



January 10th, 2023

CHELAN COUNTY NATURAL RESOURCE DEPARTMENT
COIC IMPROVEMENT PROJECT – DELIVERY PIPELINES

ADDENDUM NO. 3

To the Contractors, Subcontractors, Planholders and Suppliers:

The following items contain additions, deletions, or modifications to the Plans and/or Specifications. This Addendum forms as a part of the Contract Documents. All updated contract Documents can be found at <https://www.co.chelan.wa.us/natural-resources/pages/current-opportunities>.

Bidders must acknowledge receipt of this Addendum on the Bid Proposal Declaration within the Bid Package.

A. CONTRACT PROVISIONS COVER SHEET; PAGE 3

A.1. The date of bid opening is revised to Monday, January 29th, 2024 at 11:00 AM PDT.

B. BID SUBMITTAL PACKAGE

B.1. BIDDING INSTRUCTIONS

The date of bid opening listed in Point A of the Bidding Instructions is revised to Monday, January 29th, 2024 at 11:00 AM PDT.

B.2. INVITATION TO BID

The date of bid opening in the first paragraph of the Invitation to Bid is revised to Monday, January 29th, 2024 at 11:00 AM PDT.

B.3. BIDDER INFORMATION SHEET

Revisions have been made to the Bidder Information Sheet within the Bid Package. A revised copy of this form has been included as Appendix A to this Addendum. Bidders shall use this version when submitting their bids. Changes include the addition of the following language:

Are you a Certified Firm pursuant with section 1-02.6 of the Special Provisions? (Y/N)_____

*If so, it is the obligation of the bidder to provide documentation supporting Indian Preference as part of their bid package.

B.4. SUBCONTRACTORS LIST

Multiple revisions have been made to the Subcontractors List within the Bid Package as summarized below. A revised copy of this sheet with all referenced changes has been included as Appendix B to this Addendum. Bidders shall use this version when submitting their bids.

- B.4.1.** The first paragraph is revised to read: Chelan County requires the bidder to submit the names of all subcontractors whose contract amount exceeds 10 percent of the contract price for all contracts exceeding \$100,000. For contracts exceeding \$1,000,000, the bidder shall also submit the names of all subcontractors that will perform HVAC (heating, ventilation, and air conditioning) work, electrical work, structural steel installation, or rebar installation, in accordance with RCW 29.30.060, regardless of whether the contract amount exceeds 10 percent of the contract price
- B.4.2.** A check box and the following sentence is added after the first paragraph: By checking this box, bidders acknowledge and agree to the requirements listed in section 1-08.1 of the Special Provisions.
- B.4.3.** The Prime Contractor is required to provide the following additional information for each subcontractor: Is this an Indian Certified Firm? (Y/N) _____ If No, briefly explain why Indian Certified Firm was not selected.

C. SPECIAL PROVISIONS

C.1. DIVISION 1- GENERAL

C.1.1. 1-02.6 Preparation of Proposal

The following paragraph is added to the end of section 1-02.6 of the special provisions:

Because this project is partially funded by the Confederated Tribes of the Colville Reservation, Indian preference applies to any award of contract pursuant to this Invitation to Bid. Indian preference will be included in the evaluation of bids to the extent required by Colville Tribal Law and Order Code Chapter 10-1, the Colville Tribal Employment Rights Ordinance (TERO), and Chapter 10-3, Indian Preference in Contracting. The tribal code is available at <https://www.cct-cbc.com/current-code/>. No minimum level of Indian preference certified firm participation shall be required as a condition for receiving an award and bids will not be rejected or considered nonresponsive on that basis. It is the obligation of the bidder to provide documentation supporting Indian preference with their bid documents.

C.1.2. 1-02.12 Public Opening of Proposal

The date of bid opening in the last paragraph of section 1-02.12 is revised to Monday, January 29th, 2024 at 11:00 AM PDT.

C.1.3. 1-03.1 Consideration of Bids

The following paragraph is added to the end of section 1-03.1 of the special provisions:

If you are an Indian preference eligible firm as described in Colville Tribal Law and Order Code Chapter 10-3, Indian Preference in Contracting, you must include supporting documentation with your bid proposal for preference to be acknowledged and considered. Supporting documentation accepted includes a copy of Tribe certification or, if the firm is individually-owned but not certified, a copy of your tribal enrollment card.

C.1.4. 1-07.11 Requirements for Nondiscrimination

The first paragraph of section 1-07.11 is revised to read:

Disadvantaged Business Enterprise Participation

Except as provided in 1-02.6 regarding Indian preference, no preference will be included in the evaluation of Bids/Proposals, no minimum level of DBE participation shall be required as a Condition of Award and Bids/Proposals may not be rejected or considered non-responsive on that basis.

C.1.5. 1-08.1 Subcontracting

Section 1-08.1 of the Special Provisions is revised to read:

(May 30, 2019 APWA GSP, Option B)

Delete the ninth paragraph, beginning with “On all projects, the Contractor shall certify...”.

Contractor’s award of subcontracts for supplies, services, labor and/or materials in an amount of \$5,000.00 or more, shall give preference in subcontracting to qualified entities in the following order:

- (1) 100% Colville Business Enterprises;
- (2) Colville Family Business Enterprises;
- (3) Colville Business Enterprises;
- (4) All other Indian Business Enterprises.

The Contractor shall use all reasonable mechanisms to adhere to the requirements above. To assist Contractor in complying with the Indian preference requirements, the Contracting Agency can provide a link to a list of certified firms as received from the Confederate Tribes of the Colville Reservation Tribal Employment Rights Office (“TERO”) by request, or Contractors may independently reach out via the provide contact information for TERO below. As part of Contractor’s Indian preference obligations, the Contactor shall indicate within their subcontractors list whether or not each subcontractor is an Indian Certified Firm. If a subcontractor is not an Indian Certified Firm, the Contractor shall specify the reason(s) why a non-Indian Certified Firm was selected. The Contractor shall be prohibited from using qualification criteria that creates a barrier to Indian firms.

Confederated Tribes of the Colville Reservation

Tribal Employment Rights Office

Phone: (509) 634-2735

Email: dana.cleveland.TER@colvilletribes.com

D. TECHNICAL SPECIFICATIONS

D.1. Section 01 10 00 – Summary

D.1.1. Part 1 – General, 1.05 – Intent, Paragraph B

Part 1 – General, 1.05 – Intent, Paragraph B is revised to read:

- B. The Project involves construction of new pressurized irrigation delivery pipelines. A new main pipeline will be installed within the alignment of the existing COIC Canal and will replace the canal. Existing lateral pipelines that extend east from the COIC Canal will also be replaced with new pipelines. The existing canal and laterals will remain in service until the end of the irrigation season on September 23, 2024. The main pipeline will then be constructed in the canal and the canal will be backfilled as part of the work. The lateral pipelines will be constructed adjacent and

- C. parallel to the existing lateral pipelines. The Project will include installation of butt-fused HDPE irrigation pipelines, ranging in size from 4 inch to 18-inch diameter.

D.1.2. Part 1 – General, 1.06 – Sequence of Work, B – Time Allowed for Completion of Work

Part 1 – General, 1.06 – Sequence of Work, B – Time Allowed for Completion of Work is revised to read:

B. Time Allowed for Completion of Work

1. The Work of this Contract shall commence immediately upon the receipt of a Notice to Proceed, and shall be substantially complete by April 30, 2025, unless otherwise established in the Contract or approved by a Contract Time Change Order.
2. The Contractor will be undertaking construction activities following the 2024 irrigation season in areas near, adjacent, and in close proximity to the existing irrigation delivery system. The Work shall not disrupt the existing irrigation delivery system operation during the irrigation season, unless approved in writing by the Owner and the Construction Manager. The maximum annual irrigation season typically begins on May 1 and ends on September 30. During 2024, COIC has agreed to terminate the irrigation season on September 23, 2024, to allow for work to commence earlier that would otherwise disrupt the existing irrigation delivery system operation during the irrigation season.

D.1.3. Part 1 – General, 1.08 – Maintaining Irrigation Flows, Paragraph A

Part 1 – General, 1.08 – Maintaining Irrigation Flows, Paragraph A is revised to read:

- A. The Contractor shall not disturb or disrupt operation of the existing COIC Canal while it is in use, unless written authorization is provided by the Owner and the Construction Manager. The maximum irrigation season typically begins on May 1 and ends on September 30 each year. Operation of the existing irrigation canal and laterals shall be maintained through the 2024 irrigation season. During 2024, COIC has agreed to terminate the irrigation season on September 23, 2024, to allow for work to commence earlier that would otherwise disrupt the existing irrigation delivery system operation during the irrigation season.

D.2. Section 01 74 10 – Cleaning and Waste Management

D.2.1. Part 1 – General, 1.01 – Price, A – Final Cleanup and Repair of Private Property

Part 1 – General, 1.01 – Price, A – Final Cleanup and Repair of Private Property is further revised to read:

A. Final Cleanup and Repair of Private Property

3. Measurement and Payment: Measurement and payment for Final Cleanup and Repair of Private Property shall be made by force account, in accordance with Section 1-09.6 of the Special Provisions with the allowance provided for this force account item in the Bid Schedule.

4. Payment will be made by force account for all labor, materials, equipment, and other incidental costs required to clean the site and restore private property as outlined in these Specifications, as shown on the Drawings, and as directed by the Construction Manager. This will include protection and/or removal and replacement of mailboxes, fences, signs, landscaping, and other items that conflict with construction of the delivery pipelines, as indicated on the Drawings, whether within the public right-of-way or on private property, as directed by the Construction Manager. The final cleanup and restoration of private property shall be approved by the Construction Manager prior to notice of substantial completion.
5. Placement of crushed surfacing to repair driveways and other privately owned crushed rock surfaces disturbed by the work shall be included in the per ton prices offered for “Placement and Compaction of Crushed Surfacing Base Course” and “Placement and Compaction of Crushed Surfacing Top Course” in accordance with Section 32 11 13 – Aggregate Base Courses.
6. Placement of asphalt to repair driveways and other privately-owned asphalt surfaces disturbed by the work shall be included in the per ton price offered for “Asphalt Paving” in accordance with Section 32 12 16 – Asphalt Paving.
7. All seeding completed to stabilize surfaces disturbed by the work shall be included in the lump sum price offered for “Seeding” in accordance with Section 32 92 19 – Seeding.

D.2.2. Part 1 – General, 1.08 – General Requirements

Part 1 – General, 1.08 – General Requirements – Restoration of Private Property has been added to clarify requirements for restoration and repair of private property, as follows:

1.08 GENERAL REQUIREMENTS – RESTORATION OF PRIVATE PROPERTY

- A. The Contractor shall document the existing condition of surfaces and private property within the clearing limits with photographs prior to commencing with land-disturbing work.
- B. To the extent possible, items that will need to be protected or removed and replaced to complete the work have been called out on the Drawings. These items primarily include mailboxes, fences, landscaping, signs, driveways, and pathways. Private property impacted by the work shall be restored or repaired by the Contractor, unless otherwise shown on the Drawings or directed by the Construction Manager, whether on a privately owned parcel or within the public right-of-way.
- C. The Construction Manager and the Owner will coordinate with private property owners as the work progresses regarding anticipated impacts to private property that conflicts with the work. The Construction Manager will provide direction to the Contractor if there are instances where private property that will be impacted by the work will need to be restored or replaced at a location or in a condition that is different than the existing condition.
- D. Private property that is impacted by the work shall be restored to its existing condition or better in the location and to the extents that it currently exists, unless the property is shown on the Drawings for removal and disposal or where restoration and repair of private property is otherwise directed by Construction Manager.

D.3. Section 31 23 33 – Trenching and Backfilling

D.3.1. Part 1 – General, 1.01 – Price, G – Placement of Excess Material from Overall Project

Part 1 – General, 1.01 – Price, G – Placement of Excess Material from Overall Project is revised to read:

G. Placement of Excess Material from Overall Project

1. Measurement: No measurement shall be made for this item as it will be paid as a lump sum.
2. Payment: Lump sum price offered in the Bid Schedule.
3. The lump sum price offered in the Bid Schedule shall include all materials, tools, labor, and equipment necessary to place excess material excavated as part of this contract, as well as excess material excavated and stockpiled by the Contractor constructing the intake and pumping facilities. Excess material excavated and stockpiled as part of this contract and as part of the contract for the intake and pumping facilities shall be managed under this contract, as follows:
 - a) Suitable material may be used as final backfill over the delivery pipelines, where the material meets the requirements for final backfill outlined in these Specifications. Placement of stockpiled material as final backfill to the minimum depth of cover shown on the Drawings shall be included in the lump sum price offered for “Placement and Compaction of Final Backfill”.
 - b) Excess material stockpiled and not required to backfill the existing canal to the minimum depth of cover noted on the Drawings may be placed and compacted within the clearing limits for pipelines constructed in the COIC Canal over the final backfill layer to the mounding limits shown on the Drawings, as directed by the Construction Manager and included in this lump sum item “Placement of Excess Material from Overall Project”.
 - c) Removed asphalt, large rock, and other excess stockpiled materials that are not suitable or cannot be placed within the existing COIC Canal Right-of-Way shall be hauled away and disposed of at an approved off-site location, as outlined in these Specifications. That work shall be included in the lump sum price offered for “Haul and Disposal of Excess or Unsuitable Excavated Material”.
4. To provide a basis for estimating quantities of excess material to be managed, it was estimated that 820 cubic yards of excess material will be excavated and stockpiled under the contract for the intake and pumping facilities.
5. The Contractor shall provide, as a basis for payment requests for the lump sum item “Placement of Excess Material from Overall Project,” an estimate of the percentage of the excess stockpiled material placed within the clearing limits for pipelines constructed in the COIC Canal, as directed by the Construction Manager.

D.3.2. Part 1 – General, 1.01 – Price, H – Haul and Disposal of Excess or Unsuitable Excavated Material

Part 1 – General, 1.01 – Price, H – Haul and Disposal of Unsuitable Excavated Material is revised to read:

H. Haul and Disposal of Excess or Unsuitable Excavated Material

1. Measurement: No measurement shall be made for this item as it will be paid as a lump sum.
2. Payment: Lump sum price offered in the Bid Schedule.
3. The lump sum price offered in the Bid Schedule shall include all materials, tools, labor, and equipment necessary to haul and dispose of excess excavated material that is stockpiled and not suitable for reuse or is in excess of material that can be placed on the project site.
4. For the purpose of providing a quantity to be used as an equal basis for bidding, it is estimated that 130 cubic yards of excess material will need to be hauled away and disposed of at an approved off-site location as part of this bid item “Haul and Disposal of Excess or Unsuitable Excavated Material”. Hauling and disposal of excess or unsuitable excavated material beyond this volume will be considered additional work. Compensation for that additional work, if required, will be reviewed and approved by the Construction Manager and shall be based on the lump sum price offered for “Haul and Disposal of Excess or Unsuitable Excavated Material” and the quantity of material estimated for this work.
5. The Contractor shall provide, as a basis for payment requests for the lump sum item “Haul and Disposal of Excess or Unsuitable Excavated Material,” an estimate of the percentage of the work completed based on the length or volume of final backfill placed compared to the Contractor’s estimate of the total length or volume of final backfill required.

D.4. Section 31 23 90 – Disposal of Excavated Materials

D.4.1. Part 3 – Execution, 3.02 – Disposal of Excavated Materials, Paragraph D

Part 3 – Execution, 3.02 – Disposal of Excavated Materials, Paragraph D is revised to read as follows for consistency with Drawing C-24:

- D. Grade waste banks or mounds created within the COIC Canal Right-of-Way to reasonably even and uniform surfaces that blend with the natural terrain.
1. Minimum slope: 2%
 2. Maximum slope: 6 horizontal to 1 vertical (6H:1V)

D.5. Section 33 11 17 – HDPE Irrigation Distribution Piping

D.5.1. Part 1 – General, 1.01 – Price, T – Slipline 3-inch HDPE Service Pipe in Ex Lateral – N of Wilson Street

Part 1 – General, 1.01 – Price, T - Slipline 3-inch HDPE Service Pipe in Ex Lateral – N of Wilson Street is revised to read:

T. Slipline 3-inch HDPE Service Pipe in Ex Lateral – N of Wilson Street

1. Measurement: No measurement shall be made for Slipline 3-inch HDPE Service Pipe in Ex Lateral – N of Wilson Street as it will be paid as a lump sum.
2. Payment: Lump sum price offered in the Bid Schedule.
3. The lump sum price offered in the Bid Schedule for Slipline 3-inch HDPE Service Pipe in Ex Lateral – N of Wilson Street shall include all material, tools, labor, and equipment needed to furnish and install HDPE service pipe in an existing irrigation lateral pipe to extend service to water users north of Wilson Street. The work shall include furnishing and installing pipe, cutting and removal of a portion of the existing pipe to retrieve the sliplined pipe, sealing the open ends of the existing pipe, and all related work needed to install service pipe to the service connection locations north of Wilson Street, as shown in the Drawings.
4. Installation of the pipes, valves, connection fittings, service boxes, and other appurtenances associated with the installation of the individual service connections north of Wilson Street from the 3-inch pipe that will be installed via sliplining through the existing lateral pipe shall be included in the per each unit price for “2-inch Service Connection”.

D.5.2. Part 1 – General, 1.01 – Price, U – Slipline 4-inch HDPE Service Pipe in Ex Steel Pipe – To RV Park

Part 1 – General, 1.01 – Price, U - Slipline 4-inch HDPE Service Pipe in Ex Steel Pipe – To RV Park is revised to read:

U. Slipline 4-inch HDPE Service Pipe in Ex Steel Pipe – To RV Park

1. Measurement: No measurement shall be made for Slipline 4-inch HDPE Service Pipe in Ex Steel Pipe – To RV Park as it will be paid as a lump sum.
2. Payment: Lump sum price offered in the Bid Schedule.
3. The lump sum price offered in the Bid Schedule for Slipline 4-inch HDPE Service Pipe in Ex Steel Pipe – To RV Park shall include all material, tools, labor, and equipment needed to furnish and install HDPE service pipe in an existing 30-inch welded-steel pipe to extend service to the Icicle RV Park. The work shall include furnishing and installing pipe, cutting and removal of a portion of the existing pipe to retrieve the sliplined pipe, sealing the open ends of the existing pipe, and all related work needed to install a service connection within the Icicle RV Park, as shown in the Drawings.

4. Installation of the pipe, valve, connection fittings, service box, and other appurtenances associated with the installation of the individual service connection to the RV Park irrigation system from the 4-inch pipe that will be installed via sliplining through the existing steel pipe on the RV Park property shall be included in the per each unit price for "4-inch Service Connection".

E. FINAL CONTRACT DRAWINGS


E.1. Drawing C-26

Detail 1 – Typical Service Connection Details, on Drawing C-26 (attached as Appendix C) is revised to correct the type of valve connections intended for 3-inch and 4-inch service connection gate valves. Those valves should be flanged valves. A note was also added to clarify the intended configuration of service connections where multiple service connections branch off of a single pipe connected to a lateral or main pipeline.

END OF ADDENDUM NO. 3

X 

Hannah Pygott, Sr. Natural Resource Specialist
Resources Department

X 

David Rice, Principal Water Resources Engineer Chelan County Natural

APPENDIX A: REVISED BIDDER INFORMATION SHEET

**COIC IMPROVEMENT PROJECT
– DELIVERY PIPELINES**

Addendum NO. 3

BIDDER INFORMATION

PROJECT: CASCADE ORCHARD IRRIGATION COMPANY IMPROVEMENT PROJECT – DELIVERY PIPELINES

Contractor registration, bonding and insurance information will be confirmed through Department of Labor and Industries at 1.800.647.0982 and 1.360.902.5230.

CONTRACTOR:

 NAME (Exactly as Registered) TELEPHONE NO.

 ADDRESS

 CITY STATE ZIP

 REGISTRATION NO. EXPIRATION DATE FEDERAL TAX ID UBI NO.

SOLE PROPIERTORSHIP PARTNERSHIP CORPORATION

JOINT VENTURE LLC

PRINCIPALS:

Are you a Certified Firm pursuant with section 1-02.6 of the Special Provisions? (Y/N)_____

*If so, it is the obligation of the bidder to provide documentation supporting Indian Preference as part of their bid package.

LIST OF SIMILAR PROJECTS COMPLETED BY CONTRACTOR (USE ADDITIONAL SHEET IF NECESSARY)

Project Name	Contracting Agency	Contracting Agency Contact	Completion Date

APPENDIX B: REVISED SUBCONTRACTOR LIST

**COIC IMPROVEMENT PROJECT
– DELIVERY PIPELINES**

Addendum NO. 3

SUBCONTRACTOR LIST

Prepared in compliance with RCW 39.30.060 as amended

Chelan County requires the bidder to submit the names of all subcontractors whose contract amount exceeds 10 percent of the contract price for all contracts exceeding \$100,000. For contracts exceeding \$1,000,000, the bidder shall also submit the names of all subcontractors that will perform HVAC (heating, ventilation, and air conditioning) work, electrical work, structural steel installation, or rebar installation, in accordance with RCW 29.30.060, regardless of whether the contract amount exceeds 10 percent of the contract price. Bidders shall complete Section A below, as appropriate, with the bid proposal or within 1 hour of the bid time. Bidders may attach additional sheets as necessary to identify additional subcontractors. If information is delivered within 1 hour of the bid time, it may be delivered in person, by fax, courier or email to the CONTRACTING AGENCY’S representative.

SECTION A. OWNER REQUIRED SUBCONTRACTOR LIST

The following subcontractor(s) subcontract amount(s) exceed 10 percent of the contract price and the contract exceeds \$100,000 (list subcontractor and bid item).

By checking this box, bidders acknowledge and agree to the requirements listed in section 1-08.1 of the Special Provisions.

Bidder certifies that there are no subcontractors at this time who meet the above requirements.

Name _____
Title. _____
Signature _____

OR There are subcontractors that meet the above requirements. Provide additional sheet if necessary.

Subcontractor Name _____
Bid Item No. _____
Address. _____
Phone No. _____ State Contractor’s Lic. No. _____
Is this an Indian Certified Firm? (Y/N) _____ If No, briefly explain why Indian Certified Firm was not selected: _____

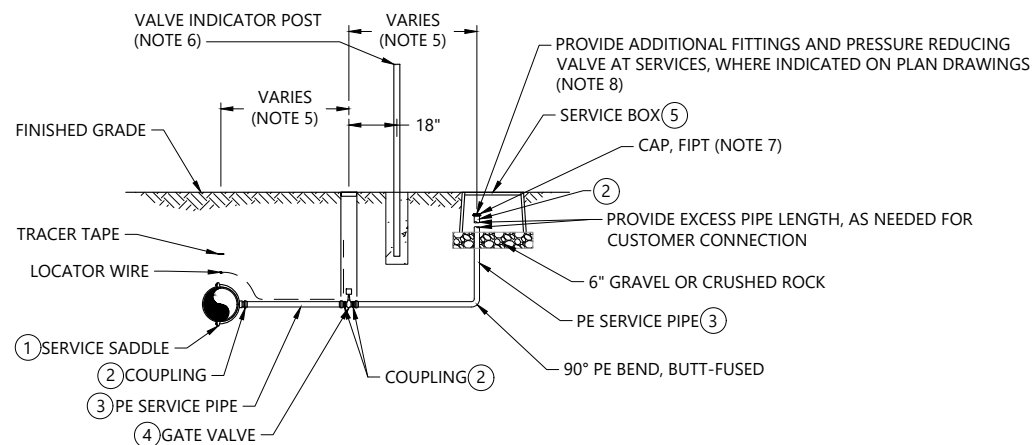
Subcontractor Name _____
Bid Item No. _____
Address. _____
Phone No. _____ State Contractor’s Lic. No. _____
Is this an Indian Certified Firm? (Y/N) _____ If No, briefly explain why Indian Certified Firm was not selected: _____

Subcontractor Name _____
Bid Item No. _____
Address. _____
Phone No. _____ State Contractor’s Lic. No. _____
Is this an Indian Certified Firm? (Y/N) _____ If No, briefly explain why Indian Certified Firm was not selected: _____

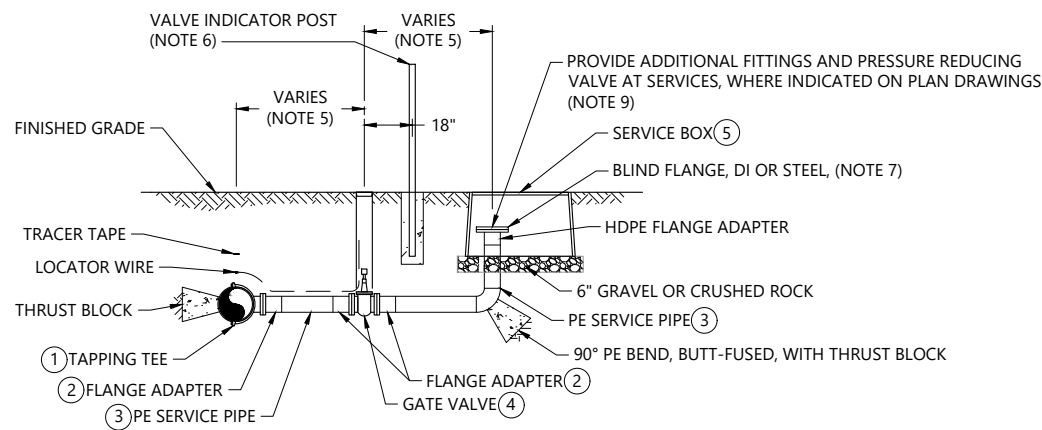
APPENDIX C: REVISED DRAWING C-26

**COIC IMPROVEMENT PROJECT
– DELIVERY PIPELINES**

Addendum NO. 3



2" AND SMALLER SERVICE CONNECTION (TYPES A AND B)



3" AND LARGER SERVICE CONNECTION (TYPES C AND D)

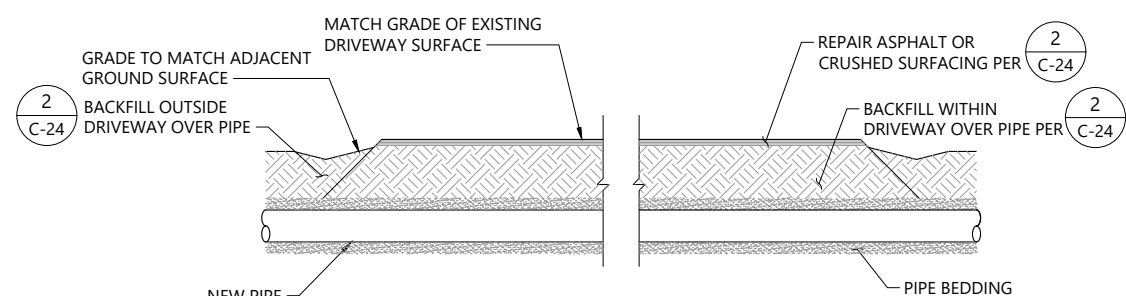
1 TYPICAL SERVICE CONNECTION DETAILS
SCALE: NOT TO SCALE

TYPICAL SERVICE CONNECTION NOTES:

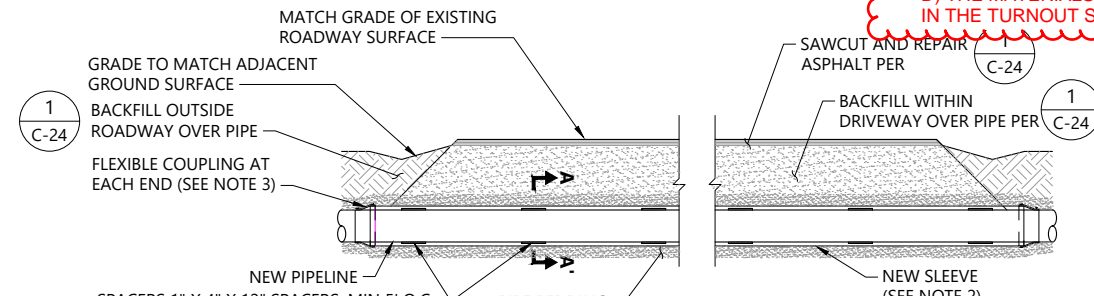
- ALL PIPE AND FITTINGS SHALL HAVE A PRESSURE RATING EQUAL TO OR GREATER THAN THE PRESSURE RATING OF THE MAIN LINE OR LATERAL PIPE AT THE SERVICE CONNECTION LOCATION.
- THE CONTRACTING ORGANIZATION'S REPRESENTATIVE SHALL STAKE ALL SERVICE CONNECTION LOCATIONS PRIOR TO INSTALLATION. VERIFY SERVICE CONNECTION LOCATIONS WITH THE WATER USER AND THE CONTRACTING ORGANIZATION'S REPRESENTATIVE PRIOR TO INSTALLATION.
- FOR TRENCHING AND BACKFILL REQUIREMENTS, SEE TYPICAL TRENCH SECTIONS, DRAWING C-24.
- THE CONTRACTOR SHALL TAKE CARE TO PLACE AND COMPACT PIPE BEDDING UNDER SERVICE CONNECTION PIPING TO PREVENT DAMAGE FROM COMPACTION AND SETTLEMENT OF FILL ABOVE SERVICE CONNECTIONS.
- THE OFFSET FROM THE IRRIGATION PIPELINE TO THE VALVE AND SERVICE BOX WILL VARY BASED ON FIELD CONDITIONS AND SHALL BE FIELD DIRECTED BY THE CONTRACTING ORGANIZATION'S REPRESENTATIVE. BASE THE BID PRICE ON A TYPICAL 10-FOOT OFFSET FROM PIPELINE TO THE IRRIGATION SERVICE BOX.
- INDICATOR POSTS ARE REQUIRED WHERE VALVES ARE NOT INSTALLED IN A ROADWAY OR DRIVEWAY, AS DIRECTED BY THE CONTRACTING ORGANIZATION'S REPRESENTATIVE. INDICATOR POSTS SHALL BE IN ACCORDANCE WITH CLFMI 2.375-INCH Ø TYPE I OR TYPE II POST, SET IN A CONCRETE BASE.
- INSTALL CAP OR BLIND FLANGE ON END OF SERVICE IN BOX, UNLESS CONNECTION WILL BE MADE TO ON-SITE IRRIGATION SYSTEM BEFORE DISTRIBUTION SYSTEM IS PRESSURIZED.
- AT ALL SERVICE CONNECTIONS 2" AND SMALLER (TYPE A AND TYPE B) LOCATED AT AN ELEVATION OF LESS THAN 1,160 FEET, PROVIDE A 90° ELBOW, FIPT X FIPT, AND A PRESSURE REDUCING VALVE, MIPT X MIPT, PER SPECIFICATIONS.
- AT ALL SERVICE CONNECTIONS 3" AND LARGER (TYPE C AND TYPE D) LOCATED AT AN ELEVATION OF LESS THAN 1,160 FEET, PROVIDE A 90° D.I. BEND, FL X FL, AND A PRESSURE REDUCING VALVE, FL X FL, PER SPECIFICATIONS.

COIC MAIN PIPELINE TURNOUT PIPE SIZES AND MATERIALS								
TYPE	SERVICE PIPE NOMINAL DIAMETER (INCHES)	MAXIMUM NUMBER OF SHARES SERVED	QUANTITY	① SADDLE	② CONNECTIONS	③ PIPE TYPE	④ GATE VALVE	⑤ SERVICE BOX
A	1-1/2"	1	51	DOUBLE STRAP SADDLE TAP, ROMAC 202S, FIPT, OR APPROVED EQUAL	COUPLING, 1-1/2" MIPT X 1-1/2" PACK JOINT FOR PE TUBING	1-1/2" PE TUBING, DR 9 (250-PSI RATING), CTSM, PURPLE TRACER TAPE	1-1/2" BRONZE GATE VALVE, FIPT X FIPT, WITH OPERATING NUT	HDPE METER BOX WITH LOCKING LID, CARSON 1324-15, OR APPROVED EQUAL, PURPLE COVER MARKED "IRRIGATION"
B	2"	5	123	DOUBLE STRAP SADDLE TAP, ROMAC 202S, FIPT, OR APPROVED EQUAL	COUPLING, 2" MIPT X 2" PACK JOINT FOR PE TUBING	2" PE TUBING, DR 9 (250-PSI RATING), CTSM, PURPLE TRACER TAPE	2" RESILIENT WEDGE GATE VALVE, AWWA C509, FIPT X FIPT, WITH OPERATING NUT	HDPE METER BOX WITH LOCKING LID, CARSON 1324-15, OR APPROVED EQUAL, PURPLE COVER MARKED "IRRIGATION"
C	3"	10	19	SST OR COATED STEEL TAPPING TEE, FL, ROMAC SST, ROMAC FTS419, OR APPROVED EQUAL	3" FLANGE W/ 3" HDPE FLANGE ADAPTER	3" PE PIPE, DR 21 (100-PSI RATING), IPS, PURPLE TRACER TAPE	3" RESILIENT WEDGE GATE VALVE, AWWA C509, FL X FL WITH OPERATING NUT	HDPE METER BOX WITH LOCKING LID, CARSON 1730-24, OR APPROVED EQUAL, PURPLE COVER MARKED "IRRIGATION"
D	4"	20	8	SST OR COATED STEEL TAPPING TEE, FL, ROMAC SST, ROMAC FTS419, OR APPROVED EQUAL	4" FLANGE W/ 4" HDPE FLANGE ADAPTER	4" PE PIPE, DR 21 (100-PSI RATING), IPS, PURPLE TRACER TAPE	4" RESILIENT WEDGE GATE VALVE, AWWA C509, FL X FL WITH OPERATING NUT	HDPE METER BOX WITH LOCKING LID, CARSON 2436-24, OR APPROVED EQUAL, PURPLE COVER MARKED "IRRIGATION"

10. WHERE MULTIPLE SERVICE CONNECTIONS BRANCH OFF A SINGLE PIPE CONNECTED TO THE LATERAL OR MAIN PIPELINE, THE FOLLOWING SHALL APPLY:
 A) A SADDLE TAP OR TAPPING TEE SHALL BE INSTALLED ON THE LATERAL OR MAIN PIPELINE, AS LISTED IN THE TURNOUT SIZES AND MATERIALS TABLE, WITH AN OUTLET EQUAL IN SIZE TO THE PIPE THAT TEES OFF THE LATERAL OR MAIN PIPELINE.
 B) THE PIPE SHALL BE SLEEVED IF IT CROSSES UNDER A PAVED ROADWAY.
 C) THE BRANCH WHERE THE PIPE SPLITS INTO MULTIPLE SERVICES MAY BE CREATED USING BUTT-FUSED HDPE FITTINGS, SADDLE TAPS, OR SOME COMBINATION OF THE TWO.
 D) THE MATERIALS FOR EACH SERVICE LINE BEYOND THE BRANCH SHALL BE AS INDICATED IN THE TURNOUT SIZES AND MATERIALS TABLE FOR THE APPLICABLE SIZE OF TURNOUT.



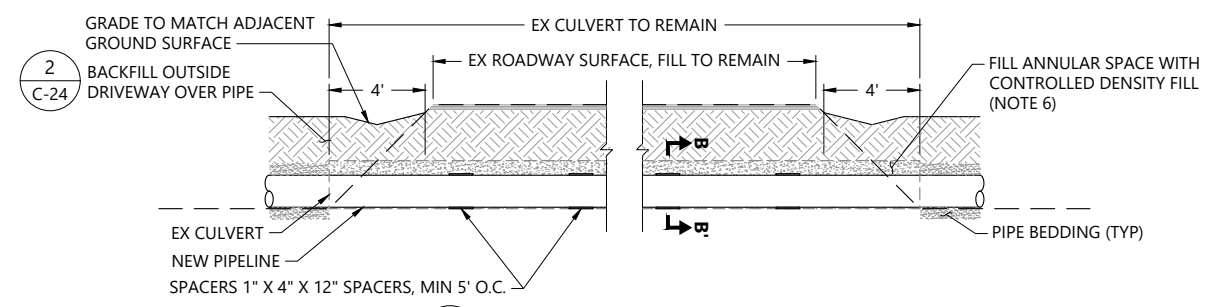
2 TYPICAL CROSSING AT DRIVEWAY
SCALE: NOT TO SCALE



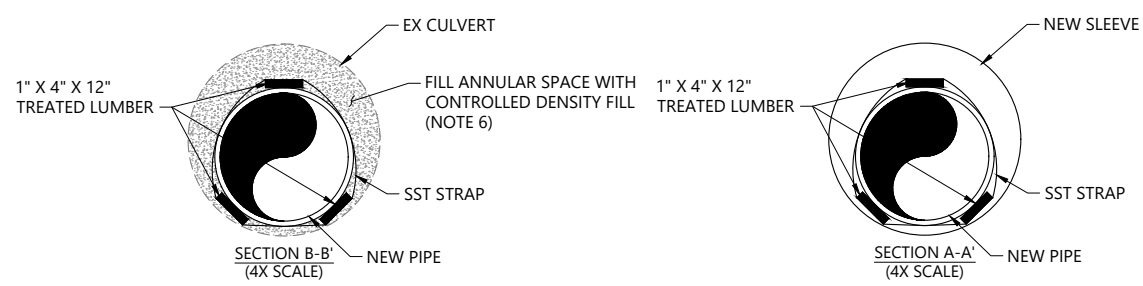
3 TYPICAL CROSSING AT PAVED COUNTY ROADWAY
SCALE: NOT TO SCALE

ROADWAY AND DRIVEWAY CROSSING NOTES:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED CHELAN COUNTY PERMIT TO WORK IN COUNTY ROADWAY.
- PIPE SLEEVE: SCHEDULE 40 PVC OR SDR 51 PIPE WITH GASKETED BELL AND SPIGOT JOINTS. NO GLUED JOINTS WILL BE ALLOWED.
- MIN SLEEVE ID=PIPE OD+4 INCHES; SLEEVE LENGTH AS SHOWN ON PLAN VIEWS.
- FLEXIBLE COUPLING: FERNCO OR APPROVED EQUAL.
- WHERE A BRIDGE FOR A PATHWAY OR DRIVEWAY IS REMOVED ACROSS THE EXISTING CANAL, REPAIR THE DRIVEWAY OR PATHWAY SURFACE THROUGH THE FULL WIDTH OF WORK ZONE AND MATCH SURFACE TO EXISTING DRIVEWAY OR PATHWAY ON EITHER SIDE OF WORK ZONE.
- WHERE PIPE IS INSTALLED THROUGH AN EXISTING CULVERT, FILL THE ANNULAR SPACE IN THE CULVERT WITH CONTROLLED DENSITY FILL (CDF). CDF SHALL MEET THE REQUIREMENTS OF SECTION 2-09.3(1)E OF THE WSDOT STANDARD SPECIFICATIONS (2024 EDITION). THE NEW PIPE SHALL BE FILLED WITH WATER OR OTHERWISE PROTECTED FROM FLOTATION AND/OR DEFORMATION WHEN PLACING CDF IN THE ANNULAR SPACE OF THE CULVERT, AS APPROVED BY THE CONSTRUCTION MANAGER.



4 TYPICAL INSTALLATION IN EX CULVERT
SCALE: NOT TO SCALE



ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

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CASCADE ORCHARD IRRIGATION COMPANY



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: J. SEXTON
 DRAWN BY: T. GRIGA
 CHECKED BY: D. RICE
 APPROVED BY: D. RICE
 SCALE: AS NOTED
 DATE: NOVEMBER 6, 2023

CASCADE ORCHARD IRRIGATION COMPANY
IMPROVEMENT PROJECT
DELIVERY PIPELINES

TYPICAL DETAILS

C-26
 SHEET NO. 42 OF 46