1. Call to Order

2. Confirmation of Disclosures of Conflicts of Interest

NORTH WELD COUNTY WATER DISTRICT

Notice of Meeting

Tuesday, September 3, 2024, at 8:30 AM

32825 Co Rd 39, Lucerne, CO 80646

THE BOARD MEETING WILL BE OPEN TO THE PUBLIC IN PERSON AND BY TELECONFERENCE

Information to join by Phone is below:

Call-In Number: 1(720)707-2699, **Meeting ID**: 873 5785 0771, **Passcode**: 475314

AGENDA

1. **Call to Order**

2. **Confirmation of Disclosures of Conflicts of Interest**

3. **Action: Approve September 3, 2024, NWCWD Board Meeting Agenda**

4. **Public Comment (3 Minute Time Limit; Items Not Otherwise on the Agenda)**

5. **Consent Agenda: (These items are considered to be routine and will be approved by one motion. There will be no separate discussion of these items unless requested, in which event, the item will be removed from the Consent Agenda and considered in the Regular Agenda) (enclosures)**

    a. **Minutes from August 12, 2024, Regular Meeting**
    b. **Invoices through September 3, 2024**
    c. **Letter of Intent Single Lot**
        i. **Jorgensen**
    d. **Stantec Master Plan Work Order**
    e. **Saddler Revised Notice to Serve Letter**
    f. **Rental of C-BT Carryover Capacity from CSU**

6. **Action: Development Review Variance Request Wolf Creek Diary**

7. **Action: Consider Adoption of Resolution No. 20240903-01: Resolution Adopting a Digital Accessibility Policy and Designating a Compliance Officer (enclosure)**

8. **Discussion: Revised Lead and Copper Rules Update (enclosure)**

9. **Action: Consider Approval of NEWT III Pipeline Work Order Directive (enclosures)**
    a. **Work Order Directive ELCO CR 3 Connection**
    b. **IGA Interconnection ELCO Confirmation Letter**

10. **Action: Divide Irrigation Co. and NPIC Water Trade (enclosures, Separate Cover, Privileged and Confidential)**

11. **Discussion: Regional Master Plan Update and Capital Improvement Plan**

12. **Discussion: Proposed IGA between Town of Severance, Severance South, and NWCWD related to Severance South Waterline (enclosures, Separate Cover, Privileged and Confidential)**

13. **Executive Session: The Board reserves the right to enter into Executive Session for the following purposes: Receiving legal advice and discussing matters subject to negotiation and strategy pursuant to § 24-6-402(4)(b)&(e), C.R.S. related to Regional Master Plan and Capital Improvement Plan, Divide Irrigation Co. Water Trade, and IGA with Town of Severance and Severance South.**

14. **Discussion: Public Relations and District Messaging Work Session**

15. **District Manager's Report:**
    a. **Tap Sales**
    b. **Tri Districts Dinner October 10, 2024, Mill in Windsor**
    c. **SDA Conference September 12th -- 14th**
    d. **Amended Water Service Agreement Discussions**
        i. **Ault**
        ii. **NCWA**

16. **Other Business**

ADJOURN_____ _.M.

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE NORTH WELD COUNTY WATER DISTRICT

Held: Monday, the 12th day of August, 2024, at 8:30 A.M.

The meeting was conducted via teleconference.

ATTENDANCE

The meeting was held in accordance with the laws of the State of Colorado. The following directors were in attendance:

Tad Stout, President
Nels Nelson, Treasurer
Anne Hennen, Assistant Secretary
Matt Pettinger, Assistant Secretary
Scott Cockroft, Secretary

Also present were Eric Reckentine and Garrett Mick, General Manager of the District; Zachary P. White, Esq., WHITE BEAR ANKELE TANAKA & WALDRON, District general counsel; Jamie Cotter, SpencerFane, District special counsel; Scott Holwick, Esq., LYNONS GADDIS, P.C., District special counsel; Richard Raines and Jan Sitterson, Water Resources; and members of the public.

ADMINISTRATIVE MATTERS

Call to Order

The meeting was called to order at 8:30 A.M.

Declaration of Quorum and Confirmation of Director Qualifications

Mr. Stout noted that a quorum for the Board was present and that the directors had confirmed their qualification to serve.

Reaffirmation of Disclosures of Potential or Existing Conflicts of Interest

Mr. White advised the Board that, pursuant to Colorado law, certain disclosures might be required prior to taking official action at the meeting. Mr. White reported that disclosures for those directors that provided WHITE BEAR ANKELE TANAKA & WALDRON with notice of potential or existing conflicts of interest, if any, were filed with the Secretary of State's Office and the Board at least 72 hours prior to the meeting, in accordance with Colorado law, and those disclosures were acknowledged by the Board. Mr. White inquired into whether members of the Board had any additional disclosures of potential or existing conflicts of interest about any matters scheduled for discussion at the meeting. All directors reviewed the agenda for the meeting and confirmed that they have no additional conflicts of interest in connection with any of the matters listed on the agenda.

Approval of Agenda

Mr. Reckentine presented the Board with the agenda for the meeting. Upon motion of Mr. Nelson, seconded by Mr. Pettinger, the Board unanimously approved the agenda as presented.

PUBLIC COMMENT

None.

CONSENT AGENDA MATTERS

Upon a motion of Mr. Nelson, seconded by Mr. Cockroft, the following items on the consent agenda were unanimously approved, ratified and adopted:

a. Minutes from July 8, 2024, Regular Meeting (as corrected)
b. Unaudited Financial Statements July 2024
c. Invoices through August 12, 2024
d. Letter of Intent Single Lot
    i. Tarquin Colorado LLC
    ii. Lind
e. Saddler Ridge Notice to Serve Letter
f. Amended Easement for Hwy 14 Recharge Site with Longs Peak
g. Change Order and Work Directive for Quality Well to Enlarge Recharge Basin
h. CSU Lease Agreement Additional NPIC Shares
i. Eaton Pipeline Phase 2 Connel Resources Final Acceptance Documents
j. Easement Acquisition NEWT III – Ratify
    i. K&M
    ii. Lepsack
    iii. Endor
    iv. Kurtz Letter
    v. Kimley Horn Project Close K&M

NEWT III Construction Update – Ditesco Engineering Services

Representatives of Ditesco Engineering Services provided an update to the Board regarding the NEWT III Construction. It was noted that the project is approximately 50% complete, 100% of the construction materials have been delivered are staged and all of the major crossings have been completed.

Change Order Request Garney Construction

The Board engaged in a discussion regarding the change order request from Garney Construction. Following discussion, upon a motion of Mr. Nelson and seconded by Mr. Cockroft, the Board unanimously approved the change order.

ELCO Interconnection CR3, CR5 and CR1

Mr. Reckentine discussed the ELCO Interconnection of CR3, CR5 and CR1 with the Board. The existing Intergovernmental Agreement that allows interconnections of CR3, CR5 and CR1 and ELCO is requesting a connection with CR5 which is currently

	under design. There are concerns about connections that are not flow controlled and metered. The Board directed the District Manager and legal counsel to prepare a letter to ELCO indicating that all interconnections must be metered and have valved flow-controlled devices. The issues related to the shared 24 inch line and current flow losses to ELCO was discussed.
Consider Adoption of Resolution No. 20240812-01, Non-Potable Irrigation Water Supply Policy	Mr. Reckentine presented Resolution No. 20240812-01, A Non-Potable Irrigation Water Supply Policy to the Board. Following discussion, upon a motion by Mr. Nelson, seconded by Mr. Pettinger, the Board unanimously approved the resolution.
Executive Session: The Board reserves the right to enter into Executive Session for the following purposes: Receiving legal advice and discussing matters subject to negotiation and strategy pursuant to § 24-6-402(4)(a)(b)(e) & (f), C.R.S. related to ELCO NEWT III County Road Interconnects	Not needed.

DISTRICT MANAGER'S REPORT

Tap Sales	Mr. Reckentine reported to the Board there were 65 taps sold to date.
Stakeholder Meeting Town of Severance, July 2024	Mr. Reckentine reported to the Board that the meeting occurred.
Cobb Lake Water Treatment Presentation Town of Eaton Divestment of NISP Units to FCLWD SCWTP Temporary Shutdown Larimer County 1041 Legal Challenge to Thornton Pipeline	Mr. Reckentine discussed the budget and schedule for the Cobb Lake Plant and discussed the timing implications related to FCLWD usage growth and the 10-year time frame of the new plant. Mr. Reckentine stated discussions need to start at the SCWTA to insure NWCWD future capacity obligations are not burdened by other members. The Town of Eaton and Severance divested 100 and 1500 units respectively to FCLWD. A discussion occurred that FCLWD will potentially provide treated water to these Towns from Cobb Lake Plant via water service agreements.
Conflict of Interest Letter – PIC	Mr. Reckentine reported to the Board of a temporary shutdown of the plant in July.

	Mr. Reckentine report to the Board that there are legal challenges to the Thornton Pipeline from Save the Poudre.
Wildfire Update	
Greeley NWCWD Harmony Interconnect Operational	Mr. Reckentine reported to the Board that the District sent a letter to Providence Infrastructure Consultants regarding potential conflicts of interest related to their work with ELCO CR5 Crossing. The District has not waived any conflicts of interest.
	Mr. Reckentine reported to the Board of potential impacts of the current wildfires.
	Mr. Reckentine reported to the Board that the interconnect is completed and operational but is not currently in use.
OTHER BUSINESS	None.
ADJOURNMENT	There being no further business to be conducted, the meeting was adjourned.

The foregoing constitutes a true and correct copy of the minutes of the above-referenced meeting

_____

Secretary for the District

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646
P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997
WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

August 27, 2024

Kristopher & Janette Jorgensen, Developer
34916 CR 35
Eaton, CO 80615

Subject: Water Service Request, Jorgensen Property, Single Family Residential Tap Request

This Letter of Intent (the "Letter") is in response to your inquiry regarding water service from North Weld County Water District (the "District") to the property legally described in **Exhibit A**, attached hereto and incorporated by this reference (the "Property"). Kristopher & Janette Jorgensen shall be referred to herein as the "Developer".

In order to support you with obtaining water service, you should understand the following:

1. The District is able to provide water service to the Property, contingent upon all requirements of the District being satisfied. If all District requirements, including all contracts, have not been satisfied and completed with the District within 1 year of the date of this Letter, this Letter is no longer of any force and effect. After 1 year, it should be understood that the District reserves the right to refuse water service, if raw water is unavailable, and/or pipeline or water treatment capacity is not capable of providing water service to the above-described property.

2. Before a water tap may be purchased, the Developer must provide a copy of a **Warranty Deed**, a **Physical Address,** and provide a copy of **this Letter,** which **Letter** must be acknowledged by the Developer and also recorded on the Property in the real property records of the Weld or Larimer County Clerk and Recorder, as appropriate.

3. The Developer must sign and execute any and all necessary Easement and Rights-of-Way Agreements regarding specific locations, widths, size of pipeline(s) and descriptions for the Line Extension as determined by the District. Providing water service to the Property is contingent upon execution and recording of the Easement and Right-of-Way Agreements. Until such Easement and Right-of-Way Agreements are finalized and recorded to the satisfaction of the District, the District will not initiate the design or construction of the Meter Set or Line Extension needed to provide water service to the Property.

4. Based on the irrigation use of the Property along with other pertinent information provided on the Water Tap Request Form, **the District recommends the Developer's irrigated landscaping square footage not exceed 6,000 square feet**. This recommendation is based on the Full Standard Tap allocation and should be used to optimize delivery without surcharge (i.e., to minimize the risk or likelihood of surcharge). Should the Developer desire to irrigate a larger landscaped area, the District recommends the Developer purchase an additional allocation.

5. Developer is subject to the District's Amended and Restated Water Dedication Policy, which may be amended from time to time (the Policy"). A copy of the current Policy is attached hereto as **Exhibit B**.

6. In no event shall Developer apply for a land division of the Property with a County prior to dedicating water as required by the Policy and as set forth above. In the event Developer fails to dedicate water in relation to the Property prior to a County approving a land division, the sole recourse of any future owners of the divided Property shall be against the Developer.

7. Any future owners of the Property or divided Property shall be third-party beneficiaries to this Letter and shall have the right to enforce the terms of this Letter against the Developer. Nothing contained in this Letter shall give or allow any claim or right of action against the District by a subsequent owner of the Property or divided portion of the Property. The Developer shall be solely responsible for any claims relating to its failure to dedicate water rights as required by the Policy.

8. The District's water tap options are shown in Table No. 1 included in **Exhibit C** of this Letter.

9. The District's current tap fees are shown in Table No. 2 included in **Exhibit C** of this Letter. **The District's tap fees shall be valid for 10 business days from the date the Developer receives this Letter. The tap fees must be paid within 10 business days of Letter receipt**. **After 10 business days of Letter receipt, tap fees will be subject to the 'then in effect rates' (current cost) established by the District**. The District is not responsible for notifying individuals, banks, lenders, prospective buyers, real estate agents or anyone else, in any manner, of a change of rates and/or fees.

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646
P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997
WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

10. **The Meter Set Fee is valid only for the location shown on the map attached hereto as Exhibit D**. After the water tap has been purchased (Raw Water AFU & Plant Investment Fee), the Developer has 1 year in which to have the meter set. The District requires a minimum 60 day advance notice to set the meter. If the meter has not been set within 12 months from the purchase date and the Developer requests in writing to relinquish the meter, the District shall refund the Developer 98% of the tap fee. If longer than a year, the District will refund the Developer 90% of the tap fee paid. **If the Developer does not choose to relinquish the meter within 12 months of the Developer purchasing the meter and the meter remains unset, the account will begin to be billed the minimum monthly amount**.

11. The District's current usage rates and fees are shown in Table No. 3 included in **Exhibit C** of this Letter.

12. Water Surcharge. Water surcharge fees will be assessed when an account's year to date usage exceeds the annual water allotment at a rate set forth in the District's Fee Schedule, as may be amended from time to time. Surcharge fees are assessed as a penalty and deterrent for over usage by customers.

13. Rate Differential Charge. Effective November 1, 2015, the District no longer accepts water transfers.

14. The District's current Plant Investment Surcharge is shown in Table No. 4 included in **Exhibit C** of this Letter. Plant Investment Surcharge will be assessed when an account's year to date usage exceeds the Plant Investment Allotment. The transfer of additional water will **not** remove this charge. Additional Plant Investment Units must be purchased to increase the allotment and reduce the Plant Investment Surcharges. These rates are in addition to the standard monthly usage fee.

15. The District has reviewed the Developer's Water Tap Request Application. Based on the information provided in the application, the District's review included, but was not limited to, engineering review, field inspections, fire flow analysis, hydraulic modeling, identification of offsite infrastructure improvement needs, preliminary pipe sizing, and/or developing a preliminary line extension layout and fee estimate. **If offsite infrastructure or a line extension is deemed necessary to serve the Developer's property, the Developer is required to submit to the District for further Plan Review or Design Approval prior to installation or service being provided by the District. Please reference the Process for Obtaining Water Service workflow diagram for details on the Plan Review or Design scope of services.** It is important to note that all crossing agreements, easements or other outside third-party contracts require full execution prior to any construction or water service being provided. It is imperative that the Developer allow ample time for the Plan Review or Design Approval process prior to requiring water service.

16. Developer is subject to the Backflow Prevention and Cross Connection Control Regulation, which may be amended from time to time. A copy of the Backflow Prevention and Cross Connection Control Regulation can be obtained from the District Manager.

The District hopes this Letter provides the necessary information to facilitate progress in meeting the requirements needed to secure water for the above described property. Should you have any questions or concerns, please contact the District.

Sincerely,

_____ _____
Date

Title: _____, Board of Directors

North Weld County Water District

(Acknowledgement and Agreement by Developer follows.)

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646
P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997
WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

Acknowledgement and Agreement by Developer

The Developer hereby acknowledges and agrees to the terms of this Letter of Intent, including its obligation to dedicate water in relation to the Property. The Developer acknowledges and agrees that it shall be solely responsible for any claims that may be brought in the future by subsequent owners of the Property or portion of the Property in regards to Developer's failure to make an appropriate water dedication prior to selling all or a portion of the Property.

The Developer, its successors and assigns, hereby agrees to defend, indemnify and hold harmless the District and each of its directors, officers, contractors, employees, agents and consultants (collectively, the "District Indemnitees"), from and against any and all claims, demands, losses, liabilities, actions, lawsuits, damages, and expenses (the "Claims"), including reasonable legal expenses and attorneys' fees actually incurred, by the District Indemnitees arising directly or indirectly, in whole or in part, out of the errors or omissions, negligence, willful misconduct, or any criminal or tortious act or omission of the Developer or any of its subcontractors, officers, agents or employees, in connection with this Letter of Intent and/or the Developer's obligation to appropriately dedicate water prior to selling all or a portion of the Property. In the event the Developer fails to assume the defense of any Claims required in this paragraph within fifteen (15) days after notice from the District of the existence of such Claim, the District may assume the defense of the Claim with counsel of its own selection, and the Developer will pay all reasonable expenses of such counsel.

Kristopher Jorgensen

_____

_____
Date

Janette Jorgensen

_____

_____
Date

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646
P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997
WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

EXHIBIT A

Lot B of Recorded Exemption No. 1307-09-2 RE-5115, recorded August 17, 2011 at Reception No. 3786688, being a part of the West Half of Section 23, Township 7 North, Range 66 West of the 6th P.M., County of Weld, State of Colorado.

(Street Address: 38590~ CR 33, Eaton, CO)

Weld County Parcel Number: 070723300002

EXHIBIT B

NORTH WELD COUNTY WATER DISTRICT

AMENDED AND RESTATED WATER DEDICATION POLICY

I. Water Dedication Requirements

A. Projects in which the District has an executed Water Services Agreement with Owner/Developer as of September 13, 2020.

i. Development Requiring Less than 5-Acre Feet of Water. Any owner or developer of real property who has an executed Water Service Agreement with the District as of September 13, 2020, and who is requesting water taps requiring less than five (5) acre feet of water for a development project, whether on one (1) or more separate lots, tracts or parcels, shall, at its election, either (i) pay to the District a cash payment in lieu of dedication of raw water in accordance with the then applicable cash-in-lieu payment schedule adopted by the District from time to time or (ii) transfer acceptable raw water rights to the District in satisfaction of the raw water requirements for such development project.

ii. Development Requiring 5-Acre Feet or More. Any owner or developer of real property, whether acting alone or through one (1) or more Affiliates, who has an executed Water Service Agreement with the District as of September 13, 2020, and who is requesting water taps requiring five (5) acre feet or more of water for a development property, whether on one (1) or more separate lots, tracts or parcels, shall, at its election, either (i) transfer acceptable raw water rights to the District in satisfaction of the raw water requirements for such development project or (ii) transfer acceptable water rights to the District in satisfaction of seventy percent (70%) of the raw water requirements for such development project and pay to the District a cash payment in lieu of dedication of raw water in satisfaction of the remaining thirty percent (30%) of the raw water requirements in accordance with the then applicable cash-in-lieu payment schedule adopted by the District from time to time. For purposes of this Resolution, the term "Affiliate" shall mean any individual or entity that directly or indirectly through one (1) or more intermediaries controls or is controlled by or is under common control with another specified individual or entity.

iii. Cash-in-Lieu Payment Rate. The cash-in-lieu payment rate to be charged by the District in lieu of dedication of raw water shall be Fifty-Eight Thousand

Dollars ($58,000.00) per Colorado-Big Thompson (C-BT) unit until further modified by the Board of Directors.

B. Projects in which a Water Service Agreement between the Owner/Developer and District was not executed as of September 13, 2020.

i. Raw Water Dedication. The owner or developer shall transfer acceptable raw water rights to the District in satisfaction of one-hundred percent (100%) of the raw water requirements for such development project. The District will not accept cash payments in lieu of such raw water dedication. Notwithstanding the foregoing, owners or developers purchasing a single tap from the District may make a cash-in-lieu payment to the District in lieu of making a raw water dedication, which cash-in-lieu payment shall be in accordance with the then applicable cash-in-lieu payment schedule adopted by the District, as may be amended from time to time. The foregoing exception to dedication of one-hundred percent (100%) of the raw water requirements for single tap purchases is not available for recorded exemptions approved by a County. In the event a recorded exemption is approved by a County, owners and/or developers of such divided and exempted properties are not eligible to purchase single taps from the District, and, therefore, are required to transfer the required raw water rights to the District in satisfaction of one-hundred percent (100%) of the raw water rights requirements as set forth in this paragraph.

ii. Phased Approach. Dedication of raw water rights may be in a phased approach to be agreed upon in writing by the District and the owner or developer, and which shall be memorialized in a Water Services Agreement between the District and the owner or developer. No water taps for any phase of development shall be issued until the agreed upon raw water dedication has been made for the applicable phase of development.

C. **Developers/Owners subject to Paragraph I.A Requirements May Opt-in to Paragraph I.B Requirements.** Developers and owners subject to the raw water and cash-in-lieu dedication requirements set forth in paragraph I.A, above, may opt to be subject to the requirements set forth in paragraph I.B by submitting a written request to the District and entering into an amended Water Services Agreement with the District setting forth the new dedication requirements. Any District costs associated with the amendment to the existing Water Services Agreement shall be paid in full by the developer or owner.

II. General Requirements for all Water Rights Dedications

A. Water Rights Acceptable to District. Only those water rights determined to be acceptable by the District shall be eligible for use in satisfying the District's raw water requirements. Conversion factors for such raw water rights and the determination of the amount of water available for allocation from such raw water rights shall be within the sole discretion of the Board of Directors.

B. Transfer of Water Rights. Water rights dedicated to the District and assigned for use to a subdivision or other real property shall not thereafter be re-assigned to another subdivision or other real property without the prior written authorization of the District, which authorization shall be within the sole and absolute discretion of the Board of Directors. All water rights dedicated to the District shall be owned by the District and the person or entity dedicating such water rights to the District shall have no further ownership interest in the raw water rights.

C. Costs and Expenses of Water Dedication. All costs and expenses to dedicate water rights to the District to satisfy the raw water requirements of the District shall be paid by the person or entity required to dedicate the water rights to the District. All costs and expenses necessary to change such water rights so that they can be diverted and used by the District for potable and non-potable water use shall be paid by the person or entity required to dedicate the water rights to the District, or his, her or its successor in interest, by payment of all required Water Court transfer fees.

D. Overlapping Municipalities with Higher Water Dedication Requirements. Notwithstanding anything in this Amended and Restated Water Dedication Policy to the contrary, if a municipality overlapping with the District or the District's Service Area, as may be defined in any agreement between the District and the overlapping municipality, requires a higher amount of water dedication under its water dedication policies and/or under a water service agreement between the municipality and the District, then the owner/developer shall be required to dedicate such higher amount to the District.

III. Under Dedicated Commercial Customer Dedication Requirements

Non-residential or wholesale water meter users ("Commercial Customers") determined by the District to have not previously dedicated water resources sufficient to meet their current usage ("Under Dedicated Commercial Users") shall be allowed to dedicate additional water resources to the District in an amount equal to the difference between the amount of water resources already dedicated to the District and fifty percent (50%) of the Commercial Customer's "Calculated Maximum Annual Volume" (defined below).

Calculated Maximum Annual Volume is calculated as the most recent five (5) year average of the Commercial Customer's maximum annual usage, minus ten percent (10%).

In general, a Commercial Meter is classified as a water tap with an allocation of more than four (4) acre-feet of water.

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646
P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997
WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

EXHIBIT C

Table No. 1 – Tap Options and Requirements

	Raw Water	Plant Investment	Distance Fee	Meter Set Fee		Water Allocation (Annually)	Plant Investment Allocation (Annually)
Full Standard Tap	100%	100%	100%	100%		228,000 Gallons	228,000 Gallons
Restrictions		Lot Size greater than 0.33 Acres (14,375 sq. ft)					
75% Tap	75%	100%	100%	100%		171,000 Gallons	171,000 Gallons
Restrictions		Lot sizes greater than 0.20 acres (8,712 sq. ft) but less than 0.33 Acres (14,375 sq. ft) OR landowners with adequate, verifiable irrigation rights or well permits for outside water use					
50% Tap	50%	100%	100%	100%		114,000 Gallons	114,000 Gallons
Restrictions		Lot size less than 0.20 acres (8,712 sq. ft) OR with a Board Approved Irrigation System OR a Board Approved Commercial Enterprise					
A tap may be allotted more than 1 unit of Water and/or Plant Investment. In this case the allotment is the unit/class X 228,000 gallons = Annual Allocation. (i.e. Water Allocation 5 x 228,000 = 1,140,000 gallons Annual Allocation) Surcharge will be assessed when an account's year to date usage exceeds the Water and/or Plant Investment Allotment. See Paragraph 14 and Table 4 for Rates.							

Table No. 2 – District Tap Fees

TAP FEES (Assumed for Full Standard Tap)		**INSTALLATION COST**
Raw Water for One Acre-Foot Unit (AFU) Effective 01/01/2023. Fee may change at Board Meeting each month. See nwcwd.org for current information.	$73,500	Meter Set Fee Per Tap $11,100
Base Portion of Plant Investment Fee	$21,900	
Distance Portion of Plant Investment Fee (10 miles)	$5,000	
TOTAL Up-Front COSTS PER TAP	**$111,500 Full Standard Tap**	
See Table 1 for Options and/or Restrictions. Cost will exclude Line Reimbursement Fee & Supplemental Fee if applicable unless otherwise stated. See Paragraph 15 for Details		
Price is valid for ten (10) business days from receiving this Letter.		
Minimum Pressure	35 psi	
Normal Pressure Range	60 psi to 70 psi	
Maximum Pressure	115 psi	

Table No. 3 – Usage Rates and Fees

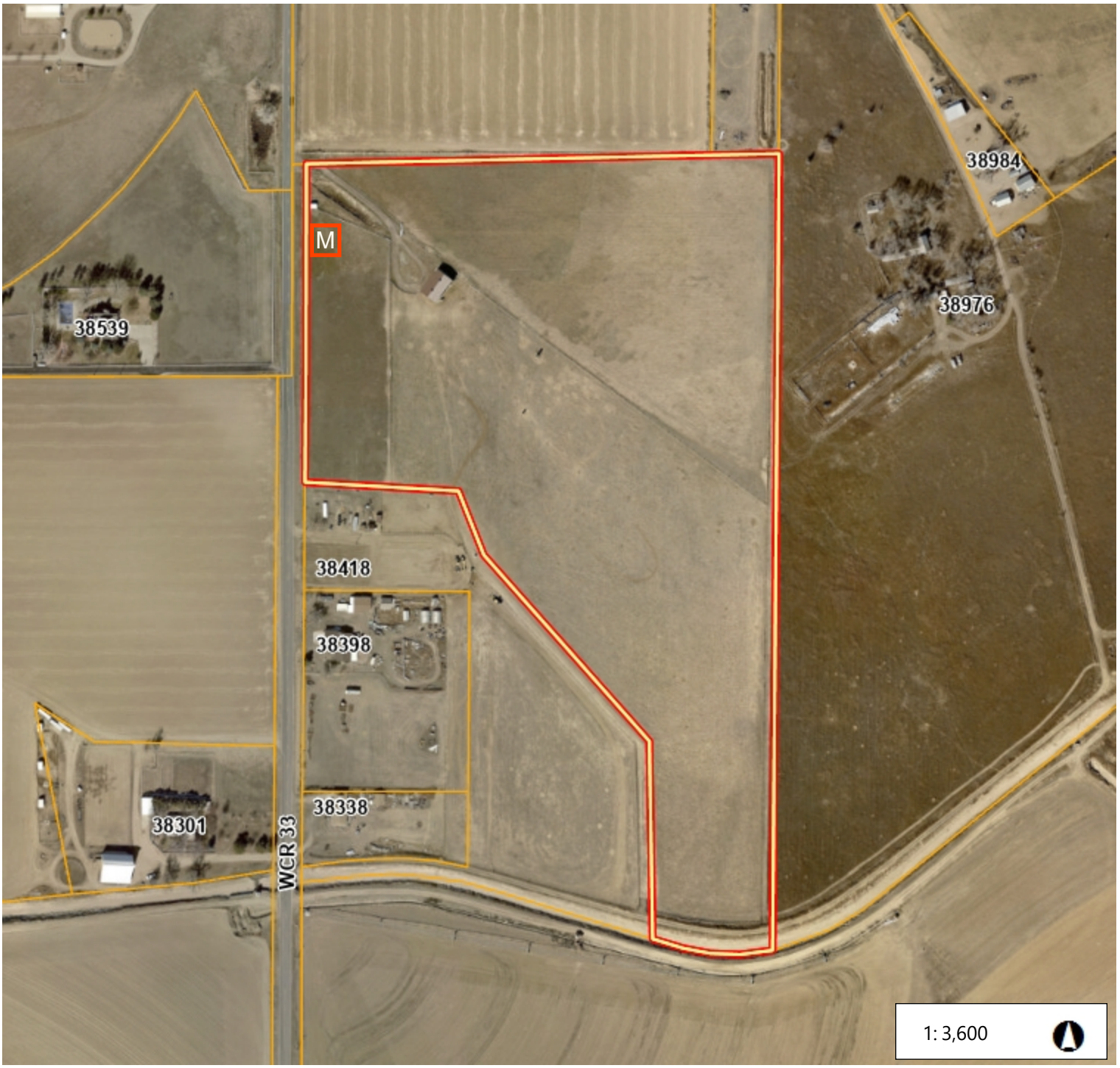
Usage Amount	Charge or Rate Per Month
0 to 6,000 gallons	$28.50 Minimum
6,000 gallons and up	$4.75 per 1,000 gallons (Kgal)

Table No. 4 – Plant Investment Surcharge Rates

All usage exceeding the Plant Investment Allotment	$4.50 per 1,000 gallons (Kgal)

WELD COUNTY ONLINE MAPPING

Kristopher & Janette Jorgensen, 38590~ CR 33 EXHIBIT D



Legend

- Parcels
- Highway
- County Boundary

North Weld County Water District water service is available, according to the terms of this letter, to:

Lot B RE-5115, also known as 38590~ CR 33.

600.0 0 300.00 600.0 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere

Stantec Consulting Services Inc.
3325 South Timberline Road
2nd Floor
Fort Collins CO 80525-3681

August 21, 2024

Project/File: North Weld County Water District Regional Master Plan

Eric Reckentine
North Weld County Water District
32825 Co Rd 39
Lucerne, CO 80646

Dear Eric Reckentine,

Reference: Regional Master Plan - Amendment

We are writing to request a budget amendment for the Regional Water Master Plan contract. The scope for the Future System Evaluation portion of the Master Plan included expanding the hydraulic model for planning years 2030 and 2040. Based on discussions with the District, four growth scenarios were created for each model year as shown below:

Scenario 1A: Model additional flow to towns and assume 90% of tap sales to market area

Scenario 1B: No additional flow to towns and assume 90% of tap sales to market area

Scenario 2A: Model additional flow to towns and assume 80% of tap sales to market area

Scenario 2B: No additional flow to towns and assume 80% of tap sales to market area

A separate demand set was created for the maximum day demand (MDD) and peak hour demand (PHD) scenarios in the model for a total of eight scenarios. Future piping and valves were added to include projects currently in design. Stantec coordinated with the consultant working on the master plan for ELCO to get information regarding their future demands. Several meetings were held to obtain this information. Future ELCO demands and connections were represented in the model based on information available at the time of this analysis. System evaluations were performed under PHD conditions. Finally, storage and pumping capacity evaluations were performed for both planning years.

The District requested Stantec to present the findings of this analysis to the Board on July 8, 2024. In addition, the District has requested a formal technical memorandum (TM) describing the analysis and results of the Future System Evaluation. This TM was not budgeted in the original scope of the project and the effort to complete it is the subject of this amendment request.

A TM will be prepared to document the future system model development, growth scenarios, and system evaluation results. Model results will be exported for each scenario and presented as maps showing system-wide pressure and headloss gradient for both planning years. Stantec will identify improvements based on model results. Improvement projects will fall into two categories: 1) Those related to capacity problems within the existing water distribution system and those needed to serve known developments 2) Projects required only if additional tap sales occur in non-market areas.

The requested fee for this work is $5,750.00

In addition to the TM, we are requesting additional budget for the project management portion of this project. This project began in September 2022, with an assumed duration of one year. It is anticipated that the project will complete in December 2024.

Stantec Consulting Services Inc.
3325 South Timberline Road
2nd Floor
Fort Collins CO 80525-3681

An additional budget of $4,850.00 for hours needed for project team coordination, client meetings, progress reporting, and general project management is requested.

The total budget request for this amendment is $10,600 bringing the total contract amount to $214,990.00.

Total Fees this Amendment		*$ 10,600.00*
Original Agreement Amount		$ 144,190.00
Amendment Number	1	$ 15,200.00
Amendment Number	2	$ 45,000.00
Amendment Number		
Total Agreement		$ 214,990

Stantec Consulting Services Inc.	**North Weld County Water District**
Lisa Fardal, PE, PMP Senior Project Manager	Tad Stout, President
Print Name and Title	Print Name and Title
Lisa Fardal	
Signature	Signature
Date Signed: 8/22/2024	Date Signed:

Stantec Consulting Services Inc.
3325 South Timberline Road
2nd Floor
Fort Collins CO 80525-3681

Task #	Task	Fee Budgeted (labor only)	Additional Fee Requested	Total for Subtask
400.3	Generation and Allocation of Water Demands	$2,455	$16,850.00	$19,305.00
400.4	Field Testing	$4,280	$6,150.00	$10,430.00
400.6	Model Calibration	$7,933	$11,100.00	$19,033.00
600.1	Future System Evaluation	$4,057	$10,900.00	$14,957.00
	Total	**$18,725**	**$45,000.00**	**$63,725.00**

We appreciate your understanding and cooperation in this matter. We believe that these additional tasks were necessary to ensure the quality and accuracy of the project deliverables. Please sign below if you agree with the above amendment. We hope that you are satisfied with our work and we look forward to hearing from you soon.

Best regards,

STANTEC CONSULTING SERVICES INC.

Lisa Fardal

_____

Date: _____

NORTH WELD COUNTY WATER DISTRICT

_____

Date: _____

Lisa Fardal PE, PMP
Project Manager
Phone: (970) 212-2773
Mobile: (970) 231-5538
lisa.fardal@stantec.com

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

September 3, 2024

TKD Land & Cattle, LLC
10643 Echo Road
Clarendon, TX 79226

and/or

Saddler Ridge Southern
9200 East Mineral Avenue #365
Centennial, CO 80112

Liberty Savings Bank, F.S.B.
2251 Rombach Avenue
Wilmington, OH 45177

cc:
Saddler Ridge Metropolitan District
c/o White Bear Ankele Tanaka & Waldron
2154 E. Commons Avenue, Suite 2000
Centennial, Colorado 80122

RE: Will Serve Letter - Tracts 7, 8, 9 and 10 as More Particularly Described in Exhibit A and Exhibit B

Dear Board of Directors of Saddler Ridge Metropolitan District and Builders and Developers of the Property,

North Weld County Water District (the "**District**") has the capacity to serve "Tracts 7 and 8 a/k/a as "Saddler South" and a/k/a "Saddler Southern" and "Tracts 9 and 10 a/k/a as "Saddler Villas" as more particularly described in **Exhibit A** and **Exhibit B**, both attached hereto and made a part hereof by this reference, and collectively identified within this Will Serve Letter as the "**Property**". The Property's potable water demand consists of indoor domestic water use and fire flow demand, which will be provided by the District.

In order for the District to provide water service to the Property within the Saddler Ridge Metropolitan District development, the District's development review process must be completed to the satisfaction of the District. The following items must be completed, in addition to all other applicable requirements under the District's development review process:

- Submit revised Utility Report, Construction Plans, Landscape Plans and Final Plats for the Property
  - The Construction Plans must show the integration of the required 12" water main, per the letter dated June 28, 2024 by Stantec Consulting Services Inc.
  - All fire hydrants must connect to the potable water system.
- Submit Non-Potable Study & Plans

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

- The connections to the District's existing non-potable system must be shown with a Master Meter. Separate Master Meters will be required, one (1) for "Tracts 7 and 8 a/k/a as Saddler South a/k/a Saddler Southern "and one (1) for "Tracts 9 and 10 a/k/a as Saddler Villas".
- The District's review of the Non-Potable Study & Plans will determine if the existing Saddler Non-Potable Pump Station is adequate to serve the additional non-potable demand, or whether pump station upgrades will be required.
- A separate non-potable system agreement is required

If all of the District's requirements, including but not limited to the requirements set forth above, have not been satisfied and completed within one year (i.e., 365 days) following the date of this letter, the District may revoke this letter regarding the availability of capacity to provide water service to the Property., if the District's requirements have not been satisfied, the District shall have the right to utilize such available capacity for the benefit of other projects. The District may allow for time extension at the District's sole discretion.

When the above referenced requirements are met, the District will serve the Property with potable water which includes indoor domestic water and fire flow demand. This letter is intended to be a conditional will-serve letter to allow the Saddler Ridge Metropolitan District and/or its developer(s) and/or builder(s) to pursue local planning and zoning efforts while completing the required development of design documents that are to be submitted to the District.

North Weld County Water District

By: _____

Eric Reckentine, District Manager

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

EXHIBIT A – THE PROPERTY – LEGAL DESCRIPTIONS

Tract 7: SEV SP TRACT 7 SADDLER PUD a/k/a Saddler South and/or Saddler Southern a/k/a Parcel Number 070509401081 with a property address (as of July 25, 2024) of 2885 Saddler Blvd, Severance, Colorado. This is a/k/a Saddler South; Saddler Southern.

Tract 8: SEV SP TRACT 8 SADDLER PUD a/k/a Saddler South and/or Saddler Southern a/k/; Parcel Number 070509301082 with a property address (as of July 25, 2024) of 2892 Saddler Blvd, Severance, Colorado. This is a/k/a Saddler South; Saddler Southern.

Tract 9: SEV SP TRACT 9 SADDLER PUD a/k/a Saddler Villas; a/k/a Parcel Number 070509301083 with a property address (as of July 25, 2024) of 2896 Saddler Blvd, Severance, Colorado. This is a/k/a Saddler Villas

Tract 10: SEV SP TRACT 10 SADDLER PUD a/k/a Saddler Villas; a/k/a Parcel Number 070509301084 with a property address (as of July 25, 2024) of 2904 Saddler Blvd, Severance Colorado. This is a/k/a Saddler Villas

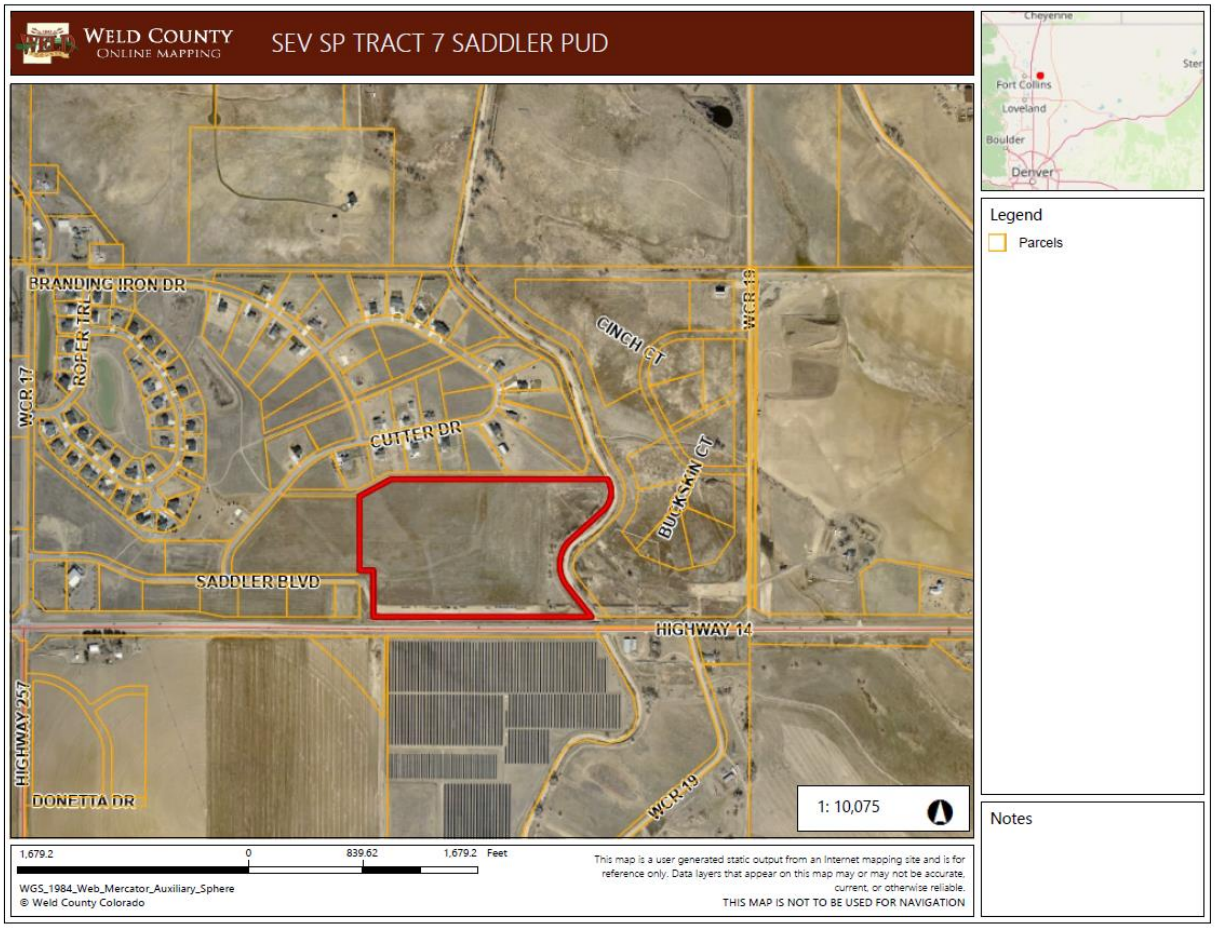
NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

EXHIBIT B – THE PROPERTY – MAPS OF THE PROPERTY

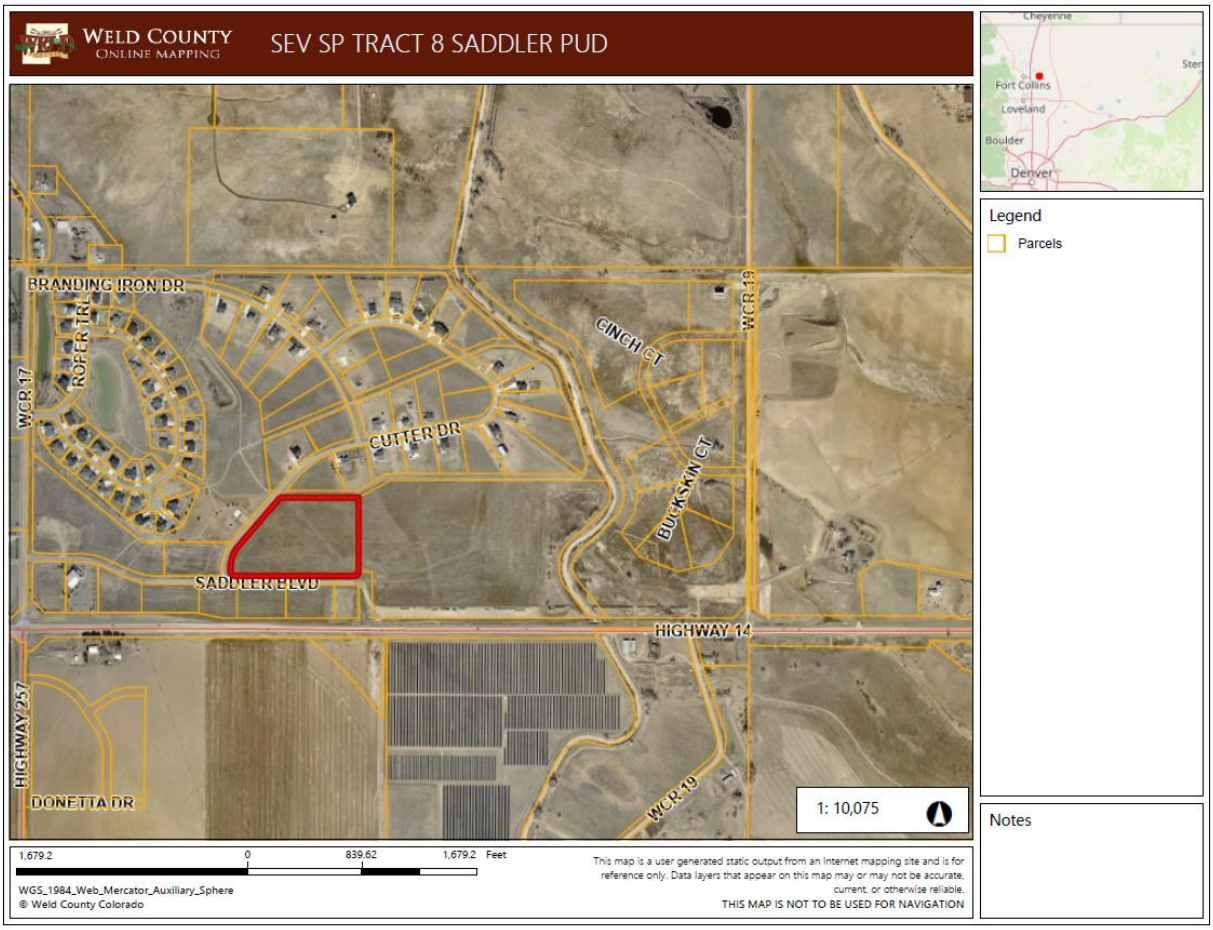


NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

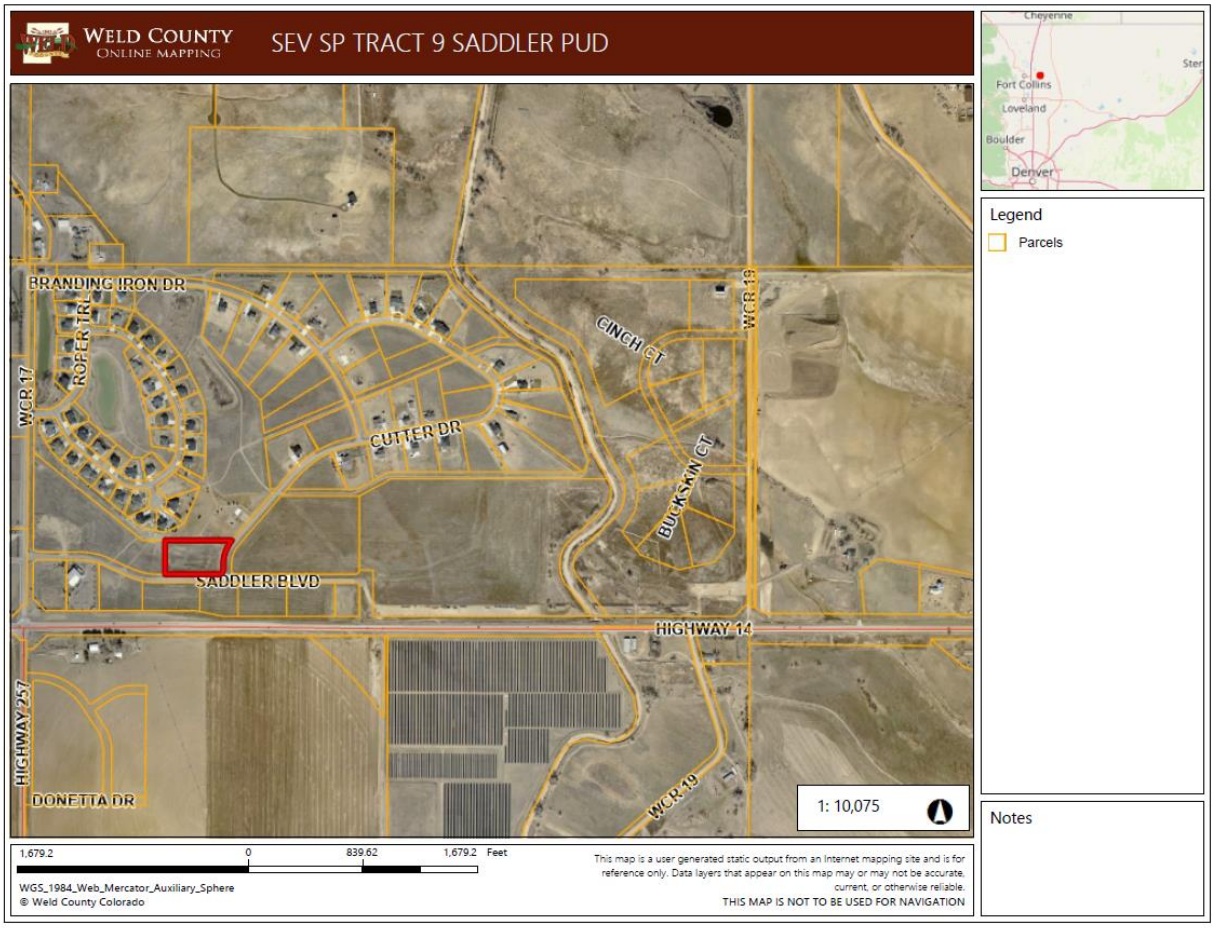


NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

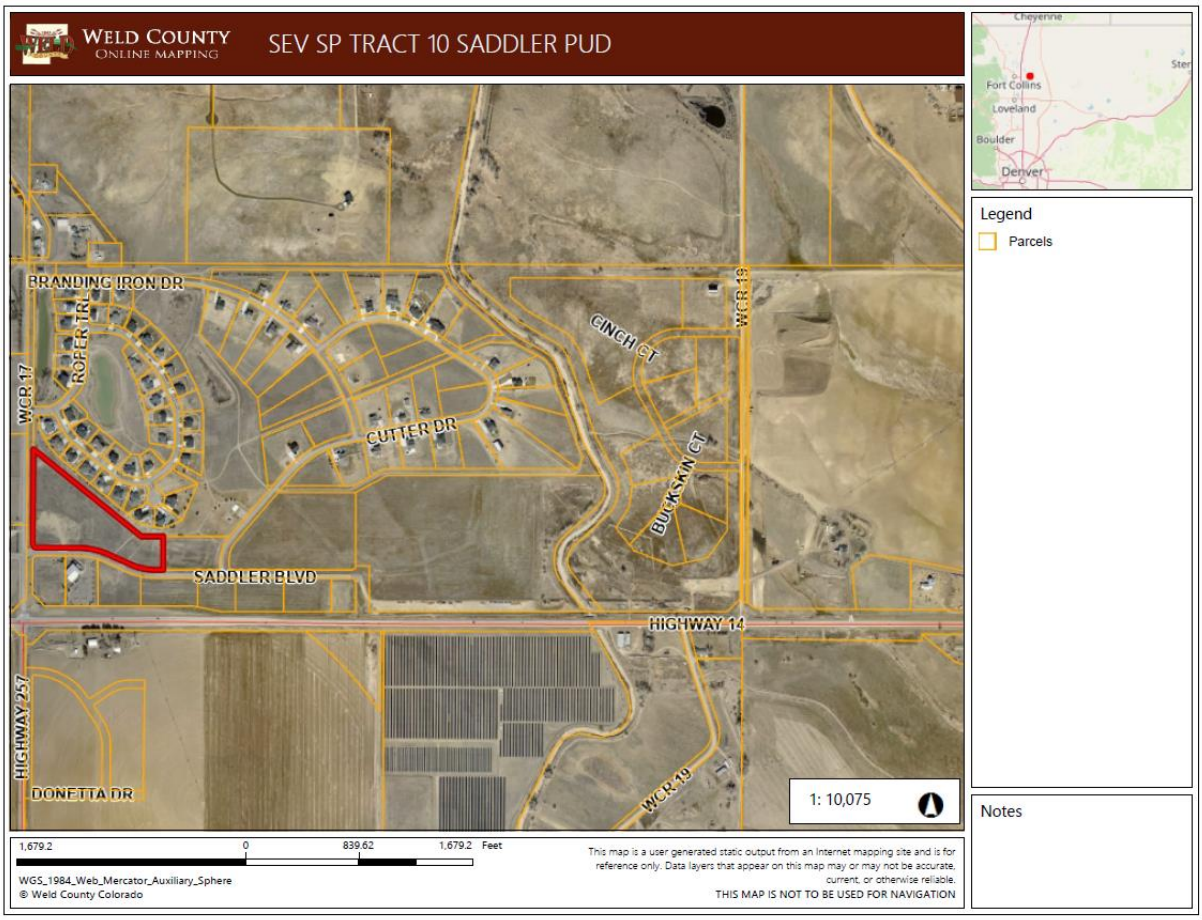


NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG



NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

September 3, 2024

Mr. Brian Hood
Managing Director
Real Estate Services
Colorado State University Research Foundation
2537 Research Blvd.
Fort Collins, CO 80526

RE: 2024 Rental of C-BT Carryover Capacity

Dear Brian,

North Weld County Water District (North Weld) appreciates the opportunity to rent C-BT Carryover Capacity from CSURF again in 2024. CSURF will transfer 317 acre-feet of C-BT Carryover Capacity to North Weld prior to October 20, 2024. As we previously agreed, the rental rate will be the same as the irrigation C-BT assessment set by Northern Water. For consideration, North Weld will pay CSURF a rental fee of $33.80 per acre-foot of C-BT Carryover Capacity for a total of **$10,714.60**.

If you have questions, please contact Richard Raines at (970) 218-2738 or *rraines@scwtp.org*.

Sincerely,

Eric Reckentine
District Manager
North Weld County Water District

RESOLUTION
OF THE BOARD OF DIRECTORS OF
NORTH WELD COUNTY WATER DISTRICT

ADOPTING A DIGITAL ACCESSIBILITY POLICY AND DESIGNATING A COMPLIANCE OFFICER

WHEREAS, the North Weld County Water District (the "**District**") is a quasi-municipal corporation and political subdivision of the State of Colorado; and

WHEREAS, pursuant to § 32-1-1001(1)(h), C.R.S., the Board of Directors of the District (the "**Board**") is empowered with the management, control, and supervision of all the business and affairs of the District; and

WHEREAS, pursuant to § 24-85-103(2.5), C.R.S., the Chief Information Officer in the Office of Information Technology has adopted accessibility standards as specified in 8 CCR 1501-11 Rules Establishing Technology Accessibility Standards (the "**Rules**"); and

WHEREAS, pursuant to § 24-85-103(3), C.R.S., on or before July 1, 2024, the District is required to take action to comply with the Rules; and

WHEREAS, the Board desires to adopt this Resolution to implement a digital accessibility policy and designate a compliance officer.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE DISTRICT AS FOLLOWS:

1. Adoption of Digital Accessibility Policy. The District hereby adopts the Digital Accessibility Policy (the "**Digital Accessibility Policy**") set forth in **Exhibit A**, attached hereto and incorporated herein.

2. Appointment of Compliance Officer. The District hereby designates the District Manager as the District's Compliance Officer (the "**Compliance Officer**").

3. Severability. If any part, section, subsection, sentence, clause, or phrase of this Joint Resolution is for any reason held to be invalid, such invalidity shall not affect the validity of the remaining provisions.

4. Effective Date. This Resolution shall become effective as of September 3, 2024 shall be enforced immediately thereafter and shall supersede any previous policy related to website accessibility.

5. Ratification of Past Action. The Board hereby ratifies any actions taken in the furtherance of the District's business related to website accessibility by legal counsel from the January 1, 2024, through the date of this resolution.

Remainder of Page Intentionally Left Blank, Signature Page Follows

ADOPTED SEPTEMBER 3, 2024

DISTRICTS:

NORTH WELD COUNTY WATER DISTRICT, a quasi-municipal corporations and political subdivisions of the State of Colorado

By: _____
Officer of the District

ATTEST:

_____

APPROVED AS TO FORM:

WHITE BEAR ANKELE TANAKA & WALDRON
Attorneys at Law

_____
General Counsel to the District

Signature Page to Resolution Adopting a Digital Accessibility Policy and Designating a Compliance Officer

EXHIBIT A

DIGITAL ACCESSIBILITY POLICY

1. GENERAL

a. *Purpose*. The District is fully committed to providing accessible digital information to all members of the public. As part of this commitment, the District has adopted this Digital Accessibility Policy (the "**Policy**") to ensure the District's online services and digital communications comply with the Rules.

b. *Scope*. The District is committed to providing persons with disabilities equal access to digital information, including information made available through the District's website and other digital content. This Policy has been developed to promote equal access to such digital information to persons with disabilities. This Policy applies to digital content produced by or under the control of the District, including the District's official website. Accessibility requests may be submitted to the District in accordance with this Policy.

c. *Third Party Content*. The provisions of this Policy do not apply to third-party websites linked through the District's website, such as state or federal agencies, or digital content not under control of the District. While the District is not responsible for ensuring the accessibility of third party-controlled content, the District is dedicated to assisting individuals experiencing accessibility issues when possible.

2. COMPLIANCE INFORMATION

a. *Compliance Officer*. The Compliance Officer will be the point of contact for accessibility-related accommodations for digital content. The Compliance Officer or its designee is responsible for responding to reports of inaccessible digital content and accessibility requests.

b. *Testing Tools and Techniques*. The District utilizes a variety of tools, techniques, methods, and procedures to identify accessibility barriers and meet existing and new assistive technology needs. The District has engaged Streamline (the "**Accessibility Vendor**") to complete testing and remediation, ensuring the website and digital content contained therein are accessible and inclusive for users with disabilities in accordance with the Rules.

c. *Accessibility Reports*. The Accessibility Vendor will review the District's website, user interfaces, and other digital content and summarize the same in a report provided to the District no less than annually (the "**Accessibility Report**"). The Accessibility Report will identify digital content that does not comply with the Rules. The Accessibility Vendor or the District, as appropriate, will take such steps as necessary to make such content compliant under the Rules. The District will maintain a record of the Accessibility Reports.

d. *District-Controlled Content*. The District will ensure that digital content under the control of the District produced, developed, maintained, modified, or used by the District on or after July 1, 2024, is compliant with the Rules.

e. *Digital Accessibility Plan*. The District will implement a digital accessibility plan (the "**Plan**") to provide a long-term strategic approach for digital accessibility. The Plan will be updated annually thereafter to ensure ongoing compliance. If applicable, a progress-to-date report will be posted to the District's website quarterly for the period July 1, 2024 through June 30, 2025. The Plan will be in a form substantially similar to **Exhibit A-1** attached hereto.

f. *Digital Accessibility Statement*. The District will post the following digital accessibility statement on its website prior to July 1, 2024:

> North Weld County Water District, District Technology Accessibility Statement
>
> North Weld County Water District (the "**District**") is committed to providing equitable access to our services to all Coloradans.
>
> Our ongoing accessibility effort works towards being in line with the Web Content Accessibility Guidelines (WCAG) version 2.1, level AA criteria. These guidelines not only help make technology accessible to users with sensory, cognitive and mobility disabilities, but ultimately to all users, regardless of ability.
>
> Our efforts are just part of a meaningful change in making the District's services inclusive and accessible. We welcome comments on how to improve our technology's accessibility for users with disabilities and for requests for accommodations to any District services.
>
> **Feedback and support**
>
> We welcome your feedback about the accessibility of the District's online services. Please let us know if you encounter accessibility barriers. The District is committed to responding within three (3) business days.
>
> Phone: (303) 858-1800
>
> E-mail: shawnavw@nwcwd.org
>
> Address: North Weld County Water District
> Attn: Shawna Van Wyhe, Compliance Officer
> PO Box 56
> Lucerne Colorado, 80646

3. REPORTING ACCESSIBILITY ISSUES

a. *Reporting an Accessibility Issue*. Individuals may report inaccessible content or requests for accommodations to the Compliance Officer using the contact information below. Such requests should identify the specific content that is being reported, the issue the individual is experiencing, and the name and contact information of the individual submitting the request. The Compliance Officer or their designee will confirm receipt of such requests within three (3) business days. The District is committed to resolving reports of inaccessible content and requests for accommodations within a reasonable period of time.

North Weld County Water District
Attn: Shawna Van Wyhe, Compliance Officer
PO Box 56
Lucerne, Colorado 80646
Email: shawnavw@nwcwd.org
Phone: (970) 356-3020

EXHIBIT A-1

NORTH WELD COUNTY WATER DISTRICT

Digital Accessibility Plan
Updated on September 3, 2024

I. Accessibility Standards

In accordance with Colorado law, North Weld County Water District (the "**District**") is committed to applying standard configurations for technologies and services, in accordance with the technical standards provided by:

- World Wide Web Consortium (W3C) Web Content Accessibility Guidelines (WCAG) 2.1 Level AA or higher;
- Section 508 of the U.S. Rehabilitation Act of 1973 Chapters 3,4,6; and
- Following C.R.S. 24-85-101 to 24-85-104, ARTICLE 85.

II. The District's Efforts

The District is fully committed to providing accessible digital information to all members of the public. Our ongoing accessibility effort works towards the day when the District's online services and digital communications are accessible to the public, including equal access for persons with disabilities. The District has a plan to prioritize, evaluate, remediate, and continuously improve its online services and digital communications. Below, you'll find some of the measures that the District is undertaking.

III. Accessibility Maturity

The District is at the following maturity level for 2024:

Check One:

☐ Inactive: No awareness and recognition of need. At this stage organizations are inventorying their technology, have begun to make investments, etc.

☐ Launch: Recognized need organization-wide. Planning initiated, but activities not well organized.

☒ Integrate: Roadmap including timeline is in place, overall organizational approach defined and well organized.

☐ Optimize: Incorporated into the whole organization, consistently evaluated, and actions taken on assessment outcomes.

IV. Maturity Level Discussion

The District has encountered the following challenges: ensuring that all documents on the District's website are remediated and accessible.

The District has enjoyed the following successes: developing an accessibility plan in order to ensure non-accessible documents are remediated and completing of a new website.

- The District has made progress towards full compliance with WCAG 2.1 Level AA despite the challenges above. The organizational measures below detail the District's measures taken up to the date of this plan.

V. Organizational Measures

The District has taken the following measures:

- Posted an accessibility statement to the website.
- Posted the current progress-to-date quarterly report and contact information for receiving accessibility feedback and requests for reasonable accommodations and modifications to the website.
- Identified a Compliance Officer to respond to reasonable accommodation and modification requests.
- Validated through testing front-facing webpage compliance with WCAG 2.1 Level AA.
- Created and implemented a plan for providing reasonable accommodations and modifications until the technology can be made accessible.

The District has designated its Compliance Officer to coordinate and implement the plan. The District's Compliance Officer's contact information is as follows:

North Weld County Water District
Attn: Shawna Van Wyhe, Compliance Officer
PO Box 56
Lucerne, Colorado 80646
Email: shawnavw@nwcwd.org
Phone: (970) 356-3020

Lead Service Line Replacement Plan

Submit Online: wqcdcompliance.com/login **(preferred)** or via fax: (303) 758-1398 or mail:
WQCD-B2-Drinking Water CAS
4300 Cherry Creek Drive South
Denver, CO 80246-1530

Applicability: All public water systems with one or more lead, galvanized requiring replacement, or lead status unknown service lines in their distribution system must complete and submit a lead service line replacement plan to the Department by October 16, 2024.

Public Water System Information

PWSID: CO 0162553	System Name: North Weld County Water District	
Contact Person:	Phone: 970-356-3020	Email: ericr@nwcwd.org

Eric Reckentine

*System Authorized Signature | Printed Name | Date

*Signature not required if submitted online.

Please submit additional relevant information or supporting documentation for the sections below with this form, if applicable.

Section 1: Strategy for Determining Unknown Service Lines

Describe the strategy the water system will use to determine the composition of any service lines of unknown material in the service line inventory. For example, describe verification methods and a stepwise approach that the system will use to verify unknown service lines as well as a proposed timeline for identifying all unknown service lines in the inventory.

Section 2: Procedures to Conduct Full Lead Service Line Replacement

Describe the water system's procedure(s) for conducting full lead service line replacements. An example procedure could include: who will conduct the replacements, replacement material(s) to be used, the water system's authority to access private property for service line replacement purposes, and how the system will handle customer-initiated replacements or coordinate replacements with planned infrastructure work.

Section 3: Strategy for Informing Customers of Service Line Replacement

For example, describe the distribution method(s) the water system will use to notify customers before and after service line replacement.

Section 4: Recommended Replacement Goal Rate (for systems >10,000)

Water systems serving more than 10,000 persons must recommend a lead service line replacement goal rate in the event the 90th percentile is above the lead trigger level of 10 ppb, but below the lead action level of 15 ppb. The replacement rate must be applied to all known lead and galvanized requiring replacement service lines when the system first exceeds the trigger level plus the number of lead status unknown service lines in the beginning of each year of a system's goal-based lead service line replacement program. If your system serves fewer than 10,000, write N/A below.

Section 5: Procedures for Customers to Flush Particulate Lead

For example, list the steps the system will provide to customers to flush service lines and premise plumbing of particulate lead following a lead service line replacement or disturbance, and describe the method(s) the system will use to notify customers of flushing procedures.

Section 6: Prioritization Strategy for Lead Service Line Replacement

Describe how the water system will prioritize lead service line replacement in the service area based on factors including, but not limited to, targeting of known lead service lines, lead service line replacement for disadvantaged consumers, and targeting populations most sensitive to lead. For example, the water system may discuss their strategy for identifying disadvantaged consumers and areas with populations most sensitive to lead (e.g. schools and child care facilities).

Section 7: Funding Strategy for Conducting Lead Service Line Replacements

Describe how the water system will fund lead service line replacements in the service area and how the system will accommodate customers that are unable to pay for or replace the portion of service line they own. For example, include a cost estimate for utility-owned service line replacements as well as cost for replacement or reimbursement of the customer-owner service lines, and discuss whether rate adjustments are necessary to fund customer-owned service line replacements.

Section 8: Identification of Supply Source for Pitcher Filters or Point-of-Use Devices (optional)

Identify the water system's planned supply source for pitcher filters or point-of-use devices, including six months of replacement cartridges to be provided to consumers following a partial or full lead service line replacement or disturbance of a known lead service line.

Service Line Material Notification Guidance and FAQs

GENERAL REQUIREMENTS

Under the Lead and Copper Rule Revisions, water systems are required to notify consumers of their service line material if it is determined to be lead, galvanized requiring replacement, or lead status unknown. No notification is required if the entire service line is non-lead (e.g., copper or plastic).

WHO MUST BE NOTIFIED?

Water systems must provide notification to all consumers supplied by a service line classified as the following:

- Any portion of the service line is known to be **lead** (excluding lead goosenecks or pigtails).
- The service line is known to be galvanized currently or previously downstream of a lead service line (**galvanized requiring replacement**).
- Any portion of the service line material is **unknown**.

NOTIFICATION TEMPLATES

Service line material notification templates are available on the Department's website:

- Lead service line notification for consumers with a known lead service line. *Note: Use the GRR notification template for galvanized **currently** downstream from a lead service line.*
- Galvanized requiring replacement (GRR) notification for consumers with a galvanized service line **currently or previously** downstream from a lead service line.
- Unknown service line notification for consumers where all or a portion of the service line is unknown.
- Lead **and** Unknown service line notification for consumers with one portion of the service line that is lead and the other portion is unknown.

Systems must fill in the required information highlighted in yellow on the draft templates before sending to consumers.

Water systems are encouraged to use the templates as a starting point and to customize the notification with their letterhead and a cover letter. Water systems should communicate accurately and openly about system-specific conditions to better represent their efforts related to the service line inventory and replacement.

WHAT MUST BE INCLUDED IN THE NOTIFICATION?

Water systems are encouraged to use the Department-generated service line material notification templates to ensure the notification has all required information. The material notifications **must have all of the following information**:

- A statement indicating the material type(s) of the service line.
- An explanation of the health effects of lead that meets the requirements of 11.17(8)(b)(i)(B), Regulation 11.
- A list of steps consumers can take to reduce exposure to lead in drinking water.
- For consumers with unknown service lines, information about opportunities to verify the material of the service line.
- For consumers with lead and/or GRR service lines:
    - Information about opportunities for replacement of the service line.

    - Information on financing solutions to assist the property owner with replacement of their portion of lead or GRR service line. *Note: The water system is not required to pay for replacement of the customer's portion of the service line. The water system must consider ways to accommodate customers that are unable to pay to replace the portion they own.*
- For consumers with lead service lines where service line ownership is shared, a statement that the water system is required to replace their portion of the lead service line when the property owner notifies them that they are replacing their portion.
- Contact information for the water system.

Systems are encouraged to include the following information in the material notification:

- A description and/or diagram of service line ownership within the water system.
- Where/how the consumer can access a copy of the water system's service line inventory. Systems serving greater than 50,000 people must make their service line inventory publicly available online.
- How the consumer can notify the water system if they disagree with the material classification.

WHAT ARE THE DISTRIBUTION REQUIREMENTS?

Initial Notification

The water system must provide an initial notice to consumers with a lead, GRR, or unknown service line as soon as possible after identification as lead, GRR, or unknown, but no later than **November 15, 2024**.

Annual Notification

The water system must **repeat notification annually by December 31** until the entire service line is no longer a lead, GRR, or unknown. For new customers, the water system must also distribute the notification at the time of service initiation if the service line is lead, GRR, or unknown.

Delivery Method

Community water systems must distribute the notice to consumers by mail, hand delivery, or another Department-approved method. The notification may be delivered along with a mailed or hand-delivered Consumer Confidence Report, billing statement, or newsletter.

Non-transient, non-community systems must provide the notice by mail, hand delivery, or by posting in conspicuous locations. If the water system is a school or child care facility, the notice should also be provided to parents or guardians.

STEPS AFTER DISTRIBUTION

For the initial material notification, the water system must submit one sample copy of each type of notice distributed (lead, GRR, or unknown) **and** a certificate of delivery form to the Department by **July 1, 2025**.

Water systems conducting ongoing annual notifications of service line material must submit representative copies of the notifications and a certificate of delivery form no later than **July 1** of each year for notices distributed during the previous calendar year.

FREQUENTLY ASKED QUESTIONS (FAQS)

1) **An individual service line has multiple materials. Which notification template do I use?**

1st Portion (e.g., main to curb stop)	2nd Portion (e.g., curb stop to home)	Notification Template
Lead	Lead	Lead
Lead	GRR	GRR
Lead	Non-lead	Lead
Lead	Unknown	Lead/Unknown
Non-lead	Lead	Lead
Non-lead	Unknown	Unknown
Non-lead, unable to demonstrate never lead	Galvanized	GRR
Non-lead, was lead previously	Galvanized	GRR
Unknown	Lead	Lead/Unknown
Unknown	GRR	Unknown
Unknown	Non-lead	Unknown
Unknown	Unknown	Unknown
Non-lead	Non-lead	Notification not required

2) **Do consumers with confirmed non-lead service lines need to be notified?** No, consumers with service lines determined to be all non-lead do not need to be notified of their service line material.

3) **If ownership is split, do we have to notify consumers of the system-owned and customer-owned material?** Yes, the consumer must be notified if any portion of the service line is lead, galvanized requiring replacement, or unknown, regardless of ownership.

4) **Can the material notification be emailed?** No, email cannot be used as the primary distribution method. Email may be used as a secondary distribution method in addition to mailing or hand delivering the notice.

5) **Do the property owner *and* occupants need to be notified, if different?** The water system must distribute the notification to consumers supplied at the service connection with a lead, GRR, or unknown service line. The water system is encouraged to provide the notification to the property owner as well, if the property owner and occupant are different.

6) **Can we use our own service line material notification form?** Yes, water systems may use their own service line material notification as long as it contains all of the applicable required information as specified in 11.17(2)(c)(i), Regulation 11. In addition to the required information, water systems are encouraged to include information in each notice about service line ownership within the water system, where the consumer can access a copy of the water system's service line inventory, and how the consumer can notify the water system if they disagree with the material classification.

7) **Do non-transient, non-community (NTNC) systems need to notify consumers of service line material?** Yes, NTNC systems must notify consumers of the service line material if the service line is determined to be lead, GRR, or unknown. NTNC systems may post the notification in a conspicuous location(s) for consumers to view. If the NTNC system is a school or child care facility, the system is encouraged to provide the notification to the student's parents or guardians as well.

8) **What if an unknown service line is confirmed to be lead after providing the material notification? Is the lead service line material notification required? When?** If an unknown service line is later determined to be lead or GRR, the consumer must be provided with an updated service line material notification. The consumer should be notified as soon as

possible upon discovery of the material, but no later than the date by which the next annual notification is due.

9) **Do we need to notify consumers with a lead pigtail or gooseneck?** No, at this time systems are not required to notify consumers of a lead pigtail or gooseneck.

10) **When must ongoing annual material notifications be distributed to consumers?** The annual notifications must be redistributed every year by December 31. Representative copies of the notifications and a certificate of delivery form must be submitted to the Department by no later than July 1st of each year for service line notifications delivered the previous calendar year.

11) **Are we required to notify consumers of their service line material annually if they have declined replacement of their portion of service line?** Yes, the water system must continue to notify consumers annually of their service line material until the entire service line is non-lead. This includes consumers who already declined to have their portion of lead or GRR service line replaced. While ongoing notice may be viewed as a potential annoyance by some consumers, it reinforces the importance of reducing lead exposure from drinking water.

12) **We are required to provide information in the notice about financing solutions to assist property owners with replacement of their portion of a lead service line. Are we required to pay for replacement of the customer-owned lead service line?** Water systems are encouraged, but not required, to pay for replacement of the customer-owned portion of service line. Payment assistance is the water system's responsibility. Water systems can apply for funding that can be used for replacement of system-owned and customer-owned lead and GRR service lines. Paying for replacement of the customer's service line can increase participation in replacement programs as well. Some systems may set up a robust program for financing solutions while others may steer customers to a local bank for the possibility of a personal loan.

13) **Can we remove the service line diagram from the notification template?** Yes, systems may remove or replace the service line diagram included in the notification templates.

14) **How can we stay on top of notifying new customers of their service line material upon service initiation?** Water systems are encouraged to develop an internal SOP or checklist for service initiation for new customers that includes referencing the service line material at the service address. Water systems can also develop a new customer letter that includes the service line material notification in addition to information on how to read and pay the water bill and access other resources. If the service line is all non-lead, the new customer does not need to be notified of their service line material.

DRAFT

NOTICE OF POSSIBLE LEAD SERVICE LINE MATERIAL

Water System Name: North Weld County Water District
Public Water System ID: CO 0162553
Site Address: 32825 CR 39
PO Box 56 Lucerne, CO 80646

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

New state and federal laws require us to inventory all water service lines in our service area. A service line is the underground pipe that carries water from the water main, likely in the street, into your home or building. We are required to notify consumers annually if their service line material is unknown.

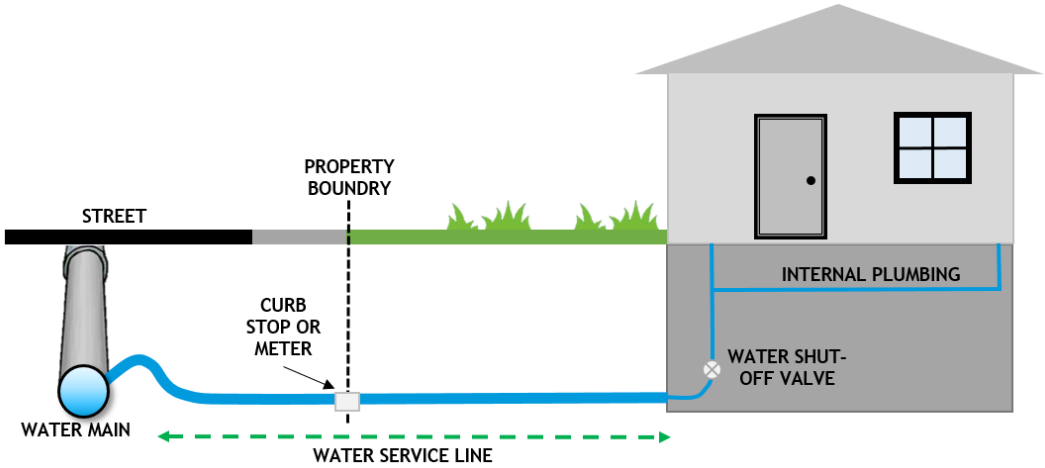


Figure 1. Typical water service line configuration of a water service line connecting the water main in the street to the interior plumbing of a home.

Our records indicate that all or a portion of your water service line material is unknown, but could be made of lead. [Describe service line ownership and material of both portions of the service line, if applicable].

What does this mean? What is being done?

- **We need to determine the material of your water service line to ensure safe drinking water.** Please contact us to confirm the material of your service line. It is important and easy to do. If you are unsure how to locate your service line or identify the material, we can assist you. [970-356-3020, water@nwcwd.org].
- [Discuss specific opportunities to verify the material of the service line].
- **If your water service line contains lead, we will contact you to discuss replacement options.** Water systems are required to replace all system-owned lead service lines. Property owners are encouraged to replace their portion of the service line if it is made of lead. We are required to replace our portion of lead service line when the property owner notifies us they are replacing their portion of lead service line. If you are planning to replace your lead service line, contact us at 970-356-3020 prior to replacement so that we can coordinate our efforts.

Health Effects of Lead:

- Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

What can I do to reduce exposure to lead in drinking water?

In addition to your service line, plumbing or faucets in your home may contain lead and could increase lead levels in your drinking water. See below for a list of steps you can take to minimize lead in your water:

1. **Run your water to flush out lead**. If it hasn't been used for several hours, run the cold water tap until the temperature is noticeably colder. This flushes lead-containing water from the pipes. To conserve water, remember to catch the flushed tap water for plants or some other household use (e.g. cleaning).
2. **Always use cold water for drinking, cooking, and preparing baby formula**. Never cook with or drink water from the hot water tap. Never use water from the hot water tap to make formula.
3. **Do not boil water to remove lead**. Boiling water will not reduce lead.
4. **You may consider investing in a home water treatment device or alternative water source**. When purchasing a water treatment device, make sure it is certified under Standard 53 by NSF International to remove lead. Contact NSF at 1-800-NSF-8010 or visit the NSF website. You may also visit the Water Quality Association's website.
5. **Get your child's blood tested**. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure**.**
6. For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website or contact your health care provider.

For more information about this notice, contact us at:

- Phone:970-356-3020
- Email: water@nwcwd.org

DRAFT

NOTICE OF GALVANIZED REQUIRING REPLACEMENT SERVICE LINE MATERIAL

Water System Name: North Weld County Water District
Public Water System ID: CO 0162553
Site Address: 32825 CR 39
PO Box 56 Lucerne, CO 80646

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

New state and federal laws require us to inventory all water service lines in our service area. A service line is the underground pipe that carries water from the water main, likely in the street, into your home or building. We are required to notify consumers annually if they have a galvanized iron or steel service line that is currently or was previously connected to a lead service line. These are referred to as "galvanized requiring replacement" service lines.

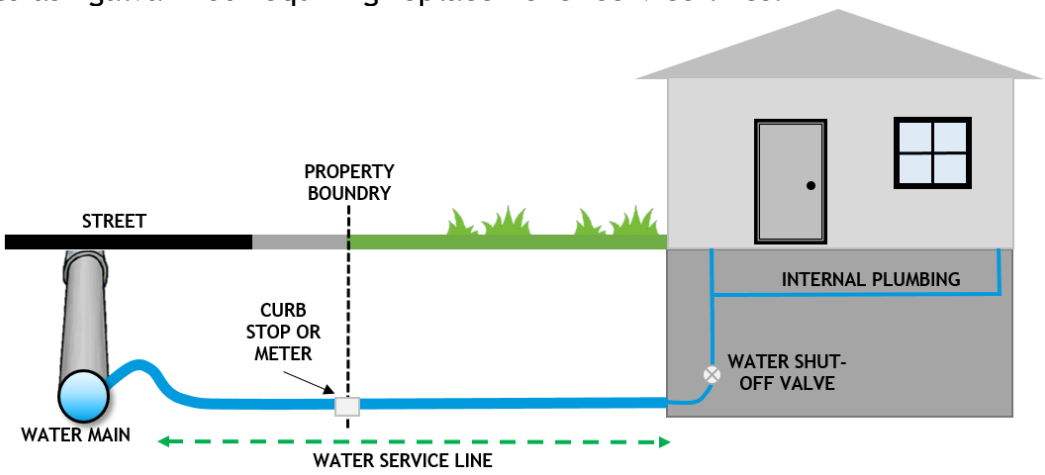


Figure 1. Typical water service line configuration of a water service line connecting the water main in the street to the interior plumbing of a home.

Our records indicate that your water service line is galvanized requiring replacement. [Describe service line ownership and material of both portions of the service line]. If you believe your service line material is incorrectly categorized, please contact us to assist with material verification.

What does this mean? What is being done?

- Galvanized service lines that are or were downstream from a lead service line can adsorb lead. This lead can be released into drinking water over time. Lead exposure can result in adverse health effects to humans. Replacement of lead and galvanized requiring replacement service lines can help reduce lead exposure in drinking water.
- **Water systems are required to replace all system-owned lead service lines. Property owners are encouraged to replace their portion of galvanized service line if it is or was connected to a lead service line.** We are required to replace our portion of lead service line when the property owner notifies us they are replacing their galvanized requiring

replacement service line. If you are planning to replace your service line, contact us at 970-356-3020 prior to replacement so that we can coordinate our efforts.

- [Discuss opportunities for service line replacement and financing solutions to assist with replacement of the customer's portion of lead service line, if applicable].

Health Effects of Lead:

- Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

What can I do to reduce exposure to lead in drinking water?

In addition to replacing your galvanized requiring replacement service line, see below for a list of steps you can take to minimize lead in your water:

1. **Run your water to flush out lead**. If it hasn't been used for several hours, run the cold water tap until the temperature is noticeably colder. This flushes lead-containing water from the pipes. To conserve water, remember to catch the flushed tap water for plants or some other household use (e.g. cleaning).
2. **Always use cold water for drinking, cooking, and preparing baby formula**. Never cook with or drink water from the hot water tap. Never use water from the hot water tap to make formula.
3. **Do not boil water to remove lead**. Boiling water will not reduce lead.
4. **You may consider investing in a home water treatment device or alternative water source**. When purchasing a water treatment device, make sure it is certified under Standard 53 by NSF International to remove lead. Contact NSF at 1-800-NSF-8010 or visit the NSF website. You may also visit the Water Quality Association's website.
5. **Get your child's blood tested**. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure.
6. For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website or contact your health care provider.

For more information about this notice, contact us at:

- Phone:970-356-3020
- Email: water@nwcwd.org

***DRAFT FOR CLIENT REVIEW* - REQUEST FOR PROPOSAL**
LEAD AND COPPER REVISED RULE WATER SERVICE LINE INVESTIGATION ASSISTANCE
NORTH WELD COUNTY WATER DISTRICT, COLORADO

North Weld County Water District (NWCWD) is requesting a cost proposal to assist with Lead and Copper Revised Rule water service line survey activities. NWCWD has approximately 6,000 active water meters on file, with approximately 2,000 water meters pre-dating the January 31, 1988 lead ban in Colorado.

NWCWD has been gathering water service line material data throughout the District by reviewing existing meter records. NWCWD would like to perform potholing activities to identify water service line materials on both the Owner (NWCWD) side of the water meter and the customer side of the water meter.

1. Kinetic Industry Scope

A. Review NWCWD-provided GIS mapping to identify inspection locations.

B. Identify permitting needs required to complete potholing activities in proposed project areas. Permitting needs include, but are not limited to, items such as right-of-way (ROW), traffic control, and flood zone permitting.

C. Coordinate with NWCWD to provide property owner notification prior to beginning potholing activities.

D. Develop a sequencing plan to pothole priority (pre-1988) water service line locations first.

E. Perform utility locate requests (i.e., 811) prior to beginning potholing activities.

F. Perform potholing activities to identify water service line material on both Owner (NWCWD) side of water meter and customer side of water meter.

G. Use United States Environmental Protection Agency (USEPA) and Colorado Department of Environmental Health (CDPHE) approved methods to identify and document service line materials.

H. Document all water service line potholes (Owner and customer side) using a NWCWD-approved pothole log.

   1) Pothole logs shall include photographs, measurements, identification methods, service line material, soil conditions, etc.

I. Map pothole locations with GPS to incorporate into NWCWD's GIS database.

J. Notify NWCWD immediately if any water service line(s) material appears to be galvanized needing replacement or lead.

K. Submit pothole log documentation to NWCWD on a weekly basis.

L. Restore potholes and all resulting surface disturbance to pre-potholing conditions once potholing activities are complete.

M. **Deliverables**

   1) Provide copies of approved permits.

   2) Provide pothole log template for NWCWD review and comment.

   3) Provide completed pothole log for each Owner-side water service line material pothole and each customer-side water service line material pothole.

N. **Assumptions**

1) Approximately 2,000 water meters pre-date the January 31, 1988 lead ban in Colorado.
    a. 4,000 water service line potholes are estimated (2,000 on Owner side and 2,000 on customer side).
2) It is Kinetic Industry's responsibility to identify all required permitting for various entities (i.e., Weld County, Towns/Cities/ NWCWD) prior to beginning work. Permitting fees will be reimbursed by NWCWD.
3) Both Owner side and customer side of the water meter will be potholed to determine water service line material.
4) Cost proposal shall include a per pothole fee, including equipment, labor, and restoration. Estimated permitting fees and expenses shall also be provided.
5) Kinetic Industry shall be responsible for traffic control permitting, scheduling, and implementation around potholing activities, as necessary.
6) Pothole backfill material/surfacing will meet local jurisdiction requirements.

2. District Scope

A. Provide GIS map of areas that include water meters pre-dating January 1988 that are priority inspections.

B. Locate water lines/service lines once utility locates are requested.

C. Assist with permitting, if requested.

D. Assist with property owner notification.

E. Assist with right-of-entry necessary to access private property.

Work Change Directive NO.04

NEWT Phase III Pipeline

Owner:	NWCWD & ELCO	Owner's Project No.:	N/A
Project Manager:	Ditesco	Engineer's Project No.:	N/A
Contractor:	Garney Construction	Contractor's Project No..:	N/A
Contract Name:	NEWT Phase 3 Pipeline	WCD Title:	ELCO 16" Tap at CR3
Contract Date:	12/15/2022	Date Issued:	08/23/2024

Contractor is directed to proceed promptly with the following change(s):

DESCRIPTION

- The contractor shall perform all tasks associated with the installation of a new 16" ELCO tap at CR3 (sta. 241+50), in accordance with *Exhibit A*. This tap installation is to abide by the following ELCO-requested constraints:
    - 16" weld-on outlet with 16" isolation gasket.
    - Dry type connection (weld-on flanged saddle tap).
    - 16" FL x MJ BFV *(same as CR5 Location, reference NEWT 3 Drawings, Details, and Specifications).*
    - FL x MJ to have tapped MJ cap (*same as CR1 Location*, *reference NEWT 3 Drawings, Details, and Specifications).*
    - All mechanical joints are to have mechanical restraint.
    - Reference attached Exhibit A, B for additional details.

ATTACHMENTS

- Exhibit A - Garney WCD Response and Cost Estimate
- Exhibit B - ELCO CR3 Tap Plans

PURPOSE FOR THE WORK CHANGE DIRECTIVE

- ELCO has requested the addition of a 16" tap, to the NEWT 3 Pipeline, on the West side of CR3 (sta. 241+50) for a future connection.
- The cost-share of this work will abide by the following break-out: ELCO 100%, NWCWD 0%.

ESTIMATED CHANGE IN CONTRACT PRICE AND CONTRACT TIMES (NON-BINDING, PRELIMINARY)

Contract Price:	**$ 15,304.45**	☒ Increase	☐ Decrease	☐ Not Yet Estimated
Contract Time:	**0 Days**	☐ Increase	☐ Decrease	☒ NA

BASIS OF ESTIMATED CHANGE IN CONTRACT PRICE:

☐ Lump Sum	☐ Unit Price	☒ Cost of the Work	☒ 9% Construction Manager's Fee

RECOMMENDED BY ENGINEER

By: Isaiah Surber

Title: Associate Project Manager, Ditesco

Date: 8/23/2024

AUTHORIZED BY OWNER (NWCWD)

By:

Title:

Date:

AUTHORIZED BY OWNER (ELCO)

By:

Title:

Date:

EXHIBIT A
Garney WCD Response and Cost

CHANGE ORDER REQUEST

4

Title: 16" Weld-On Outlet & Butterfly Valve
Project Name: NEWT Pipeline Phase 3
Project Address: 317 North Co Road 5
Fort Collins, CO 80524
COR Date: 07/23/2024
Garney Construction Job Number: 7433
Customer Job Number:
Customer Reference Number: ELCO

Our Information

Garney Construction
1700 Swift Street, Suite 200
North Kansas City, MO 64116
Phone: (816)-746-4100

Customer Information

North Weld County Water District
32825 County Road 39
Lucerne, CO 80646
Phone: (970)-356-3020

Description of Change Order Request

Additional 16" Weld-On outlet, 16" FLGxMJ Butterfly Valve, 16" Isolation Gasket, 16" Tapped MJ Cap, 16" MJ Accessories & 2" MPT Ball Valve on the Redmon Property.

Labor

Description	Qty (HR)	Unit (HR)	Rate (HR)	Total Cost
General Operator	2	ST	$69.00	$138.00
Laborer - 2 @ 4 Hrs Each	8	ST	$56.00	$448.00
Lead Excavator Operator	2	ST	$83.00	$166.00
Superintendent	2	ST	$147.00	$294.00
Hours Subtotals: **ST:** 14			**Total Labor:**	**$1,046.00**

Material

Description	Qty of Material	Unit of Measure	Rate	Total Cost
American SpiralWeld Pipe Co - 16" Outlet	1	EA	$4,300.00	$4,300.00
C&M - 16 FLG INS KIT W/G10 G10 W/E, G10 SLV & WASHER	1	EA	$528.84	$528.84
C&M - 16 A193 B7/194 H2 B&N KIT IMP	1	EA	$173.00	$173.00
C&M - 16 Pratt 250 FLGxMJ	1	EA	$5,315.56	$5,315.56
C&M - 16X2 MJ TAPT CAP C153 IMP	1	EA	$460.90	$460.90
C&M - 16 COR-BLUE MEGALUG ACC KIT L/GLAND-W/3/4"X5" B&N	1	EA	$111.15	$111.15
C&M - 2 SS THRD BALL VLV FIPT	1	EA	$170.73	$170.73
			Total Material:	**$11,060.18**

Equipment

Description	Qty of Equipment	Unit of Measure	Rate	Total Cost
CAT 349 EQUIPMENT COST	2	HOUR	$245.00	$490.00
CAT 349 OPERATING COST	2	HOUR	$106.65	$213.30
JD 624 EQUIPMENT COST	2	HOUR	$88.00	$176.00
JD 624 OPERATING COST	2	HOUR	$35.79	$71.58
			Total Equipment:	**$950.88**

Subcontractor

Company	Contract	Description	Qty of Unit	Unit of Measure	Rate	Total Cost
Absolute Welding & Fabrication	Welding	Hourly Welding	6	HR	$110.00	$660.00
					Total Subcontractor:	**$660.00**

Subtotal		**$13,717.06**
Insurance - 1.36% Total Contract Amount (Subtotal)	1.360%	$186.55
Bond - 1% of Total Contract Amount (Subtotal)	1.000%	$137.17
Total		**$14,040.78**
Construction Manager Fee	9.000%	$1,263.67
Requested Total		**$15,304.45**

Terms & Conditions

Jarrod Weber

From: Foster, Bailey <bfoster@american-usa.com>
Sent: Friday, June 14, 2024 12:24 PM
To: Jarrod Weber
Cc: Jarrod Pacheco
Subject: Re: [EXTERNAL] Re: 16" Outlet

$4300 Ea. Let me know how many and when you need them.

Bailey Foster
Project Manager
C: (205)523.1588
AMERICAN
CAST IRON PIPE COMPANY
THE RIGHT WAY

From: Jarrod Weber <jweber@garney.com>
Sent: Thursday, June 13, 2024 2:08 PM
To: Foster, Bailey <bfoster@american-usa.com>
Cc: Jarrod Pacheco <jarrod.pacheco@garney.com>
Subject: RE: [EXTERNAL] Re: 16" Outlet

Yes & yes

Jarrod Weber
Employee Owner Since 2011
GARNEY CONSTRUCTION *Advancing Water*
Cell: 720.437.0878
ADDRESS: 317 N Co Rd 5, Fort Collins, CO 80524 GARNEY.COM

From: Foster, Bailey <bfoster@american-usa.com>
Sent: Thursday, June 13, 2024 1:00 PM
To: Jarrod Weber <jweber@garney.com>
Cc: Jarrod Pacheco <jarrod.pacheco@garney.com>
Subject: [EXTERNAL] Re: 16" Outlet

To clarify, you want me to find the price of what it would cost for us to send you a ship loose 16" outlet with a class E flange welded on it? Do you want me to include the reinforcement welded onto the outlet?

Bailey Foster

Project Manager
C: (205)523.1588
AMERICAN
CAST IRON PIPE COMPANY
THE RIGHT WAY

From: Jarrod Weber <jweber@garney.com>
Sent: Thursday, June 13, 2024 1:55 PM
To: Foster, Bailey <bfoster@american-usa.com>
Cc: Jarrod Pacheco <jarrod.pacheco@garney.com>
Subject: 16" Outlet

Bailey –

Can you get me a price to add a weld on 16” outlet onto this pipe ? Exactly like the one that is at station 189+70.

Thanks,

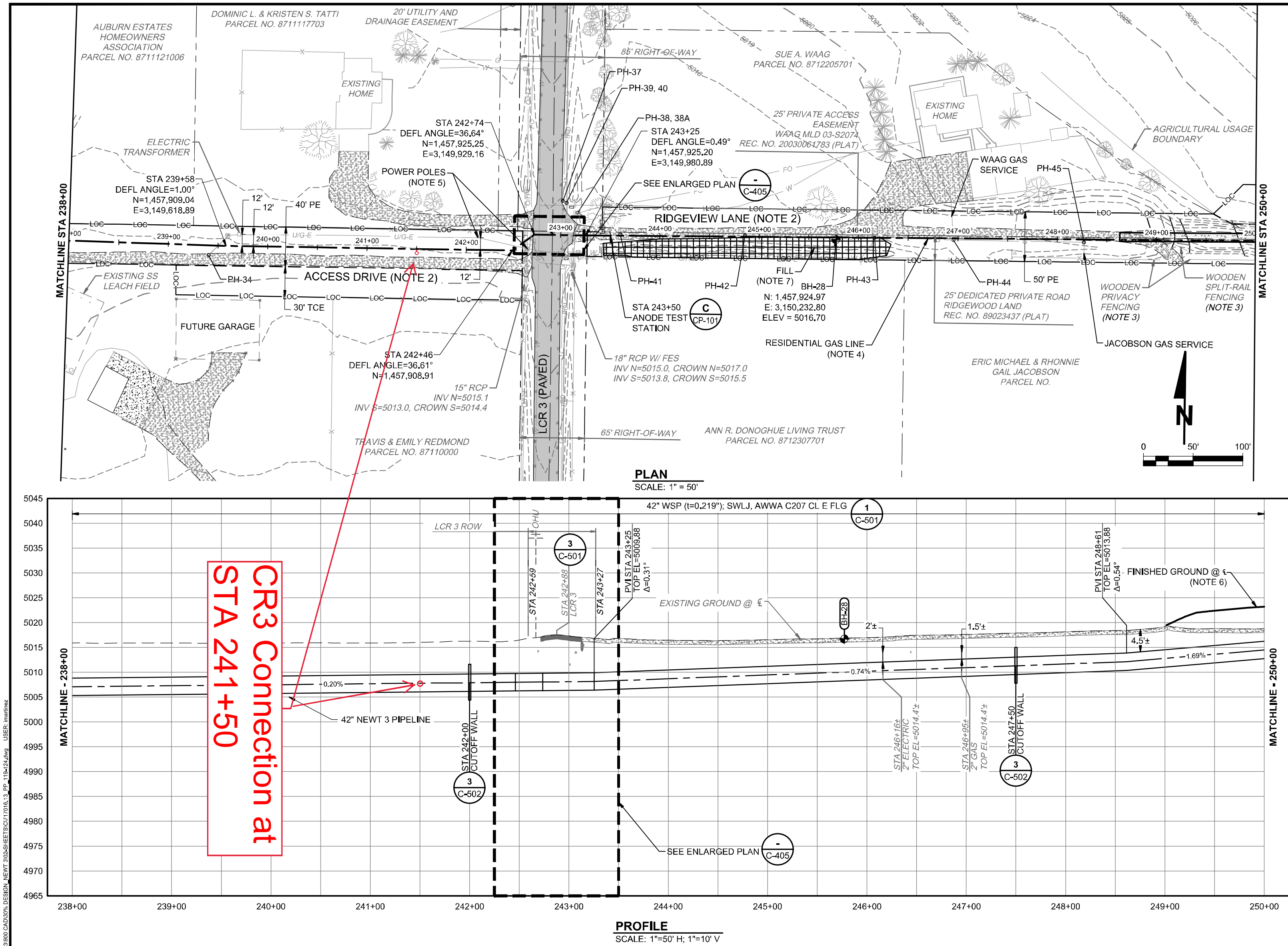
Jarrod Weber
Employee Owner Since 2011
GARNEY CONSTRUCTION *Advancing Water*
Cell: 720.437.0878
ADDRESS: 317 N Co Rd 5, Fort Collins, CO 80524 GARNEY.COM

This e-mail message is intended only for named recipients. It contains information that may be confidential, privileged, or otherwise exempt from disclosure under applicable law. If you have received this message in error, are not a named recipient, or are not the employee or agent responsible for delivering this message to a named recipient, be advised that any review, disclosure, use, dissemination, distribution, or reproduction of this message or its contents is strictly prohibited. Please notify us immediately that you have received this message in error, and delete the message. Thank you. Visit us on the web at http://www.Garney.com
_____Confidentiality Notice_____ This e-mail and any files transmitted with it is confidential and is intended solely for the use of the individual(s) or entity(ies) to whom this e-mail is addressed. If you are not the intended recipient or the person responsible for delivering the e-mail to the intended recipient, be advised that you have received this e-mail in error, and that any use, disclosure,

DESCRIPTION	UNIT COST
16 FLG INS KIT W/G10 G10 W/E, G10 SLV & WASHER	$ 528.84
16" A193 B7/194 H2 B&N KIT IMP	$ 173.00
16" COR-BLUE MEGALUG ACC KIT L/GLAND-W/3/4"X5" B&N	$ 111.15
16X2 MJ TAPT CAP C153 IMP	$ 460.90
2 SS THRD BALL VLV FIPT	$ 170.73

EXHIBIT B
ELCO CR3 Tap Plans

Exhibit 2
CR3 Connection



NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. RESTORE DRIVEWAY ONCE CONSTRUCTION IS COMPLETE. CONTRACTOR TO COORDINATE WITH THE JACOBSONS TO PROVIDE ACCESS TO THEIR RESIDENCE DURING CONSTRUCTION. (4 / C-501)
3. PROTECT IN PLACE PRIVACY FENCE TO THE SOUTH AND REMOVE AND RESET SPLIT RAIL FENCE WITHIN CONSTRUCTION CORRIDOR.
4. PRIOR TO PIPE INSTALLATION, CONTRACTOR TO RELOCATE RESIDENTIAL GAS LINE (WAAG, JACOBSON) TO THE SOUTH ALONG THE LIMITS OF CONSTRUCTION. COORDINATE WITH XCEL ENERGY FOR RELOCATE.
5. POWER POLES ARE LOCATED CLOSE TO THE PIPE INSTALLATION. CONTRACTOR TO COORDINATE WITH PVREA SHOULD TEMPORARY SUPPORT BE NEEDED. CONTRACTOR TO ALSO CONFIRM THAT NO GUY WIRES NEED TO BE TEMPORARILY REMOVED AND RESET.
6. FILL MATERIAL MUST BE PLACED AND PROPERLY COMPACTED TO FINISHED GRADE PRIOR TO INSTALLATION OF PIPELINE.
7. AREA TO BE FILLED WITH ONSITE SPOILS MATERIAL.

CAUTION
OVERHEAD ELECTRIC POWER LINES EXISTING WITHIN THE CONSTRUCTION CORRIDOR.

DATE: Jun 28, 2023 5:07pm
DWG: Z:\Shared\200 Projects\171016.13\900 CAD\90% DESIGN_NEWT 3\02-SHEETS\C\171016.13_PP_119-124.dwg USER: imartinez

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

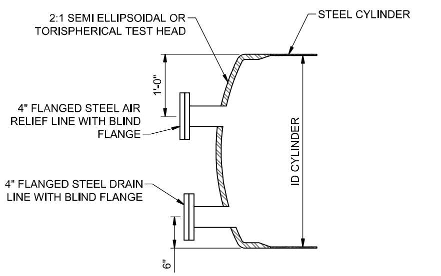
FINAL FOR CONSTRUCTION
JUNE 28, 2023

COLORADO LICENSED PROFESSIONAL ENGINEER DANIEL R. RICE 40797 6/28/23

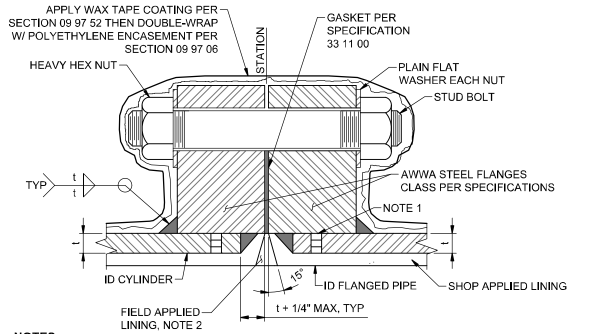
NEWT PIPELINE
PROJECT PHASE 3
WORK PACKAGE NO. 2

PLAN AND PROFILE STA 238+00 TO STA 250+00

PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	28 OF 109
DRAWING:	PP-120



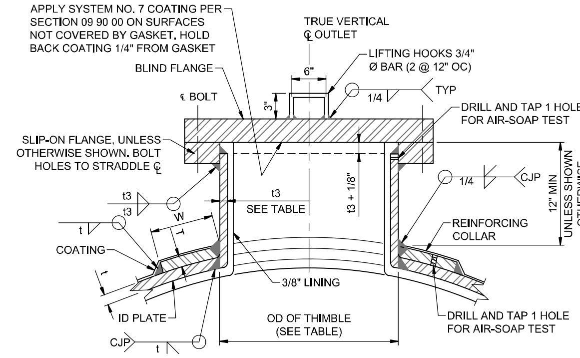
1 - BULKHEAD
SCALE: NTS



NOTES:

1. DRILL & TAP CYLINDER FOR 1/4" AIR TEST HOLE BEFORE WELDING FLANGE. CONTRACTOR SHALL AIR AND SOAP TEST AFTER WELDING IS COMPLETE. PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TEST.
2. APPLY MORTAR AT FLANGES SHOWN. STEEL TROWEL SMOOTH FINISH FLUSH WITH SHOP-APPLIED LINING. OMIT WHERE BOLTING TO FLANGED VALVES.

2 - FLANGES FOR STEEL PIPE
SCALE: NTS



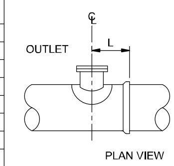
NOTES:

1. COATING FOR RISER IS NOT SHOWN.
2. APPLY SYSTEM NO. 24 PER SECTION 09 90 00 OVER EDGE OF FLANGE AND FLANGE BOLTS.
3. INSTALL OUTLETS AS REQUIRED FOR ACCESS DURING CONSTRUCTION.
4. ALL OUTLETS SHALL BE INSTALLED HORIZONTALLY TO AVOID AIR COLLECTION UNLESS OTHERWISE NOTED.

OUTLET / RISER REINFORCING COLLAR DATA

NOMINAL SIZE	t_3	COLLAR DIMENSIONS		"L" LENGTH
		W	T	
4"	STD	2"	SEE SPECS.	2'-0"
6"	STD	3"		2'-3"
8"	STD	4"		2'-6"
12"	STD	6"		2'-8"
14"	STD	7"		2'-10"
16"	STD	8"		3'-0"
20"	STD	10"		3'-6"
24"	STD	12"		3'-9"
30"	SCH 20	15"		4'-3"

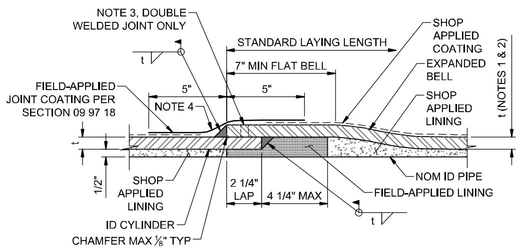
FOR OUTLETS >30"; SEE SECTION 33 11 11 FOR DESIGN REQUIREMENTS.



NOTES:

1. LENGTH "L" IS THE MINIMUM DISTANCE FROM CENTERLINE OF OUTLET TO END OF PIPE.
2. THIMBLE OD AND THICKNESS (t_3) PER ANSI B36.10.

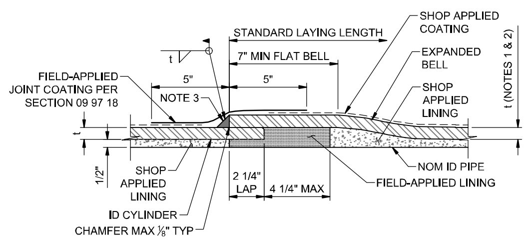
3 - WSP OUTLET DETAIL
SCALE: NTS



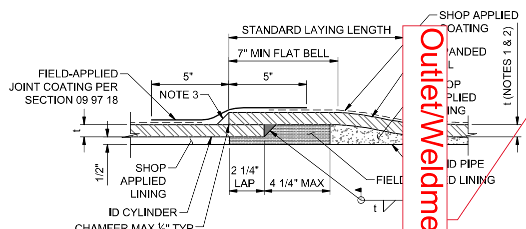
NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED STEEL PIPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WELDED LAP JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STATION WHERE USED.
3. BEFORE WELDING, DRILL AND TAP NUMBER OF HOLES AS NOTED, FOR 1/4" NPT AIR TEST HOLE. AIR AND SOAP TEST AFTER WELDING IS COMPLETED, PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TESTS.
4. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT SHRINK SLEEVE IF USED.

4 - DOUBLE WELDED LAP JOINT
SCALE: NTS



WELD BEFORE BACKFILL

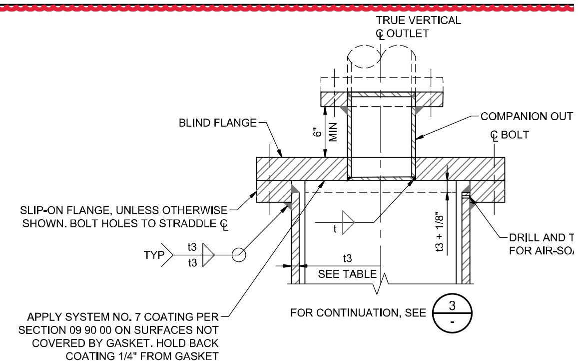


WELD AFTER BACKFILL

NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED STEEL PIPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WELDED LAP JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STATION WHERE USED.
3. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT SHRINK SLEEVE IF USED.

5 - SINGLE WELDED LAP JOINT
SCALE: NTS



6 - WSP COMPANION OUTLET DETAIL
SCALE: NTS

Exhibit 2
CR3 Connection
Outlet/Weldment Design

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

NORTH WELD COUNTY WATER DISTRICT

EAST LARIMER COUNTY WATER DISTRICT (ELCO)

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

FINAL FOR CONSTRUCTION
JUNE 28, 2023

COLORADO LICENSED DANIEL R. RICE 40797 PROFESSIONAL ENGINEER 6/28/23

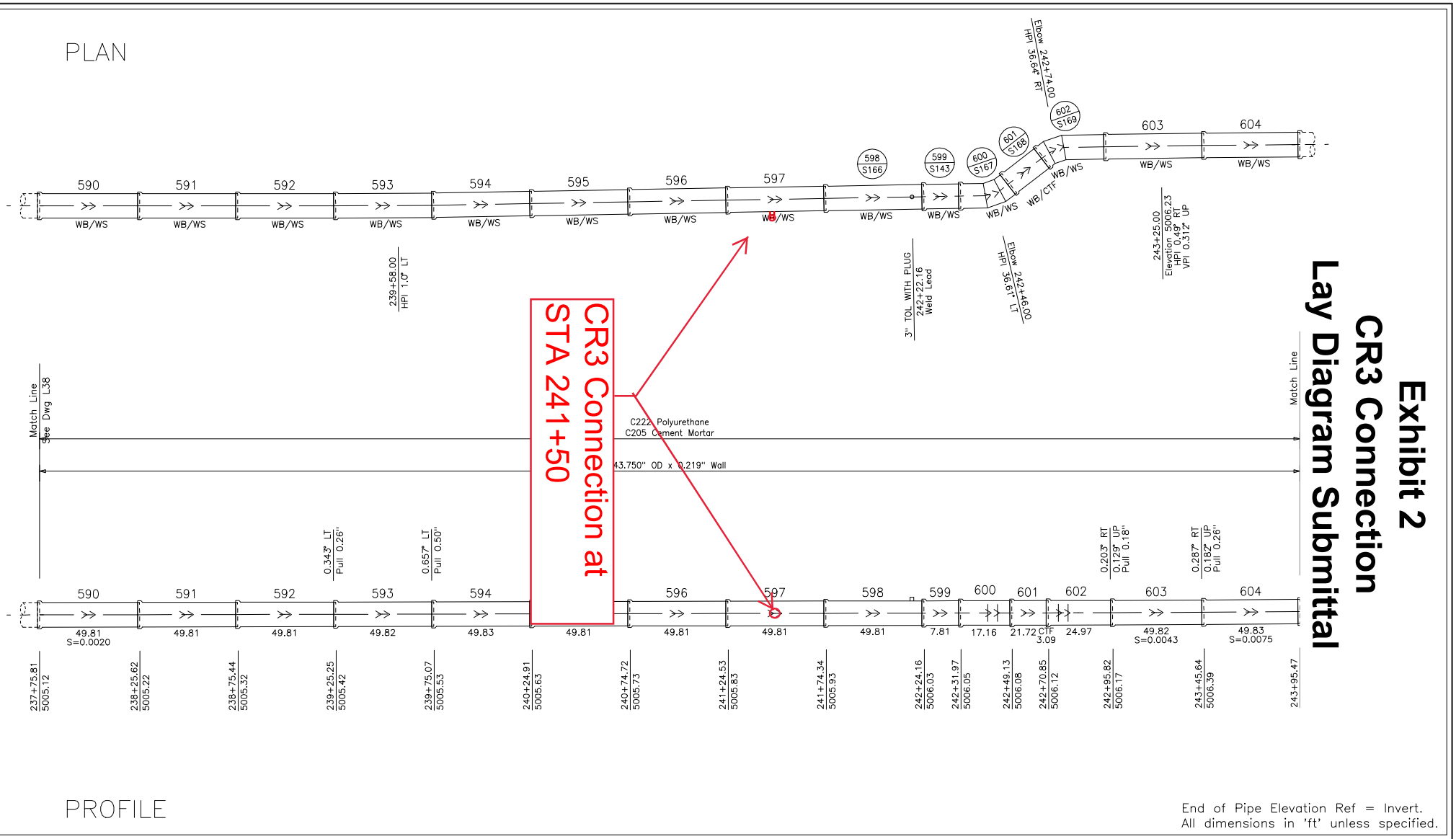
NEWT PIPELINE PROJECT PHASE 3 WORK PACKAGE NO. 2

CIVIL DETAILS

PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	55 OF 109
DRAWING:	C-504

DATE: Jun 28, 2023 5:12pm
DWG: Z:\Shared\200 Projects\171016.13\900 CAD\30% DESIGN_NEWT 3\02-SHEETS\C\171016.13_C-501-507.dwg USER: imartinez

Exhibit 2
CR3 Connection
Lay Diagram Submittal



End of Pipe Elevation Ref = Invert.
All dimensions in 'ft' unless specified.

NO.	REVISION	DATE	BY	CHK	APP
1	Modified layout drawings to represent 100% contract drawings	7/19/23	ASM	JAL	BAF

AMERICAN
SpiralWeld Pipe Co., LLC
Birmingham, AL 35207

NEWT Pipeline Project Phase 3

DRAWN	ASM	5/23/23	Garney Construction
CHECKED	BAF	5/23/23	
APPVD	BS	5/23/23	WC003092A-L39

RING FLANGE RADIAL OUTLET w/COLLAR

ROW	STEEL CYLINDER		NOZZLE				REINFORCING			FLANGE DATA									WELD SIZE	
	O.D. OF CYLINDER	THICKNESS t	O.D.	t*	H	CYLINDER LENGTH	Wt	w	W	CLASS	NOM	A	B	No. BOLT HOLES	C	DIA	T	T*	f1	f2
D7–A	43.750	0.219	24.000	0.250	12.000	15.47	0.250	8.250	40.500	E	24	32.000	24.125	20	29.500	1.375	2.625	0.179	0.250	0.250
D7–B	43.750	0.219	16.000	0.250	12.000	13.33	0.250	5.250	26.500	E	16	23.500	16.125	16	21.250	1.125	2.000	0.179	0.250	0.250
D7–C	43.750	0.219	4.500	0.337	8.000	7.87	0.250	1.500	7.500	E	4	9.000	4.570	8	7.500	0.750	1.125	0.281	0.250	0.250

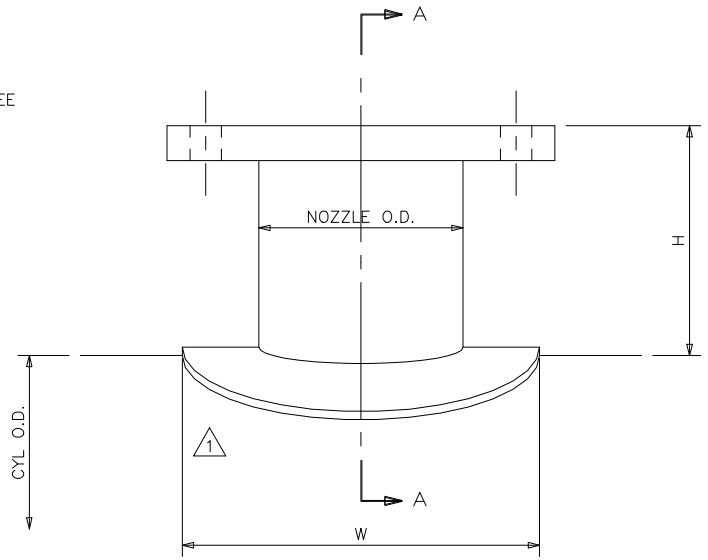
△2 △2

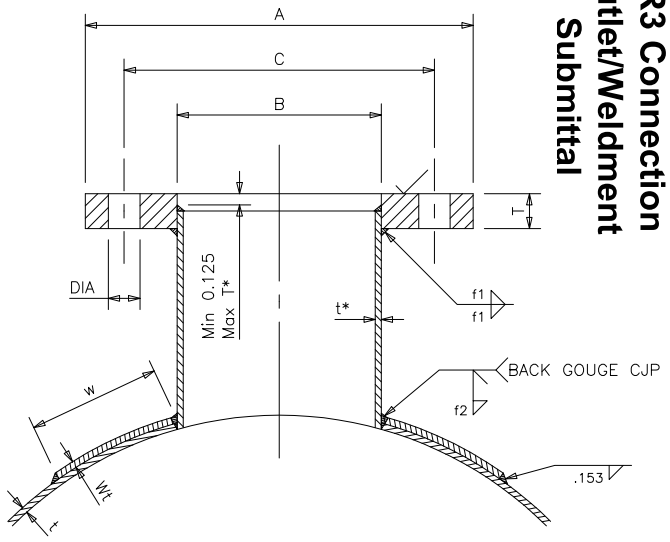
△1

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. FLANGE TO BE TWO–HOLED ON RUN AXIS UNLESS OTHERWISE SHOWN ON MARK No DWG.
3. OUTLET PIPE SHOWN AT 90 DEG TO RUN PIPE. SEE MARK No DWG FOR ANGLES OTHER THAN 90 DEG.

OUTLET LINING: C205 CEMENT MORTAR
OUTLET COATING: C222 POLYURETHANE

FLG EDGE & BACK: C222 POLYURETHANE
FLG MACHINED FACE: RUST VETO 344





SECTION A–A

Exhibit 2
CR3 Connection
Outlet/Weldment
Submittal

NO.	REVISION	DATE	BY	CHK	APP
2	Added Row D7–C; Modified Weld Sizing	11/15/23	BAF	GTO	BS
1	Updated Reinforcement	9/1/23	WB	BAF	BS

AMERICAN
SpiralWeld Pipe Co., LLC
Birmingham, AL 35207

NEWT Pipeline Project Phase 3

DRAWN	ASM	5/23/23	Garney Construction
CHECKED	BAF	5/23/23	
APPVD	BS	5/23/23	WC003092A–D7

Exhibit 2
CR3 Connection
Butterfly Valve (13 pages)

PRATT®
a MUELLER brand

HP250II® AND HP250™ BUTTERFLY VALVES

Engineering Creative Solutions for Fluid Systems Since 1901

MUELLER

SCOPE OF LINE

Pratt® HP250II® Butterfly Valve

SIZES:

- 3″ Through 20″ Bonded Seat
- 24″ Through 48″ E-LOK® Seat

BODY STYLES:

- End Connections
- Flanged
- Mechanical Joint
- Flanged x Mechanical Joint

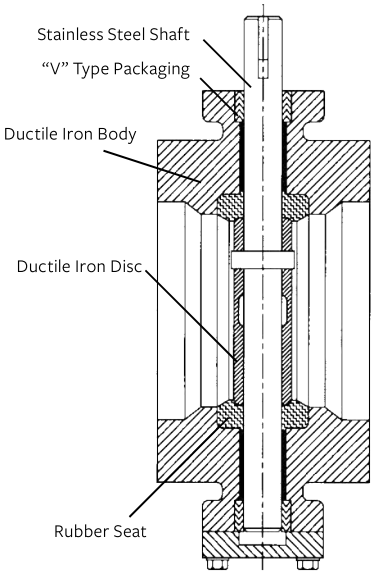
PRESSURE CLASS:

- AWWA 250 B

ACTUATION OPTIONS*:

- Nut
- Handwheel
- Buried Service

*Consult factory for other end connections and actuation options



DESIGN AND CONSTRUCTION

- Ductile Iron Valve Body
- Stainless Steel Shaft
- Ductile Iron or Nickel Aluminum Bronze Disc
- Rubber Seat

MATING CHART

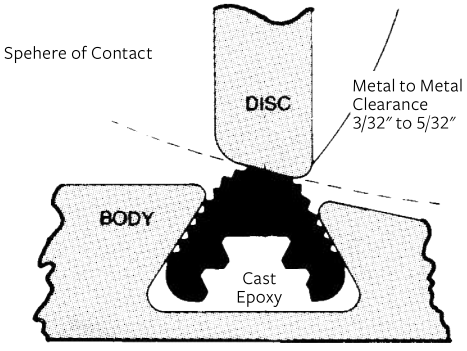
	STEEL	CAST IRON/DUCTILE IRON
HP250™	AWWA C207-01 Class F	ANSI B16.1 Class 250
HP250II	AWWA C207-01 Class B Class D Class E MSS Sp-44 Steel C1.150 ASME B16.47-96 Steel C1.150 Series A	ANSI B16.1 Class 125 AWWA C110 Class 125

HP250II® BUTTERFLY VALVE

FEATURE	BENEFIT
• Higher Pressures	• Working pressures to 250 psi with temperatures to 150° F.
• Wedge Size Range	• Available in sizes 3″ - 72″ (flanged ends); 6″ - 48″ (mechanical joint ends).
• Low Seating / Unseating Torques	• Increases seat life and reduces actuator size.
• Unique Disc Design	• Provides more strength, less weight, and greater free-flow area than conventional disc designs.
• Adjustable / Replaceable Seat on 24″ and larger	• E-LOK® design retains seat in body without metal hardware. If adjustable or replacement is required, both can be done in the field utilizing simple hand tools.
• Choice of Valve Ends	• Flange and Mechanical Joint. Flanges are in full accordance with ANSI B16.1, Class 125# cast iron flanges where applicable. Mechanical joint ends conform to ANSI 21.11. For ANSI Class 250# Flange, see page 8.
• Actuators and Accessories	• Available with manual traveling nut or worm gear, electric motor or cylinder actuators; plus full range of extensions, indicators, positioners, remote controls and other accessories.

A PROVEN STANDARD FOR BUBBLE-TIGHT CLOSURE

The E-LOK seating system features a rubber seat that provides multiple sealing lines which permit higher levels of radial compression. The multiple ridges are designed to reduce rubber stress levels for lower seating torques and better seating action. Unique epoxy injection process locks the seat against the disc with uniform pressure control around the entire periphery to provide a bubble-tight seal. Design also allows easy seat replacement without removing the valve from the line where possible.



THE PRATT® SEAT ON BODY DESIGN ADVANTAGE

A key aspect of butterfly valve design relates to location of the rubber seat. Essentially the seat can be positioned on the body or on the disc per AWWA C504.

But the sum of the Pratt design, testing, and field experience has proven conclusively that seat on body design is preferred because it provides maximum reliability.

The major advantage of seat on body design is that the risk of damage to the rubber seat is minimized because the sealing edge of the disc is much harder than any corrosion deposits built up within the valve body or pipeline. (See Figures 1 and 2) This is important because build up can interfere with the swing radius of the disc. Additionally, seats on body are recessed and thus more protected than seat on disc designs.

Seat on disc designs are much more susceptible to damage because it is the relatively soft rubber seat on the disc that comes into contact with corrosion deposits and build up. Also any solid materials flowing in the fluid can impinge on a rubber seat located on the disc. (See Figure 3)

Another disadvantage of seat on disc design is that since the maximum velocity in a pipeline occurs at the upstream and downstream leading edges of the disc, the rubber seat on disc designs are much more susceptible to wear, vibration and potential loosening of hardware.

Conclusion: Pratt seat on body designs which do not depend on retaining hardware in the waterway for seat retention have recognized these potential problems and addressed them in advance. Successful field performance has substantiated the credibility of this design approach!!

PRATT® – RUBBER SEAT ON BODY DESIGNS

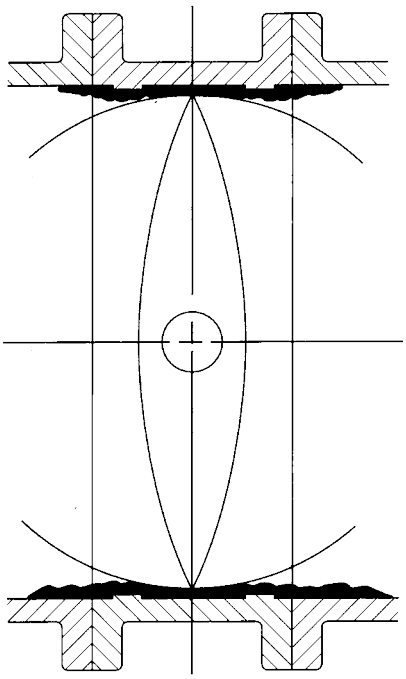


FIGURE 1

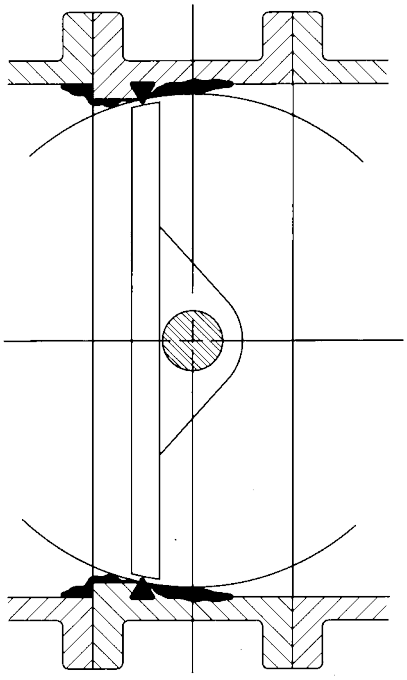


FIGURE 2

RUBBER SEAT ON DISC

DESIGN BY OTHERS

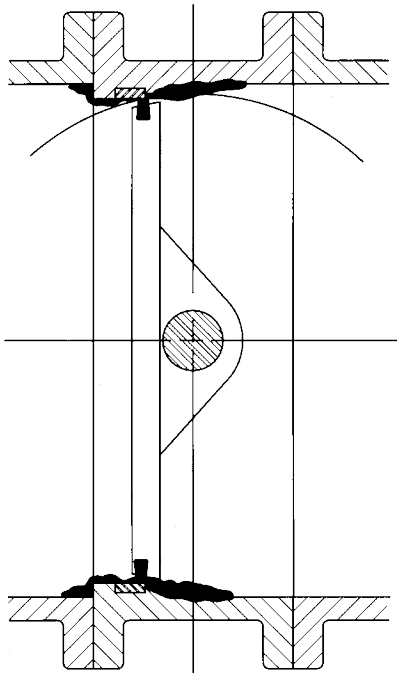


FIGURE 3

HP250II® BUTTERFLY VALVE, 125# FLANGED & MJ SPECIFICATION

GENERAL

Butterfly valves shall be manufactured in accordance with the latest revision of AWWA Standard C504 Class 250B, shall be suitable for a differential pressure of 250 psig, and be certified to NSF Standard 61. Valves shall be Pratt® Model HP250II and comply with the following details:

VALVE BODIES

The body shall be constructed of Ductile Iron ASTM A536 Gr. 65-45-12, with flanged end connections drilled in accordance with ANSI B16.1, Class 125 or Mechanical Joint ends. The body wall thickness shall be in strict accordance with AWWA C504.

VALVE SHAFTS

The shaft shall be made of ASTM A-564 Type 630 condition H-1150. The shaft seals shall be "V" type packing. Shaft seals shall be of a design allowing replacement without removing the valve shaft. No O-ring or "U" cup packing shall be allowed. The bearing shall be a stainless steel backed Teflon material. Bearing load shall not exceed 1/5 of the compressible strength of the bearing or shaft material.

VALVE DISCS

The disc shall utilize an on-center shaft and symmetrical design, cast from Ductile Iron ASTM A536 Gr. 65-45-12. The disc edge shall be stainless steel type 316. Disc shall be retained by pins that extend thought the full diameter of the shaft. The pin material shall be the same as the shaft material. Torque plugs or tangential fasteners shall not be allowed. For valve sizes 3″ through 20″ the rubber seat shall be of one piece construction, simultaneously molded and bonded directly into the body. The seat material shall be either Buna-N or EPDM rubber.

VALVE ACTUATORS

Manual actuators shall be of the traveling nut, self-locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without fluttering or creeping. The actuator shall have mechanical stops that will withstand and input torque of 450 ft/lb. against each stop. Manual actuators shall conform to AWWA Standard C504 and shall be Pratt MDT or an approved equal.

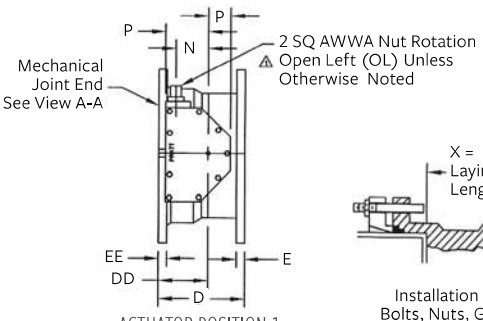
HP250II® 6″-16″, DUCTILE IRON BODY, FLANGED X MJ

VALVE SIZE	A	B	C	CC	D	DD	E	EE	F	FF	G	GG	X
6	6-1/2	5-1/8	11	11	6-3/4	4-1/4	1-1/16	1-1/16	8-3/4	6-3/4	9-1/2	9-1/2	4-1/4
8	7-3/4	6-1/2	13-1/2	13-1/4	7-5/16	4-5/16	1-1/8	1-1/8	8-3/4	6-3/4	11-3/4	11-3/4	4-13/16
10	9	9-7/8	16	15-9/16	9	5	1-1/4	1-3/16	12-7/8	8-3/4	14-1/4	14	6-3/4
*Qty: 11 12	10-1/2	11-3/8	19	17-15/16	9-1/4	5-1/4	1-1/4	1-1/4	12-7/8	8-3/4	17	16-1/4	6-3/4
*Qty: 1 16	13-1/2	14-3/8	23-1/2	22-9/16	10	6	1-7/16	1-3/8	16-1	12-3/4	21-1/4	21	6-1/2

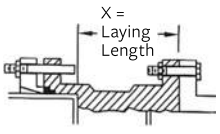
ACTUATOR SIZE	J	L	M	N	P	Q	R	NUMBER OF TURNS
MDT-2S	4-11/16	2	2-1/8	2	4-1/2	4-1/2	8-1/4	32
MDT-3S	5-5/8	2-7/16	3-1/4	3-5/32	5-5/8	5-3/8	10-3/8	30
MDT-45	6-3/8	2-27/32	3-3/8	4	7-5/16	6-3/4	11-5/16	40

Notes:

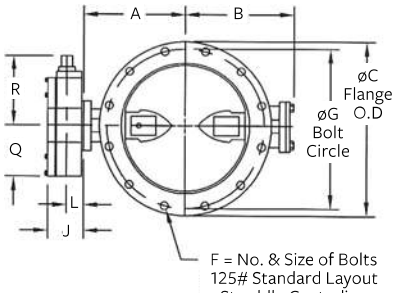
1. All dimensions shown in inches.
2. "D" dimension ±1/16″ for 6″ thru 10″ valves.
   "D" dimension ±1/8″ for 12″ thru 20″ valves.
3. For bolts smaller than 1-3/4, bolt holes will be 1/8″ larger than diameter of bolt. For bolts 1-3/4 or larger, bolt holes will be 1/4″ larger than diameter of bolt.
4. Dimensions and drilling of end flanges conform to the American Cast Iron Flange Standards, Class 125 (B16.1).
5. Dimensions and drilling of mechanical joint end conform to ANSI/AWWA C111 / A21 / 11.
6. Valves manufactured & tested in accordance with AWWA Specification C504 latest revision, Class 250B.
7. Recommendation for mating flanges: Where insulating bushings are used, it is necessary that bolt holes be drilled oversize by an amount equal to two times the insulating sleeve thickness to maintain the same minimum clearance for bolts.

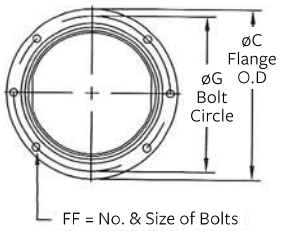


ACTUATOR POSITION 1



Installation Diagram
Bolts, Nuts, Glands, and
Gaskets Furnished by Others





VIEW A-A

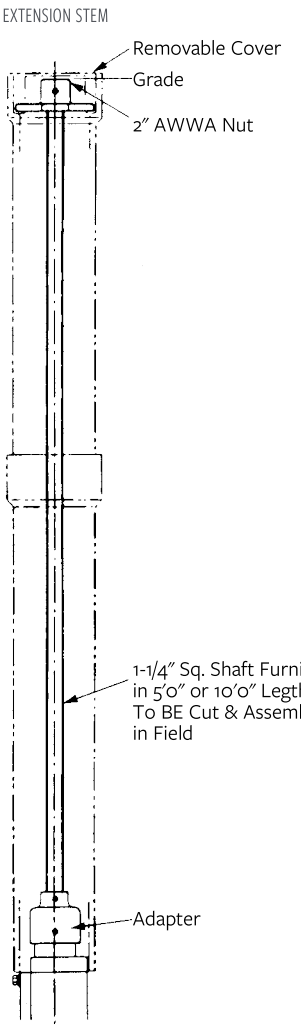
DIVINER®

Ground Level Position Indicator

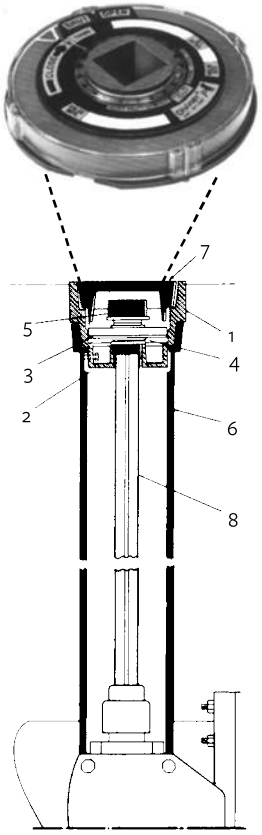
The Pratt® Diviner position indicator is a useful accessory that identifies valve position at a glance, as well as direction and number of turns to open or close completely. This durable indicator is designed for simple operation, strength and reliability. All working parts are constructed of non-metallic material that is virtually indestructible in this kind of service. Hermetically sealed, the internal gearing is protected from the elements with a clear, tough plastic cover.

The Diviner position indicator is shipped for field assembly complete with cast iron adapter (1) and cap screws, guide bushings (2), position indicator (3), flexible washer (4), and a two-inch square AWWA nut (5) with set screw. The adapter fits a standard 5 1/4 inch valve box (6) or 5 inch cast iron soil pipe bell utilizing a cast cover with skirt depth of 1" or less (7). Extension stems (8) are available in 5-foot and 10-foot lengths and can be ordered separately at extra cost.

The device is designed for use with valves requiring 250 turns or less. Specify number of turns required for valves not made by us.



Typical application in 5" Soilpipe.



PPG Amercoat

Amercoat® 370

370 Series

Fast-dry multi-purpose epoxy

Product Data/ Application Instructions

- High performance, corrosion resistance
- Fast drying, fast curing epoxy composition
- Application over wide range of surface temperatures from 20°F (-7°C) to 120°F (60°C)
- Self-priming, high-build coating
- Primer for wide range of topcoats
- Excellent shop primer for corrosion resistance
- Compatible with inorganic zinc silicate primers
- No lead pigments added
- VOC compliant
- Suitable for immersion in fresh and salt water
- Compatible with compromised surface preparation

Amercoat 370 forms an excellent corrosion barrier and is suitable for most industrial and marine new construction, repair, and field maintenance applications.

The fast curing properties of Amercoat 370 make it especially beneficial as a shop-applied coating where fast-drying and handling of coated parts are required.

Amercoat 370 is user-friendly and can be applied by a variety of spray application methods.

Typical Uses

Tank exteriors, structural steel, and piping in chemical plants, refineries, pulp and paper mills, offshore platforms, ship hulls, ballast tank service, anticorrosive under antifoulings and other structures exposed to severe weathering or salt spray.

Typical Properties

Physical

Abrasion (ASTM D4060) 1 kg load/1000 cycles CS-17 wheel	250 mg weight loss
Adhesion, Elcometer (ASTM D4541)	>1000 psi

Performance

Salt spray – 1 coat @ 6 mils 3000 hours exposure	
face corrosion (ASTM B117)	None
face blistering (ASTM B117)	None
Humidity (condensation) (ASTM D4585) 3000 hours exposure	
face corrosion	None
Steam cleanable	Yes
Chemical resistance – Condition after 1 year immersion	
salt water	Excellent
fresh water	Excellent

Qualifications

AWWA C550

NSF Standard 61* - For use in drinking water.

**For NSF application information, please visit our website at www.ppgamercoat.ppgpmc.com/NSF/*

Physical Data

Finish	Flat	
Color	Pearl gray, light buff, white, oxide red	
Components	2	
Curing mechanism	Solvent release and chemical reaction between components	
Volume solids (ISO 3233)	66% ± 3%	
Dry film thickness per coat	4-6 mils (100 - 150 microns)	
Coats	1 or 2	
Coverage	ft²/gal	m²/L
1 mil (25 microns)	1059	25.4
5 mils (125 microns)	212	5.1
VOC	lb/gal	g/L
mixed	2.5	300
mixed/thinned (½ pt/gal)	2.8	335
mixed/thinned (1pt/gal)	3.0	359
Temperature limit	°F	°C
continuous (dry)	200	93
intermittent (dry)	250	121
Flash point (SETA)	°F	°C
cure	82	28
resin	82	28
Amercoat 65	81	27
Amercoat 12	2	-17
Amercoat 101	145	63

Application Data

Applied over	Primed or prepared steel	
Surface preparation		
new steel	SSP-SP6	
primed steel	See specific primer	
previously painted or pitted steel	SSPC-SP10	
Primer	Dimetcote®	
Method	Airless or conventional spray	
Mixing ratio (by volume)	4 parts resin to 1 part cure	
Environmental conditions		
Temperature	°F	°C
air and surface	20 to 120	-7 to 49
material (minimum)	40	4

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Thinner	
below 60°F	Amercoat 65
over Dimetcote or above 60°F	Amercoat 101
Equipment cleaner	Thinner or Amercoat 12

Amercoat 370 Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good E-Excellent VG-Very Good

This chart shows typical resistance of Amercoat 370. Contact your PPG representative for your specific requirements.

Systems Using Amercoat 370

1st Coat	2nd Coat	3rd Coat
Amercoat 370	–	–
Amercoat 370	Amershield™	–
Amercoat 370	450H	–
Dimetcote 9 Series, 21-5	370	Amershield, 450H
Amercoat 68HS	370	Amershield, 450H
Amercoat 370	370	ABC 3, ABC 4

Confirm compliance with VOC regulations before using coating systems. For immersion service, apply 2 coats at a minimum of 8 mils total DFT.

Over Dimetcote or Amercoat 68HS primer, a mist coat and thinning with Amercoat 101 may be required to prevent application bubbling.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Surface must be clean, dry, undamaged and free of all contaminants prior to coating.

Welds should be continuous with no overlapping steel surfaces or rough edges. Remove all weld spatter.

Steel, non-immersion – Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP2, 3, 6, 7 or 11. UHP waterjetting per SSPC SP-12 WJ2 is also acceptable.

Steel, immersion – For more severe service and immersion, clean to SSPC-SP10. The choice of surface preparation will depend on the system selected and end-use service conditions.

Blast to achieve a surface profile not to exceed 3 mils (75 microns) as indicated by a Keane-Tator Surface Profile Comparator Testex Tape. Increase coating thickness if profile greater than 3 mils.

Primed steel – Prepare surface in accordance with application instructions for the specific primer being used. Be sure primer is clean and dry when Amercoat 370 is applied. Remove all loose rust, dirt, moisture, grease or contaminants.

Repair – Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating. Thoroughly remove dust or abrasive residue before touch up.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Airless spray – Standard equipment such as Graco Bulldog Hydra-Spray or larger with a 0.015- to 0.021-inch (0.38 mm to 0.53 mm) fluid tip.

Conventional spray – Industrial equipment, such as DeVilbiss, MBC or JGA gun with 78 or 765 air can and "E" fluid tip, or Binks No. 18 or 62 gun with a 66x63PB nozzle set up. Separate air and fluid pressure regulators, mechanical pot agitator, and a moisture and oil trap in the main air supply line are recommended.

Environmental Conditions

Temperature	°F	°C
air and surface	20 to 120	-7 to 49
material	40	4

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Application Procedure

Amercoat 370 is packaged in two components in the proper proportions which must be mixed together before use.

1. Flush equipment with thinner or Amercoat 12 before use.
2. Stir each component thoroughly, then combine and mix until uniform.
3. For general use, if thinning is necessary for workability, add Amercoat 65 below 60°F or Amercoat 101 at 60°F and above. Thin in quantities up to 1 pint per gallon of Amercoat 370. For potable water tanklining applications, see current NSF listing at www.nsf.org for approved thinner and thinning restrictions.
4. Do not mix more material than will be used within 4 hours at 70°F (21°C). Pot life is shortened by higher temperatures. Thinning may be necessary for workability periodically throughout pot life.

Pot Life and Dry Times

Temperature (°F/°C)	Pot-Life (Hours)	Touch Dry (Min.)	Through Dry (Hours)	Recoat (Hours)
20/-7	—	90	20	2½
32/0	—	60	9	2
40/4	7	45	7	2
50/10	6	30	4½	1½
60/16	5	22	2¾	1
70/21	4	15	1⅓	½
80/27	3	12	1¼	½
90/32	2	10	1	⅓

Topcoat or recoat time (days) (maximum)

	°F/°C 90/32	70/21	50/10	20/-7
Amercoat 450H, Amershield™	14	30	45	60

Amercoat 370	
non-immersion	6 months – Clean surface required *(clean and roughen if exceeded)*
immersion	1 month – Clean surface
ABC 3, ABC4	Apply while 370 is soft to thumb pressure*

** Failure to apply antifoulings while coating is still soft to thumb pressure may result in poor adhesion and eventual delamination.*

Drying times are dependent on air and surface temperatures as well as film thickness, ventilation and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures - not simply ambient air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface tempertures shorten the maximum recoat window.

If maximum topcoat time is exceeded, either clean and roughen the Amercoat 370 surface or clean and apply a tack coat of Amercoat 370 before topcoating with Amercoat 450H, Amershield or antifouling.

Time before service @ 8 mils (hours) °F/°C

Amercoat 370	90/32	70/21	50/10	32/0	20/-7
non-immersion**	6	12	24	96	120
immersion	12	24	48	168	NR

NR=Not recommended

***Cure to full physical properties.*

5. When applying by conventional spray, use adequate air pressure and volume to ensure proper atomization.
6. When applying over inorganic zinc or zinc rich primers, a "mist coat" 1-1½ mils wet,/full coat technique may be required to minimize bubbling. This will depend on the age of the Dimetcote, surface roughness and conditions during curing. When applying Amercoat 370 over Dimetcote at 60°F and above, use Amercoat 101 thinner up to 1 pint per gallon. For potable water tanks, use only Amercoat 65 thinner.
7. Normal recommended dry film thickness is 5 mils (125 microns). Total dry film thickness must not exceed 15 mils (375 microns).

8. The application of a wet film thickness of 7 to 8 mils (175 to 200 microns) will normally provide 5 mils (125 microns) of dry film.
9. Clean all equipment with thinner or Amercoat 12 immediately after use.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for professional use only. Not for residential use.

Shipping Data

Packaging units	1 gal	5 gal
cure	0.2 gal in 1-qt can	1 gal in 1-gal can
resin	0.8 gal in 1-gal can	4 gal in 5-gal can

Shipping weight (approx)	lb	kg
1-gal unit		
cure	1.9	0.9
resin	14.2	6.5
5-gal can		
cure	8.6	3.9
resin	70.4	32

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
cure and resin — 1 year from shipment date

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

This product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

PPG Protective & Marine Coatings
www.ppgpmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695

NOTES

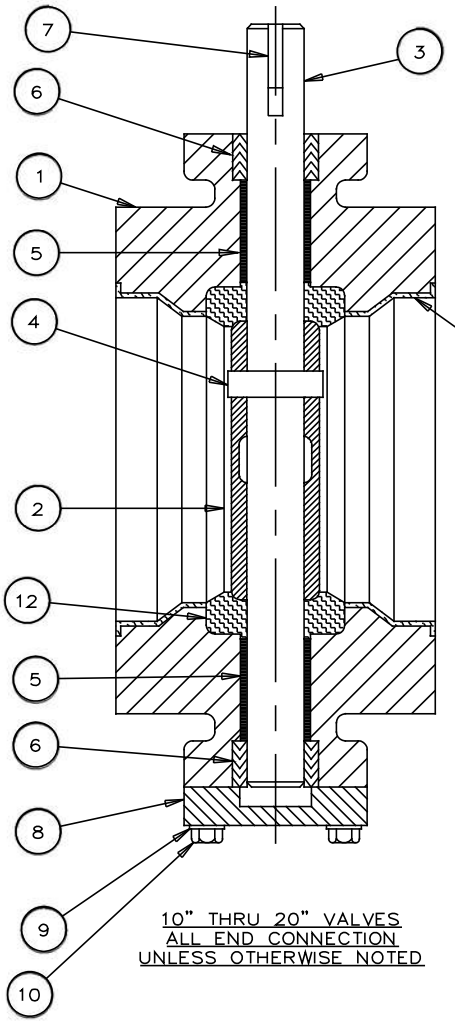
- All Valves to be Bi-Directional & Holiday Tested with Documentation Provided by Pratt
- All Valves Standard Open Left unless otherwise noted
- Actuator Sizes Confirmed as follows on Class 250B Butterfly Valves (12" & 16")

12" Flange x Mechanical Joint 250B Butterfly Valve 125# Drilling, EPDM Seat, DI Body, DI Disc, 17-4SS Shaft, Nylatron Bearing, MDT3S Buried Service Nut Open Left , Fully Rubber-Lined Body, 16 Mils avg. Fusion Bond Epoxy Interior, 16 Mils avg. Fusion Bond Epoxy Exterior, 316SS Hardware

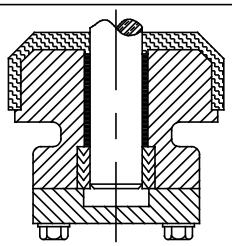
16" Flange x Mechanical Joint 250B Butterfly Valve 125# Drilling, EPDM Seat, DI Body, DI Disc, 17-4SS Shaft, Nylatron Bearing, MDT4S Buried Service Nut Open Left , Fully Rubber-Lined Body, 16 Mils avg. Fusion Bond Epoxy Interior, 16 Mils avg. Fusion Bond Epoxy Exterior, 316SS Hardware

RUBBER LINING OF BODY NOT REQUIRED.

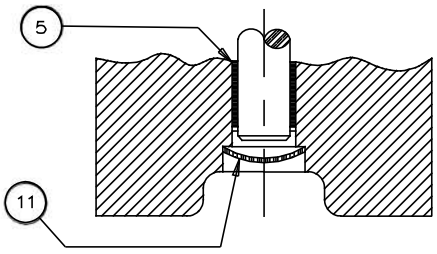
- Cross Section & Materials of Class 150B & Class 250B Valves on pg. 23 & 24



10" THRU 20" VALVES
ALL END CONNECTION
UNLESS OTHERWISE NOTED



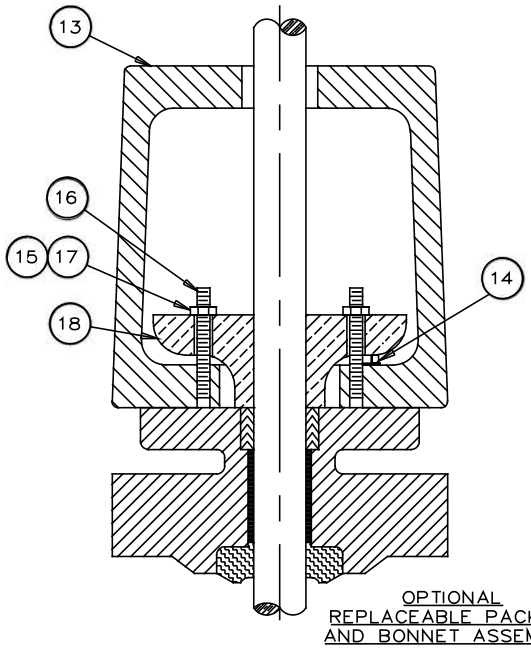
10" THRU 20"
MKII WAFER VALVES



3" THRU 8" VALVES
ALL END CONNECTIONS
UNLESS OTHERWISE NOTED

MATERIAL OPTIONS AS CHECKED

ITEM NO.	DESCRIPTION	MATERIALS	✓
1	BODY	CAST IRON ASTM A-48 CLASS 40 (MKII ONLY)	
		CAST IRON ASTM A-126 CLASS B *	
		DUCTILE IRON ASTM A-536 (65-45-12)	
2	DISC	CAST IRON ASTM A-126 CLASS B STAINLESS STEEL EDGE TYPE 316 (DUCTILE IRON MAY BE SUBSTITUTED)	
		DUCTILE IRON ASTM A-536 (65-45-12) STAINLESS STEEL EDGE TYPE 316	
		STAINLESS STEEL ASTM A-351 GRADE CF8M	
3	SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
4	SQUEEZE PIN	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
5	BEARING	NYLATRON GS	
		RULON LR (HIGH TEMPERATURE ONLY)	
		FLUOMETAL (PTFE IMPREGNATED W/ EXPANDED 317L METAL SHEET)	
6	PACKING	RUBBER BUNA-N	
		RUBBER (EPDM)	
7	KEY	AISI C1045 COLD DRAWN STEEL	
8	COVER	CAST IRON ASTM A-48 CLASS 40	
		CAST IRON ASTM A-126 CLASS B	
		DUCTILE IRON ASTM A-536 (65-45-12)	
9	LOCKWASHER	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
10	CAP SCREW	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
11	EXP. PLUG	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
12	SEAT	RUBBER BUNA-N	
		RUBBER (EPDM)	
13	BONNET	CAST IRON ASTM A-48 CLASS 40 FOR 3"-10" & 12" W/ MDT2S	
		DUCTILE IRON ASTM A-536 65-45-12 FOR 10" W/ MDT3S & 12" -20"	
14	CAP SCREW	ALLOY STEEL SAE GRADE 8	
15	LOCKWASHER	STAINLESS STEEL TYPE 304	
16	THD. STUD	STAINLESS STEEL TYPE 304	
17	HEX NUT	STAINLESS STEEL TYPE 304	
18	GLAND	BRONZE ASTM B-584 ALLOY C86400	
19	LINING	EPOXY	
		RUBBER (SAME AS 12)	



OPTIONAL
REPLACEABLE PACKING
AND BONNET ASSEMBLY

RUBBER LINING OF BODY NOT REQUIRED.

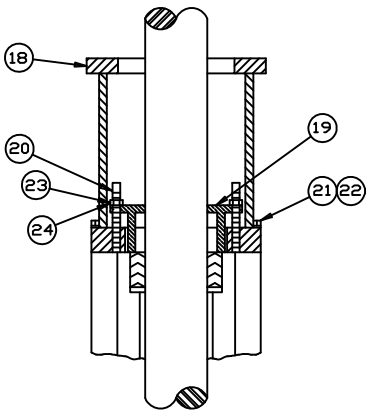
* DUCTILE IRON MAY BE SUBSTITUTED FOR 3" & 4" BODIES

REV	DATE	BY	DESCRIPTION	APP
3	10/19/17	JUR	UPDATED TITLE BLOCK	SS
2	01/18/16	JCL	ADDED DI COVER OPTION	RF
1	5/28/14	DSL	UPDATED TITLE BLOCK	SJS

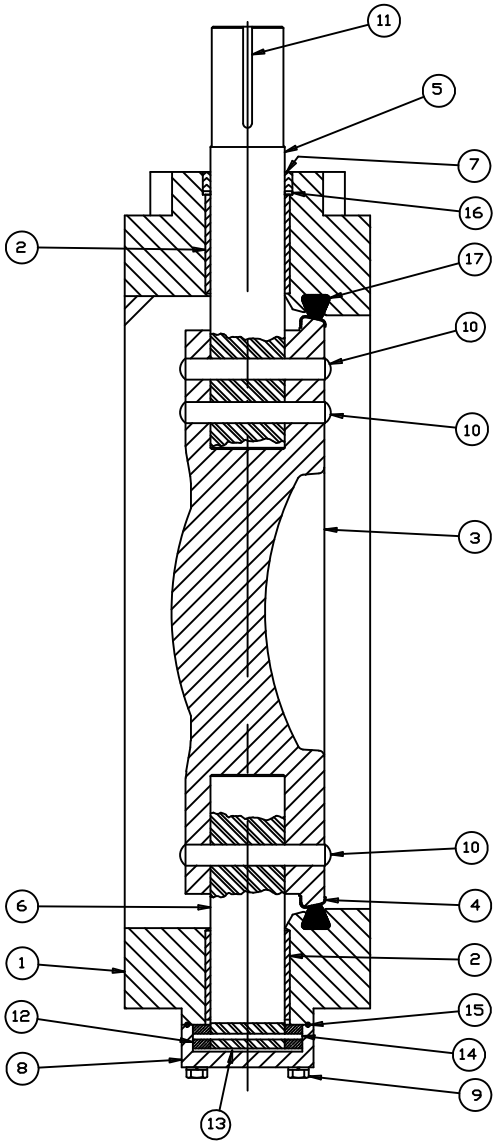
PRATT

CROSS SECTION
PARTS AND MATERIALS LIST
3"-20" BONDED SEAT VALVES
150B & 250B

SCALE NONE DATE 10-27-05
DRAWN BY ES CHECKED BY RCB
APPROVED GA=BORDER
DRWG. NO. GA-11486 REV 12 A/C



OPTIONAL
REPLACEABLE PACKING BONNET
ASSEMBLY



MATERIAL OPTIONS AS CHECKED

ITEM NO.	DESCRIPTION	MATERIALS	✓
1	BODY	CAST IRON ASTM A-126 CLASS B	
		DUCTILE IRON ASTM A-536 (65-45-12)	
2	BEARINGS	TEFLON LINED, FIBERGLASS BACKED	
3	DISC	DUCTILE IRON ASTM A-536 (65-45-12)	
4	DISC EDGE	STAINLESS STEEL TYPE 316	
5	TOP STUB SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
6	BOTTOM STUB SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
7	PACKING	RUBBER (BUNA-N)	
		RESILOSEAL W (EPDM)	
8	BOTTOM COVER	DUCTICLE IRON ASTM A-536 (65-45-12)	
		CAST IRON ASTM A-126 CLASS B	
9	CAP SCREWS	CARBON STEEL	
		STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
10	SQUEEZE PINS	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
11	KEY	CARBON STEEL AISI 1045	
12	THRUST COLLAR	BRONZE ASTM B-505 ALLOY C93200	
13	THRUST COLLAR SHIMS	BRASS ALLOY C26000 HALF HARD (H02)	
14	SPRING PIN	STAINLESS STEEL TYPE 420	
15	O-RING	RUBBER (BUNA N)	
		RUBBER (EPDM)	
16	PACKING RETAINER	NYLON	
17	SEAT	RESILOSEAL R (BUNA-N)	
		RESILOSEAL W (EPDM)	
18	BONNET	CAST IRON ASTM A-48 CLASS 40	
19	PACKING GLAND	BRONZE ASTM B-584 ALLOY C86400	
20	PACKING GLAND STUD	STAINLESS STEEL TYPE 304	
21	CAP SCREWS	CARBON STEEL	
22	LOCKWASHERS	CARBON STEEL	
23	PACKING GLAND NUT	STAINLESS STEEL TYPE 304	
24	LOCTITE	GRADE CV	

REV.	DATE	BY	DESCRIPTION	APP.
6	10/19/17	JUR	UPDATED TITLE BLOCK	RF
5	4/22/16	DSL	UPDATED ORING MATL	RF
4	7-15-11	JTC	UPDATED MATERIAL	RCB
3	1-5-11	CEM	ADD MATERIAL OPTION	RCB
2	7-19-06	RCB	DELETED C.I. OPTION	PPS
1	4-6-06	CEG	ADDED DUCTILE OPTION	JR

PRATT

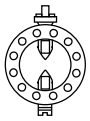
CROSS SECTION
PARTS AND MATERIAL LIST
24" TRITON-XR
BUTTERFLY VALVE

SCALE NONE DATE 2-04-05
DRAWN BY AAT CHECKED BY ES
APPROVED GA=BORDER
DRWG. NO. GA-11337 REV 6 A/C

PRATT®

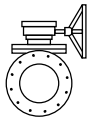
a MUELLER brand

PRATT
Product Guide

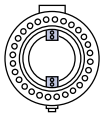


MODEL 2FII

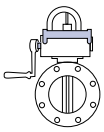
MONOFLANGE MKII



PLUG VALVES

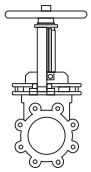


TRITON® XR70

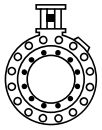


INDICATING BUTTERFLY VALVES UL & FM APPROVED

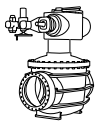
TILTING DISC CHECK VALVES



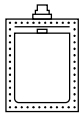
KNIFE GATE VALVES



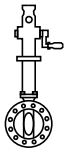
N-STAMP NUCLEAR BUTTERFLY VALVES



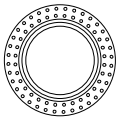
CONE VALVES



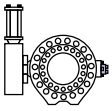
RECTANGULAR



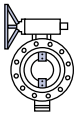
PIVA POST INDICATING VALVES ASSEMBLY UL & FM APPROVED



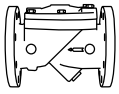
SLEEVE VALVES



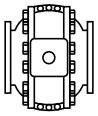
RUBBER SEATED BALL VALVES



TRITON® 250

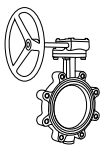


CHECK VALVES

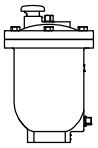


METAL SEATED BALL VALVE

CONTROL SYSTEMS



INDUSTRIAL VALVES



AIR VALVES

For more information about Pratt or to view our full line of water products, please visit www.prattvalve.com or call Pratt customer service at 1.800.423.1323.

F 13087 11/18

MUELLER

23 August 2024

VIA Email
North Weld County Water District
Attention: Eric Reckentine
38825 CR 39
P.O. Box 56
Lucerne, Colorado 80646

RE: Review and Design Requirements for Connections to the NEWT III Pipeline

Dear Mr. Reckentine,

East Larimer County Water District ("ELCO") received your letter of August 20, 2024, regarding the above subject. ELCO's understanding is that you are requesting ELCO provide North Weld County Water District ("North Weld") the plans and specifications for 1) the proposed CR5 interconnect ("CR5 Connection") when available and, 2) the same for other proposed connections. I will address each of these below.

CR5 Connection

As I believe you are aware the CR5 Connection was designed (including specifications) as part of the current NEWT III pipeline project ("Project") which ELCO and North Weld are jointly building at this time. This CR5 Connection work associated with the Project consists only of a 16" pipe outlet/weldment that connects to the NEWT III pipeline, a 16" butterfly valve and approximately 20-feet of 16" pipe, terminating at a line plug. The design drawings, specifications and construction submittals for this CR5 Connection have been completed and the infrastructure has been installed. For your reference I am including the CR5 Connection design drawings and the contractor's submittal for the outlet/weldment as Exhibit 1.

A future ELCO meter vault that will connect this installed CR5 Connection to an existing ELCO water line is being designed at this time. ELCO intends that the design will include metering, a flow control valve and telemetry in accordance with the NEWT III Intergovernmental Agreement dated June 14, 2021 ("Agreement"). When the design documents for this future meter vault are prepared, which I anticipate will be sometime in late September or early October, ELCO will submit them to North Weld for their review in accordance with the Agreement.

Other Proposed Connection – Larimer County Road 3 ("CR3")

As has been discussed at recent Project meetings ELCO is proposing to add a connection to NEWT III at CR3 ("CR3 Connection") and include that work as part of the Project. The CR3 Connection will be of the same design as the above noted CR5 Connection as well as another connection that is part of the Project at County Road 1 ("CR1") and consist only of the 16" outlet/weldment, a 16" butterfly valve and a plug. The location of the CR3 Connection is shown on Exhibit 2. With Exhibit 2 I have also included the outlet/weldment design drawing, the

August 23, 2024

RE: Review and Design Requirements for Connections to the NEWT III Pipeline

contractor's submittal drawings (lay diagram to show the location on the provided NEWT III pipe and the outlet/weldment), which as noted are the same as for the CR5 Connection, and the butterfly valve submittal.

A future ELCO meter vault will connect this installed CR3 Connection to an existing ELCO water line. There are no immediate plans to design or install this meter vault as ELCO anticipates that will not be sooner than at least 5 years from now and is dependent upon future development in the area. When the design occurs ELCO intends that it will include metering, a flow control valve and telemetry in accordance with the Agreement and ELCO will submit them to North Weld for their review in accordance with the Agreement.

As you know, there is a critical time component for getting the CR3 Connection installed which is dependent upon ELCO and North Weld signing a Project Work Change Directive to authorize that installation. I trust this letter satisfies your requests and North Weld's Board of Directors can approve a Work Change Directive for this CR3 Connection at their September 3, 2024 meeting.

Sincerely,

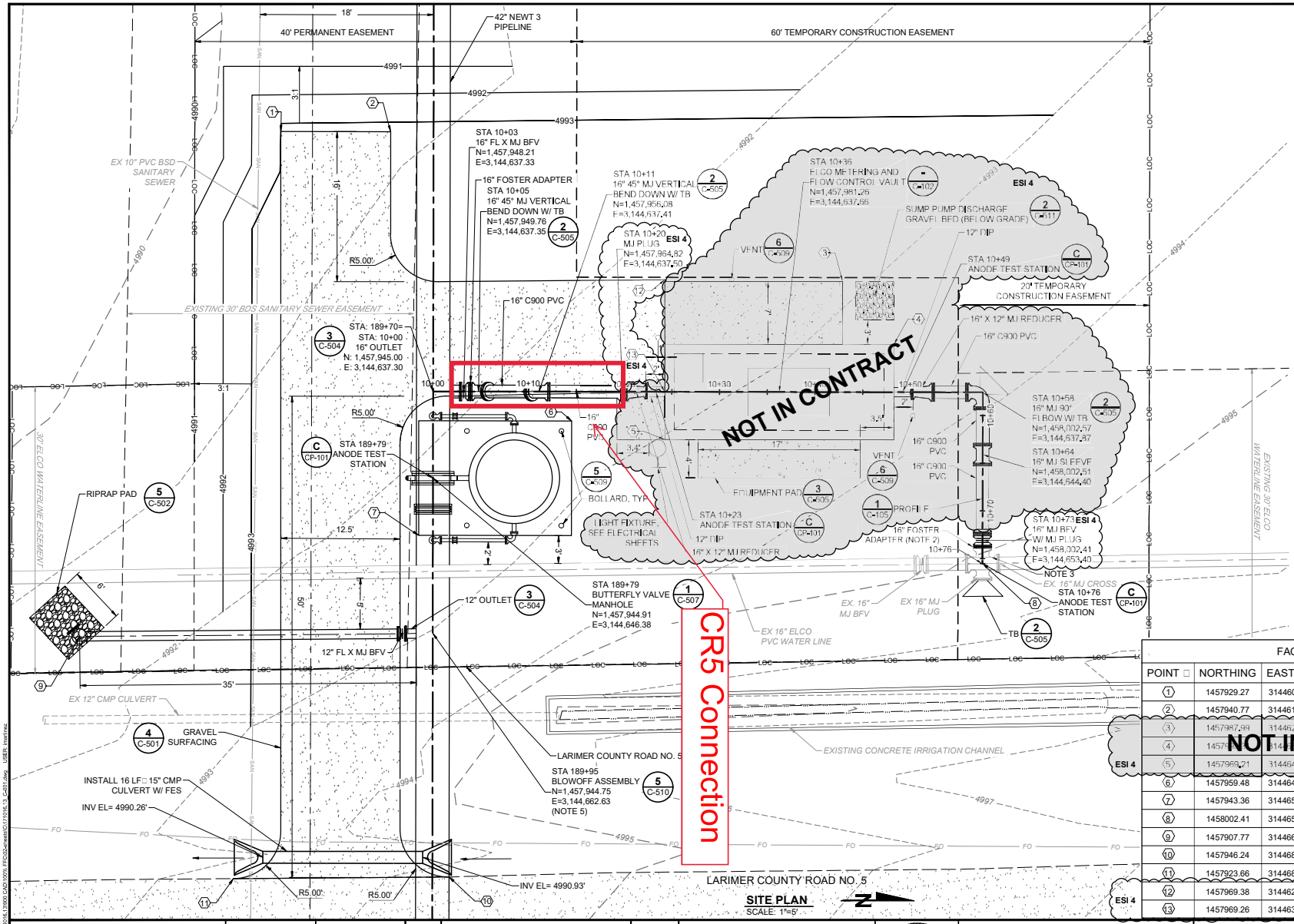
Mike Scheid
General Manager
East Larimer County Water District

Attachments:
Exhibit 1
Exhibit 2

August 23, 2024

RE: Review and Design Requirements for Connections to the NEWT III Pipeline

Exhibit 1



NOTES:

1. ALL PIPING TO BE FULLY RESTRAINED (MJ RESTRAINTS AND THRUST BLOCKS).
2. REMOVE EXISTING MJ PLUG.
3. CONTRACTOR TO VERIFY LOCATION OF CROSS PRIOR TO CONSTRUCTION.
4. ALL NUTS, BOLTS, RESTRAINT HARDWARE, ETC. ON RESTRAINED PIPE TO BE WAX TAPE COATED AND THEN WRAPPED WITH POLYETHYLENE SHEET ENCASEMENT PER SPECIFICATION 09 97 06.
5. ROTATE BLOW OFF DISCHARGE OUTLET TO THE SOUTH WEST.

Exhibit 1
CR5 Connection

ESI 4 REVISION
SEPTEMBER 19, 2023

FACILITY POINT TABLE

POINT □	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1457929.27	3144609.91	4990.39	SW CORNER ACCESS DRIVE
2	1457940.77	3144610.04	4990.84	NW CORNER ACCESS DRIVE
3	1457987.99	3144626.16	4992.89	N CORNER ACCESS DRIVE
4	1457[illegible]	3144[illegible]	[illegible]	[illegible] CORNER METER VAULT
5	1457969.21	3144642.54	4993.03	SE CORNER METER VAULT
6	1457959.48	3144640.53	4992.50	NW CORNER BFV VAULT
7	1457943.36	3144652.37	4992.34	SE CORNER BFV VAULT
8	1458002.41	3144655.82	4995.07	EX. 16" MJ CROSS CONNECTION
9	1457907.77	3144662.66	4991.50	BLOWOFF ASSEMBLY
10	1457946.24	3144688.18	4994.27	NE CORNER ACCESS DRIVE
11	1457923.66	3144688.18	4993.33	SE CORNER ACCESS DRIVE
12	1457969.38	3144625.79	4992.23	N CORNER ACCESS DRIVE
13	1457969.26	3144637.54	5002.06	N CORNER ACCESS DRIVE

NOT IN CONTRACT

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY
9/19/2023	ESI 4 - OMIT ELCO METER VAULTS	WD

FINAL FOR CONSTRUCTION
JUNE 28, 2023

DANIEL R. RICE 49797 PROFESSIONAL ENGINEER 6/28/23

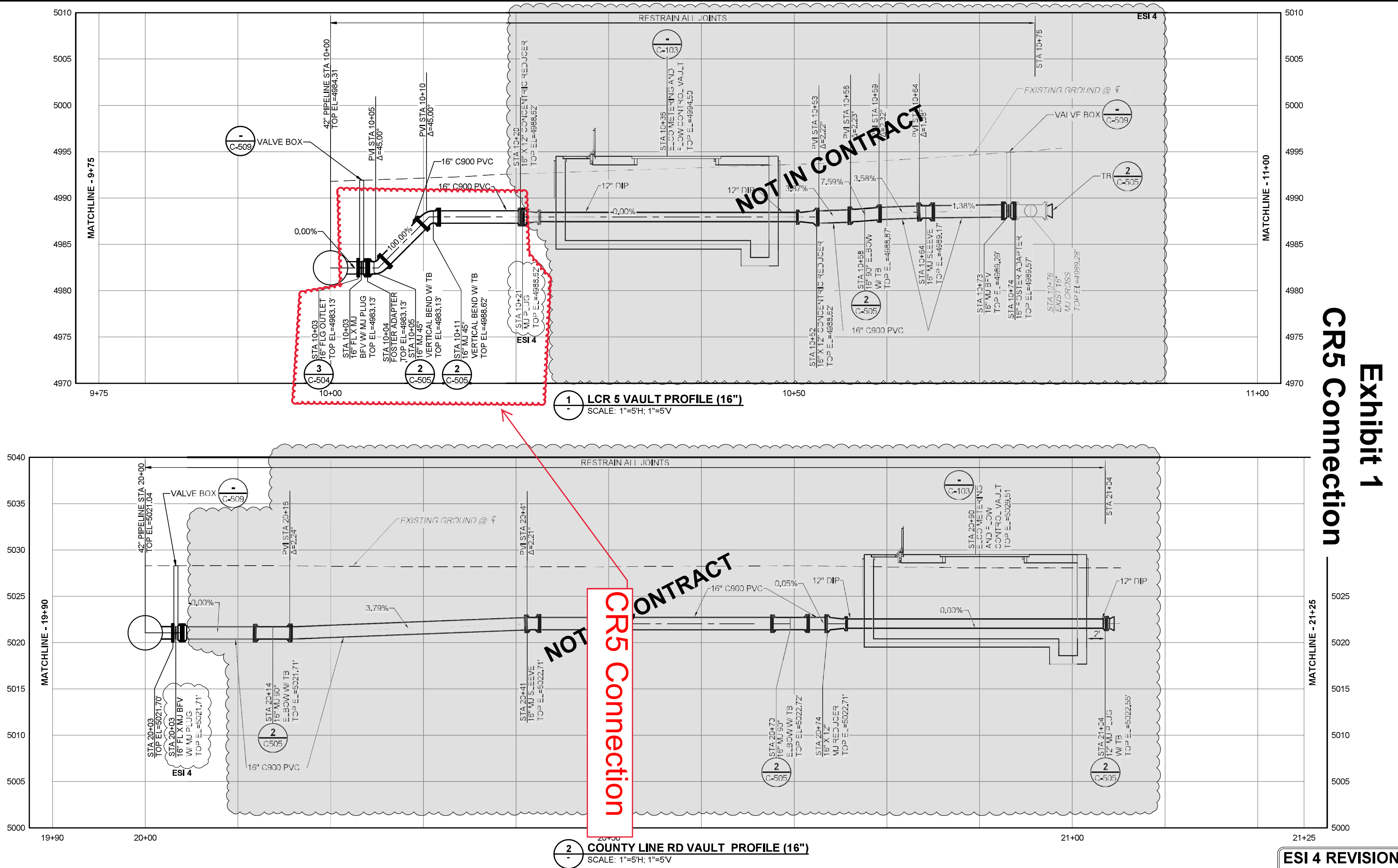
NEWT PIPELINE PROJECT PHASE 3
WORK PACKAGE NO. 2

METER VAULT (LCR 5) - SITE PLAN

PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	33 OF 109
DRAWING:	C-001

DATE: Sep 19, 2023 10:30am
DWG: Z:\Shared\300 projects\171016.13\999 CAD\100% IFC\Civil\sheets\C171016.13_C-001.dwg USER: imartinez

Exhibit 1
CR5 Connection



ESI 4 REVISION
SEPTEMBER 19, 2023

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY
9/19/2023	ESI 4 - OMIT ELCO METER VAULTS	WD

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

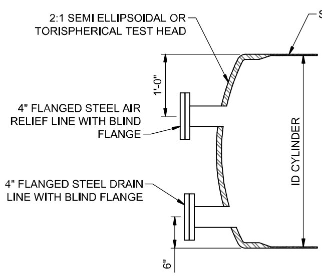
FINAL FOR CONSTRUCTION
JUNE 28, 2023

NEWT PIPELINE
PROJECT PHASE 3
WORK PACKAGE NO. 2

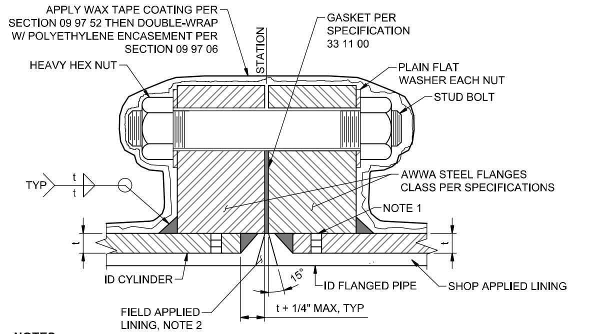
12" METER VAULT SITE PIPE PROFILES

PROJECT: 171016.13
DRAWN BY: I. MARTINEZ
DESIGNER: W. DAUGHTRY
APPROVED BY: D. RICE
SHEET: 39 OF 109
DRAWING: C-105

Exhibit 1
CR5 Connection
Outlet/Weldment Design



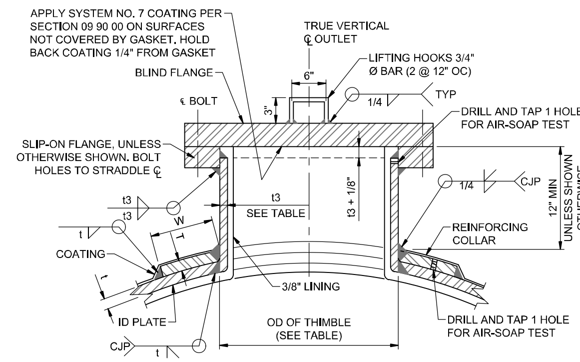
1 BULKHEAD
SCALE: NTS



NOTES:

1. DRILL & TAP CYLINDER FOR 1/4" AIR TEST HOLE BEFORE WELDING FLANGE. CONTRACTOR SHALL AIR AND SOAP TEST AFTER WELDING IS COMPLETE. PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TEST.
2. APPLY MORTAR AT FLANGES SHOWN. STEEL TROWEL SMOOTH FINISH FLUSH WITH SHOP-APPLIED LINING. OMIT WHERE BOLTING TO FLANGED VALVES.

2 FLANGES FOR STEEL PIPE
SCALE: NTS



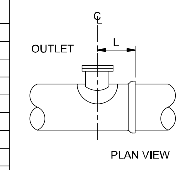
NOTES:

1. COATING FOR RISER IS NOT SHOWN.
2. APPLY SYSTEM NO. 24 PER SECTION 09 90 00 OVER EDGE OF FLANGE AND FLANGE BOLTS.
3. INSTALL OUTLETS AS REQUIRED FOR ACCESS DURING CONSTRUCTION.
4. ALL OUTLETS SHALL BE INSTALLED HORIZONTALLY TO AVOID AIR COLLECTION UNLESS OTHERWISE NOTED.

OUTLET / RISER REINFORCING COLLAR DATA

NOMINAL SIZE	t_3	COLLAR DIMENSIONS		"L" LENGTH
		W	T	
4"	STD	2"	SEE SPECS.	2'-0"
6"	STD	3"		2'-3"
8"	STD	4"		2'-6"
12"	STD	6"		2'-8"
14"	STD	7"		2'-10"
16"	STD	8"		3'-0"
20"	STD	10"		3'-6"
24"	STD	12"		3'-9"
30"	SCH 20	15"		4'-3"

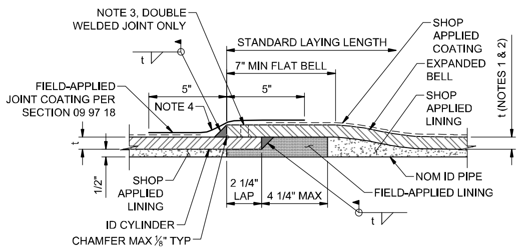
FOR OUTLETS >30"; SEE SECTION 33 11 11 FOR DESIGN REQUIREMENTS.



NOTES:

1. LENGTH "L" IS THE MINIMUM DISTANCE FROM CENTERLINE OF OUTLET TO END OF PIPE.
2. THIMBLE OD AND THICKNESS (t_3) PER ANSI B36.10.

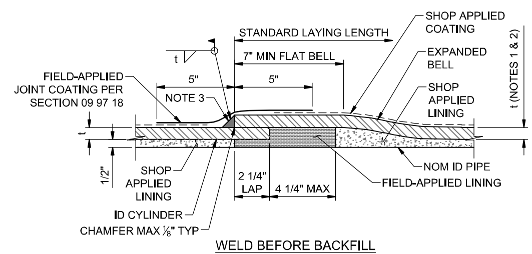
3 WSP OUTLET DETAIL
SCALE: NTS



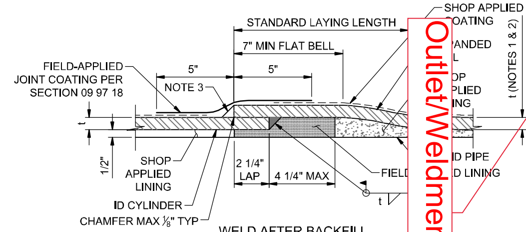
NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED STEEL PIPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WELDED LAP JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STATION WHERE USED.
3. BEFORE WELDING, DRILL AND TAP NUMBER OF HOLES AS NOTED, FOR 1/4" NPT AIR TEST HOLE. AIR AND SOAP TEST AFTER WELDING IS COMPLETED, PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TESTS.
4. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT SHRINK SLEEVE IF USED.

4 DOUBLE WELDED LAP JOINT
SCALE: NTS



WELD BEFORE BACKFILL



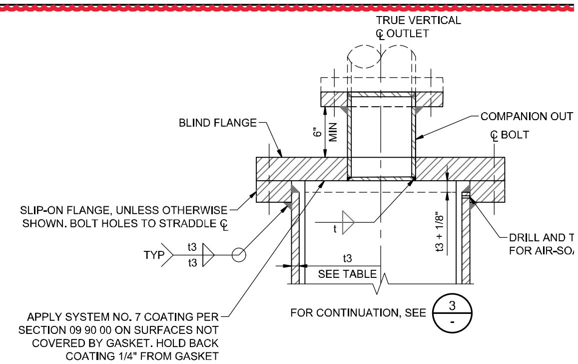
WELD AFTER BACKFILL

Outlet/Weldment Design

NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED [partly covered] PIPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WE[partly covered] JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STAT[partly covered] RE USED.
3. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT [partly covered] SLEEVE IF USED.

5 SINGLE WELDED LAP JOINT
SCALE: NTS



6 WSP COMPANION OUTLET DETAIL
SCALE: NTS

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

FINAL FOR CONSTRUCTION
JUNE 28, 2023

COLORADO LICENSED PROFESSIONAL ENGINEER DANIEL R. RICE 40797 6/28/23

NEWT PIPELINE PROJECT PHASE 3 WORK PACKAGE NO. 2

CIVIL DETAILS

PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	55 OF 109
DRAWING:	C-504

DATE: Jun 28, 2023 5:12pm DWG: Z:\Shared\200 Projects\171016_13\900 CAD\30% DESIGN_NEWT 3\02-SHEETS\C171016.13_C-501-507.dwg USER: imartinez

RING FLANGE RADIAL OUTLET w/COLLAR

ROW	STEEL CYLINDER		NOZZLE				REINFORCING			FLANGE DATA									WELD SIZE	
	O.D. OF CYLINDER	THICKNESS t	O.D.	t*	H	CYLINDER LENGTH	Wt	w	W	CLASS	NOM	A	B	No. BOLT HOLES	C	DIA	T	T*	f1	f2
D7–A	43.750	0.219	24.000	0.250	12.000	15.47	0.250	8.250	40.500	E	24	32.000	24.125	20	29.500	1.375	2.625	0.179	0.250	0.250
D7–B	43.750	0.219	16.000	0.250	12.000	13.30	0.250	5.250	26.500	E	16	23.500	16.125	16	21.250	1.125	2.000	0.179	0.250	0.250
D7–C	43.750	0.219	4.500	0.337	8.000	7.87	0.250	1.500	7.500	E	4	9.000	4.570	8	7.500	0.750	1.125	0.281	0.250	0.250

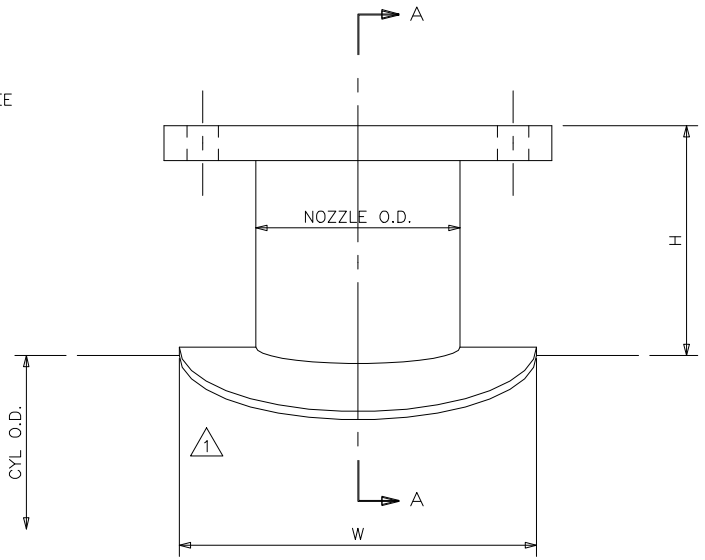
△2 △2

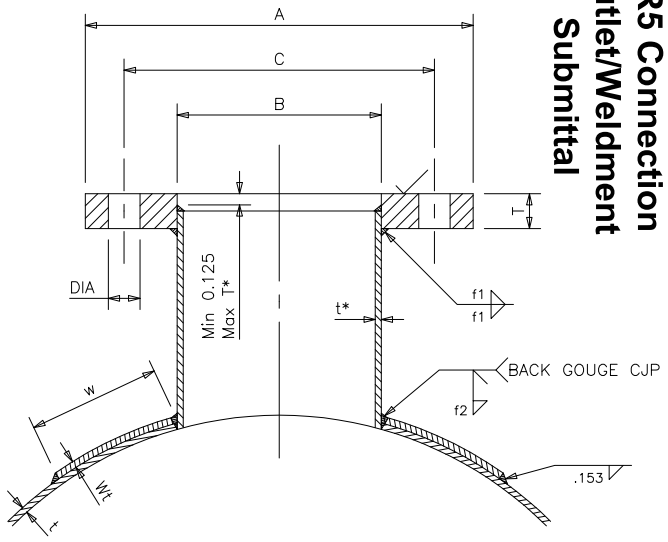
△1

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. FLANGE TO BE TWO–HOLED ON RUN AXIS UNLESS OTHERWISE SHOWN ON MARK No DWG.
3. OUTLET PIPE SHOWN AT 90 DEG TO RUN PIPE. SEE MARK No DWG FOR ANGLES OTHER THAN 90 DEG.

OUTLET LINING: C205 CEMENT MORTAR
OUTLET COATING: C222 POLYURETHANE

FLG EDGE & BACK: C222 POLYURETHANE
FLG MACHINED FACE: RUST VETO 344





SECTION A–A

Exhibit 1
CR5 Connection
Outlet/Weldment
Submittal

NO.	REVISION	DATE	BY	CHK	APP
2	Added Row D7–C; Modified Weld Sizing	11/15/23	BAF	GTO	BS
1	Updated Reinforcement	9/1/23	WB	BAF	BS

AMERICAN
SpiralWeld Pipe Co., LLC
Birmingham, AL 35207

NEWT Pipeline Project Phase 3

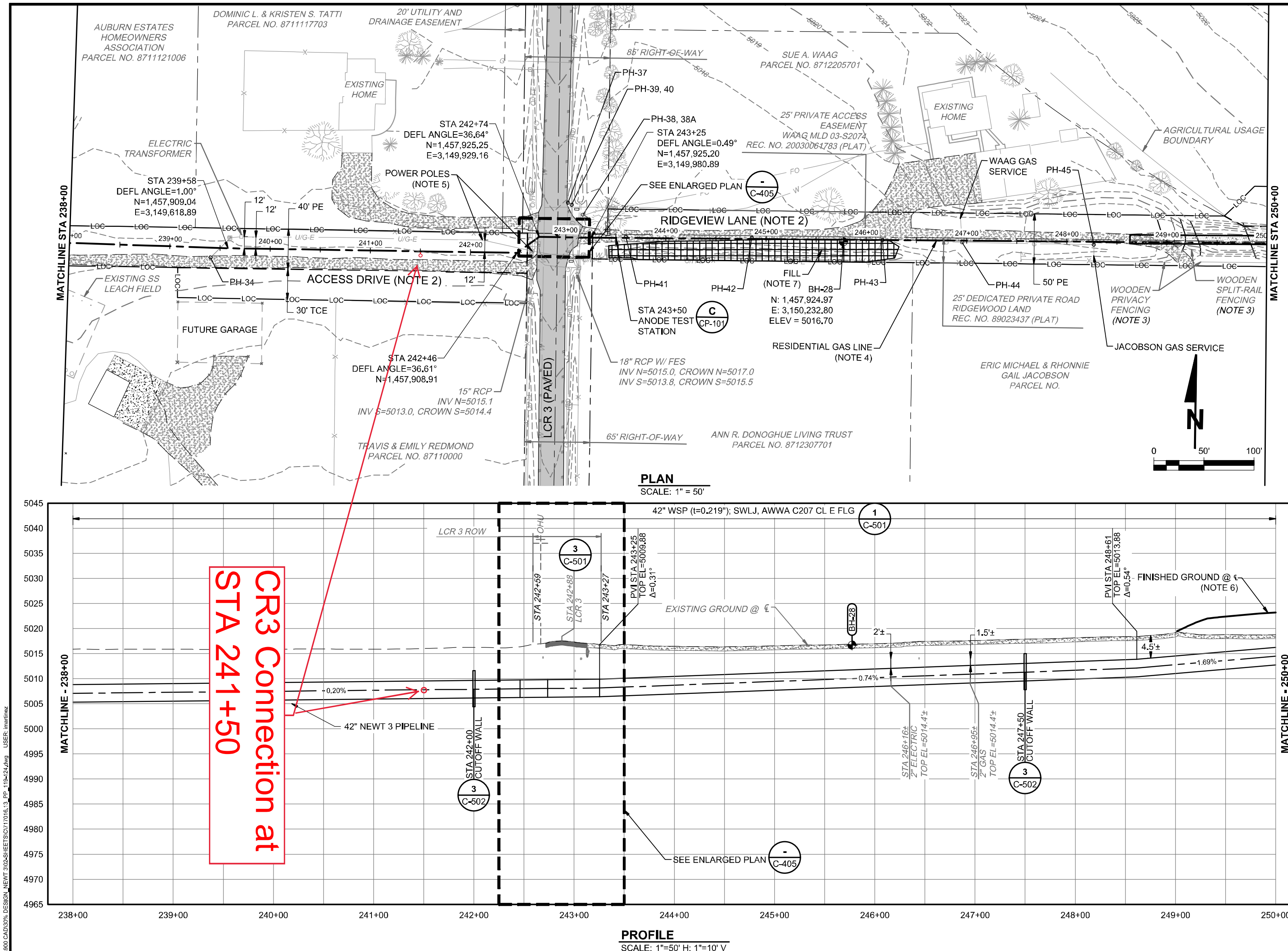
DRAWN	ASM	5/23/23	Garney Construction
CHECKED	BAF	5/23/23	
APPVD	BS	5/23/23	WC003092A–D7

August 23, 2024

RE: Review and Design Requirements for Connections to the NEWT III Pipeline

Exhibit 2

Exhibit 2
CR3 Connection



NOTES:

1. SEE SPEC SECTION 01 41 10 AND 32 90 10 FOR PROPERTY SPECIFIC NOTES AND RESTORATION REQUIREMENTS.
2. RESTORE DRIVEWAY ONCE CONSTRUCTION IS COMPLETE. CONTRACTOR TO COORDINATE WITH THE JACOBSONS TO PROVIDE ACCESS TO THEIR RESIDENCE DURING CONSTRUCTION. (4 / C-501)
3. PROTECT IN PLACE PRIVACY FENCE TO THE SOUTH AND REMOVE AND RESET SPLIT RAIL FENCE WITHIN CONSTRUCTION CORRIDOR.
4. PRIOR TO PIPE INSTALLATION, CONTRACTOR TO RELOCATE RESIDENTIAL GAS LINE (WAAG, JACOBSON) TO THE SOUTH ALONG THE LIMITS OF CONSTRUCTION. COORDINATE WITH XCEL ENERGY FOR RELOCATE.
5. POWER POLES ARE LOCATED CLOSE TO THE PIPE INSTALLATION. CONTRACTOR TO COORDINATE WITH PVREA SHOULD TEMPORARY SUPPORT BE NEEDED. CONTRACTOR TO ALSO CONFIRM THAT NO GUY WIRES NEED TO BE TEMPORARILY REMOVED AND RESET.
6. FILL MATERIAL MUST BE PLACED AND PROPERLY COMPACTED TO FINISHED GRADE PRIOR TO INSTALLATION OF PIPELINE.
7. AREA TO BE FILLED WITH ONSITE SPOILS MATERIAL.

CAUTION
OVERHEAD ELECTRIC POWER LINES EXISTING WITHIN THE CONSTRUCTION CORRIDOR.

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

FINAL FOR CONSTRUCTION
JUNE 28, 2023

COLORADO LICENSED PROFESSIONAL ENGINEER DANIEL R. RICE 40797 6/28/23

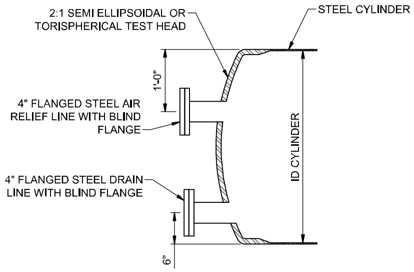
NEWT PIPELINE
PROJECT PHASE 3
WORK PACKAGE NO. 2

PLAN AND PROFILE STA 238+00 TO STA 250+00

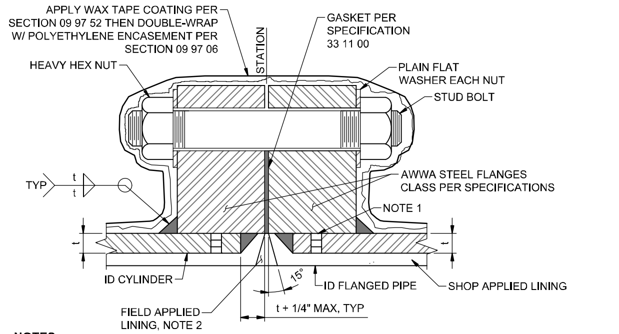
PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	28 OF 109
DRAWING:	PP-120

DATE: Jun 28, 2023 5:07pm

Exhibit 2
CR3 Connection Outlet/Weldment Design



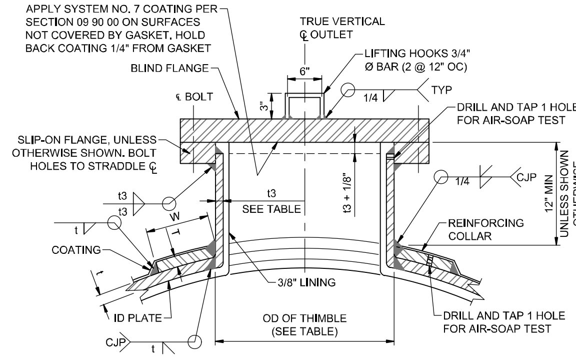
1 BULKHEAD
SCALE: NTS



NOTES:

1. DRILL & TAP CYLINDER FOR 1/4" AIR TEST HOLE BEFORE WELDING FLANGE. CONTRACTOR SHALL AIR AND SOAP TEST AFTER WELDING IS COMPLETE. PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TEST.
2. APPLY MORTAR AT FLANGES SHOWN. STEEL TROWEL SMOOTH FINISH FLUSH WITH SHOP-APPLIED LINING. OMIT WHERE BOLTING TO FLANGED VALVES.

2 FLANGES FOR STEEL PIPE
SCALE: NTS



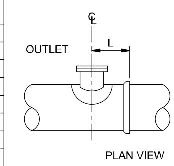
NOTES:

1. COATING FOR RISER IS NOT SHOWN.
2. APPLY SYSTEM NO. 24 PER SECTION 09 90 00 OVER EDGE OF FLANGE AND FLANGE BOLTS.
3. INSTALL OUTLETS AS REQUIRED FOR ACCESS DURING CONSTRUCTION.
4. ALL OUTLETS SHALL BE INSTALLED HORIZONTALLY TO AVOID AIR COLLECTION UNLESS OTHERWISE NOTED.

OUTLET / RISER REINFORCING COLLAR DATA

NOMINAL SIZE	t_3	COLLAR DIMENSIONS W	COLLAR DIMENSIONS T	"L" LENGTH
4"	STD	2"	SEE SPECS.	2'-0"
6"	STD	3"		2'-3"
8"	STD	4"		2'-6"
12"	STD	6"		2'-8"
14"	STD	7"		2'-10"
16"	STD	8"		3'-0"
20"	STD	10"		3'-6"
24"	STD	12"		3'-9"
30"	SCH 20	15"		4'-3"

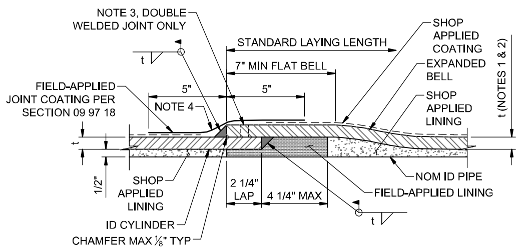
FOR OUTLETS >30"; SEE SECTION 33 11 11 FOR DESIGN REQUIREMENTS.



NOTES:

1. LENGTH "L" IS THE MINIMUM DISTANCE FROM CENTERLINE OF OUTLET TO END OF PIPE.
2. THIMBLE OD AND THICKNESS (t_3) PER ANSI B36.10.

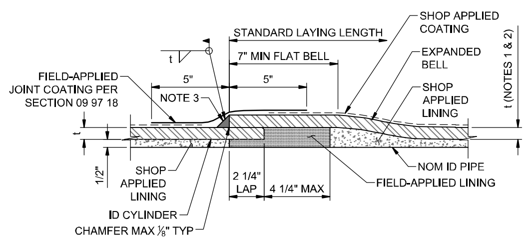
3 WSP OUTLET DETAIL
SCALE: NTS



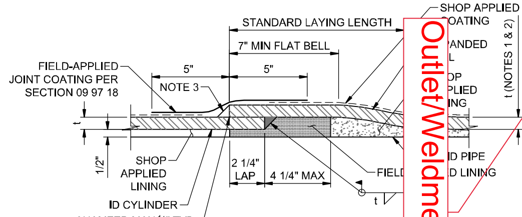
NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED STEEL PIPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WELDED LAP JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STATION WHERE USED.
3. BEFORE WELDING, DRILL AND TAP NUMBER OF HOLES AS NOTED, FOR 1/4" NPT AIR TEST HOLE. AIR AND SOAP TEST AFTER WELDING IS COMPLETED, PLUG WELD HOLES AFTER SUCCESSFUL COMPLETION OF JOINT TESTS.
4. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT SHRINK SLEEVE IF USED.

4 DOUBLE WELDED LAP JOINT
SCALE: NTS



WELD BEFORE BACKFILL



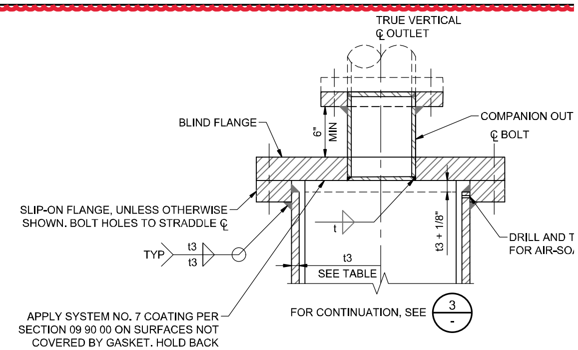
WELD AFTER BACKFILL

Outlet/Weldment Design

NOTES:

1. FOR INSIDE DIAMETER AND CYLINDER THICKNESS FOR WELDED [...] IPE AND LOCATION OF THRUST RESTRAINT WHICH REQUIRE DOUBLE WE[...] P JOINTS, SEE PLAN & PROFILE DRAWINGS.
2. "T" INDICATES THE THICKNESS OF THE STEEL PIPE AT THE STAT[...] RE USED.
3. FILL WITH MOLDABLE SEALANT PRIOR TO APPLICATION OF HEAT [...] SLEEVE IF USED.

5 SINGLE WELDED LAP JOINT
SCALE: NTS



6 WSP COMPANION OUTLET DETAIL
SCALE: NTS

PROVIDENCE INFRASTRUCTURE CONSULTANTS
300 PLAZA DRIVE, SUITE 320
HIGHLANDS RANCH, CO 80129
(303) 997-5035
www.providenceic.com

REVISION	DESCRIPTION OF ISSUE / REVISION	REVISED BY

FINAL FOR CONSTRUCTION
JUNE 28, 2023

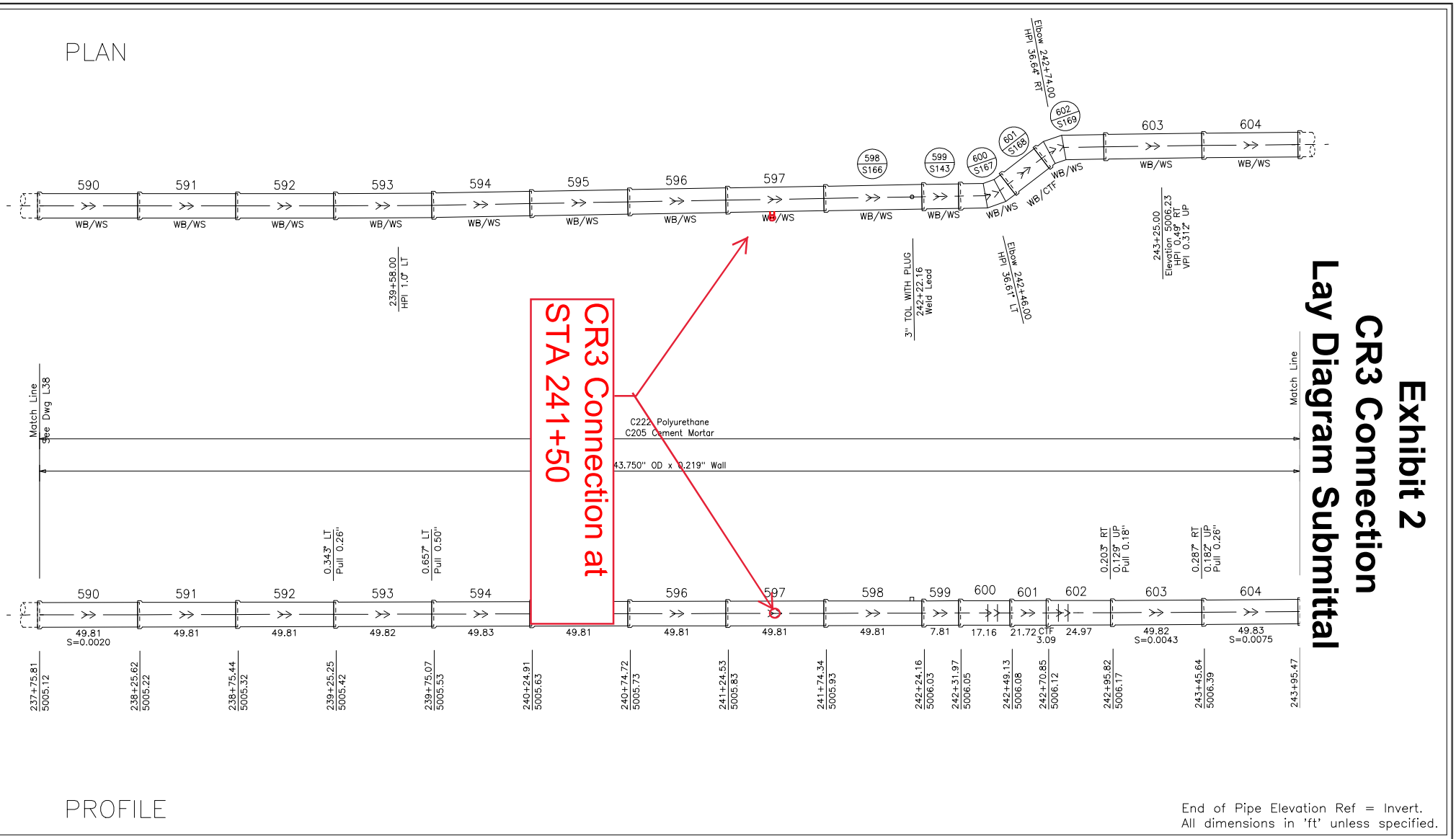
COLORADO LICENSED DANIEL R. RICE 40797 PROFESSIONAL ENGINEER 6/28/23

NEWT PIPELINE PROJECT PHASE 3 WORK PACKAGE NO. 2

CIVIL DETAILS

PROJECT:	171016.13
DRAWN BY:	I. MARTINEZ
DESIGNER:	W. DAUGHTRY
APPROVED BY:	D. RICE
SHEET:	55 OF 109
DRAWING:	C-504

Exhibit 2
CR3 Connection
Lay Diagram Submittal



End of Pipe Elevation Ref = Invert.
All dimensions in 'ft' unless specified.

NO.	REVISION	DATE	BY	CHK	APP
1	Modified layout drawings to represent 100% contract drawings	7/19/23	ASM	JAL	BAF

AMERICAN
SpiralWeld Pipe Co., LLC
Birmingham, AL 35207

NEWT Pipeline Project Phase 3

DRAWN	ASM	5/23/23	Garney Construction
CHECKED	BAF	5/23/23	
APPVD	BS	5/23/23	WC003092A-L39

RING FLANGE RADIAL OUTLET w/COLLAR

ROW	STEEL CYLINDER		NOZZLE				REINFORCING			FLANGE DATA									WELD SIZE	
	O.D. OF CYLINDER	THICKNESS t	O.D.	t*	H	CYLINDER LENGTH	Wt	w	W	CLASS	NOM	A	B	No. BOLT HOLES	C	DIA	T	T*	f1	f2
D7–A	43.750	0.219	24.000	0.250	12.000	15.47	0.250	8.250	40.500	E	24	32.000	24.125	20	29.500	1.375	2.625	0.179	0.250	0.250
D7–B	43.750	0.219	16.000	0.250	12.000	13.33	0.250	5.250	26.500	E	16	23.500	16.125	16	21.250	1.125	2.000	0.179	0.250	0.250
D7–C	43.750	0.219	4.500	0.337	8.000	7.87	0.250	1.500	7.500	E	4	9.000	4.570	8	7.500	0.750	1.125	0.281	0.250	0.250

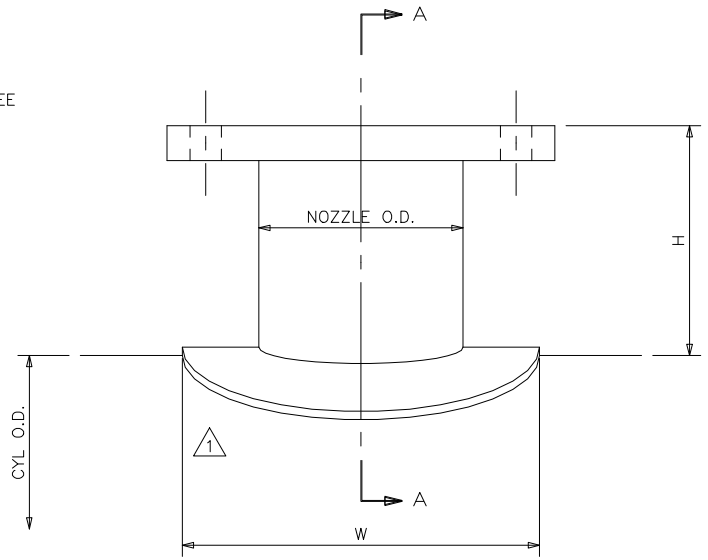
△2 △2

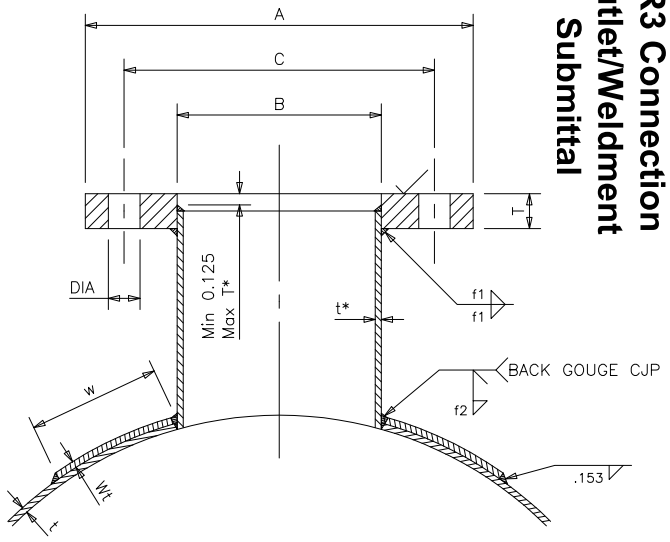
△1

NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. FLANGE TO BE TWO–HOLED ON RUN AXIS UNLESS OTHERWISE SHOWN ON MARK No DWG.
3. OUTLET PIPE SHOWN AT 90 DEG TO RUN PIPE. SEE MARK No DWG FOR ANGLES OTHER THAN 90 DEG.

OUTLET LINING: C205 CEMENT MORTAR
OUTLET COATING: C222 POLYURETHANE

FLG EDGE & BACK: C222 POLYURETHANE
FLG MACHINED FACE: RUST VETO 344





SECTION A–A

Exhibit 2
CR3 Connection
Outlet/Weldment
Submittal

NO.	REVISION	DATE	BY	CHK	APP
2	Added Row D7–C; Modified Weld Sizing	11/15/23	BAF	GTO	BS
1	Updated Reinforcement	9/1/23	WB	BAF	BS

AMERICAN
SpiralWeld Pipe Co., LLC
Birmingham, AL 35207

NEWT Pipeline Project Phase 3

DRAWN	ASM	5/23/23	Garney Construction
CHECKED	BAF	5/23/23	
APPVD	BS	5/23/23	WC003092A–D7

Exhibit 2
CR3 Connection
Butterfly Valve (13 pages)

PRATT®
a MUELLER brand

HP250II® AND HP250™ BUTTERFLY VALVES

Engineering Creative Solutions for Fluid Systems Since 1901

MUELLER

SCOPE OF LINE

Pratt® HP250II® Butterfly Valve

SIZES:

- 3″ Through 20″ Bonded Seat
- 24″ Through 48″ E-LOK® Seat

BODY STYLES:

- End Connections
- Flanged
- Mechanical Joint
- Flanged x Mechanical Joint

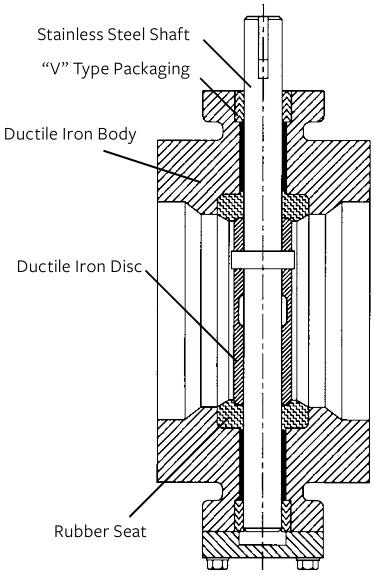
PRESSURE CLASS:

- AWWA 250 B

ACTUATION OPTIONS*:

- Nut
- Handwheel
- Buried Service

*Consult factory for other end connections and actuation options



DESIGN AND CONSTRUCTION

- Ductile Iron Valve Body
- Stainless Steel Shaft
- Ductile Iron or Nickel Aluminum Bronze Disc
- Rubber Seat

MATING CHART

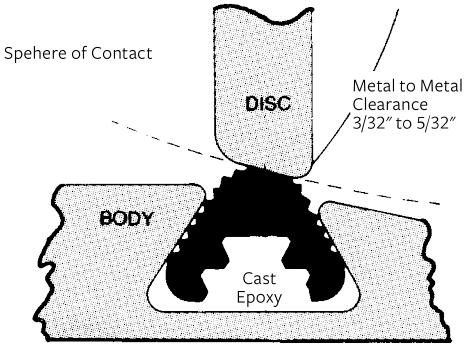
	STEEL	CAST IRON/DUCTILE IRON
HP250™	AWWA C207-01 Class F	ANSI B16.1 Class 250
HP250II	AWWA C207-01 Class B Class D Class E MSS Sp-44 Steel C1.150 ASME B16.47-96 Steel C1.150 Series A	ANSI B16.1 Class 125 AWWA C110 Class 125

HP250II® BUTTERFLY VALVE

FEATURE	BENEFIT
• Higher Pressures	• Working pressures to 250 psi with temperatures to 150° F.
• Wedge Size Range	• Available in sizes 3″ - 72″ (flanged ends); 6″ - 48″ (mechanical joint ends).
• Low Seating / Unseating Torques	• Increases seat life and reduces actuator size.
• Unique Disc Design	• Provides more strength, less weight, and greater free-flow area than conventional disc designs.
• Adjustable / Replaceable Seat on 24″ and larger	• E-LOK® design retains seat in body without metal hardware. If adjustable or replacement is required, both can be done in the field utilizing simple hand tools.
• Choice of Valve Ends	• Flange and Mechanical Joint. Flanges are in full accordance with ANSI B16.1, Class 125# cast iron flanges where applicable. Mechanical joint ends conform to ANSI 21.11. For ANSI Class 250# Flange, see page 8.
• Actuators and Accessories	• Available with manual traveling nut or worm gear, electric motor or cylinder actuators; plus full range of extensions, indicators, positioners, remote controls and other accessories.

A PROVEN STANDARD FOR BUBBLE-TIGHT CLOSURE

The E-LOK seating system features a rubber seat that provides multiple sealing lines which permit higher levels of radial compression. The multiple ridges are designed to reduce rubber stress levels for lower seating torques and better seating action. Unique epoxy injection process locks the seat against the disc with uniform pressure control around the entire periphery to provide a bubble-tight seal. Design also allows easy seat replacement without removing the valve from the line where possible.



THE PRATT® SEAT ON BODY DESIGN ADVANTAGE

A key aspect of butterfly valve design relates to location of the rubber seat. Essentially the seat can be positioned on the body or on the disc per AWWA C504.

But the sum of the Pratt design, testing, and field experience has proven conclusively that seat on body design is preferred because it provides maximum reliability.

The major advantage of seat on body design is that the risk of damage to the rubber seat is minimized because the sealing edge of the disc is much harder than any corrosion deposits built up within the valve body or pipeline. (See Figures 1 and 2) This is important because build up can interfere with the swing radius of the disc. Additionally, seats on body are recessed and thus more protected than seat on disc designs.

Seat on disc designs are much more susceptible to damage because it is the relatively soft rubber seat on the disc that comes into contact with corrosion deposits and build up. Also any solid materials flowing in the fluid can impinge on a rubber seat located on the disc. (See Figure 3)

Another disadvantage of seat on disc design is that since the maximum velocity in a pipeline occurs at the upstream and downstream leading edges of the disc, the rubber seat on disc designs are much more susceptible to wear, vibration and potential loosening of hardware.

Conclusion: Pratt seat on body designs which do not depend on retaining hardware in the waterway for seat retention have recognized these potential problems and addressed them in advance. Successful field performance has substantiated the credibility of this design approach!!

PRATT® – RUBBER SEAT ON BODY DESIGNS

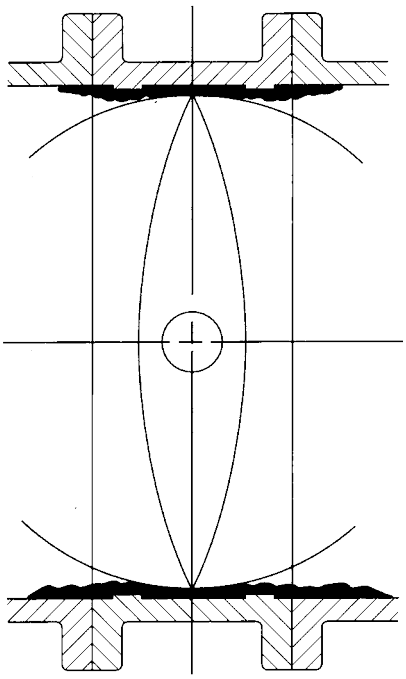


FIGURE 1

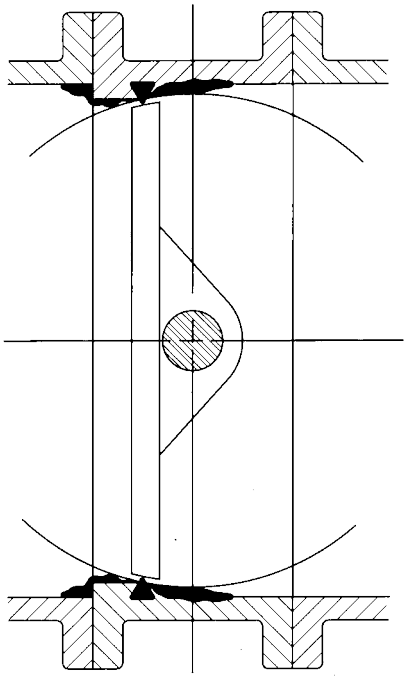


FIGURE 2

RUBBER SEAT ON DISC

DESIGN BY OTHERS

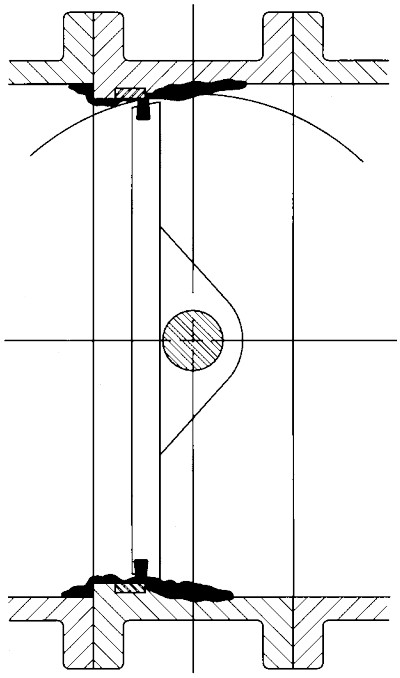


FIGURE 3

HP250II® BUTTERFLY VALVE, 125# FLANGED & MJ SPECIFICATION

GENERAL

Butterfly valves shall be manufactured in accordance with the latest revision of AWWA Standard C504 Class 250B, shall be suitable for a differential pressure of 250 psig, and be certified to NSF Standard 61. Valves shall be Pratt® Model HP250II and comply with the following details:

VALVE BODIES

The body shall be constructed of Ductile Iron ASTM A536 Gr. 65-45-12, with flanged end connections drilled in accordance with ANSI B16.1, Class 125 or Mechanical Joint ends. The body wall thickness shall be in strict accordance with AWWA C504.

VALVE SHAFTS

The shaft shall be made of ASTM A-564 Type 630 condition H-1150. The shaft seals shall be "V" type packing. Shaft seals shall be of a design allowing replacement without removing the valve shaft. No O-ring or "U" cup packing shall be allowed. The bearing shall be a stainless steel backed Teflon material. Bearing load shall not exceed 1/5 of the compressible strength of the bearing or shaft material.

VALVE DISCS

The disc shall utilize an on-center shaft and symmetrical design, cast from Ductile Iron ASTM A536 Gr. 65-45-12. The disc edge shall be stainless steel type 316. Disc shall be retained by pins that extend thought the full diameter of the shaft. The pin material shall be the same as the shaft material. Torque plugs or tangential fasteners shall not be allowed. For valve sizes 3″ through 20″ the rubber seat shall be of one piece construction, simultaneously molded and bonded directly into the body. The seat material shall be either Buna-N or EPDM rubber.

VALVE ACTUATORS

Manual actuators shall be of the traveling nut, self-locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without fluttering or creeping. The actuator shall have mechanical stops that will withstand and input torque of 450 ft/lb. against each stop. Manual actuators shall conform to AWWA Standard C504 and shall be Pratt MDT or an approved equal.

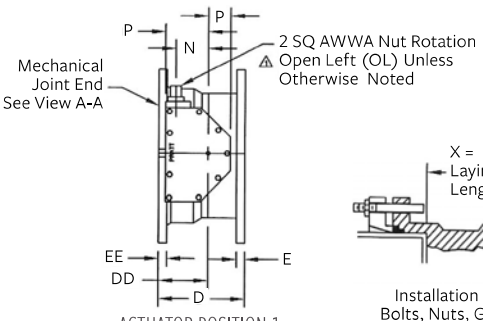
HP250II® 6″-16″, DUCTILE IRON BODY, FLANGED X MJ

VALVE SIZE	A	B	C	CC	D	DD	E	EE	F	FF	G	GG	X
6	6-1/2	5-1/8	11	11	6-3/4	4-1/4	1-1/16	1-1/16	8-3/4	6-3/4	9-1/2	9-1/2	4-1/4
8	7-3/4	6-1/2	13-1/2	13-1/4	7-5/16	4-5/16	1-1/8	1-1/8	8-3/4	6-3/4	11-3/4	11-3/4	4-13/16
10	9	9-7/8	16	15-9/16	9	5	1-1/4	1-3/16	12-7/8	8-3/4	14-1/4	14	6-3/4
*Qty: 11 12	10-1/2	11-3/8	19	17-15/16	9-1/4	5-1/4	1-1/4	1-1/4	12-7/8	8-3/4	17	16-1/4	6-3/4
*Qty: 1 16	13-1/2	14-3/8	23-1/2	22-9/16	10	6	1-7/16	1-3/8	16-1	12-3/4	21-1/4	21	6-1/2

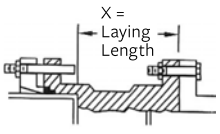
ACTUATOR SIZE	J	L	M	N	P	Q	R	NUMBER OF TURNS
MDT-2S	4-11/16	2	2-1/8	2	4-1/2	4-1/2	8-1/4	32
MDT-3S	5-5/8	2-7/16	3-1/4	3-5/32	5-5/8	5-3/8	10-3/8	30
MDT-45	6-3/8	2-27/32	3-3/8	4	7-5/16	6-3/4	11-5/16	40

Notes:

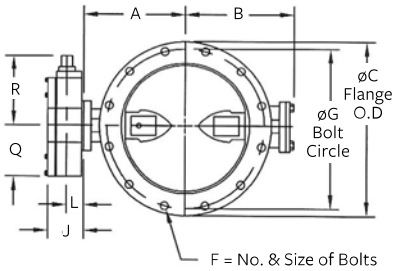
1. All dimensions shown in inches.
2. "D" dimension ±1/16″ for 6″ thru 10″ valves.
   "D" dimension ±1/8″ for 12″ thru 20″ valves.
3. For bolts smaller than 1-3/4, bolt holes will be 1/8″ larger than diameter of bolt. For bolts 1-3/4 or larger, bolt holes will be 1/4″ larger than diameter of bolt.
4. Dimensions and drilling of end flanges conform to the American Cast Iron Flange Standards, Class 125 (B16.1).
5. Dimensions and drilling of mechanical joint end conform to ANSI/AWWA C111 / A21 / 11.
6. Valves manufactured & tested in accordance with AWWA Specification C504 latest revision, Class 250B.
7. Recommendation for mating flanges: Where insulating bushings are used, it is necessary that bolt holes be drilled oversize by an amount equal to two times the insulating sleeve thickness to maintain the same minimum clearance for bolts.

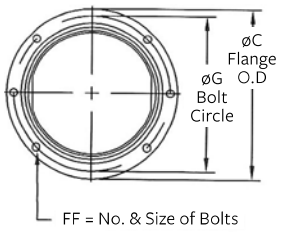


ACTUATOR POSITION 1



Installation Diagram
Bolts, Nuts, Glands, and
Gaskets Furnished by Others





VIEW A-A

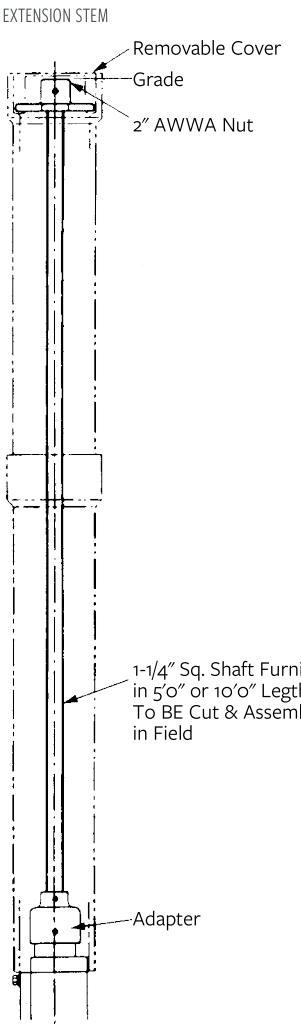
DIVINER®

Ground Level Position Indicator

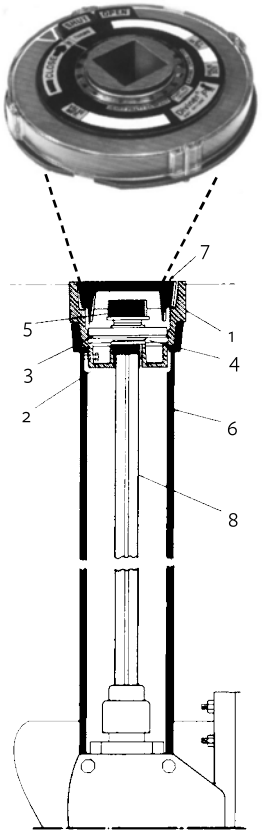
The Pratt® Diviner position indicator is a useful accessory that identifies valve position at a glance, as well as direction and number of turns to open or close completely. This durable indicator is designed for simple operation, strength and reliability. All working parts are constructed of non-metallic material that is virtually indestructible in this kind of service. Hermetically sealed, the internal gearing is protected from the elements with a clear, tough plastic cover.

The Diviner position indicator is shipped for field assembly complete with cast iron adapter (1) and cap screws, guide bushings (2), position indicator (3), flexible washer (4), and a two-inch square AWWA nut (5) with set screw. The adapter fits a standard 5 1/4 inch valve box (6) or 5 inch cast iron soil pipe bell utilizing a cast cover with skirt depth of 1" or less (7). Extension stems (8) are available in 5-foot and 10-foot lengths and can be ordered separately at extra cost.

The device is designed for use with valves requiring 250 turns or less. Specify number of turns required for valves not made by us.



Typical application in 5" Soilpipe.



PPG Amercoat

Amercoat® 370

370 Series

Fast-dry multi-purpose epoxy

Product Data/ Application Instructions

- High performance, corrosion resistance
- Fast drying, fast curing epoxy composition
- Application over wide range of surface temperatures from 20°F (-7°C) to 120°F (60°C)
- Self-priming, high-build coating
- Primer for wide range of topcoats
- Excellent shop primer for corrosion resistance
- Compatible with inorganic zinc silicate primers
- No lead pigments added
- VOC compliant
- Suitable for immersion in fresh and salt water
- Compatible with compromised surface preparation

Amercoat 370 forms an excellent corrosion barrier and is suitable for most industrial and marine new construction, repair, and field maintenance applications.

The fast curing properties of Amercoat 370 make it especially beneficial as a shop-applied coating where fast-drying and handling of coated parts are required.

Amercoat 370 is user-friendly and can be applied by a variety of spray application methods.

Typical Uses

Tank exteriors, structural steel, and piping in chemical plants, refineries, pulp and paper mills, offshore platforms, ship hulls, ballast tank service, anticorrosive under antifoulings and other structures exposed to severe weathering or salt spray.

Typical Properties

Physical

Abrasion (ASTM D4060) 1 kg load/1000 cycles CS-17 wheel	250 mg weight loss
Adhesion, Elcometer (ASTM D4541)	>1000 psi

Performance

Salt spray – 1 coat @ 6 mils 3000 hours exposure	
face corrosion (ASTM B117)	None
face blistering (ASTM B117)	None
Humidity (condensation) (ASTM D4585) 3000 hours exposure	
face corrosion	None
Steam cleanable	Yes
Chemical resistance – Condition after 1 year immersion	
salt water	Excellent
fresh water	Excellent

Qualifications

AWWA C550

NSF Standard 61* - For use in drinking water.

**For NSF application information, please visit our website at www.ppgamercoat.ppgpmc.com/NSF/*

Physical Data

Finish	Flat	
Color	Pearl gray, light buff, white, oxide red	
Components	2	
Curing mechanism	Solvent release and chemical reaction between components	
Volume solids (ISO 3233)	66% ± 3%	
Dry film thickness per coat	4-6 mils (100 - 150 microns)	
Coats	1 or 2	
Coverage	ft²/gal	m²/L
1 mil (25 microns)	1059	25.4
5 mils (125 microns)	212	5.1
VOC	lb/gal	g/L
mixed	2.5	300
mixed/thinned (½ pt/gal)	2.8	335
mixed/thinned (1pt/gal)	3.0	359
Temperature limit	°F	°C
continuous (dry)	200	93
intermittent (dry)	250	121
Flash point (SETA)	°F	°C
cure	82	28
resin	82	28
Amercoat 65	81	27
Amercoat 12	2	-17
Amercoat 101	145	63

Application Data

Applied over	Primed or prepared steel	
Surface preparation		
new steel	SSP-SP6	
primed steel	See specific primer	
previously painted or pitted steel	SSPC-SP10	
Primer	Dimetcote®	
Method	Airless or conventional spray	
Mixing ratio (by volume)	4 parts resin to 1 part cure	
Environmental conditions		
Temperature	°F	°C
air and surface	20 to 120	-7 to 49
material (minimum)	40	4

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Thinner	
below 60°F	Amercoat 65
over Dimetcote or above 60°F	Amercoat 101
Equipment cleaner	Thinner or Amercoat 12

Amercoat 370 Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	F	G
Alkaline	E	E
Solvents	E	E
Salt solutions		
Acidic	G	VG
Neutral	E	E
Alkaline	E	E
Water	E	E

F-Fair G-Good E-Excellent VG-Very Good

This chart shows typical resistance of Amercoat 370. Contact your PPG representative for your specific requirements.

Systems Using Amercoat 370

1st Coat	2nd Coat	3rd Coat
Amercoat 370	–	–
Amercoat 370	Amershield™	–
Amercoat 370	450H	–
Dimetcote 9 Series, 21-5	370	Amershield, 450H
Amercoat 68HS	370	Amershield, 450H
Amercoat 370	370	ABC 3, ABC 4

Confirm compliance with VOC regulations before using coating systems. For immersion service, apply 2 coats at a minimum of 8 mils total DFT.

Over Dimetcote or Amercoat 68HS primer, a mist coat and thinning with Amercoat 101 may be required to prevent application bubbling.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Surface must be clean, dry, undamaged and free of all contaminants prior to coating.

Welds should be continuous with no overlapping steel surfaces or rough edges. Remove all weld spatter.

Steel, non-immersion – Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP2, 3, 6, 7 or 11. UHP waterjetting per SSPC SP-12 WJ2 is also acceptable.

Steel, immersion – For more severe service and immersion, clean to SSPC-SP10. The choice of surface preparation will depend on the system selected and end-use service conditions.

Blast to achieve a surface profile not to exceed 3 mils (75 microns) as indicated by a Keane-Tator Surface Profile Comparator Testex Tape. Increase coating thickness if profile greater than 3 mils.

Primed steel – Prepare surface in accordance with application instructions for the specific primer being used. Be sure primer is clean and dry when Amercoat 370 is applied. Remove all loose rust, dirt, moisture, grease or contaminants.

Repair – Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating. Thoroughly remove dust or abrasive residue before touch up.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Airless spray – Standard equipment such as Graco Bulldog Hydra-Spray or larger with a 0.015- to 0.021-inch (0.38 mm to 0.53 mm) fluid tip.

Conventional spray – Industrial equipment, such as DeVilbiss, MBC or JGA gun with 78 or 765 air can and "E" fluid tip, or Binks No. 18 or 62 gun with a 66x63PB nozzle set up. Separate air and fluid pressure regulators, mechanical pot agitator, and a moisture and oil trap in the main air supply line are recommended.

Environmental Conditions

Temperature	°F	°C
air and surface	20 to 120	-7 to 49
material	40	4

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Application Procedure

Amercoat 370 is packaged in two components in the proper proportions which must be mixed together before use.

1. Flush equipment with thinner or Amercoat 12 before use.
2. Stir each component thoroughly, then combine and mix until uniform.
3. For general use, if thinning is necessary for workability, add Amercoat 65 below 60°F or Amercoat 101 at 60°F and above. Thin in quantities up to 1 pint per gallon of Amercoat 370. For potable water tanklining applications, see current NSF listing at www.nsf.org for approved thinner and thinning restrictions.
4. Do not mix more material than will be used within 4 hours at 70°F (21°C). Pot life is shortened by higher temperatures. Thinning may be necessary for workability periodically throughout pot life.

Pot Life and Dry Times

Temperature (°F/°C)	Pot-Life (Hours)	Touch Dry (Min.)	Through Dry (Hours)	Recoat (Hours)
20/-7	—	90	20	2½
32/0	—	60	9	2
40/4	7	45	7	2
50/10	6	30	4½	1½
60/16	5	22	2¾	1
70/21	4	15	1⅓	½
80/27	3	12	1¼	½
90/32	2	10	1	⅓

Topcoat or recoat time (days) (maximum)

	°F/°C 90/32	70/21	50/10	20/-7
Amercoat 450H, Amershield™	14	30	45	60

Amercoat 370	
non-immersion	6 months – Clean surface required *(clean and roughen if exceeded)*
immersion	1 month – Clean surface
ABC 3, ABC4	Apply while 370 is soft to thumb pressure*

** Failure to apply antifoulings while coating is still soft to thumb pressure may result in poor adhesion and eventual delamination.*

Drying times are dependent on air and surface temperatures as well as film thickness, ventilation and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures - not simply ambient air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface tempertures shorten the maximum recoat window.

If maximum topcoat time is exceeded, either clean and roughen the Amercoat 370 surface or clean and apply a tack coat of Amercoat 370 before topcoating with Amercoat 450H, Amershield or antifouling.

Time before service @ 8 mils (hours) °F/°C

Amercoat 370	90/32	70/21	50/10	32/0	20/-7
non-immersion**	6	12	24	96	120
immersion	12	24	48	168	NR

NR=Not recommended

***Cure to full physical properties.*

5. When applying by conventional spray, use adequate air pressure and volume to ensure proper atomization.
6. When applying over inorganic zinc or zinc rich primers, a "mist coat" 1-1½ mils wet,/full coat technique may be required to minimize bubbling. This will depend on the age of the Dimetcote, surface roughness and conditions during curing. When applying Amercoat 370 over Dimetcote at 60°F and above, use Amercoat 101 thinner up to 1 pint per gallon. For potable water tanks, use only Amercoat 65 thinner.
7. Normal recommended dry film thickness is 5 mils (125 microns). Total dry film thickness must not exceed 15 mils (375 microns).

8. The application of a wet film thickness of 7 to 8 mils (175 to 200 microns) will normally provide 5 mils (125 microns) of dry film.
9. Clean all equipment with thinner or Amercoat 12 immediately after use.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for professional use only. Not for residential use.

Shipping Data

Packaging units	1 gal	5 gal
cure	0.2 gal in 1-qt can	1 gal in 1-gal can
resin	0.8 gal in 1-gal can	4 gal in 5-gal can

Shipping weight (approx)	lb	kg
1-gal unit		
cure	1.9	0.9
resin	14.2	6.5
5-gal can		
cure	8.6	3.9
resin	70.4	32

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
cure and resin — 1 year from shipment date

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

This product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

PPG Protective & Marine Coatings
www.ppgpmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695

NOTES

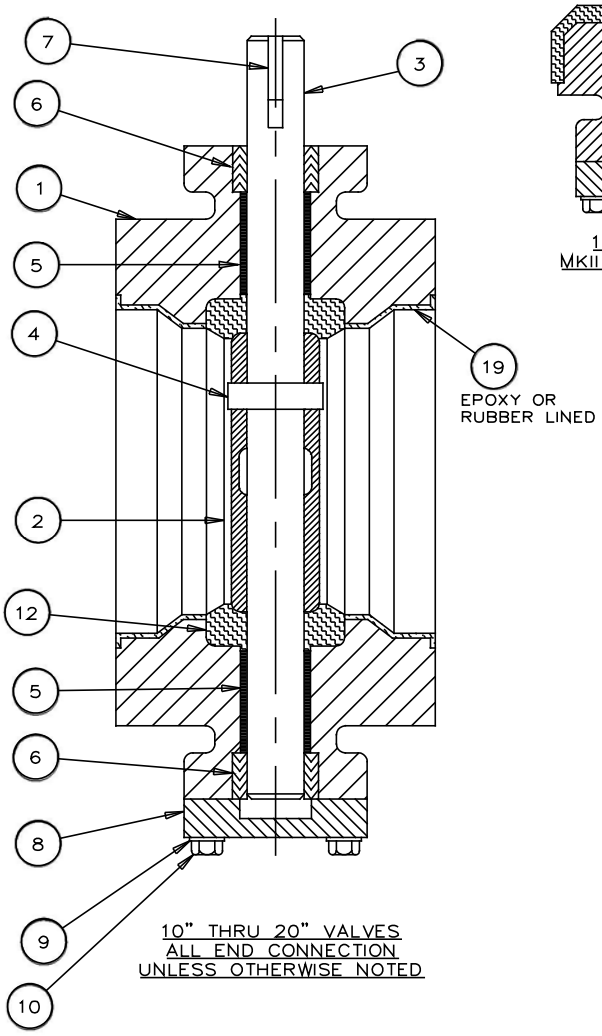
- All Valves to be Bi-Directional & Holiday Tested with Documentation Provided by Pratt
- All Valves Standard Open Left unless otherwise noted
- Actuator Sizes Confirmed as follows on Class 250B Butterfly Valves (12" & 16")

12" Flange x Mechanical Joint 250B Butterfly Valve 125# Drilling, EPDM Seat, DI Body, DI Disc, 17-4SS Shaft, Nylatron Bearing, MDT3S Buried Service Nut Open Left , Fully Rubber-Lined Body, 16 Mils avg. Fusion Bond Epoxy Interior, 16 Mils avg. Fusion Bond Epoxy Exterior, 316SS Hardware

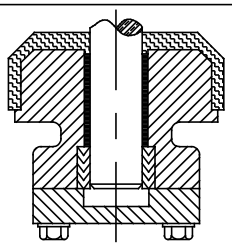
16" Flange x Mechanical Joint 250B Butterfly Valve 125# Drilling, EPDM Seat, DI Body, DI Disc, 17-4SS Shaft, Nylatron Bearing, MDT4S Buried Service Nut Open Left , Fully Rubber-Lined Body, 16 Mils avg. Fusion Bond Epoxy Interior, 16 Mils avg. Fusion Bond Epoxy Exterior, 316SS Hardware

RUBBER LINING OF BODY NOT REQUIRED.

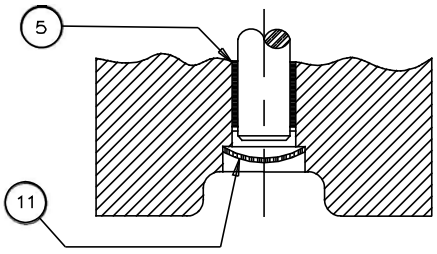
- Cross Section & Materials of Class 150B & Class 250B Valves on pg. 23 & 24



10" THRU 20" VALVES
ALL END CONNECTION
UNLESS OTHERWISE NOTED



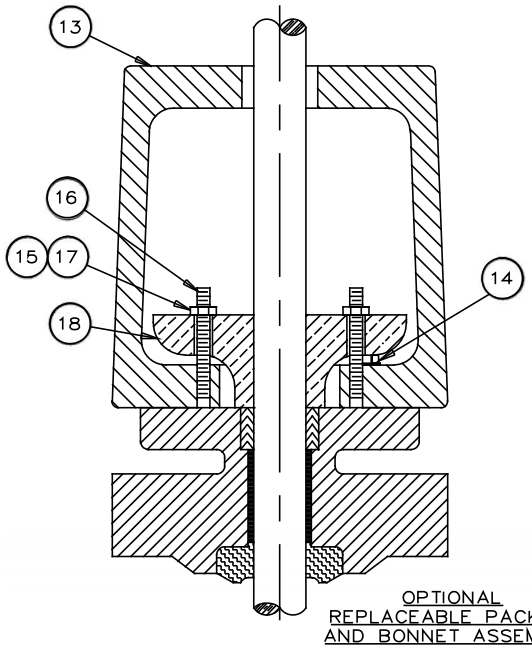
10" THRU 20"
MKII WAFER VALVES



3" THRU 8" VALVES
ALL END CONNECTIONS
UNLESS OTHERWISE NOTED

MATERIAL OPTIONS AS CHECKED

ITEM NO.	DESCRIPTION	MATERIALS	✓
1	BODY	CAST IRON ASTM A-48 CLASS 40 (MKII ONLY)	
		CAST IRON ASTM A-126 CLASS B *	
		DUCTILE IRON ASTM A-536 (65-45-12)	
2	DISC	CAST IRON ASTM A-126 CLASS B STAINLESS STEEL EDGE TYPE 316 (DUCTILE IRON MAY BE SUBSTITUTED)	
		DUCTILE IRON ASTM A-536 (65-45-12) STAINLESS STEEL EDGE TYPE 316	
		STAINLESS STEEL ASTM A-351 GRADE CF8M	
3	SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
4	SQUEEZE PIN	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
5	BEARING	NYLATRON GS	
		RULON LR (HIGH TEMPERATURE ONLY)	
		FLUOMETAL (PTFE IMPREGNATED W/ EXPANDED 317L METAL SHEET)	
6	PACKING	RUBBER BUNA-N	
		RUBBER (EPDM)	
7	KEY	AISI C1045 COLD DRAWN STEEL	
8	COVER	CAST IRON ASTM A-48 CLASS 40	
		CAST IRON ASTM A-126 CLASS B	
		DUCTILE IRON ASTM A-536 (65-45-12)	
9	LOCKWASHER	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
10	CAP SCREW	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
11	EXP. PLUG	STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
12	SEAT	RUBBER BUNA-N	
		RUBBER (EPDM)	
13	BONNET	CAST IRON ASTM A-48 CLASS 40 FOR 3"-10" & 12" W/ MDT2S	
		DUCTILE IRON ASTM A-536 65-45-12 FOR 10" W/ MDT3S & 12" -20"	
14	CAP SCREW	ALLOY STEEL SAE GRADE 8	
15	LOCKWASHER	STAINLESS STEEL TYPE 304	
16	THD. STUD	STAINLESS STEEL TYPE 304	
17	HEX NUT	STAINLESS STEEL TYPE 304	
18	GLAND	BRONZE ASTM B-584 ALLOY C86400	
19	LINING	EPOXY	
		RUBBER (SAME AS 12)	



OPTIONAL
REPLACEABLE PACKING
AND BONNET ASSEMBLY

RUBBER LINING OF BODY NOT REQUIRED.

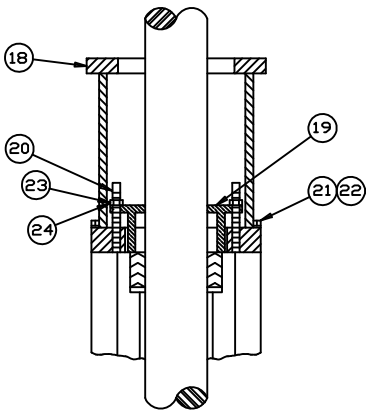
* DUCTILE IRON MAY BE SUBSTITUTED FOR 3" & 4" BODIES

REV	DATE	BY	DESCRIPTION	APP
3	10/19/17	JUR	UPDATED TITLE BLOCK	SS
2	01/18/16	JCL	ADDED DI COVER OPTION	RF
1	5/28/14	DSL	UPDATED TITLE BLOCK	SJS

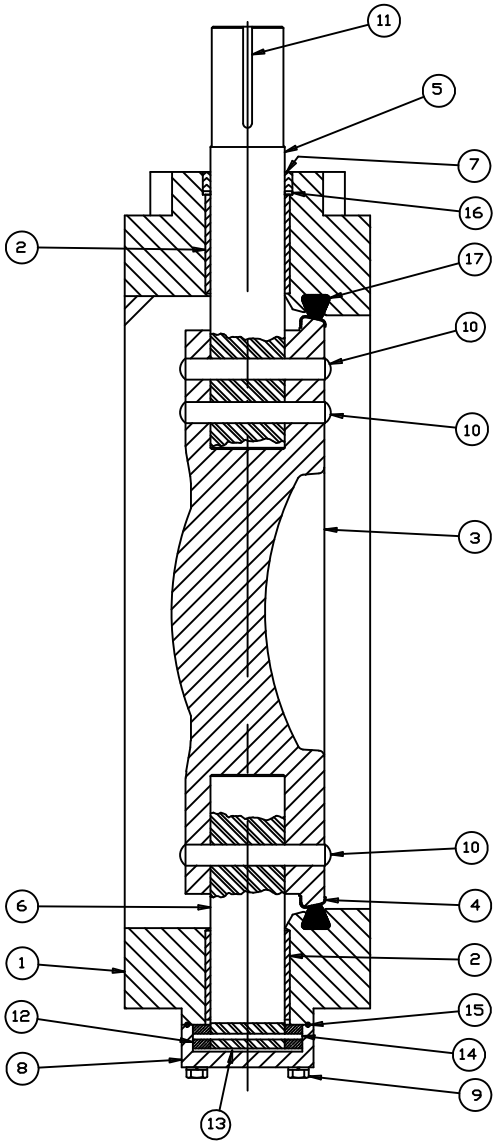
PRATT

CROSS SECTION
PARTS AND MATERIALS LIST
3"-20" BONDED SEAT VALVES
150B & 250B

SCALE NONE DATE 10-27-05
DRAWN BY ES CHECKED BY RCB
APPROVED GA=BORDER
DRWG. NO. GA-11486 REV 12 A/C



OPTIONAL
REPLACEABLE PACKING BONNET
ASSEMBLY



MATERIAL OPTIONS AS CHECKED

ITEM NO.	DESCRIPTION	MATERIALS	✓
1	BODY	CAST IRON ASTM A-126 CLASS B	
		DUCTILE IRON ASTM A-536 (65-45-12)	
2	BEARINGS	TEFLON LINED, FIBERGLASS BACKED	
3	DISC	DUCTILE IRON ASTM A-536 (65-45-12)	
4	DISC EDGE	STAINLESS STEEL TYPE 316	
5	TOP STUB SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
6	BOTTOM STUB SHAFT	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
7	PACKING	RUBBER (BUNA-N)	
		RESILOSEAL W (EPDM)	
8	BOTTOM COVER	DUCTICLE IRON ASTM A-536 (65-45-12)	
		CAST IRON ASTM A-126 CLASS B	
9	CAP SCREWS	CARBON STEEL	
		STAINLESS STEEL TYPE 304	
		STAINLESS STEEL TYPE 316	
10	SQUEEZE PINS	STAINLESS STEEL ASTM A-276 TYPE 304	
		STAINLESS STEEL ASTM A-276 TYPE 316	
		STN. STL. A-564 TYPE 630 COND. H-1150	
		MONEL ASTM B-164 ALLOY 400	
11	KEY	CARBON STEEL AISI 1045	
12	THRUST COLLAR	BRONZE ASTM B-505 ALLOY C93200	
13	THRUST COLLAR SHIMS	BRASS ALLOY C26000 HALF HARD (H02)	
14	SPRING PIN	STAINLESS STEEL TYPE 420	
15	O-RING	RUBBER (BUNA N)	
		RUBBER (EPDM)	
16	PACKING RETAINER	NYLON	
17	SEAT	RESILOSEAL R (BUNA-N)	
		RESILOSEAL W (EPDM)	
18	BONNET	CAST IRON ASTM A-48 CLASS 40	
19	PACKING GLAND	BRONZE ASTM B-584 ALLOY C86400	
20	PACKING GLAND STUD	STAINLESS STEEL TYPE 304	
21	CAP SCREWS	CARBON STEEL	
22	LOCKWASHERS	CARBON STEEL	
23	PACKING GLAND NUT	STAINLESS STEEL TYPE 304	
24	LOCTITE	GRADE CV	

REV.	DATE	BY	DESCRIPTION	APP.
6	10/19/17	JUR	UPDATED TITLE BLOCK	RF
5	4/22/16	DSL	UPDATED ORING MATL	RF
4	7-15-11	JTC	UPDATED MATERIAL	RCB
3	1-5-11	CEM	ADD MATERIAL OPTION	RCB
2	7-19-06	RCB	DELETED C.I. OPTION	PPS
1	4-6-06	CEG	ADDED DUCTILE OPTION	JR

PRATT

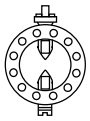
CROSS SECTION
PARTS AND MATERIAL LIST
24" TRITON-XR
BUTTERFLY VALVE

SCALE NONE DATE 2-04-05
DRAWN BY AAT CHECKED BY ES
APPROVED GA=BORDER
DRWG. NO. GA-11337 REV 6 A/C

PRATT®

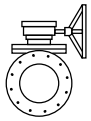
a MUELLER brand

PRATT
Product Guide

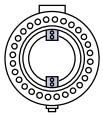


MODEL 2FII

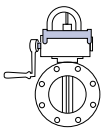
MONOFLANGE MKII



PLUG VALVES

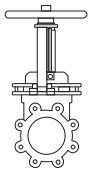


TRITON® XR70

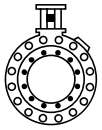


INDICATING BUTTERFLY VALVES UL & FM APPROVED

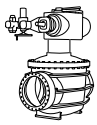
TILTING DISC CHECK VALVES



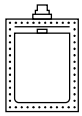
KNIFE GATE VALVES



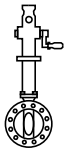
N-STAMP NUCLEAR BUTTERFLY VALVES



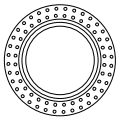
CONE VALVES



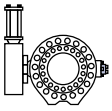
RECTANGULAR



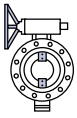
PIVA POST INDICATING VALVES ASSEMBLY UL & FM APPROVED



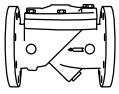
SLEEVE VALVES



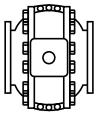
RUBBER SEATED BALL VALVES



TRITON® 250

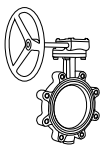


CHECK VALVES

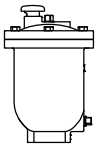


METAL SEATED BALL VALVE

CONTROL SYSTEMS



INDUSTRIAL VALVES



AIR VALVES

For more information about Pratt or to view our full line of water products, please visit www.prattvalve.com or call Pratt customer service at 1.800.423.1323.

F 13087 11/18

MUELLER

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

August 20, 2024

VIA EMAIL
East Larimer County Water District
Attn: Mike Scheid
232 South Link Lane
PO Box 2044
Ft. Collins, Colorado 80524

RE: Review of Design and Requirements for Connections to the NEWT III Pipeline

Dear Mr. Scheid,

North Weld County Water District ("North Weld") is aware of East Larimer County Water District's ("ELCO") intent to make connections at designated locations on the NEWT III pipeline. North Weld acknowledges ELCO's right to make connections to the NEWT III pipeline as per the Intergovernmental Agreement regarding NEWT III dated June 14, 2021 (the "Agreement") between North Weld and ELCO.

This letter is to formally request the opportunity to review the design of any proposed connections by ELCO to ensure they meet the necessary specifications and request acknowledgment that variable flow control devices are required in the design and construction of all interconnects as per the intent of the Agreement. In accordance with Section 11 of the Agreement, it is imperative that all connections include appropriate metering and variable flow control devices with telemetry that enables mutual transparency between the districts and with SCWTA.

Incorporating metering and flow control equipment is a relatively minor cost in the context of the overall design and construction of these connections. However, it is crucial for the accurate management and monitoring of water flow. This provision will aid both North Weld and ELCO in avoiding future issues similar to those encountered with mass balancing water usage in the shared 24" water line. The loss of flows from the North Weld system to the ELCO system while utilizing the Summit View Pump Station has presented difficulty in recent years with North Weld's ability to manage its system. NEWT III is a solution to this issue but only if appropriate flow control devices are installed at the interconnection locations.

Please provide North Weld with the design plans and specifications for the proposed CR 5 interconnect when available and as you move forward with the other proposed locations. Please provide North Weld with written notification that ELCO intends to include appropriate metering

NORTH WELD COUNTY WATER DISTRICT

32825 CR 39 • LUCERNE, CO 80646

P.O. BOX 56 • BUS: 970-356-3020 • FAX: 970-395-0997

WWW.NWCWD.ORG • EMAIL: WATER@NWCWD.ORG

and variable flow control devices with appropriate telemetry at all connections. Our team will review these details promptly to ensure compliance with the Agreement and to facilitate a smooth implementation process.

Thank you for your attention to this matter. We look forward to your response and to working together to maintain the integrity and efficiency of our shared water infrastructure.

Sincerely,

NORTH WELD COUNTY WATER DISTRICT

Eric Reckentine

Eric Reckentine, District Manager

10. **Action: Divide Irrigation Co. and NPIC Water Trade (enclosures, Separate Cover, Privileged and Confidential)**

12. **Discussion: Proposed IGA between Town of Severance, Severance South, and NWCWD related to Severance South Waterline (enclosures, Separate Cover, Privileged and Confidential)**