedence - Replace this subsection, except for the subsection number and title, with the following:

The Engineer will resolve any discrepancies between these documents in the following order of precedence:

- Contract Change Orders;
- Special Provisions;
- Stamped Agency-prepared drawings specifically applicable to the Project and bearing the Project title;
- Reviewed and accepted, stamped Working Drawings;
- Supplemental Agency-prepared line, grade and cross section data applicable to the project;
- Standard Drawings;
- Approved unstamped Working Drawings;
- City of Roseburg “General Conditions”;
- Standard Specifications; and
- All other Contract Documents not listed above.

Notes on a drawing shall take precedence over drawing details.

Dimensions shown on the drawings, or that can be computed, shall take precedence over scaled dimensions.

00150.15(b) Agency Responsibilities - Replace this subsection, except for the subsection number and title, with the following:

The Engineer will perform the Agency responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.5 (see Section 00305).

00150.15(c) Contractor Responsibilities - Replace this subsection, except for the subsection number and title, with the following:

The Contractor shall perform the Contractor responsibilities described in the Construction Surveying Manual for Contractors, Chapter 1.6 (see Section 00305).

The Contractor shall perform slope staking including intersections and set stakes defining limits for clearing which approximate right-of-way and easements.

00150.30 Delivery of Notices - Add the following to the end of this subsection:

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

Following Notice to Proceed, all notices and other documents submitted to the Contractor by the Engineer, or to the Engineer by the Contractor, electronically under 00170.08:

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- If recorded in Doc Express® as received before 5:00 p.m. PST on a business day, it shall be considered as received on the business day on which it was actually received in Doc Express®.
- If recorded in Doc Express® as received on a non-business day, or after 5:00 p.m. PST on a business day, it shall be considered as received at 8:00 a.m. PST on the next business day.

Claims must be submitted on paper documents according to Section 00199.

Add the following subsection:

00150.50(f) Utility Information (No Anticipated Relocations) - Within the Project limits, there are no anticipated relocations with the Utilities listed below. The Contractor shall contact those Utilities having buried facilities and request that they locate and mark them for their protection prior to construction.

Utility	Contact Person's Name and Phone Number
Pacific Power (power provider)	Rick Castle (541) 530-2232
Avista Utilities (natural gas provider)	Ryan Peace (541) 671-8729
Roseburg Public Works Department (water)	Dan Forrest (541) 643-1396
Roseburg Public Works Department (storm sewer)	Jim Johnson (541) 492-6896
ODOT Electrical Crew (J-boxes, push buttons)	Brian Henry (541) 957-3669
ODOT Traffic Signals (timing, loops, etc.)	Aaron Brooks (541) 957-3500
Roseburg Urban Sanitary Association (sanitary)	Ryon Kershner (541) 430-4256

Add the following subsection:

00150.60(d) Access and Work Zone – Construction equipment access shall be limited to existing public right-of-way and the access locations shown on the construction plans.

SECTION 00160 - SOURCE OF MATERIALS

Comply with the City of Roseburg “General Conditions” and Section 00160 of the Standard Specifications.

SECTION 00165 - QUALITY OF MATERIALS

Comply with the City of Roseburg “General Conditions” and Section 00165 of the Standard Specifications modified as follows:

00165.03 Testing by Agency – Replace this subsection except for the subsection number and title, 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 Cost of Testing – Replace this subsection except for the subsection number and title, with the following:

All testing required to be performed by the Contractor will be considered incidental and will be at the Contractor’s expense.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

Comply with the City of Roseburg “General Conditions” and Section 00170 of the Standard Specifications modified as follows:

00170.60 – Safety, Health, and Sanitation Provisions - Add the following paragraph to the end of this subsection:

The Contractor shall provide and maintain proper portable sanitary facilities for their employees and their subcontractors’ employees during day and night shifts that will comply with the regulations of the local and State departments of health and as directed by the Engineer.

SECTION 00180 - PROSECUTION AND PROGRESS

Comply with the City of Roseburg “General Conditions” and Section 00180 of the Standard Specifications modified as follows:

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

Limitations	Subsection
Cooperation with Utilities	00150.50
Closed Lanes	00220.40(e)(1)
Special Events	00220.40(e)(2)(b)
Maintenance Under Traffic	00620.43
Opening Sections to Traffic.....	00220.70

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.

00180.50(c) Beginning of Contract Time - Replace this subsection except for the subsection number and title, with the following:

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When the Contract Time is stated in Calendar Days, a counting of Contract Calendar Days will begin on the day "Notice to Proceed" is issued by the City.

00180.85 Failure to Complete on Time; Liquidated Damages - Replace this subsection, except for the subsection number and title, with the following:

(a) Time is of the Essence - Time is of the essence in the Contractor's performance of the Contract. It is essential and in the public interest that the Contractor prosecute the Work vigorously to Contract completion and within Contract Time or adjusted Contract Time.

The Agency does not waive any rights under the Contract by permitting the Contractor to continue to perform the Contract, or any part of it, after the Contract Time or adjusted Contract Time has expired.

(b) Liquidated Damages - Delays in the Contractor's performance of the Work will cause the Agency to sustain damages; increase risk to, inconvenience, and interfere with the traveling public and commerce; and increase costs to taxpayers. Because the Agency finds it is unduly burdensome and difficult to demonstrate the exact dollar value of such damages, the Contractor agrees to pay to the Agency, not as a penalty but as liquidated damages, the amount(s) determined as specified below for each Calendar Day the Work remains incomplete after the expiration of the Contract Time or adjusted Contract Time applicable to that Work. The liquidated damages shall constitute payment in full only of damages incurred by the Agency due to the Contractor's failure to complete the Work on time.

Payment by the Contractor of liquidated damages does not release the Contractor from its obligation to fully and timely perform the Contract according to its terms. Nor does acceptance of liquidated damages by the Agency constitute a waiver of the Agency's right to collect any additional damages it may sustain by reason of the Contractor's failure to fully perform the Contract according to its terms.

If the Contract is terminated according to 00180.90(a), and if the Work has not been completed by other means on or before the expiration of Contract Time or adjusted Contract Time, liquidated damages will be assessed against the Contractor for the duration of time reasonably required to complete the Work.

Liquidated damages will be assessed per Paragraph 11 of the Bid Form.

SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with the City of Roseburg "General Conditions" and Section 00190 of the Standard Specifications.

SECTION 00195 - PAYMENT

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Comply with the City of Roseburg "General Conditions" and Section 00195 of the Standard Specifications modified as follows:

00195.12(d) Steel Materials Pay Item Selection - Add the following paragraph to the end of this subsection:

No Pay Items under this Contract qualify for the steel escalation/de-escalation program for this Project.

SECTION 00196 - PAYMENT FOR EXTRA WORK

Comply with the City of Roseburg "General Conditions" and Section 00196 of the Standard Specifications.

SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK

Comply with the City of Roseburg "General Conditions" and Section 00197 of the Standard Specifications.

SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS

Replace Section 00199 of the Standard Specifications except for the Section number and title, with the following:

Comply with the City of Roseburg "General Conditions".

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

Add the following subsection:

00220.02(a) General Requirements - Replace the bullet that begins, "Do not stop or hold vehicles..." with the following bullet:

- Maintain at least one lane of traffic in each direction of travel at all times. Do not stop or hold traffic in any one direction for more than 5 minutes. Do not block driveways,

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intersections, or approaches. Provide reasonable access to driveways, intersections and approaches at no additional cost to the Agency.

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

- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge" and the "Typical Abrupt Edge Delineation" configurations shown on the Standard Drawings.

00220.02(b) Temporary Pedestrian Accessible Route (TPAR) Plan - Add the following bullets to the end of the bullet list:

- For any single curb ramp/intersection corner, the TPAR shall not be in place for any longer than 10 Calendar Days, unless otherwise indicated on the plans. All curb ramp work must be completed before the TPAR is removed.
- The Agency will allow more than one corner of an intersection to be constructed concurrently if the Contractor submits, and the City approves, a TPAR that shows adequate pedestrian accessibility through the work zone.

00220.03(a) Road Closures – In addition to the requirements of 0220.03(b), if public streets are to be closed for any duration, obtain the required permits from the City's Public Works Department and comply with all requirements including any notification requirements for the affected residences and required public notifications. Generally, provide a 72-hour initial public notification published in the local paper, broadcast on at least one local radio station, and as a public service announcement on the local television station. Maintain access for residences and school employees.

00220.03(b) Closures - Add the following bullet to the end of the bullet list:

- Obtain a City of Roseburg Permit for all street closures prior to closing the street. Obtain permit at least 7 days in advance of actual closures.

00220.03 Work Zone Notifications - Add the following bullet to the end of the sub-section:

(c) Permitting and Public Notification - Obtain a City of Roseburg Street Closure Permit for all lane, shoulder or sidewalk closures prior to closing. Obtain permit at least 7 days in advance of actual closure.

- The City will provide general notification through the news media of the scope of the project. However, the Contractor shall provide a minimum of seven days' notice to each property owner who is affected by the temporary interruption of their access, one-way restrictions, detours, temporary road closures, restricted parking, etc. It shall be the Contractor's responsibility to provide written and verbal notice to each property owner, resident, or business manager whose access is restricted or limited.
- It shall be the Contractor's responsibility to contact all emergency responding facilities such as, but not limited to, City police, City fire department and ambulance services before any one way or detour routes are established.

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

Stephens Street and Kenneth Ford Drive Intersection Curb Ramp Construction Work (and associated improvements):

One or more Traffic Lanes may be closed when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e-2). Maintain two-lane (11' minimum), two-way traffic at all time.

- Daily, Monday through Friday between 6:00 a.m. and 3:00 p.m.

Any lane closures at the Stephens Street and Kenneth Ford Drive intersection that alter traffic patterns and change lane configurations to the extent that require flagging shall not be allowed, unless approved in writing by the Engineer.

If no active construction will occur within the work zone adjacent to a lane closure within the upcoming 24-hour period, the lane closure must be removed.

Stephens Street Grind/Inlay Paving and Markers/Markings:

One or more Traffic Lanes may be closed when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e-2). Maintain a minimum of one lane of traffic (11' minimum) in each direction at all times.

- Nightly, Sunday through Friday between 7:00 p.m. and 7:00 a.m.

Stephens Street Pavement Repair Work:

One or more Traffic Lanes may be closed when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e-2). Maintain a minimum of one-lane (12' minimum), two-way traffic in each direction at all times.

- No restrictions on work hours

Work must occur within five (5) consecutive calendar days and shall not span over a weekend.

Work must be completed prior to Stephens Street Grind/Inlay work shifts.

Contractor to provide necessary flaggers, flagger station lighting, etc. at all times that 2-lane, 2-way traffic is not provided. Travel lanes shall be a minimum of 11' wide.

The maximum allowable pavement edge drop while active construction is not occurring shall be shall be no more than 8 inches.

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Garden Valley Boulevard Pavement Repair Work:

One or more Traffic Lanes may be closed when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e-2). Maintain two-lane, two-way traffic at all time as indicated below.

- Demolition, excavation, backfill and paving shall occur within a single 24-hour work period.
- Work period is limited to the hours of Saturday at 7 pm to Monday at 6 am. All other work outside of closure period shall occur Sunday through Thursday nights between 9 pm and 5 am.
- Contractor may close both Garden Valley Blvd westbound travel lanes and eastbound left turn lane within vicinity of project during work hours indicated. Traffic must be detoured using NE Oakland Avenue and NW Willow Street, including necessary detour signage.

All other work:

One or more Traffic Lanes on Stephens Street may be closed when allowed, shown, or directed during the following periods of time except as indicated in 00220.40(e-2).

Maintain two-lane, two-way traffic on Stephens Street at all times. A center turn lane is not required.

- Daily, Monday through Thursday between 6:00 a.m. and 4:00 p.m.
- Friday between 9:00 a.m. and 3:00 p.m.

If no active construction will occur within the work zone adjacent to a lane closure within the upcoming 24-hour period, the lane closure must be removed.

Maintain 2-way, 2-lane traffic on adjoining side street approaches at all times, unless otherwise indicated in the plans or approved in writing by the Engineer.

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:

Graffiti Weekend – July 10 – 14th, 2024
Douglas County Fair – August 7th – 10th, 2024

SECTION 00221 – COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

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

00221.01(b) Definitions – Add the following to the end of the subsection:

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Temporary Walk – Temporary Surfacing for a sidewalk or Multi-Use Path designated to be used by pedestrians, bicyclists, or other non-motorized users.

00221.06(b) Contractor Modified Traffic Control Plan - Delete the word "stamped" from the paragraph that begins "If the Contractor requests to use...".

00221.90(a) Pay Quantities – replace this subsection, except for the subsection number and title, with the following:

The accepted quantities of work zone TCM and TCD will be paid for according to 00222.90, 00223.90, 00224.90, 00225.90, 00226.90, 00227.90, and 00228.90. Items not specifically listed in the Schedule of Values shall be considered incidental to the Temporary Protection and Direction of Traffic item.

00221.90(b) Temporary Protection and Direction of Traffic - Add the following bullets to the end of this section:

- Removing permanent pavement striping.
- Furnishing, installing, maintaining, moving, and removing temporary pavement striping or removable tape.
- Furnishing, installing, maintaining, moving, and removing temporary pavement markers.
- Furnishing, placing, replacing, maintaining, moving and removing temporary plastic drums.
- Furnishing, placing, replacing, maintaining, moving and removing temporary sign supports.

SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

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

00222.40(a)(2) Regulatory Speed Zone Signs - Delete the words "State Traffic" from the first paragraph.

00222.40(e) Temporary Signs - Add the following to the end of the bullet list:

- Install an 18 by 24-inch "NO PARKING" (R8-3a) sign in every block where on-street parking is prohibited, facing incoming traffic.
- When construction requires bicycles to use the Traffic Lanes, install a "Bicycle ON ROADWAY" (CW11-1) symbol sign in advance of, and on 1/2 mile spacing through the affected area. Keep the signs in place until completion of the Shoulder or bikeway final surface.

00222.80 Measurement - Add the following bullet to the end of this sub-section:

- (c) **Time Basis** – Portable Changeable Message Signs will be measured on a weekly time basis.

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00222.90 Payment – Replace Pay Item (c) with the following:

Pay Item	Unit of Measurement
(c) Portable Changeable Message Signs.....	Week

SECTION 00223 – WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES

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

00223.90 Payment – Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for work zone traffic control labor, equipment and/or vehicles, unless listed in the Schedule of Values. Items not specifically listed in the Schedule of Values shall be considered incidental to the Temporary Protection and Direction of Traffic item.

SECTION 00224 – TEMPORARY TRAFFIC CHANNELIZING DEVICES

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

00224.10 Tubular Markers - Add the following paragraph to the end of this subsection:

Blue plastic tubular markers shall be reflectorized with at least two blue, flexible reflective bands at least 3 inches wide, securely attached no more than 2 inches from the top with no more than 6 inches but not less than 1 inch between the bands.

SECTION 00225 – TEMPORARY PAVEMENT MARKING

Comply with Section 00225 of the Standard Specifications modified as follows:

00225.83(b) Temporary Tape - Replace this subsection, except for the subsection number and title, with the following:

No separate measurement will be made for removable, non-removable, and non-reflective tape.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

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

00280.00 Scope - Add the following:

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The ESCP has not been developed as a part of the plan set. Prepare and submit an ESCP to be approved by the Engineer and Agency prior to beginning Work. -Engineer may require additional erosion and sediment control measures at no additional cost to the Agency in order to approve submitted methods of operations and scheduling.

00280.06 Erosion and Sediment Control Manager - Delete this subsection.

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 with 24 hours.

SECTION 00290 - ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications.

SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications.

SECTION 00310 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

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

Add the following subsection:

00310.45 Removal of Existing Surfaces

Remove sidewalk and surfacings as shown on the Plans. Sidewalk and surfacings to be removed shall be cut in neat, straight lines with vertical edges along the limits of removal. The cut lines for removal of asphaltic or cement concrete pavement shall be reviewed and approved by the Engineer in the field before cutting. Demolish and remove concrete curbs, islands and other surfacings as directed by the Engineer or as shown. Make a vertical saw cut between any existing curb that is to remain and portion that is to be removed. Remove roadway pavement in the street adjacent to curbs and islands as shown on the Plan or as directed by the Engineer. Remove existing aggregate underneath concrete and/or pavements to be removed to allow for new concrete pavement, base aggregate and roadway pavement to be constructed as indicated in the plans.

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00310.92 Separate Item Basis - Add the following:

When the Contract Schedule of Items does not indicate payment for Work on a separate item basis, no separate or additional payment will be made. Payment will be included in payment made according to 00310.90 or 00310.91, as applicable.

The paragraph that begins with the words "Item (d) includes..." is replaced with the following:

Item (d) includes all work associated with surfacing removal including but not limited to saw cutting, removal of existing asphalt, curbs, islands, sidewalks and other surfacings to the limits and grades shown on the plans. No separate or additional payment will be made for the removal of other features or earthwork inside the removal of surfacings limits as this work is considered incidental.

SECTION 00320 - CLEARING AND GRUBBING

Comply with Section 00320 of the Standard Specifications.

SECTION 00330 – EARTHWORK

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

00330.03 Basis of Performance - Add the following paragraph to the end of this subsection:

Perform all earthwork under this Section on the excavation basis.

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

Construct the outer 6 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.

00330.45 Filling of Holes - Replace the last two sentences of this subsection with the following:

No separate or additional payment will be made for this Work.

SECTION 00440 - COMMERCIAL GRADE CONCRETE

Comply with Section 00440 of the Standard Specifications modified as follows:

Add the following subsection:

00440.02 Abbreviations and Definitions:

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ASTV – Actual Strength Test Value – See 02001.02 for definition.

00440.12 Properties of Commercial Grade Concrete - Replace the bullet that begins "Compressive strength..." with the following bullet:

- **Compressive Strength** - ASTV minimum of 4,000 psi at 28 days for driveways, minimum 3,300 psi at 28 days for all other commercial grade concrete.

00440.14(d) Hardened CGC - Add the following to the end of this subsection:

The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

SECTION 00445 – SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications.

SECTION 00470 – MANHOLES, CATCH BASINS, AND INLETS

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

00470.18 Catch Basin and Curb Inlet Water Quality Filter Insert – Furnish new water quality filter inserts for all newly constructed catch basins and curb inlets. Water quality inserts shall provide filtration through a filter screen or filter liner, and hydrocarbon capture shall be effected using a non-leaching absorbent material contained in a pouch or similar removable restraint. Hydrocarbon absorbent shall not be placed at an exposed location at the entry to the filter that would allow blinding by debris and sediment without provision for self-cleaning in operation. The filter shall conform to the dimensions of the inlet in which it is applied, allow removal and replacement of all internal components, and allow complete inspection and cleaning in the field.

The filter support frame shall be constructed of type 304 stainless steel. Filter screen, when used in place of filter liner, shall be type 304 or 316 stainless steel, with an apparent opening size of not less than 4 U.S. mesh. Filter liner, when used in place of filter screen, shall be woven polypropylene geotextile fabric liner with an apparent opening size (AOS) of not less than 40 U.S. mesh as determined by ASTM D 4751. Filter liner shall include a support basket of polypropylene geogrid with stainless steel cable reinforcement. Filter frame shall be rated at a minimum 25-year service life. All other materials, with the exception of the hydrocarbon absorbent, shall have a rated service life in excess of 2 years. All hardware and anchors shall be 304 stainless steel. Resin anchor systems shall be used for mounting hardware.

00470.40 (b) Pipe Connections – Add the following to the end of the section:
Inverts for existing pipes are to be verified by the contractor and field fit as required.

00470.90 Payment – Add the following paragraph after the pay item list:
Item (d) shall include furnishing and installing one (1) water quality filter insert per inlet.

SECTION 00490 – WORK ON EXISTING SEWERS AND STRUCTURES

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

00490.44 Filling Abandoned Pipes, Manholes and Catch Basins – Add the following paragraph to the end of this subsection:

All pipes shall be filled with CLSM conforming to Section 00442.

00490.90 Payment – Add the following pay item:

Pay Item	Unit of Measurement
(j) Abandon Existing Storm Pipe.....	LS

SECTION 00620 – COLD PLANE PAVEMENT REMOVAL

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

00620.80 Measurement – Add the following to the end of this section:

Areas marked in the field by the Engineer as requiring additional spot grinding prior to mainline overlay paving or additional grinding after the initial cold planning operations for mainline inlay paving will be measured under the bid item for “Cold Plane Pavement Removal, 0” - 1” Deep”.

00620.90 Payment – Replace this subsection, except for the subsection number and title, with the following:

Pay Item	Unit of Measurement
(k) Cold Plane Pavement Removal, _____ Deep.....	SY
(l) Cold Plane Pavement Removal, 0 – 1 Inch Deep.....	SY

In item (a), the depth will be inserted in the blank.

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

No separate or additional payment will be made for temporary wedges constructed, maintained, and removed under 00620.40(d), or for replacement of cutting teeth.

SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS

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

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00641.10(a) Base and Shoulder Aggregate - Replace the first paragraph with the following:

Aggregate for bases and Shoulders shall be sized as specified. Base aggregate shall be dense-graded 3/4" - 0 for sidewalk, curb ramp, and curb construction. Use clean, hard, durable aggregates, reasonably well-graded from maximum size to dust.

Existing aggregate exposed during the removal of existing asphalt shall be left in place, regraded, recompacted and used as a base for new asphalt concrete pavement (ACP). Import 3/4" – 0 aggregate shall be utilized for fine grading as needed if Engineer determines that existing aggregate has insufficient gradation, fines, etc.

Add the following subsection:

00641.16(d) Existing Aggregate Base to Remain – Existing aggregate to remain as a base for ACP will be accepted based on the Engineer’s visual inspection.

Add the following subsection:

00641.44(c) Existing Aggregate Base Course to Remain – Shape and compact existing aggregate in accordance with subsection 00641.44(a).

00641.80 Volume Basis - Replace this subsection, except for the subsection number and title, with the following:

The quantities of aggregate will be measured on the volume basis. Quantities will be the theoretical neat line quantity constructed and accepted. A half-foot (6") buffer is included at back of curb excavations to allow for form work.

Except for approved backfill below elevations shown, existing aggregate base deemed acceptable to remain as a base for ACP, and ordered changes, field measurement of the quantity will not be performed.

**SECTION 00705 - EMULSIFIED ASPHALT PRIME COAT AND EMULSIFIED ASPHALT
FOG COAT**

Comply with Section 00730 of the Standard Specifications modified as follows:

00705.90 Payment – Comply with this subsection modified as follows:

Replace Pay Item (b) with the following pay item:

Pay Item	Unit of Measurement
(b)Emulsified Asphalt in Fog Coat.....	Square Yard

SECTION 00730 - EMULSIFIED ASPHALT TACK COAT

Comply with Section 00730 of the Standard Specifications modified as follows:

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:

00744.00 Scope – Replace this subsection with the following:

This work consists of constructing asphalt concrete pavement (ACP) to the lines, grades, thicknesses, and cross sections shown or established.

Where shown, work shall include furnishing all materials, equipment, labor, and incidentals for mixing aramid fiber into ACP, when aramid fiber is required as a mixture ingredient. The fiber reinforced ACP will be subject to all requirements for ACP in this Section.

00744.02 Definitions – Insert the following in alphabetical order:

Reinforcing Fibers – An asphalt concrete additive consisting of aramid fibers blended at time of mixing.

00744.05 Reinforcement Fiber Blend - Provide a reinforcing fiber blend of Virgin Polyolefins and Virgin Aramids conforming to the minimum requirements below. Design JMF without the reinforcing fibers. Do not alter the final mix design for the addition of fiber at the asphalt plant. Certified reinforcing fiber test data for the fibers to be used on the project shall be submitted at the time of the JMF submittal.

Property	Measure	Standard
Material	Aramid	ASTM D276
Form	Monofilament fibers	Manufacturer Certification
Length	0.75 inches (+/- 10%)	Manufacturer Certification
Specific	Gravity 1.44	ASTM D276
Minimum Tensile Strength	400,000 psi	ASTM D3379
Maximum Tensile Elongation	1.8 %	ASTM D3379
Degradation Temperature	800 degrees F	ASTM D276
Acid and Alkali Resistance	Inert	Manufacturer Certification

Submit the following:

- Identify the mixing plant.
- Provide a fiber product data sheet and certification from the manufacturer that the fiber

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- product supplied meets the requirements of this specification.
- Manufacturer's instructions and general recommendations.
- Provide the following from product supplier at least three weeks prior to ACP production.
 - The supplier's specified mix rate for the aramid product.
 - Evidence showing how many times, if any, the supplier's fiber product has been successfully produced at the asphalt plant to be used for the project.
 - Process for introducing the fiber product to the mix.

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

Provide PG 70-22ER or PG 64-22 grade asphalt cement for this Project as indicated in the plans.

00744.18 Fiber Storage, Mixing and Mix Production - Store, mix and produce the fiber reinforced ACP mixture in accordance with the following requirements:

1. Deliver fiber-reinforcement in sealed, undamaged containers with labels intact and legible, indicating material name and lot number.
2. Deliver fiber-reinforcement to location where it will be added to each batch or loaded into the mixer.
3. Store materials covered and off the ground. Keep sand and dust out of boxes and do not allow boxes to become wet.
4. Add aramid and polyolefin reinforcing fiber blends at a dosage rate of one (1) pound fiber per one (1) ton of asphalt. Non-aramid fiber blends, aramid fiber blends with dosages less than 1 pound per ton, or fiber ton equivalents will not be accepted.
5. Have a fiber manufacturer's representative on site during mixing and production.
6. Batch Plant - When a batch plant is used, add fiber to the aggregate in the weigh hopper and increase both dry and wet mixing times. Ensure that the fiber is uniformly distributed before the injection of asphalt cement into the mixture.
7. Drum Plant:
 - a. Inject fibers through the RAP collar manually or by feeding them with a metered air blown system to promote rapid and complete fiber dispersion. Rate the feeding of fibers with the rate the plant is producing asphalt mix. If there is any evidence of fiber bundles at the discharge chute, increase the mixing time and/or temperature or change the angle of the fiber feeder line to increase dry mixing time.
 - b. Add fibers continuously and in a steady uniform manner. Provide automated proportioning devices and control delivery within $\pm 10\%$ of the mass of the fibers required. Perform an equipment calibration to the satisfaction of the fiber manufacturer's representative to show that the fiber is being accurately metered and uniformly distributed into the mix.

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Include the following with the air blown system:

- Low level indicators
- No-flow indicators
- A printout of feed rate status in pounds/minute
- A section of transparent pipe in the fiber supply line for observing consistency of flow or feed.
- Manufacturer's representative's approval of fiber addition system

Add the following subsection:

00744.19 Reinforcement Fiber Quality Control - Provide reinforcement fiber quality control according to the following:

1. Collect a 10kg sample of mix from the discharge chute during first 50 tons of production. Visually assess the state of aramid fibers and rate the sample as "Pass" or "Fail".
 - i. "Pass" = All fibers exist in an Individual State and no Undistributed Clips or Agitated Bundles of fiber are detected.
 - ii. "Fail" = One or more Undistributed Clips or Agitated Bundles are detected.
2. If a sample is rated as "Fail", adjust mixing operations to improve fiber dispersion and repeat Step 1 above.
3. If Visual Test results in three consecutive "Fail" ratings, stop production until a plan for corrective action is approved by the Engineer.
4. In addition to Visual Test, use a shovel to inspect the fiber reinforced mix in the back of first three trucks and every tenth truck thereafter to confirm adequate blending of the fiber.
5. Remove any observed fiber bundles from placed mixture and adjust operations per the manufacturer's recommendation to eliminate future fiber bundle development, and repeat Steps 1 through 3 above to confirm adequate aramid fiber dispersion.

Insert the following new section:

00744.46 Asphalt Side Street Connections – Pave all side street connections prior to paving the mainline.

Insert the following new section:

00744.50 Joints - Sand seal all joints following the final lift. Width of joint seal coat shall be no less than four inches and no more than six inches.

Add the following subsection:

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00744.51 Opening Sections to Traffic - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the wearing Course before opening to traffic.

00744.70 Pavement Smoothness – At the end of the first paragraph, insert the following sentence:

These tolerances shall apply to water valve boxes, manhole lids and other utility appurtenances that can be adjusted as part of the paving operations.

00744.90 Payment – In the first group of bulleted items, replace the third bullet with the following:

- The words "in Leveling", "in Temporary", "in Leveling and Temporary", or "with Fibers" will be inserted in the third blank when applicable.

In the second group of bulleted items, insert the following bulleted item:

- asphalt tack coat

Add the following to the end of this subsection:

No separate or additional payment will be made for saw cutting existing pavement, and/or removing and disposing of existing pavement.

SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES

Comply with Section 00749 of the Standard Specifications.

SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

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

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)

00759.12 Sidewalk Ramp Treatment - Replace this subsection, except for the subsection number and title, with the following:

Furnish "Safety Yellow" colored, cast-in-place, truncated dome detectable warning Surfaces for sidewalk ramps and accessible route islands. Use any listed on the ODOT QPL.

Unless otherwise noted on the Plans, use cast-in-place installation of truncated dome panel(s) at all ramp locations. When the curb is installed separately from the ramp, the back of the curb shall be formed to provide a straight edge for the truncated dome panel(s) to fit

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snuggly against the back of the curb, eliminating the need for any concrete to be placed between the truncated dome panel(s) and the back of the curb during installation of the truncated dome panel(s).

00759.44 Joining New to Existing Concrete - Replace the sentence that begins "Unless shown or ..." with the following:

Unless shown or directed otherwise, furnish and place maximum 1/2-inch-thick preformed expansion joint filler between new and existing concrete.

All connections to existing concrete curbs and/or concrete sidewalks shall utilize doweled rebar connection between the existing and new construction as indicated in the drawings.

00759.48 Expansion Joints – replace the first bulleted item with the following:

- To be 3/8 inch wide.

00759.48(b) Driveways, Walks, Monolithic Curbs and Sidewalks, and Surfacing - Replace the second and third bulleted items with the following:

- Place on both sides of driveways, curb ramps, at the PC and PT of curves, around utility vaults, drainage inlets, opposite expansion joints in curbs, and at a spacing not to exceed 200 feet.

Add the following bullets:

- Do not provide expansion joints within the curb ramp, and between separate concrete pours on the same project.
- Not more than 1/2 inch wide, except where abutting or underlying concrete joints are larger, then the width shall match those joints.

00759.80 Measurement - Replace this subsection, except for the subsection number and title, with the following:

The quantities of Structures constructed under this Section will be measured according to the following:

- **Volume Basis** - Measurement will be limited to the Neat Lines of the finished Structure as shown or directed.
- **Area Basis** - Measurement will be by the horizontal finished surface, limited to the Neat Lines shown or directed.

Measurement of concrete walks will include the total area of concrete walk at 4-inch nominal thickness, including the area of concrete curb ramps within the footprint of the concrete walk. For concrete walks indicated to be constructed at a depth greater than 4-inch nominal thickness, the area basis will be multiplied on a proportional basis (i.e. 6" nominal thickness walk will be measured at 1.5 times the actual measured area).

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Concrete items may be poured as monolithic curb and sidewalks, but the items will be measured as either concrete walk or concrete curbs, whichever is most appropriate. When concrete curb ramp construction is not adjacent to concrete walk, monolithic curb and sidewalk, or concrete island. Work, the area of the concrete curb ramp Work will be included in the measurement of concrete walks.

- **Length Basis** - Measurement of concrete items will be along the face of the Structure, from end to end including curb tapers or depressed lengths at driveways and ramps. Measurement of metal handrail will be along the top rail member, from center of end post to center of end post. No measurement will be made for doweling.
- **Each Basis** - Measurement will be by actual count. Extra for Curb Ramps will be counted for each instance of where a curb ramp crosses a curb at the transition between a pedestrian facility and a roadway.

00759.90 Payment – Comply with this subsection modified as follows:

Replace the paragraph that begins "In item (a)..." with the following paragraph:

In item (a) the type of curb will be inserted in the blank, if appropriate. Item (a) includes the furnishing and installation of rebar and bonding materials to construct doweled connections to existing concrete curbs as noted on plans or directed by the Engineer.

Replace the paragraph that begins "Items (e) and (f) include..." with the following paragraph:

Items (e) and (f) include the area of new concrete sidewalk ramps within the footprint of the Concrete Walks or Monolithic Curb and Sidewalks. Items (e) and (f) include saw cutting and removing existing concrete walks, curbs, gutters, or ramps, and replacing them with new sidewalk ramps and concrete walks. Items (e) and (f) includes all clearing, grubbing and removal necessary to construct the sidewalk ramps, curbs, gutters and concrete walks. Items (e) and (f) include the furnishing and installation of rebar and bonding materials to construct doweled connections to existing concrete sidewalks and/or driveways as noted on plans or directed by the Engineer. Items (e) and (f) also include replacing, modifying, or installing weep holes in the sidewalk as shown.

SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS

Comply with Section 00850 of the Standard Specifications modified as follows:

00850.45 Installation - Add the following bullets before the bullet that begins "Place material according to...":

- Place material between June 1 and October 1.
- Place material after the installation of traffic signal loop detector systems.

SECTION 00855 – PAVEMENT MARKERS

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Comply with Section 00855 of the Standard Specifications.

SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS – PAINT

Comply with Section 00860 of the Standard Specifications modified as follows.

00860.90 Payment – Add the following to the end of the subsection:

No separate or additional payment will be made for removal of existing longitudinal pavement markings.

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 pay item:

Pay Item	Unit of Measurement
(t) Pavement Legend, Type AB: Storm Inlet Marking	EA

Item (t) includes a Storm Inlet Stencil placed on top of the curb or storm drain collar.

Add the following to the end of the subsection:

No separate or additional payment will be made for removal of existing transverse pavement Markings, legends, bar, etc.

SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications modified as follows:

00905.90 Payment – Add the following to the end of this subsection:

Item (b) includes furnishing and placing new sign supports and OZ-Post ISW-850 anchors, as required.

SECTION 00930 - METAL SIGN SUPPORTS

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

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

No separate or additional payment will be made for furnishing and placing new OZ-Post ISW-850 anchors, as required.

SECTION 00940 - SIGNS

Comply with Section 00940 of the Standard Specifications.

SECTION 00990 - TRAFFIC SIGNALS

Comply with Section 00990 of the Standard Specifications modified as follows:

0990.00 Scope – Replace this subsection, except for the subsection number and title, with the following:

In addition to the requirements of Section 00960 and Section 00962, and Section 02925, install traffic signal loop detectors according to the following Specifications. This work includes removing and reinstalling inductive traffic signal loop detector wiring as necessary to complete the paving work as shown. This work also includes locating, protecting, and rehabilitating existing sand pockets, as needed, and completing new splices to existing loop feeder cables at existing junction boxes where applicable. This work shall be done prior to the installation of permanent pavement markings.

00990.45 Traffic Signal Detection Devices - Add the following, which is not a standard subsection:

(a) Inductive Loop Detectors:

- (1) Saw Cut - Make cuts compatible with construction and in the most practical, direct line between loops and junction boxes, except where parallel to, or nearly parallel to, a lane line; then locate cuts under the lane lines.

Make saw cuts 1/2 inch wide for loop wire.

Saw cuts shall have smooth bottoms, with no edges due to differences in cut depth.

Limit saw cut angles to 90 degrees or less to limit the bend in loop wire. Cuts shall not create islands of pavement less than 2.5 square feet in area.

Flush cuts thoroughly with a high-pressure water stream immediately after sawing, and before the cuttings dry. Protect catch basins from intrusion of slurry materials from saw cuts. Slurry materials are to be retained, recovered, and disposed of off-site. Blow cuts free of water, debris, rock, and grit with high-volume or high-pressure air. Slots may also be cleaned by means of a high-pressure water injection/vacuum extraction system. Remove all cuttings from the Project.

Dry cuts before placing wire. Remove rocks or other material that may be wedged in the cut.

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Two sets of twisted pair loop wires may be installed in a single saw cut, as long as the minimum cover shown is provided and adequate pavement depth is available. The Engineer may limit the allowable saw cut depth and width to avoid damage to the pavement.

On new open-graded AC wearing courses install loops in the base lift, or in the existing surfacing if it is to be overlaid, and after milling has been completed.

In an existing open-graded AC surface, the saw cut and installation shall be as shown.

- (2) Wire - Place a permanent plastic label on each loop feeder cable indicating the loop numbers as shown on the Loop Detector Wiring Diagram. Place labels within 4 inches of the end of the jacket at each end of the loop feeder cables. Remove all existing labels that do not match the Loop Detector Wiring Diagram.

Do not remove the outside jacket and shield of loop feeder cables more than 6 inches from the end, inside the controller cabinet. Solder all loop feeder conductor terminations from field wiring in signal controller cabinets after crimp lugs have been installed. Crimp lugs used for loop wire field terminals may be insulated or non-insulated. Terminate loop feeder shield drain wire to the cabinet input panel grounding bus nearest the feeder wire termination points.

- (3) Installation – All induction loops shall be installed prior to the installation of pavement markings.

The Engineer will mark or approve the center point location of all loops to be installed. Do not place wire in saw cuts until the cuts have been inspected by the Engineer.

After the saw cut is cleaned of debris, place the loop wire by pushing it into the slot with a blunt, nonmetallic object. Use care to avoid damaging the insulation.

Use one continuous, unbroken length of loop wire to form a loop of the number of turns required and to reach the loop feeder cable splice point shown or specified. Twist the loop wire pair together 4 to 6 twists for each foot from the exit point of the loop to the splice point of the loop feeder cable or termination point in the controller cabinet as shown. Use one continuous, unbroken length of loop feeder cable from the loop wire splice point to the cabinet.

After loop wire is placed and before the saw slot is sealed, install loop wire hold-downs (backer rods) made of closed-cell polyurethane. Place 1-inch lengths of the hold-down material along the loop perimeter and all other saw slots containing loop wire 6 inches from loop corners and at maximum 12-inch centers. Hold-downs shall fit snugly in saw slots.

Install the sealant in slots according to the manufacturer's instructions. Furnish a copy of the manufacturer's specifications including application procedures. The Engineer may order a test run of any application method or material before filling saw cuts.

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Sealant shall not protrude above the pavement, nor be more than 1/8 inch below the pavement level after curing. Where cuts are made on a slope and sealant runs or puddles, start at the low end, pour the sealant, and hold it in place with 2-inch duct tape placed on the roadway surface over the cut. If duct tape or other device is used to contain the sealant in the saw cut, remove it on the same day, after the sealant is fully cured.

In order to prevent heat damage to the insulation, do not allow the temperature of the sealant to exceed 410 °F during application. Install hot-melt sealants in layers to prevent damage to wire insulation. Allow each layer to cool before the next layer is installed. Do not use water to accelerate cooling. Do not seal street boxes with sealant that remains soft after setting or cooling.

Sealants that crack or pull away from the saw cuts after curing will be rejected.

- (4) Splice - Splice loop wires to feeder cable in junction boxes. Connect loop wires to loop feeder cable with a screw on silicon grease filled wire connector. Remove 4 inches to 6 inches of feeder cable outer jacket, drain wire and shield. Do not damage the conductor insulation. Offset splices to ensure they do not make contact with each other. Strip feeder and loop conductors back about 1/2 inch. Cover the splice with a two-piece plastic enclosure flooded with silicon grease.
- (5) Resistance Testing - The resistance to ground of the loop and loop feeder combinations, tested with a 500 V wire insulation Megger tester, shall be 500 MΩ or greater when checked both before placing the sealant and after the sealant has set.

Furnish a report identifying the resistance and continuity for each loop:

- Before splicing and sealing - continuity test
- Before splicing and sealing - resistance test
- After splicing and sealing - resistance test

- (6) Loop Sensitivity - Loops shall be sensitive to bicycles. After installation is complete the Engineer will test each loop.

00990.90 Payment - Replace this subsection, except for the subsection number and title, with the following:

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

- (a) Traffic Signal Loop Detector Replacement Each

Item (a) includes all labor, equipment, and materials necessary for the replacement of induction loop detectors which are impacted as part of the paving work. Item includes saw cutting, furnish and installing loop wire between the existing junction box and new loops cuts, splicing wire inside the junction box as necessary, removing and replacing the sand pockets

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as shown, other incidental labor and materials to complete installation and testing to confirm that new loops function properly and incidentals as necessary to complete the work as specified.

No separate or additional payment will be made for removing existing induction loop detectors, excavation, replacement of disturbed earthwork, base, and/or surfacing.

SECTION 01015 – RESTORE TRAFFIC SEPARATORS

Section 01015, which is not a Standard Specification, is included in this Project by Special Provision.

Description

01015.00 Scope - This Work consists of removing existing raised pavement markers, removing existing loose paint, cleaning, preparation, repainting, installing new raise pavement markers, and all other work necessary to restore existing concrete traffic separators.

Materials

Materials shall meet applicable sections of Part 00800.

Construction Requirements

Removal and placement of materials shall meet applicable sections of Part 00800 and manufacturers specifications, whichever is more stringent.

Measurement

1015.80 Measurement – The quantities of traffic separators to be restored will be measured on the unit basis, for each length of concrete traffic separator.

No measurement will be made for individual raised pavement markers, area and/or length of painted surface.

Payment

1015.90 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) Restore Existing Concrete Traffic Separator.....	Each

Payment for item (a) will be payment in full for furnishing all equipment, labor, and incidentals necessary to remove existing raised pavement markers, existing pavement markers adhesive and existing paint as necessary for preparation of new materials, and for furnishing

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all equipment, labor, and incidentals necessary for installation of new paint and raised pavement markers.

SECTION 01020 – ROADSIDE RESTORATION

Section 01020, which is not a Standard Specification, is included in this Project by Special Provision.

Description

01020.00 Scope - This Work consists of all work necessary to restore existing roadside surfacing, including grass, topsoil, and gravel materials in areas between the edge of proposed surfacings and existing gravel, lawn and landscaping areas.

This Work also consist of constructing seeding and topsoil in areas where existing surfacing is to be removed and replaced with grass or mulch or new landscape areas created by the construction of concrete curb and sidewalks as shown on the plans

Materials

Gravel materials shall meet the requirements of Section 00641. Alternatively, the Contractor may submit an alternative gravel material for approval to the Engineer.

Topsoil, mulch, and seed materials shall meet the requirements of Section 01030.

Construction Requirements

Placement of gravel surfacing shall meet the construction requirements of Section 00641.

Placement of topsoil, mulch, and seeding shall meet the construction requirements of Section 01030.

Measurement

1020.80 Measurement - No measurement will be made for the lump sum bid item "Roadside Restoration".

Payment

1020.90 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) Roadside Restoration.....	Lump Sum

Payment for item (a) will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to furnish, place, and grade ballast, gravel, topsoil, mulch, plantings, or other surfacings between existing soft surfacing

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(landscaped) areas and the edge of the proposed surfacings; furnishing and placing topsoil in areas where existing surfacing is shown to be removed and replaced with permanent seeding, topsoil, or mulch and restoring all areas behind the proposed improvement to pre-construction condition.

Payment also includes seeding areas filled or transitioned with topsoil.

SECTION 01040 – PLANTING

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

01040.14 Topsoil - Insert the phrase "to depths shown on drawings or 6-inches minimum" immediately following the words "Furnish topsoil" in the first sentence.

01040.14(b) Imported Topsoil – Add the following at the end of this subsection:

Provide soil amendments in accordance with Section 1040.16.

01040.17 Soil Bio-Amendments - Delete this subsection.

01040.42 Planting Season (East of the Cascades) - Delete this subsection.

01040.44 Select Wetland Topsoil - Delete this subsection.

01040.46 Soil Bio-Amendments - Delete this subsection.

01040.49 General Planting - Replace the bullet that begins "Do not plant in standing..." with the following bullet:

- Do not plant in standing water unless approved by the Agency. If standing water is present, notify the Agency prior to planting to determine what corrective measures are required.

01040.80 Measurement - Replace this subsection except for the section number and title with the following:

All landscaping shall be measured under 01020.

01040.90 (a) Soil Testing – Delete this subsection in its entirety.

01040.90 (b) Topsoil and Wetland Topsoil – Replace this subsection except for the section number and title the following:

Topsoil will not be paid separately and shall be considered incidental.

01040.90 (c) Soil Conditioners – Delete this subsection in its entirety.

01040.90 (f) Mulch – Delete this subsection in its entirety.

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01040.90 (g) Miscellaneous – Delete this subsection in its entirety.