ADDENDUM NUMBER TWO

FOR THE

URBAN GREENING PATHWAYS PROJECT

City capital project # 1902

July 27, 2020

City of Arvin
200 Campus Drive
Arvin, CA  93203
ADDENDUM No. 2

The following additions, deletions, or modifications shall become part of the Contract Documents for this Project:

REVISIONS TO BID PACKAGE:
1. PROPOSAL CHECKLIST: Please note that Caltrans Exhibit 15-H is not specifically due with the bids. This item must be submitted within 5 calendar days from the due date of the bid per the instructions on the form.

REVISIONS TO SPECIFICATIONS:
No modifications to the specifications are a part of this addendum.

REVISIONS TO DRAWINGS:
No modifications to the construction drawings are a part of this addendum.

CONTRACTOR QUESTIONS:
The following questions (requests for interpretation) have been provided in writing by interested contractors. Such questions may have been edited for clarification purposes only. In some cases, multiple contractors may have asked the same question in which case the questions have been combined such that only one response is necessary. The response to these questions should not be construed as a formal modification to the plans or specifications (bid documents). They are intended to clarify information contained therein only to aide each contractor in developing their bid for the project.

Q1: Please clarify the source of water at irrigation system POC, it's not clear that new irrigation system will be connected to the reclaimed source of water or potable. If it's a reclaim system, then please provide a guide line for the irrigation materials.

A1: Drawing L2 shows a new point of connection within the bus turnout adjacent to the project site. The note for the P.O.C. directs the contractor to “FIELD VERIFY LOCATION”.

For clarification, there will not be a new connection to the municipal water system with a new water meter and necessary coordination with the Arvin Community Services District. The intent is for the new irrigation system to tie into the existing irrigation system for the palm tree wells adjacent to the project site. The P.O.C. for that system is located within the sidewalk approximately 130 feet north of the intersection of Walnut Street and Aldarete Drive (see attached images and as-built plan excerpt). A 1 ½” PVC water line exists underneath the sidewalk for the length of the project site.

The contractor shall connect to the existing system at or near the P.O.C. for the palm tree system or may also connect directly adjacent to the park. In either case, the contractor shall factor in the total length of pipeline, and necessary sidewalk removal and replacement (if any) into their line item price for bid item 14 (Landscape Irrigation System).
Q2: Please provide a complete irrigation controller assembly number.
A2: Rain Bird ESP-12LXME/F controller with 1) ESPLXMSM12 & 1) ESPLXMSM4 station expansion module(s) for a total of 28 stations. Install IQ-NCC-GP cell cartridge along with controller.

Q3: Please confirm the size and model for irrigation flow sensor as there is a conflict between the model and size on the legend and the model and size shown on the detail for this item.
A3: Rain Bird FS200B flow sensor. Master valve shall be Rain Bird MOD.# 200PESB-PRS-D.

Q4: Please provide a size for irrigation mainline.
A4: 2” SCH. 40 mainline

Q5: Please provide a detail for irrigation backflow preventor and ball valves.
A5: See attached manufacturers backflow install guide and detail.

Q6: Please provide a on center spacing for irrigation drip lines.
A6: Dripline(s) to be spaced @ 24” o.c.

Q7: Per sheet C2, note no.18, all cut and fill slopes greater than 3’ high shall be hydroseeded. Please provide a seed mix as it’s not shown.
A7: See the attached mix. The contractor is free to submit an alternative mix, subject to approval by the Engineer. The intent is to install hydroseed in each of the bioswales including the bottoms of those bioswales.

Q8: What is the thickness of the Permeable asphalt?
A8: The permeable AC shall be 2 inches thick.

Q9: What is the gradation requirement for the 8” thick clean washed stone section? There is a grading for the 2” choker course but not the 8” course.
A9: No gradation is available for this layer. In general the the contractor is asked to communicate with it’s materials supplier(s) to provide a material that is open graded with little or no fines in it to achieve approximately a 40% air void within this layer.

Q10: Type B LED Pole Light – They don’t specify the height of the pole. The options are 12’, 15’ or 18’. Which height should we bid?
A10: The poles shall be 18’ tall.
Q11: They have a detail for the Type B pole light bases, but not for the Type A & C Bollards. We’re assuming they’ll need some sort of base but not as deep as the pole lights. What are the requirements for the path light and bollard bases?

A11: The contractor should check with the manufacturers of the in ground and bollard lights for base requirements. In general, the bases shall be made of concrete, and shall be of a sufficient depth as recommended by the manufacturer, and shall also be of a diameter to allow for the embedment of all necessary anchor bolts.

Q12: Who is responsible for compaction testing for the earthwork?

A12: As shown in the specifications, the contractor shall be responsible for it’s own quality control which may include hiring it’s own materials and soils testing consultant. However, the City will also provide it’s own consultant that will check earthwork compaction throughout the project that will report progress and non-compliance to the contractor, as necessary.

Q13: Who is responsible for concrete testing?

A13: As shown in the specifications, the contractor shall be responsible for it’s own quality control which may include hiring it’s own materials and soils testing consultant. However, the City will also provide it’s own consultant that will check concrete work throughout the project that will report progress and non-compliance to the contractor, as necessary.

Q14: There is no detail for the wind fence (WE-1) shown on plan page C6. Can you provide us with a detail?

A14: No detail is available, and shall be developed to meet what is generally acceptable by the San Joaquin Valley Air Pollution Control District, if required for the Dust Control Plan. The City of Arvin will not require that a wind screen fence to be placed, but will retain it’s rights to require mitigation measures if dust generation from the job site is observed to be an issue by the City Engineer.

Q15: Are you requiring the DBE Good Faith Effort (Exhibit 15H) with the bid proposal or can it be submitted within 5 calendar days per the Exhibit instructions?

A15: No; see the “REVISIONS TO BID PACKAGE” for a full response.

NOTE: As outlined in the bid documents, any bid must include the “ADDENDUM ACKNOWLEDGEMENT FORM” and must show that this addendum was received prior to submitting a bid. Failure to do so may result in a bid being determined to be non-responsive, and subject to disqualification.

Approved by: Adam Ojeda, P.E.  7/27/20
City Engineer  Date
Application
Ideal for use where Lead-Free* valves are required. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

Standards Compliance
- ASSE® Listed 1013
- IAPMO® Listed
- CSA® Certified B64.4
- AWWA Compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- Meets the requirements of NSF/ANSI 61* *(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)
- UL® Classified (less shut-off valves or with OS&Y valves)
- C-UL® Classified

Materials
- Main valve body: Low Lead Cast Bronze ASTM B 584
- Access covers: Low Lead Cast Bronze ASTM B 584
- Fasteners: Stainless Steel, 300 Series
- Elastomers: Silicone (FDA Approved)
- Buna Nitrile (FDA Approved)
- Polymers: Noryl™
- Springs: Stainless Steel, 300 series
- Ball valve handles: Stainless Steel

Features
- Sizes: 3/4", 1", 1-1/4", 1-1/2", 2"
- Maximum working water pressure: 175 PSI
- Maximum working water temperature: 180°F
- Hydrostatic test pressure: 350 PSI
- End connections: Threaded ANSI B1.20.1

Relief Valve discharge port:
- 3/4" - 1" - 0.63 sq. in.
- 1 1/4" - 2" - 1.19 sq. in.

Dimensions & Weights (do not include pkg.)

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>DIMENSIONS (approximate)</th>
<th>WITH BALL VALVES</th>
</tr>
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<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
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<tr>
<td>3/4</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td>1</td>
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<td>13</td>
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<tr>
<td>1 1/4</td>
<td>32</td>
<td>17</td>
</tr>
<tr>
<td>1 1/2</td>
<td>40</td>
<td>17 3/8</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>18 1/2</td>
</tr>
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</table>

Options
(Suffixes can be combined)
- □ - with full port QT ball valves (standard)
- □ S - with bronze “Y” type strainer
- □ FT - with integral male 45° flare SAE test fitting
- □ TCU - with test cocks up
- □ SE - with street elbows (3/4" & 1")
- □ U - with union ball valves

Accessories
- □ Air gap (Model AG)
- □ Repair kits (rubber only)
- □ Thermal expansion tank (Mdl. XT)
- □ Soft seated check valve (Model 40XL2)
- □ Shock arrester (Model 1260XL)
- □ QT-SET Quick Test Fitting Set
- □ Ball valve handle locks
- □ Test Cock Lock (Model TCL24)

Zurn Industries, LLC | Wilkins
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In Canada | Zurn Industries Limited
7900 Gowerway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. H
Date: 12/19
Document No. BF-975XL2(LG)
Product No. Model 975XL2(LG)
Typical Installation
Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Specifications
The Reduced Pressure Principle Backflow Preventer shall be certified to NSF/ANSI 61 shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be low lead bronze (ASTM B 584), the seat ring and all internal polymers shall be Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter and integral monitor switch. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 975XL2.
BIOSWALE TEMPORARY or NON IRRIGATED MIX

This composition of native California grasses with a flowering component will formulate a very effective, filtering, functional bioswale when planted into drainage basins, bioswales and other open areas that are on occasion inundated with water for a very short term basis.

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>COMMON NAME</th>
<th>BULK #'/ACRE</th>
<th>MIN % PLS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrostis exarata</td>
<td>Spike bentgrass</td>
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<tr>
<td>Anemopsis californica</td>
<td>Yerba mansa</td>
<td>1.00</td>
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<tr>
<td>Deschampsia danthoniodes</td>
<td>Annual hairgrass</td>
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</tr>
<tr>
<td>Elymus triticoides ‘Rio’</td>
<td>Rio creeping wild rye</td>
<td>5.00</td>
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<tr>
<td>Eschscholzia californica</td>
<td>California poppy</td>
<td>1.00</td>
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<tr>
<td>Hordeum brachyantherum</td>
<td>Meadow barley</td>
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</tr>
<tr>
<td>Hordeum intercedens</td>
<td>Little barley</td>
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<tr>
<td>Lasthenia glabrata</td>
<td>Goldfields</td>
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<tr>
<td>Melica imperfecta</td>
<td>Coast melic</td>
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<tr>
<td>Muhlenbergia rigens</td>
<td>Deergrass</td>
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<tr>
<td>Plantago insularis</td>
<td>Plantain</td>
<td>20.00</td>
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<tr>
<td>Sisyrinchium bellum</td>
<td>Blue eyed grass</td>
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<tr>
<td>Stipa pulchra</td>
<td>Purple needle grass</td>
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<tr>
<td></td>
<td></td>
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</tbody>
</table>

* MIN % PLS (Pure Live Seed) = Seed Purity x Germination Rate

Seeding rate: 49.00 lbs per acre
Height: 12-36 inches
Emergence: 10-21 days
Establishment: 55 days to 80% cover after emergence

For additional plant characteristics visit the plant database portion of our website at [www.ssseeds.com](http://www.ssseeds.com).