



COMMUNITY DEVELOPMENT AGENCY

TRANSPORTATION DIVISION

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DATE: February 25, 2016

TO: All Prospective Bidders

SUBJECT: Addendum No. 1
Salmon Falls Road South of Glenesk Lane Realignment Project
Contract No. PW 11-30597, Project No. 73362

Submit proposals for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are essential parts of the Contract.

ITEM NO.	LOCATION, PAGE, OR DRAWING NO.	DESCRIPTION OF CHANGE
1.01	SP-57	Bidders' are instructed to replace "Replace item 5 from the list of paragraph 1 in Section 19-9.02 to: 5. Aggregate base (Class II)" on page SP-57 with the following: Replace Section 19-9.02 with: The material used for shoulder backing must be Class 2 AB except that the aggregate must not contain any reclaimed asphalt concrete, PCC, LCB or CTB.
1.02	SP-58	Bidders' are instructed to add the following to Section 26 of the Special Provisions: Add to Section 26-1.04: Shoulder backing is paid for as Class 2 Aggregate Base by the cubic yard.
1.03	SP-58	Bidders' are instructed to replace the comma after gradation in the first sentence of Section 39-1.02E on page SP-58 of the Special Provisions with a period. Bidders' are also instructed to delete the following from Section 39-1.02E on page SP-58 of the Special Provisions: "except HMA thickness of 0.13 foot to 0.20 foot and HMA Dike must comply with ½-inch HMA type A gradation."
1.04	SP-68	Bidders' are instructed to add the following to Section 39 of the Special Provisions: Add between "thick" and "compacted" in the 1st

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		<p>paragraph of section 39-3.04:</p> <p>and minimum 0.15-foot thick</p>
1.05	§12	<p>Bidders' are instructed to modify Section 12 of the Special Provisions as follows:</p> <p>Add after the 3rd paragraph of section 12-3.16A:</p> <p>You may alternately furnish a temporary portable traffic signal system (PTSS) in lieu of the TSS shown on the plans.</p> <p>Add between "TSS" and "including" in the 3rd paragraph of section 12-3.16A:</p> <p>or PTSS</p> <p>Add between "TSS" and "may" in the 4th paragraph of section 12-3.16A:</p> <p>or PTSS</p> <p>Add after the 1st paragraph of section 12-3.16B:</p> <p>The PTSS must operate at nominal 12 V(dc), solar powered.</p> <p>Add to section 12-3.16B:</p> <p>You must perform the timing of the PTSS. The timing must be approved by the Engineer.</p> <p>The initial timing of the PTSS must be performed by a factory authorized representative.</p> <p>The PTSS must be traffic actuated and provide vehicle detection.</p> <p>Replace "TSS" in section 12-3.16C with "TSS or TPSS".</p> <p>Add to section 12-3.16C:</p> <p>Throughout the operation of the PTSS, perform a weekly test of the paging system in the presence of the Engineer.</p> <p>You must override the operations of the PTSS in any case of operational malfunction, in case of excessive traffic backup for either direction or as deemed necessary by the Engineer.</p> <p>Remove the PTSS components from the vicinity of the roadway when not in use.</p>

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		<p>You must keep onsite a log book of maintenance and service during the operation of the PTSS containing information such as date, time, type of failure and necessary repairs made.</p> <p>Add after section 12-3.16G(2):</p> <p>12-3.16G(3) Generator</p> <p>Generators must conform to California Air Emissions requirements and must have an Air Index Information tag visible on the equipment. Generators must comply with the specifications in the following table:</p> <table><tr><td>Engine type</td><td>4-stroke, overhead camshaft, single cylinder</td></tr><tr><td>Displacement (Bore x Stroke)</td><td>6.01 cu-in (98.5 cm³) [2.20 x 1.57 in (56.0 x 40.0 mm)]</td></tr><tr><td>Compression Ration</td><td>8.5:1</td></tr><tr><td>Engine Speed</td><td>4,300 – 5,000 rpm</td></tr><tr><td>AC Output</td><td>Rated voltage: 120 V Rated frequency: 60 Hz Rated current: 13.3 A Rates output: 1,600 VA Maximum output: 2,000 VA</td></tr><tr><td>DC Output</td><td>Only for charging 12V automotive batteries. Maximum charging output = 8A</td></tr><tr><td>Fuel Storage</td><td>10 hours of continuous run time</td></tr></table> <p>Generators must be housed in an enclosure with lockdown coupler for mounting on the PTSS module.</p> <p>12-3.16G(3)(a) Generator Operation</p> <p>A generator must be provided as backup to the solar power for the PTSS. The generator unit must be capable of starting when the low voltage setting is detected under full load. The generator must operate until the batteries under full load are fully charged.</p> <p>Replace section 12-3.16K with:</p> <p>12-3.16K Temporary Portable Traffic Signal System The PTSS must conform to the National Electrical Manufactures Association (NEMA) TS5 performance</p>	Engine type	4-stroke, overhead camshaft, single cylinder	Displacement (Bore x Stroke)	6.01 cu-in (98.5 cm ³) [2.20 x 1.57 in (56.0 x 40.0 mm)]	Compression Ration	8.5:1	Engine Speed	4,300 – 5,000 rpm	AC Output	Rated voltage: 120 V Rated frequency: 60 Hz Rated current: 13.3 A Rates output: 1,600 VA Maximum output: 2,000 VA	DC Output	Only for charging 12V automotive batteries. Maximum charging output = 8A	Fuel Storage	10 hours of continuous run time
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		<p>standards, AASHTO 90 mph wind load requirement, and must have the following features:</p> <ol style="list-style-type: none"> 1. Conflict monitoring 2. Emergency vehicle pre-emption system 3. The option to have video, radar, and in-ground loop actuation ready 4. Data logger that records signal functions 5. Secure, reliable, long range wireless communication system 6. Remote monitoring system 7. Emergency alert system to notify key personnel and emergency personnel 8. Heavy duty electro hydraulic lift system 9. Heavy duty structural steel mast arm 10. Signal heads rotate 180 degrees 11. Year round operation regardless of location or climate 12. Controls multiple traffic phases 13. 440 watts of solar collection capacity 14. Option for manual control of signals 15. Equipped with batteries sufficient for 15 day autonomous run time 16. Ability for full operation without direct line of sight of PTSS for a minimum of ¼ mile range <p>The PTSS must be equipped with a mounted, changeable message board measuring at least 18"x28" displaying the remaining wait time in minutes/seconds during red/yellow signal display and a "Slow Work Zone" message during green signal display.</p> <p>The PTSS must include a driveway assistance device facing Glenesk Lane. The device must communicate with the primary PTSS units and include a 12-inch red indication and two flashing arrows permitting one-way access in the direction of the flashing arrow. The driveway assistance device must be equipped with a solar-charging system.</p> <p>Provide a factory authorized representative to train Traffic Operations and Electrical Maintenance personnel, on the job site, on the operation of the PTSS. Provide operations training manuals for each trainee.</p> <p>All moving or rotating parts must be safely connected with provisions for interlocking safety devices.</p> <p>Provide the Engineer with a 24 hour emergency contact person knowledgeable on the system.</p>

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		<p>PTSS units must be placed on firm level ground.</p> <p>12-3.16K(1) Signal Head PTSS signal heads must be 3-section indications with 12-inch circular sections with visors and louvered backplates and must be provided with LED modules (minimum 2-signal heads per approach, per phase). One signal head for each approach must be mounted on a mast arm. The connected signal heads on the mast arm must provide a minimum of 15 feet of clearance between the lowest point of the signal heads and the final grade. Side mounted signal heads must be mounted a minimum of 10 feet above the roadway. The signal heads must have the ability to be rotated with a locking device for maximum visibility to traveling vehicles. A red status indication light shall be provided at the back of the connected mast arm signal head.</p> <p>Each signal face must be oriented to be clearly visible to traffic approaching from the direction which the signal is intended to control.</p> <p>12-3.16K(2) Signal Detection and Equipment The PTSS effective detection zone must be from the limit line to 200 feet in advance of the limit line as vehicles approach. The vehicle detection equipment must be loops, video or radar. The sensor units must be capable of detecting vehicles stopped at the limit line and all approaching vehicles. Vehicle detection must call service to a phase (direction of vehicle traffic) only when there is a demand and extend the green interval to a phase until there is no longer demand or until the flow rates have reduced to levels for phase termination. The system must accurately detect the presence of vehicles within the detection zone.</p> <p>The PTSS must be equipped with a clearance time extension system which detects traffic and automatically adjusts green signal indication durations until the work zone has been safely cleared.</p> <p>The PTSS must provide successful and continuous communication between portable signals at each approach.</p> <p>Any break, power interruption, malfunction, low battery status, burned out LEDs, lost communication between portable signals, out of sync communication between the master and the slave or two conflicting greens displayed must immediately cause the signal to</p>

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		<p>automatically default to all solid red displays. In any event the PTSS malfunctions, the Engineer must be contacted immediately and made aware of the problem encountered.</p> <p>Add after section 12-3.16K:</p> <p>12-3.16L Payment Payment for furnishing, installing, maintaining, and removing all components of the TSS or PTSS is included in the payment for temporary signal system.</p> <p>Add after the 1st paragraph of section 12-3.17A:</p> <p>You may alternately furnish a temporary portable flashing beacon system (TPFBS) in lieu of the TFB shown on the plans. The TPFBS indication must consist of a wood pole, mounted flashing beacon, sign panel, solar panel(s), and battery.</p> <p>Replace the 3rd paragraph of section 12-3.17A with:</p> <p>Install the TFB or TPFBS as shown in the plans.</p> <p>Add after the 1st paragraph of section 12-3.17B:</p> <p>The TPFBS must operate at nominal 12 V(dc), solar powered. The TPFBS beacon indication must be a 12-inch circular section with a yellow LED assembly source (20 W nominal) with visors and backplates.</p> <p>Add after the 4th paragraph of section 12-3.17H:</p> <p>The TPFBS must be solar powered.</p> <p>Replace “TFB” in section 12-3.17I with “TFB or TPFBS”.</p>

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

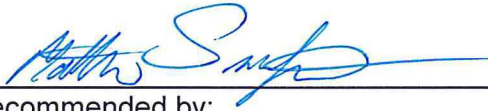
Holders who have already mailed their proposal can contact Jennifer Rimoldi at 530-621-7592 (email: Jennifer.Rimoldi@edcgov.us) to arrange return of their proposal.

Inform all suppliers and subcontractors as necessary.

The Community Development Agency, Transportation Division is only sending this addendum by posting on QuestCDN's website at: <https://www.questcdn.com/>.

If you are not a Contract Documents Holder, but request a set of documents to bid on this project, you must comply with the requirements of this addendum when submitting your bid.

End of Addendum No. 1



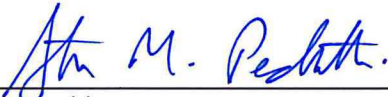
Recommended by:
Matt Smeltzer
Deputy Director, Fairlane Engineering Unit

2/25/16
Date



Recommended by:
Bard R. Lower
Transportation Division Director

2/25/16
Date



Approved by:
Steven M. Pedretti
Community Development Agency Director

2/25/16
Date