



CITY OF ORANGE

PUBLIC WORKS DEPARTMENT

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Addendum No. 1

Date: January 29, 2024

To: All Bidders

Subject: **Bid No. 23-24.25; W-722; Annual Pipeline Renewal Project**

The following clarifications and changes have been made to the proposal. The bid due date remains February 1.

1. In reference to sheet 8 of the bid plans, please provide an elevation profile for the 10-inch pipe installation and connection.

Response: water main is typically installed with 42-inch cover; however, as it's indicated on the plan, it's the contractor responsibility to pothole and verify exact size, location, depth, and material of existing water main prior to making the necessary connection.

2. In reference to sheet 11, Is contractor to install a 1.5" water service at station 61+27 and 2" water service at station 63+53? Bid item 10 and 11 do not include 1.5" and 2" water services.

Response: add additional construction notes for these 2 services in the Construction Plans and see updated bid schedule attached.

- a. CN 33/BID ITEM 21 - INSTALL NEW 1.5" WATER SERVICE AND CONNECT TO PROPOSED WATER MAIN PER CITY OF ORANGE STD. PLAN OWD-201 & OWD-204. REMOVE AND REPLACE EXISTING METERS & METER BOXES PER OWD-212 & OWD-213. RETURN EXISTING METERS TO OWD. ABANDON EXISTING SERVICE AT CORP STOP/MAIN.
 - b. CN 34/BID ITEM 22 - INSTALL NEW 2" WATER SERVICE AND CONNECT TO PROPOSED WATER MAIN PER CITY OF ORANGE STD. PLAN OWD-201 & OWD-205. REMOVE AND REPLACE EXISTING METERS & METER BOXES PER OWD-212 & OWD-213. RETURN EXISTING METERS TO OWD. ABANDON EXISTING SERVICE AT CORP STOP/MAIN.
3. In reference to Special Provision-28 note J, please clarify if contractor is to add the sewer replacement scope of work at the referenced streets Center Street and Almond Ave.

Response: please dismiss Note J as it's not applicable to this project, however, bidders are directed to Section 6-1.3 for project scheduling requirements.

4. Slurry seal trench areas to match existing AC is mentioned in bid items 2 thru 6, however for asphalt restoration only a 2" AC overlay is mentioned for bid item 17. Is contractor to slurry seal any areas of work?

Response: slurry seal is not required for this project as existing streets were not recently slurry sealed.

5. There are a total of 4 existing traffic speed humps along Heim Ave. Please advise if they are to be removed completely or should they be restored?

Response: speed humps shall be removed and replaced in their entirety per bid item 23 and revised special provisions in the attached.

6. Construction Note 20 as shown through the Construction Plans is modified as follows:

INSTALL NEW 3/4" WATER SERVICE AND CONNECT TO PROPOSED WATER MAIN PER CITY OF ORANGE STD. PLAN OWD-201 & **OWD-202**. REMOVE AND REPLACE EXISTING METERS & METER BOXES PER OWD-212 & OWD-213. RETURN EXISTING METERS TO **OWD**. ABANDON EXISTING SERVICE AT CORP STOP/MAIN.

7. Construction Note 21 as shown through the Construction Plans is modified as follows:

INSTALL NEW 1" WATER SERVICE AND CONNECT TO PROPOSED WATER MAIN PER CITY OF ORANGE STD. PLAN **OWD-201 & OWD-203**. REMOVE AND REPLACE EXISTING METERS & METER BOXES PER OWD-212 & OWD-213. RETURN EXISTING METERS TO OWD. ABANDON EXISTING SERVICE AT CORP STOP/MAIN.

Bidder shall signify the receipt of this addendum with signature on page **P-10** of the project's bid proposal. Please contact Chris Mielke for any questions regarding this addendum at cmielke@cityoforange.org or call at (714) 744-5527.



Chris Mielke, P.E.
Associate Civil Engineer
Public Works Department – Water Division

Cc: Sonny Tran, Tuan Cao

PROPOSAL SCHEDULE
Annual Pipeline Renewal Project
(Bid No. 23-24.25; W-722)

ITEM NO.	QUANTITY	UNIT PRICE TO BE WRITTEN IN WORDS	UNIT PRICE	TOTAL
7	<u>12 EA</u>	Furnish all labor, material and equipment necessary for the removal of existing fire hydrant assembly, including abandonment of lateral valve, removing hydrant bury, concrete collar and return fire hydrant to OWD, trenching, AC removal and replacement per City Standard Plan No. 125, curb and gutter removal and replacement, for the unit price of: _____ dollars and _____ cents	_____	_____
8	<u>15 EA</u>	Furnish all labor, material and equipment to install new fire hydrant assembly per City Standard OWD-102, OWD-102 and OWD-103, to include fire hydrant, tee, valve, valve box, 6" lateral, bury, slurry backfill, thrust blocking, joint restraints, fittings, polyethylene wrapping, trenching, copper tracer wire, AC removal and replacement per City Standard Plan No. 125, curb and gutter removal and replacement, red curb paint, concrete pad per City Standard Drawing OWD-102 & OWD-102, for the unit price of: _____ dollars and _____ cents	_____	_____
9	<u>2 EA</u>	Furnish all labor, material and equipment to install air-vac assembly as needed per City Standard Drawing OWD-302, including fittings, copper tubing, and other appurtenances, complete and operative in place, for the unit price of: _____ dollars and _____ cents	_____	_____
<div style="border: 1px solid black; display: inline-block; padding: 2px;">ADD-1</div> 10	<u>109 EA</u>	Furnish all labor, material and equipment to abandon existing service and install new 3/4" service including abandoning existing service at main, removal of existing meter (and installation of new radio read meter, removal of existing meter box and installation of new meter box with new AMR/AMI top mount lid, connection to new water main per City Standard Drawing OWD-201, OWD-202 , OWD-212 and OWD-213, inclusive of trenching, AC removal and replacement per City Standard Plan No. 125, for the unit price of:		

PROPOSAL SCHEDULE
Annual Pipeline Renewal Project
(Bid No. 23-24.25; W-722)

ITEM NO.	QUANTITY	UNIT PRICE TO BE WRITTEN IN WORDS	UNIT PRICE	TOTAL
		_____ dollars and _____ cents	_____	_____
ADD-1	11 <u>51 EA</u>	Furnish all labor, material and equipment to abandon existing service and install new 1" service including abandoning existing service at main, removal of existing meter (and installation of new radio read meter, removal of existing meter box and installation of new meter box with new AMR/AMI top mount lid, connection to new water main per City Standard Drawing OWD-201, OWD-203 , OWD-212 and OWD-213, inclusive of trenching, AC removal and replacement per City Standard Plan No. 125, for the unit price of: _____ dollars and _____ cents	_____	_____
12	<u>9 EA</u>	Furnish all labor, material and equipment to install 6" gate valve and valve box per City Standard Drawing OWD-108 and OWD-101, to include valve, valve box, thrust blocking, concrete collars, fittings, joint restraints, and other appurtenances, for the unit price of: _____ dollars and _____ cents	_____	_____
13	<u>33 EA</u>	Furnish all labor, material and equipment to install 8" gate valve and valve box per City Standard Drawing OWD-108 and OWD-101, to include valve, valve box, thrust blocking, concrete collars, fittings, joint restraints, and other appurtenances, for the unit price of: _____ dollars and _____ cents	_____	_____
14	<u>2 EA</u>	Furnish all labor, material and equipment to install 10" gate valve and valve box per City Standard Drawing OWD-108 and OWD-101, to include valve, valve box, thrust blocking, concrete collars, fittings, joint restraints, and other appurtenances, for the unit price of: _____ dollars and _____ cents	_____	_____

PROPOSAL SCHEDULE
Annual Pipeline Renewal Project
(Bid No. 23-24.25; W-722)

ITEM NO.	QUANTITY	UNIT PRICE TO BE WRITTEN IN WORDS	UNIT PRICE	TOTAL
ADD-1 21	1 EA	Furnish all labor, material and equipment to abandon existing service and install new 1.5" service including abandoning existing service at main, removal of existing meter (and installation of new radio read meter, removal of existing meter box and installation of new meter box with new AMR/AMI top mount lid, connection to new water main per City Standard Drawing OWD-201, OWD-204, OWD-212 and OWD-213, inclusive of trenching, AC removal and replacement per City Standard Plan No. 125, for the unit price of: _____ dollars and _____ cents	_____	_____
ADD-1 22	1 EA	Furnish all labor, material and equipment to abandon existing service and install new 2" service including abandoning existing service at main, removal of existing meter (and installation of new radio read meter, removal of existing meter box and installation of new meter box with new AMR/AMI top mount lid, connection to new water main per City Standard Drawing OWD-201, OWD-205, OWD-212 and OWD-213, inclusive of trenching, AC removal and replacement per City Standard Plan No. 125, for the unit price of: _____ dollars and _____ cents	_____	_____
ADD-1 23	4 EA	Remove and reconstruct asphalt speed hump per City detail, complete in place, for the unit price of: _____ dollars and _____ cents	_____	_____
TOTAL BID AMOUNT				_____

TOTAL BID AMOUNT WRITTEN IN WORDS:

LEGEND OF UNITS

LS = lump sum EA= each LF = lineal feet SF = square feet TON=ton

- b. Minimum of 6” of Hot Mix Asphalt Concrete (AC), consisting of a minimum of 2” thick hot mix surface course asphalt concrete over a minimum of 4” thick hot mix base course asphalt concrete over compacted backfill.
 2. On arterial streets, the structural section will be reconstructed with 12” of Hot Mix Asphalt Concrete (AC) over compacted backfill as described below. If applicable, existing underlay concrete pavement within the water trench shall be removed.
 - a. A minimum of 10” thick of hot mix base asphalt concrete shall be spread and compacted in layers not to exceed 6 inches in compacted thickness per Section 302-5.8.
 - b. A minimum of 2” thick of hot mix surface course asphalt concrete overlay per City of Orange Std. 125 to complete resurfacing.
- E. Portland Cement Concrete Replacement
 1. On local streets, the roadway structural section will be reconstructed with 10” High Early Strength Portland Cement Concrete (PCC) over compacted backfill as described below.
 - a. A minimum of 10” thick Portland Concrete Cement
 - b. Weakened plane joints shall be provided at 10 feet on center
 - c. Transvers expansion joints shall be provided to match existing expansion joint locations
 2. The structural section of concrete pavement to be reconstructed shall match existing as described in Section 201-1.1.2. The new concrete pavement shall include dowel #4 steel bars into existing concrete pavement edges 6” deep at 24” on center with minimum 1½” clearance from top of pavement surface. Dowels shall be epoxied into existing slab and cast into new slab.
 3. On concrete pavement streets, removal of existing concrete pavement within the water trench shall be 4’ wide and as directed by the Engineer.
- G. Water Trench Repair
 - a. Water trench repair shall be constructed per City of Orange Std. 125
 - b. Any transverse trenches, defined as trenches perpendicular to the direction for vehicle flow, and all trenches in intersections, beginning from begin of curb return (BCR) to end of curb return (ECR), shall be backfilled with 150-E-100 concrete slurry per the Standard Specifications for Public Works Construction, Table 201-1.1.2, Trench Backfill Slurry, modified herein.
- H. Traffic Striping, Raised Pavement Markers and Pavement Legends
 1. The Contractor shall be responsible for the installation of all permanent traffic signing and striping, pavement markings and raised pavement markers removed or covered by this project. The Contractor is required to verify and inventory all existing traffic striping prior to any street removals. **All traffic signing and striping, pavement markings and pavement markers shall be reinstalled in kind and/or per the latest Caltrans Traffic Manual or MUTCD** to the existing lane line dimensions and configurations. No additional compensation shall be allowed. Any changes to the existing layout shall be approved by the City Traffic Engineer.
 2. Any improperly installed traffic striping markings and markers shall be removed and reinstalled by the Contractor at the Contractors expense.
- I. Construction shall be phased in a manner as to maintain one, eleven foot traffic lane open in each direction for all project sites.
- J. ~~First order of work shall be sewer replacement on Center Street and sewer replacement on Almond Avenue.~~
- K. **The City of Orange reserves the right to make any changes to the removal and reconstruction of water pipeline, on any street(s) and local area(s), as desired. All work shall be performed, measured, and paid at the contract bid unit price in the proposal. No additional compensation will be allowed for decrease or increase in quantities for any items of work due to the said changes.**

ADD-1

Item 7 – Furnish all labor, material and equipment necessary for the removal of existing fire hydrant assembly, including abandonment of lateral valve, removing hydrant bury, concrete collar and return fire hydrant to OWD, trenching, AC removal and replacement per City Standard Plan No. 125, curb and gutter removal and replacement. Payment for this item shall be made at the unit bid price per hydrant removed.

Item 8 – Furnish all labor, material and equipment to install new fire hydrant assembly per City Standard OWD-102 and OWD-103, to include fire hydrant, tee, valve, valve box, 6” lateral, bury, slurry backfill, thrust blocking, joint restraints, fittings, polyethylene wrapping, trenching, copper tracer wire, AC removal and replacement per City Standard Plan No. 125, curb and gutter removal and replacement, red curb paint, concrete pad per City Standard Drawing OWD-102. Payment for this item shall be made at the unit bid price per hydrant installed.

Item 9 – Furnish all labor, material and equipment to install air-vac assembly as needed per City Standard Drawing OWD-302, including fittings, copper tubing, and other appurtenances, complete and operative in place. Location of air-vac assembly shall be determined by Engineer or City Inspector. Payment for this item shall be made at the unit bid price per air-vac assembly installed.

ADD-1 **Items 10, 11, 21 & 22** – Furnish all labor, material and equipment to abandon existing service and install new 3/4”, 1”, 1.5” & 2” service including abandoning existing service at main, removal of existing meter (and installation of new radio read meter, removal of existing meter box and installation of new meter box with new AMR/AMI top mount lid, connection to new water main per City Standard Drawing OWD-201, **OWD-202, OWD-203, OWD-204, OWD-205**, OWD-107, OWD-208, OWD-212 and OWD-213, inclusive of trenching, AC removal and replacement per City Standard Plan No. 125. Payment for this item shall be made at the unit bid price per service removed and replaced.

Items 12 - 15– Furnish all labor, material and equipment to install 6” to 12” gate valve and valve box per City Standard Drawing OWD-108 and OWD-101, to include valve, valve box, thrust blocking, concrete collars, fittings, joint restraints, and other appurtenances. Payment for this item shall be made at the unit bid price per valve installed.

Item 16 – Furnish all labor, material and equipment to remove and replace existing concrete cross-gutter to the nearest joint in kind and per City Standard Plan No. 119. Payment for this item shall be made at the unit bid price per square foot.

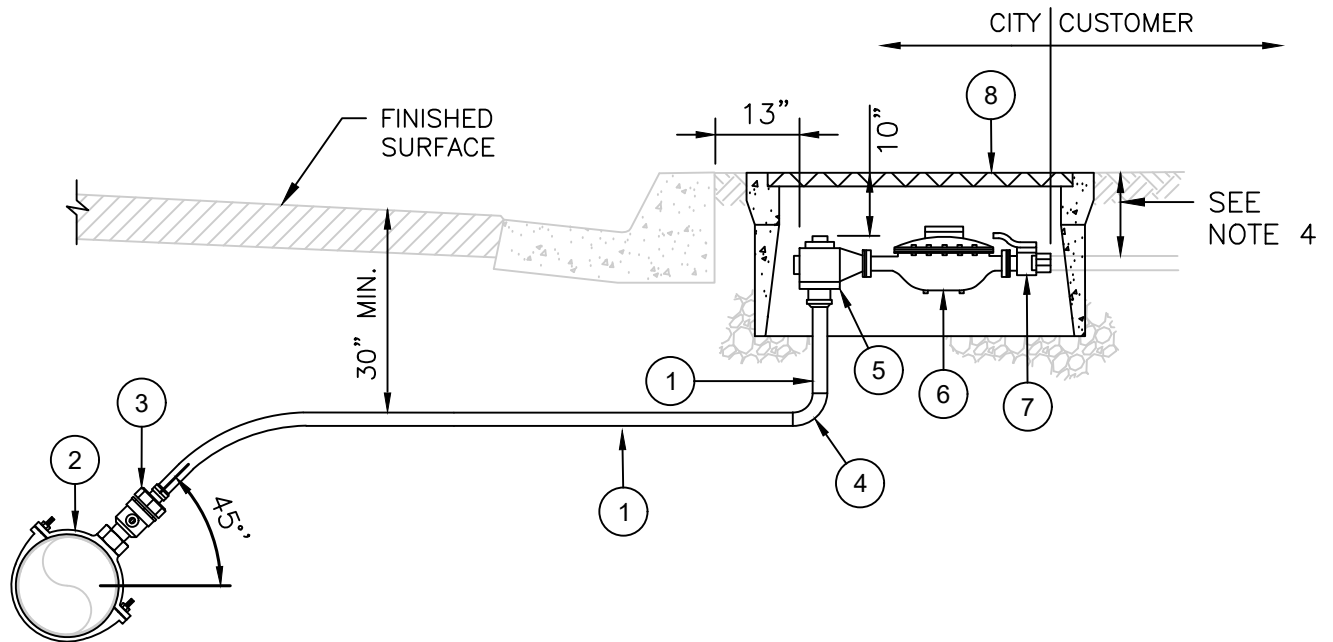
Item 17 – Furnish all labor, material and equipment for placement of permanent asphalt surface course inclusive of 2” minimum new AC overlay per City Standard Plan No. 125. Permanent asphalt surface course limits shall extend from gutter to centerline of street or as directed by City Project Manager/Inspector. Payment for this item shall be made at the unit bid price per ton of surface course.

Item 18 – Furnish all labor, material, permits and equipment for preparing Traffic Control Plan with detour routing per City of Orange requirements, including inventory of all existing signing, striping, and legends, installation of construction advisory signs, removal and relocation of existing signs and posts, temporary pavement painting, removal of existing and/or temporary markings, reinstalling damaged traffic loops, restriping, replacing markers, and implementing traffic control per agency provided Traffic Control Plan to protect life, limb, and property, such as but not limited to traffic delineation and control, furnishing flagmen as needed, trench shoring and/or bracing per Cal OSHA to assure the safe prosecution and completion of the project. Payment for this item shall be as the lump sum for the entire project.

Item 19 – Furnish all labor, material and equipment to install project information signs, including maintaining, relocating and removing all signs as required by the Contract Documents. Payment for this item shall be as the lump sum for the entire project.

Item 20 - Furnish all labor, material and equipment to install offset joint detail per City Standard Drawing OWD-111, including thrust block, fittings, slurry, sand and other appurtenances, complete and operative in place. Payment for this item shall be made at the unit price per offset installed.

ADD-1 **Item 23** - Furnish all labor, material and equipment for removal and replacement of asphalt speed hump. Payment for this item shall be made at the unit bid price per speed hump installed.



ITEM	MATERIALS	QTY.
①	2" SOFT COPPER TUBING, TYPE "K" W/ P.E. WRAP.	VARIABLES
②	BRASS SERVICE SADDLE, CC/ TAPERED THREAD OUTLET.	1 EA
③	2" CORPORATION STOP, CC THREAD X COMPRESSION COUPLING.	1 EA
④	2" COPPER 90° ELL, SWEAT X SWEAT.	1 EA
⑤	2" ANGLE METER STOP.	1 EA
⑥	2" DISC METER (SEE NOTE 2).	1 EA
⑦	2" CURB STOP W/ LEVER HANDLE.	1 EA
⑧	METER BOX – PER SPEC. SECTION 212–10.6.1.	1 EA

NOTES:

1. CONNECTION TO WATER MAIN PER STD. OWD-201.
2. APPROVED REMOTE READ METERS REQUIRED FOR NEW DEVELOPMENTS PER STD. OWD-213.
3. SOLDER SHALL BE 5% SILVER SOLDER, HARRIS CO, STAY BRITE, OR APPROVED EQUAL.
4. CONTRACTOR IS RESPONSIBLE FOR CONNECTING SERVICE TO THE CUSTOMER SIDE. ELEVATION VARIES. ADJUSTMENT MAY BE NECESSARY.

David D. Dief 1/31/2023
CITY WATER MANAGER

James B. 1/31/2023
CITY ENGINEER

John A. 1/31/2023
PUBLIC WORKS DIRECTOR

CITY OF ORANGE WATER DIVISION STANDARDS

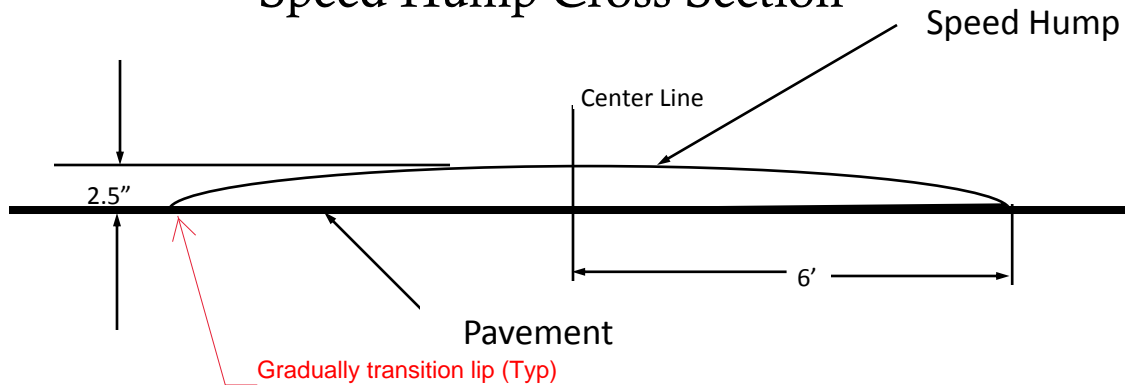
**2" SERVICE INSTALLATION
(COPPER TUBING)**

OWD STD. DWG.

OWD-205

SHEET 1 OF 1

Speed Hump Cross Section



Typical speed hump & warning sign installation

ADVANTAGES

- Effectively reduce speeds
- Do not require parking removal
- Pose no restrictions for bicycles
- Do not affect intersection operation

DISADVANTAGES

- Can possibly increase noise from braking and acceleration of vehicles, particularly buses and trucks



Example of a speed hump installation on Heim Ave.