

Payment

00211.90 General – Payment for the job-site field office will be made at the contract lump sum amount for the pay item “Furnish Job-Site Office.” Payment will be full compensation for furnishing, erecting and removing the facility, including all costs associated with the required utility services' hook-ups and disconnects, and for paying monthly utility charges (except telephone).

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

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

00220.02 Public Safety and Mobility - Add the following bullets to the end of the bullet list:

- Do not use the following routes for Contractor vehicle traffic:
 - Washington Street southwest of the intersection with Abernethy Road
 - Main Street southwest of 15th Street.
- Maintain a minimum of 1-way, flagged traffic during allowable lane closure hours specified in 00220.40(e). Do not hold traffic longer than 15 minutes. Inform the held driver of an approximate time the driver will have to wait.
- Maintain and coordinate access to all affected properties. Allow unrestricted vehicle and pedestrian access to all properties outside the allowable working hours.
- Provide and maintain access to garbage containers and garbage pick-up or other regularly scheduled deliveries. Coordinate with school district(s) to minimize impacts and delays for any school bus routes.
- Notify all emergency services of any changes to the traffic control that could impact emergency services' ability to respond, prior to completing the change. Notify Clackamas County Dispatch (C-COM, ph: 503-655-8211) of all lane closures.
- Make no vertical transitions between pavements greater than three inches. When pavement transitions (including transitions at driveways) are less than three inches, provide papered asphalt transition joints, and appropriate signing as directed by the Engineer.
- Allow public traffic pass through the work area, or approved detours, with as little inconvenience and delay as possible. Bicycle and pedestrian lanes and pathways are legal travel lanes and must be treated as such. They shall be free of obstructions with as little delay as possible. Maintain lanes and pathways free of debris to allow safe passage. The minimum travel lane width for a bicycle lane through a work zone area shall be four (4) feet. For temporary bicycle and

pedestrian lanes and pathways, ramps must be used where the elevation difference is greater than 1/2 inch.

- Inform and contact all affected residents and businesses within or adjacent to the Project Site, using written notices approved by the Engineer, 48 hours before each of the following work activities: cold plane pavement removal, digouts, and top lift asphalt concrete paving.
- When performing trench excavation or other excavation across or adjacent to a travel lane on a roadway having a pre-construction posted speed greater than 35 mph, backfill the excavation, install surfacing, and open the roadway to traffic by the end of each work shift. Install a "BUMP" (W8-1-48) sign approximately 100 feet before the backfilled area and a "ROUGH ROAD" (W8-8-48) sign approximately 500 feet ahead of the "BUMP" sign. If this requirement is not met, maintain all necessary lane or shoulder closures and provide additional TCM, including flagging, at no additional cost to the Agency. Do not use temporary steel plating to reopen the roadway.
- Do not place work zone signs or supports that will block existing walkways or existing bikeways.
- When construction equipment is operating in the closed lane, protect traffic using a truck mounted impact attenuator (TMA). Place the TMA in the closed lane in advance of the equipment, located as recommended by the manufacturer and approved by the Engineer. If the TMA is not available when the work requires its use, postpone the work until the TMA is available.
- Delineate all business accesses with blue tubular markers on 10 foot maximum spacing. Mark the access with Type "B" "BUSINESS ACCESS" (CG20-11-24) signs. Locate and install these signs as directed.
- Unrestricted truck access to the truck pump and fuel tank filling area must be maintained at all times except between 9:00pm and 6:00am while the gravel turnaround area for trucks as shown is being constructed.
- Maintain the driveway access to Stein Oil Co. at approximate Sta. "JE" 603+50 until alternate access to the pump and fuel tank filling area is provided by means of a gravel turnaround area for trucks as shown.
- Maintain the gravel turnaround area for trucks at Stein Oil Co. while the driveway at approximate Sta. "JE" 603+50 is closed.
- Before implementing the operation of a modified traffic signal or the installation or removal of a "STOP" sign, protect traffic by installing "Traffic Control Change Ahead" signing according to 00225.02. These signs shall remain in place for approximately 30 calendar days after completion of the modifications to the traffic signal or traffic control device.

- During the four-day closure of OR213, provide continuous 24-hour flagger operation at locations specified in plans, with a minimum of four flaggers. Occupy the advance flagger stations, as directed.
- Pin temporary concrete barrier when the distance behind barrier is limited to less than 3 feet. When pinning barrier, maintain a minimum of 1 foot between the back face of barrier and a drop-off or obstruction. Use the "Pinning Temporary Concrete Barrier" detail shown on the standard drawings.
- Restrain temporary concrete barrier on portland cement concrete surfaces when the distance behind barrier is limited to less than 3 feet. When restraining barrier on portland cement concrete surfaces, maintain a minimum of 1 foot between the back face of barrier and a drop-off or obstruction. Use the "Temporary Concrete Barrier Restraint" detail shown on the standard drawings.
- When paving operations create an abrupt edge, protect traffic by installing a "DO NOT PASS" (R4-1-48) sign before the work area at sign spacing "A" from the TCD Spacing Table" shown on the standard drawings. Alternate "ABRUPT EDGE" (CW21-7-48) signs with appropriate (CW21-8) rider and "DO NOT PASS" (R4-1-48) signs at 1/2 mile spacings. Install a "BUMP" (W8-1-48) sign 100 feet prior to the transverse paving edge.
- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge Detail" and the "Typical Excavation Abrupt Edge Signing Detail" configurations shown on the standard drawings.

00220.40(b) Detours and Stage Construction – Add the following to the end of this subsection:

If directed, implement one or both alternate detour routes [see 00225.05(c)] within 30 minutes of receiving the Engineer's order to do so. Stockpile on-site, ready for immediate use, all materials necessary to establish the detour route(s) within 30 minutes when directed.

00220.40(e) Lane Restrictions - Replace the paragraph that begins "Do not close any..." with the following paragraph:

Do not close any traffic lanes and remove all barricades and objects from the roadway during the following periods:

Replace subsections (1) and (2) with the following:

(1) Weekdays:

East Portland Freeway (I-205):

Southbound

- For single lane closures on I-205 Southbound at OR213 loop exit-ramp:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday

- For lane closures on the OR213 loop exit-ramp from I-205 Southbound:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday

Northbound

- For single lane closures on I-205 Northbound at OR213 exit-ramp:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday

Cascade Highway South (OR213):

Southbound

- For lane closures on OR213 Southbound between I-205 Southbound loop exit-ramp and I-205 Northbound exit-ramp:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday
- For single or two lane closures between I-205 Northbound exit-ramp and Redland Road:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday
- For lane closures between Redland Road and Beavercreek Road:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday

Northbound

- For lane closures on OR213 Northbound between Beavercreek Road and I-205 Northbound on-ramp:
 - Between 5:30 a.m. and 8:00 p.m., Monday through Friday

Pacific Highway East (OR99E) between Main St. and 10th St.:

Southbound

- Between 4:00 p.m. and 6:00 p.m., Monday through Friday

Northbound

- Between 6:00 a.m. and 8:00 a.m. Monday through Friday

Pacific Highway East (OR99E) between 10th St. and Dunes Dr.:

Southbound and Northbound

- Between 5:30 a.m. and 9:00 a.m. and between 3:00 p.m. and 7:00 p.m., Monday through Friday

Washington Street, Clackamas River Drive, Abernethy Road, Redland Road, and Holcomb Blvd.:

- Between 5:30 a.m. and 9:00 a.m. and between 3:00 p.m. and 7:00 p.m., Monday through Friday

(2) Weekends:

East Portland Freeway (I-205):

Southbound

- For single lane closures on I-205 Southbound at OR213 loop exit-ramp:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday
- For lane closures on the OR213 loop exit-ramp from I-205 Southbound:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday

Northbound

- For single lane closures on I-205 Northbound at OR213 exit-ramp:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday

Cascade Highway South (OR213):

Southbound

- For lane closures on OR213 Southbound between I-205 Southbound loop exit-ramp and I-205 Northbound exit-ramp:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday
- For single or two lane closures between I-205 Northbound exit-ramp and Redland Road:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday
- For lane closures between Redland Road and Beaver Creek Road:
 - Between 9:00 a.m. and 8:00 p.m., Saturday
 - Between 10:00 a.m. and 8:00 p.m., Sunday

Northbound

- For lane closures on OR213 Northbound between Beaver Creek Road and I-205 Northbound on-ramp:
 - between 9:00 a.m. and 8:00 p.m., Saturday
 - between 10:00 a.m. and 8:00 p.m., Sunday

Pacific Highway East (OR99E) between Main St. and Dunes Dr.:

Southbound and Northbound

- Between 9:00 a.m. and 7:00 p.m., Saturday
- Between 10:00 a.m. and 7:00 p.m., Sunday

Washington Street, Clackamas River Drive, Abernethy Road, Redland Road, and Holcomb Blvd.:

- Between 9:00 a.m. and 7:00 p.m., Saturday
- Between 10:00 a.m. and 7:00 p.m., Sunday

Add the following subsections:

00220.40(f) Limited Duration Road Closure - The Contractor will be permitted to close all travel lanes on the Cascade Highway South (OR213), Washington Street, Clackamas River Drive, Redland Road, Abernethy Road, and Holcomb Blvd. for periods not to exceed 20 minutes in duration during erection and/or removal of traffic signal mast arms and sign bridges over the travel lanes. This work will only be permitted between the hours of 11:00 p.m. and 5:00 a.m.

Succeeding roadway closures will not be allowed until traffic clears from a preceding closure.

"00220.40(g) Oversize Load Accommodation - Allow over-dimensional vehicles to pass through the work area at all times except as otherwise provided in 00220.42. The useable roadway width on the East Portland Freeway (I-205) shall be a minimum of 22 feet for a single lane and a minimum of 28 feet for two lanes. The useable roadway width on the Cascade Highway South (OR 213) and all ramp connections shall be a minimum of 19 feet for a single lane and a minimum of 28 feet for two lanes.

Remove and replace temporary traffic delineators as required to allow passage of over-dimensional vehicles.

Anticipate over-dimensional vehicles during the following times:

- JANUARY: Between 7:00 a.m. and 5:30 p.m.
- FEBRUARY: Between 6:30 a.m. and 6:30 p.m.
- MARCH: Between 6:30 a.m. and 8:00 p.m.
- APRIL: Between 5:30 a.m. and 8:30 p.m.
- MAY: Between 5:00 a.m. and 9:00 p.m.
- JUNE: Between 5:00 a.m. and 9:30 p.m.
- JULY: Between 5:30 a.m. and 9:30 p.m.
- AUGUST: Between 6:00 a.m. and 9:00 p.m.
- SEPTEMBER: Between 6:30 a.m. and 8:00 p.m.
- OCTOBER: Between 7:00 a.m. and 7:00 p.m.
- NOVEMBER: Between 6:30 a.m. and 5:30 p.m.
- DECEMBER: Between 7:00 a.m. and 5:00 p.m.

00220.41 Bridge Work - Before starting any grading or pavement removal at bridge ends or removal of pavement from bridge decks, arrange so that all equipment, labor, and materials required to complete the pavement replacement work and bridge deck waterproofing work are on hand or are guaranteed to be delivered. Once grading and pavement removal begins, vigorously prosecute and complete this work. Complete paving work in the shortest possible time.

Temporarily taper or bevel longitudinal and transverse grade changes or drop-offs resulting from grading and pavement removal work with asphalt concrete mixture to provide a smooth and safe transition. Construct and maintain a 1V:10H or flatter slope along longitudinal joints. Construct and maintain a 50 feet per 1 inch or flatter taper across transverse joints.

00220.42 Cascade Highway South (OR213) Full Closure - Close the Cascade Highway South (OR213) between I-205 northbound ramps and Washington Street for a single continuous period, occurring on five consecutive days, for the purpose of moving the new bridge onto its permanent foundation. Full closure of the highway will be allowed on any Friday, Saturday and Sunday, plus portions of the contiguous Thursday and Monday as needed, but not exceeding **one hundred four (104) hours**. The standard holiday restrictions of 00220.40(e-3) apply.

Provide 90 Calendar Days' advance notice to the Engineer prior to the date selected for the start of the four-day closure. State in the notification the date, hour and minute chosen for start and conclusion of the full closure period. These dates and times will be used by the Agency to compute liquidated damages according to 00150.85(c), in the event that they are not strictly adhered to by the Contractor.

Attend a pre-closure meeting at a time to be arranged by the Engineer. In addition to Agency personnel, the meeting shall be attended by, at a minimum, the Contractor's Project Superintendent and Traffic Control Supervisor. The purpose of the meeting will be to discuss traffic control during the closure.

Do not close the highway until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure.

The road closure will not be allowed until the area is signed according to the TCP and the requirements of Section 00225.

Add the following subsection:

00220.45 Load Restrictions on Bridges - Limit the combined weight of construction vehicles, equipment, and daily material usage to 65,000 pounds for every 1,000 square feet of surface area plus the weight of long term storage of materials to 25,000 pounds for every 100 square feet of surface area of the bridge or a total of 200,000 pounds for each span of the bridge, whichever is less.

The Contractor may request alternate loadings by submitting, 30 Calendar Days before proposed loadings, stamped loading calculations and data according to 00150.35.

00220.60 Surface Maintenance Responsibilities – Modify this subsection as follows:

(a-1) Contractor Responsibility – Add the following bulleted items to the end of this subsection:

- Keep the surface being used by bicycles and pedestrians free of all dirt, mud, gravel and other harmful materials. The surface includes bike paths, bike lanes, roadway shoulders or the outside 6 feet of the roadway.
- Sweep loose aggregate, soil and other materials on the roadway out of the travel ways at the end of each day. Swept materials shall be removed by broom, or other means to prevent pollution of the storm sewer system or receiving streams.

(b-2) Suspension Due to Other Causes – Replace the last paragraph in this subsection with the following:

Maintenance of the roadway surfaces during the suspension is the responsibility of the Contractor

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

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

00225.00 Scope – Add the following to the end of this subsection:

All traffic control costs, including flagging to complete punch-list items, are the responsibility of the Contractor.

00225.01(b) Definitions – Replace the definition of "Traffic Control Plan" with the following:

Traffic Control Plan (TCP) – A written and drawn plan for providing safe and efficient movement of public pedestrian, bicycle, and vehicular traffic through or around a work zone, while protecting workers, incident responders, and equipment.

00225.02 General Requirements - Add the following after the last paragraph of this subsection:

Install a Type "W8" "PROJECT IDENTIFICATION" (CG20-8-48) sign with a "KEEPING OREGON ON THE MOVE" rider on the Cascade Highway South, according to sign spacing "A" from the "TCD Spacing Table" shown on the standard drawings or as modified by the supplemental drawings, in advance of the "ROAD WORK AHEAD" sign at each end of the Project, facing incoming traffic. The Engineer will determine the sign legend.

On post mounted signs, install a "ROAD WORK AHEAD" (W20-1-48) sign with "FINES DOUBLE" (R2-6-36) rider on the Cascade Highway South, according to the "TCD Spacing Table" shown on the standard drawings or as modified by the supplemental drawings. Also, install beyond each end of the Project, facing outgoing traffic, an "END ROAD