

GREATROCK NORTH WATER AND SANITATION DISTRICT

8390 E. Crescent Pkwy., Suite 300
Greenwood Village, CO 80111
(P) 303-779-5710 (F) 303-779-0348
www.colorado.gov/greatrocknorthwsd

Mission: To provide the highest quality of water at the most affordable price for current customers and to provide for the expansion of the District as growth occurs.

NOTICE OF REGULAR MEETING AND AGENDA

DATE: May 3, 2022
TIME: 4:30 P.M.
LOCATION: This meeting will be held via teleconferencing and can be joined through the directions below:
ACCESS: You can attend the meeting in any of the following ways:

- 1. To attend via MS Teams videoconference use the below link –
https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGRmYmFhODAtMDM1Yi00NWY5LTgyYzktOTEzMGZkNjc4MzM2%40thread.v2/0?context=%7b%22Tid%22%3a%224aaa468e-93ba-4ee3-ab9f-6a247aa3ade0%22%2c%22Oid%22%3a%227e78628f-89cd-4e97-af6c-60df84b55ffe%22%7d
- 2. Or by calling 1-720-547-5281 & entering the following Phone Conference ID: **345 031 154#**

<u>Board of Directors:</u>	<u>Office</u>	<u>Term Expires</u>
Robert William Fleck	President	May, 2023
John D. Wyckoff	Vice President	May, 2022
Jeffrey Polliard	Treasurer	May, 2022
Brian K. Rogers	Secretary	May, 2023
Dave Lozano	Asst. Secretary	May, 2022

<u>Consultants:</u>	
Lisa A. Johnson	District Manager
Jennifer Gruber Tanaka, Esq.	District General Counsel
Erin K. Stutz, Esq.	
Nicholaus Marcotte, PE	District Engineer
Mike Murphy	District Operator in Responsible Charge

Greatrock North Water and Sanitation District
May 3, 2022 Agenda

I. ADMINISTRATIVE MATTERS (Action Items Status Matrix – enclosure - 002).

- A. Present Disclosures of Potential Conflicts of Interest.
- B. Approve Agenda.
- C. Board of Director’s Report.
- D. District Manager’s Report (enclosure – 003).

II. CONSENT AGENDA

- A. 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.
 1. Approve the Minutes of the April 5, 2022 regular meeting (enclosure – 004).
 2. Ratify approval of the payment of claims for the period ending April 26, 2022 in the amount of \$228,067.14 (enclosure - 005).
 3. Operations and Maintenance Activities Report (enclosure – 006).
 4. Review meter installation report (enclosure – 007).
 5. Acceptance of cash position schedule property tax schedule for the period ending March 31, 2022 updated through April 22, 2022 (enclosure – 008a and b).
 6. Review and consider approval of Master Service Agreement with CliftonLarsonAllen LLP and related statements of work for accounting, billing and management services (enclosure - 009).

III. FINANCIAL MATTERS

IV. ENGINEER’S REPORT (enclosure – 010)

- A. Capital Projects Update
 1. Third Alluvial Well
 2. Evaporation Pond
 3. Reverse Osmosis Treatment Facility
 - a. Review and consider approval/ratify approval of Change Order No. 2 to the Construction Contract with Moltz Construction to extend the contract to allow for delay due to County Planning and Zoning Process in the amount of \$10,973.00 (enclosure - 011).
 - b. Review and consider approval/ratify approval of Change Order No. 3 to the Construction Contract with Moltz Construction for costs associated with lowering and enlarging the concentrate pond piping down Rayburn to the intersection of 162nd Ave. in the amount of \$371,222.00 (enclosure – 012a-c).
 - c. Review and approve Pay Application No. 5 to the Construction Contract with Moltz Construction in the amount of \$115,854.84 (enclosure – 013).

Greatrock North Water and Sanitation District
May 3, 2022 Agenda

V. OPERATIONS AND MAINTENANCE MATTERS (ORC Report – enclosure – 014).

1. Discuss cost to install evaporator in current ponds.
2. Discuss and consider approval of Laramie Fox Hills 3 (“LFH3”) VFD replacement.
3. Status of proposals to uncover and raise valves on Hudson Mile Road.

VI. LEGAL MATTERS

VII. OTHER MATTERS

- A. Status of Homestead Heights/Country Club Ranchettes #1.
- B. Status of Hayesmout Estates.
- C. Status of Ridgeview Estates.
- D. Status of Country Club Ranchettes Filing No. 2.
- E. Farewell with Gratitude to Directors Polliard and Lozano.
- F. Discuss replacement of Director Polliard on monthly invoice approval in Bill.com.
- G. Discuss interest in assuming the responsibilities of preparing periodic newsletters.

VIII. COMMUNITY COMMENTS (ITEMS NOT ON THE AGENDA ONLY. COMMENTS LIMITED TO 3 MINUTES PER PERSON AND TAKEN IN ORDER LISTED ON SIGN UP SHEET).

IX. ADJOURNMENT

INFORMATIONAL ITEM:

- Rate Increase Letter / White & Jankowski LLP (enclosure – 015)

**THE NEXT MEETING IS SCHEDULED
for Tuesday, June 7, 2022
at 4:30 p.m.**

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
INCLUSION AND DEVELOPMENT MATTERS										
Homestead Heights Development (a/k/a Country Club Ranchettes Filing No. 1)	12/6/16	Nick	N/A	2		X				<p>12/15/2020: Brad is reviewing submittals for the off-site water connections and requested information on the RHF check valve vault from Manhard Consulting.</p> <p>1/7/2021: New list started. Items preceding 12/2020 on prior action items lists.</p> <p>1/17/2021: Brad emails Laurie at Manhard re: the revised information Blanco needs to resubmit on the RHF check valve vault.</p> <p>1/20/2021: Blanco emails revised submittal for RHF check valve vault to Brad. Brad to review and comment.</p> <p>2/10/2021: Jay Skolnick indicates he has selected a different contractor to perform the work. Brad advised Jay the District needs a schedule and requires a pre-construction meeting.</p> <p>2/18/2021: Brad emailed Jay to request a pre-construction meeting.</p> <p>4/13/21: Jay Skolnick emails inquiry on status of construction observations on Blanco by Bryan Dalrymple; Brad forwards email to Bryan</p> <p>4/19/21: MMI meeting with Bryan Dalrymple to review inspection and testing records cancelled due to weather forecast.</p> <p>05/10/2021: A pre-construction meeting scheduled for May 11 for the on-site water system improvements was postponed since the developer does not have plans approved by Adams County therefore no work can be performed within the new rights-of-way.</p> <p>05/10/2021: Adams County cannot approve the plans or issue any permits until the County has received and approved the surety for the SIA.</p> <p>9/7/21: Nick is working with the developer to relocate fire hydrants per County requirements.</p> <p>12/28/2021 – District notified that the County has potentially provided a variance on the relocation of hydrants.</p> <p>02/23/2022 – water line and well easements approved by BOD.</p> <p>3/25/2022 – 11 SDF’s collected to date.</p>

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
Ridgeview Estates	3/3/2020	Nick	N/A	2		X				<p>12/10/2020: Brad meets w/ Blanco Inc. at site of water tie-in at Great Rock Way to review layout and design.</p> <p>1/7/2021: New list started. Items preceding 12/2020 on prior action items lists.</p> <p>1/7/2021: Met yesterday with Blanco regarding tie in at tank site.</p> <p>1/13/2021: GN residents report brown water following tie-in in Great Rock Way. Bryan flushes fire hydrants.</p> <p>2/18/2021: Brad talked with David Moore and emailed DM a request for an updated schedule for coordination with REC and testing required.</p> <p>5/4/2021: onsite water improvements in process and project is almost complete.</p> <p>7/19/21: Offsite water improvements was completed by REC. Onsite water system improvements initial acceptance will be provided after onsite surface improvements (asphalt, curb, gutter) have been placed. Element has notified the developer of this requirement on 7/6/21.</p> <p>8/19/21: An initial walkthrough and punch list was generated and forwarded to the developer's engineer. A response to the punch list is expected when items are complete. After completion a letter recommending initial acceptance will be generated.</p> <p>9/7/21: Developer requested waiver of lien. Board discussed and denied request. Lisa to communicate to Developer.</p> <p>12/28/2021 – Nick drafted initial acceptance letter and transmitted to developer.</p> <p>2/23/2022 – Nick followed up with David Moore in February.</p> <p>3/25/2022 – 7 SDF's collected to date.</p>
CAPITAL PROJECT MATTERS										
Third Alluvial Well	2/5/19	Chris	N/A	2		X				<p>1/5/2021: Brad received memo from Tim Crawford regarding ALV-5. Quantity from well site is favorable. Quality less favorable than other locations but better from monitoring well. Memo summarizing results sent to Brad to review for comment.</p> <p>1/7/2021: New list started. Items preceding 2021 on prior action items lists.</p>

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
										<p>1/11/2021: Brad meets w/ Tony Lopez re: well site easement and pipeline easement. Brad to work up exhibit and discuss w/ Brian at Manhard.</p> <p>2/18/2021: Brad talked with Tim Crawford regarding the well site and pipeline easement needs.</p> <p>4/6/21: Brad emails proposed easements layout to Tim/Chris and requests information from Jay Skolnick and Brian Pfohl</p> <p>4/9/21: Jay indicates easements should be on title work.</p> <p>8/6/21: A meeting was held at Element offices to discuss the third alluvial well. Element is to generate a cost estimate to connect sites 3 and 4 to the existing raw water lines.</p>
Evaporation Pond Matters	1/1/19	Nick	N/A	1		X				<p>1/5/2021: Profile has not changed. Brad to submit to CDPHE again. Need to finalize easement with Jay. If cannot be finalized in 2 weeks, Board to consider moving forward with condemnation proceedings.</p> <p>1/7/2021: New list started. Items preceding 2021 on prior action items lists.</p> <p>1/7/2021: Brad to review options available to expedite process through CDPHE.</p> <p>1/20/2021: Lisa emailed Jody and Jennifer to schedule call related to condemnation efforts to acquire final easement needed to construct pond.</p> <p>2/2/2021: Brad working to finalize easement agreement and legal description. Brad to send to Lisa for next steps when complete.</p> <p>2/2/2021: Brad will provide updated cost estimate.</p> <p>4/9/2021: Brad asked to schedule a meeting with the committee to review additional information / may ask Nick to assist with Evaporation Pond project.</p> <p>5/4/2021: Brad informed the Board that he is no longer able to continue with this project. The Board asked Lisa to gather a list of qualified firms and contact them to solicit interest and a proposal.</p> <p>7/6/2021: Nick to start working on the evaporation pond and prepare a new exhibit related to final easement with Jay Skolnick.</p>

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
										<p>7/19/21: Board has approved Element to complete the evaporative pond design. Work is ongoing.</p> <p>8/13/21: Design work on the evaporation pond and EDOP report is ongoing. Element is finalizing the easement with direct correspondence between Element and Jay’s engineer for CCR Filing 2.</p> <p>9/7/21: Nick is preparing an alternatives analysis regarding pond location and will present his findings at the October board meeting.</p> <p>1/24/22: The board selected the western pond location with the concentrate line in Hudson Mile Road. The design is now being completed in that location.</p> <p>1/24/22: Element requested quotes for utility potholing to confirm utility location and depth for crossings.</p> <p>2/23/2022 – Element working on permit requirements with Adams County.</p> <p>3/25/2022 – Public Meeting will be held on April 5th. Property owners were notified via mail.</p>
RO Treatment Plant Upgrade	2/19/19	Nick	N/A	1		X				<p>12/1/2020: Nick provided updated to Board. Finalizing 95% plans. Followed up with CDPHE to get comments. No comments or questions received to date. Ran into issue with the concentrate line which was discussed with the Board.</p> <p>1/5/2021: No comments received from CDPHE yet.</p> <p>1/7/2021: New list started. Items preceding 12/2020 on prior action items lists.</p> <p>4/9/2021: Nick will follow up with CDPHE on status of final project approval. Bids are due by April 16, 2021.</p> <p>5/4/2021: BOD awarded contract to Moltz Construction. Nick to draft Notice of Award etc. BOD to review CM proposal and provide comments to Rob by 5/12/2021.</p> <p>7/6/2021: Nick to prepare major PUD amendment and process through Adams County</p> <p>7/19/21: Major PUD amendment notifications were sent out to required residences. The required public meeting will be held on 8/3. The application will be submitted to Adams County shortly after.</p>

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
										<p>8/5/21: PUD Application submitted to Adams County.</p> <p>8/20/21: Contractor requested permission to mobilize onsite. Permission granted.</p> <p>9/16/21: Pre-construction meeting held to discuss access and begin site stage.</p> <p>12/28/2021 – Nick and John attended planning commission meeting. Planning Commission approved the plan and recommends approval by BOCC in January.</p> <p>1/11/22 – Nick and John attended the BOCC meeting. The project was approved at this meeting.</p> <p>1/24/22 – Design to remove the sump by lowering the concentrate line in Rayburn are being finalized. This will be issued to the contractor as Field Order No. 1.</p> <p>2/23/2022 – Project began in February.</p> <p>3/25/2022 – Pay Apps 1-3 have been submitted and CO#1 has been submitted.</p>
SCADA/Telemetry Control Upgrade	2/19/19	Mike, Brian	N/A	1		X				<p>10/16/2020: Nick has developed control loop descriptions for review.</p> <p>1/7/2021: New list started. Items preceding 12/2020 on prior action items lists.</p>
OPERATIONAL MATTERS										
Rocks in Brine Discharge Pipe	6/4/19	Mike	N/A	3		X				<p>1/7/2021: New list started. Items preceding 10/2020 on prior action items lists.</p> <p>1/7/2021: Rocks not causing issues right now. Cannot push them out at any point. Would need to cut pipe, clean out and replace area. Do work with pond liner possibly. Not a current emergency. Mike to obtain pricing from Blanco and Dan LaCoe for doing work so can be incorporated into budget.</p> <p>12/26/21: Site visit schedule first week of January to get Element Engineering updated on this project.</p> <p>1/21/22: Element met with REC onsite to discuss potential remedies for this issue.</p>
RHF Generator Replacement	1/7/2021	Mike	N/A	3		X				<p>Mike to obtain pricing for replacement of generator.</p> <p>4/12/2021: Generator Source onsite to gather information for RHF generator replacement.</p>

Greatrock North Water and Sanitation District Action Items Status Matrix—2022

Action Items	Date of Meeting	Assigned To	Deadline	Priority	Not Started	In Process	Reoccurring	Follow up Required	Complete	Notes
										12/8/21: Quote for new replacement submitted by Generator Source. 12/28/2021- Mike presented proposal at December meeting.
GFPD – Emergency Response Plan	01/04/2022	Mike Lisa	N/A	2						Mike and Lisa to contact GFPD to discuss emergency response plan in the event of a fire.
WELL AND WATER MATTERS										
19CW3231 – Statement of Opposition	3/3/2020	Matt	N/A	1		X				2/28/2020: Statement of opposition filed with Court.
20CW3214 – Statement of Opposition	1/5/2021	Lisa Alan	N/A	1		X				Lisa to contact Alan Curtis re representation of District on matter. Case requests for changes of water rights on Box Elder Creek and amendments to a previously decreed augmentation plan that has depletions and replacements on Box Elder Creek. 01/20/2021: Lisa obtained executed engagement letter from all parties. Lisa working with Martin and Wood to discuss the current need for water rights engineering services.
Renewable Water Rights	5/4/2021	Chris	N/A			X				Chris presented options for acquisition of renewable water rights. BOD directed Chris to continue discussions with all options presented. 3/25/2021 – BOD directed Chris to continue discussions for renewable water rights options.
FINANCIAL MATTERS										
ADMINISTRATIVE MATTERS										
Cybersecurity Efforts	3/2/21	Mike	N/A			X				3/2/21: Brad is meeting with the firm that has proposed for SCADA/telemetry on the new plant to discuss protections within their system. 3/2/21: Mike will work with TLECC to discuss additional options for protection of current system.



Date: April 26, 2022

To: Greatrock North Water and Sanitation District, Board of Directors

From: Lisa A. Johnson, District Manager

Re: May 3, 2022 Manager's Report

Agenda Action Items

II.A. Consent Agenda

1. Approve the Minutes of the April 5, 2022 regular meeting.
2. Ratify approval of the payment of claims for the period ending April 26, 2022.
3. Operations and Maintenance Activities Report.
4. Review meter installation report.
5. Acceptance of cash position schedule and property tax schedule for the period ending March 31, 2022 updated on April 22, 2022.
6. Approve Master Service Agreement with CLA and related statements of work.

I recommend approval of the consent agenda items.

VII.A.1. Homestead Heights/ Country Club Ranchettes #1

Updates included in Engineer's Report. In addition, 13 System Development Fees have been collected to date.

VII.B. Hayesmount Estates

20 System Development Fees have been paid as of December 7, 2021.

VII.C. Ridgeview Estates

Updates provided in the Engineer's Report. In addition, 10 System Development Fees have been collected to date.

VII.D. Country Club Ranchettes Filing No. 2 (“CC#2”)

Staff has met twice since the last Board meeting to review and update the inclusion agreement. Final review is underway now.

Review of monthly Water Resumes and Other Water Related Matters

Attorney Poznanovic has reviewed the February resumes and found no cases he recommends the district oppose.

Update on other District Related Matters and/or Committee Meetings

Director Wyckoff, Director Rogers at times, Mr. Marcotte, and I are meeting on Friday mornings at 9 am via Microsoft Teams to discuss weekly updates on the capital projects as well as any operational matters.

In addition, I also attend the weekly capital project call regarding the RO Treatment project.

I recently had a call with representatives of property south and east of Country Club Ranchettes Filing No. 1 regarding interest in including into the district for service. The property owner owns roughly 700 acres of noncontiguous land and is considering developing the land in 3 phases. I will keep the Board informed on any new developments.

I have also received a call from the Epic Estates (directly south of CC#1) and they have indicated they would like to move forward with the inclusion process. I have provided them information on the steps for inclusion and will work with Attorney Tanaka on the form of inclusion to send their way.

RECORD OF PROCEEDINGS

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE GREATROCK NORTH WATER AND SANITATION DISTRICT HELD APRIL 5, 2022

A regular meeting of the Board of Directors (referred to hereafter as “Board”) of the Greatrock North Water and Sanitation District (referred to hereafter as “District”) was convened on Tuesday, April 5, 2022 at 4:30 P.M. The meeting was conducted via video conference – Microsoft Teams. The meeting was open to the public.

ATTENDANCE

Directors in attendance:

Robert W. Fleck
John D. Wyckoff
Jeffrey Polliard
Brian K. Rogers

Absent and excused was Director Lozano.

Also in attendance were:

Lisa A. Johnson, Jenny Penoncello and Michael Jensen; CliftonLarsonAllen LLP (“CLA”)
Mike Murphy; Ramey Environmental Compliance, Inc.
Nick Marcotte and Rachel Lee; Element Engineering, LLC

Member of the Public:

Lisa Jacoby

ADMINISTRATIVE MATTERS

Disclosures of Potential Conflicts of Interest: Ms. Johnson advised the Board that, pursuant to Colorado law, certain disclosures may be required prior to taking official action at the meeting. The Board reviewed the Agenda for the meeting, following which, Directors Fleck, Wyckoff, Rogers and Polliard each confirmed that they had no conflicts of interest in connection with any of the matters listed on the Agenda.

Agenda: Ms. Johnson distributed for the Board’s review and approval a proposed Agenda for the District’s regular meeting. Following discussion, upon a motion duly made by Director Wyckoff, seconded by Director Rogers and, upon vote, unanimously carried, the Board approved the Agenda as presented, and excused the absence of Director Lozano.

Board of Director’s Report: Director Wyckoff reported that he had noticed three valve boxes covered in asphalt within the past few weeks. Ms. Johnson

RECORD OF PROCEEDINGS

contacted Mr. Murphy and Mr. Marcotte to obtain a bid to remove the asphalt and raise or lower the valves.

Director Wyckoff also reported that he reached out to Director Rogers to see if he could start attending the weekly capital construction calls. Director Rogers indicated that he would be willing to attend when he has availability.

Director Wyckoff reported that he is very impressed with the job that Moltz Construction, Inc. is doing on the Reverse Osmosis Water Treatment Plant Project.

District Manager's Report: The Board reviewed the monthly Manager's Report. There were no questions. A copy of the report is attached hereto and incorporated herein by this reference.

CONSENT AGENDA

The Board considered the following actions:

1. Approve the Minutes of the March 1, 2022 regular meeting.
2. Ratify approval of the payment of claims for the period ending March 31, 2022 in the amount of \$172,009.06.
3. Operations and Maintenance Activities Report.
4. Review meter installation report.
5. Acceptance of Cash Position Schedule and Unaudited Financial Statements for the period ending February 28, 2022 and Inclusion Summary.
6. Ratify approval of Change Order No. 1 to the Construction Contract with Moltz Construction, Inc. for a reduction in cost of \$17,536.00 for roofing material change including gutters and downspouts.
7. Ratify approval of Pay Application No. 3 with Moltz Construction, Inc. in the amount of \$114,931.30.

Director Fleck reported that he has been working with Ms. Johnson and Mr. Marcotte to further understand the specifics of Change Order No. 1 to the construction contract with Moltz Construction, Inc. He asked if mark-up costs and bonding costs were included in the change order. Mr. Marcotte confirmed that mark-up or labor costs were included but no bonding costs. Director Fleck asked that any future change orders reflect this type of information with more detail.

Following discussion, upon a motion duly made by Director Wyckoff, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved the Consent Agenda items.

FINANCIAL MATTERS

None.

RECORD OF PROCEEDINGS

ENGINEER'S REPORT

Mr. Marcotte presented his Engineer's Report and provided updates. A copy of the report is attached hereto and incorporated herein by this reference.

CAPITAL PROJECTS UPDATES:

Third Alluvial Well: No new update.

Evaporation Pond:

- **Conduct Public Meeting at 5:30 p.m.:** The public meeting began at 5:30 p.m. Mr. Marcotte reported that 12 letters were sent to property owners regarding the public meeting to learn about the plans to build a new evaporation pond. There were no members of the public in attendance on this topic.

He then presented the information regarding the planning and construction of the third evaporation pond and outlined the steps needed to receive approval to construct the pond.

Reverse Osmosis Treatment Facility:

- **Pay Application No. 4 to the Construction Contract with Moltz Construction, Inc. in the Amount of \$166,085.64:** Following review and discussion, upon a motion duly made by Director Wyckoff, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved Pay Application No. 4 to the Construction Contract with Moltz Construction, Inc. in the amount of \$166,085.64, as presented.

OPERATIONS / MAINTENANCE MATTERS

Operator in Responsible Charge (ORC) Report: Mr. Murphy presented his report and provided updates. A copy of the report is attached hereto and incorporated herein by this reference.

LEGAL MATTERS

None.

OTHER MATTERS

Status of Homestead Heights/Country Club Ranchettes #1: Ms. Johnson provided an update.

Status of Hayesmount Estates: There were no new updates.

Status of Ridgeview Estates: Ms. Johnson and Mr. Marcotte provided an update.

Status of Country Club Ranchettes Filing #2: Ms. Johnson provided an update.

RECORD OF PROCEEDINGS

COMMUNITY
COMMENTS

None.

ADJOURNMENT

There being no further business to come before the Board at this time, upon a motion duly made by Director Wyckoff, seconded by Director Rogers and, upon vote, unanimously carried, the meeting was adjourned at 5:43 p.m.

Respectfully submitted,

By _____
Secretary for the Meeting

Greatrock North Water Sanitation District

16

March Claims

April 26, 2022

Vendor	Invoice #	Date	Amount
*CenturyLink	7191112907MAR22	3/1/2022	267.94
*My Asset Map LLC	E5F5CDB-0050	3/27/2022	199.99
*United Power Inc	12341500MAR22	3/31/2022	355.22
*United Power Inc	2893502MAR22	3/31/2022	591.75
*United Power Inc	6666302MAR22	3/31/2022	360.61
*United Power Inc	7891601MAR22	3/31/2022	1,593.30
*Xcel Energy	5336053542MAR22	3/31/2022	100.17
*Xcel Energy	5398600067MAR22	3/31/2022	74.03
		Auto Pay	<u>\$ 3,543.01</u>
Badger Meter, Inc.	80094923	3/31/2022	436.10
Badger Meter, Inc.	1493188	3/16/2022	2,303.04
Bishop Brogden Associates, Inc	49415	3/15/2022	2,628.25
CliftonLarsonAllen LLP	3218565	3/31/2022	46.00
CliftonLarsonAllen LLP	3222335	3/31/2022	5,270.61
CliftonLarsonAllen LLP	3218565	3/31/2022	7,032.44
CliftonLarsonAllen LLP	3218565	3/31/2022	29.00
CliftonLarsonAllen LLP	3219361	3/31/2022	3,529.65
CliftonLarsonAllen LLP	3218565	3/31/2022	115.00
CliftonLarsonAllen LLP	3218565	3/31/2022	667.00
Diversified Underground	25438	3/31/2022	400.00
Diversified Underground	25438	3/31/2022	65.00
Diversified Underground	25349	3/22/2022	4,754.04
Element Engineering, LLC	0001B-03	3/31/2022	1,635.00
Element Engineering, LLC	0002C-09	3/31/2022	4,290.00
Element Engineering, LLC	0002D-05	3/31/2022	9,944.00
Elite Industries, Inc.	20219	3/31/2022	978.00
Hayes Poznanovic Korver LLC	45619	3/31/2022	514.50
Martin & Wood Water Consultants Inc.	26048	3/31/2022	52.50
Moltz Construction Inc.	Pay App #4	3/31/2022	174,827.00
Pest Predator	2788	3/31/2022	240.00
United Site Services, Inc	114-12953982	3/22/2022	227.27
USA Blue Book	914959	3/17/2022	67.23
White & Jankowski LLP	18059	3/31/2022	145.00
White Bear Ankele Tanaka & Waldron	21244	3/31/2022	505.84
White Bear Ankele Tanaka & Waldron	21244	3/31/2022	508.91
White Bear Ankele Tanaka & Waldron	21244	3/31/2022	3,168.22
White Bear Ankele Tanaka & Waldron	21244	3/31/2022	144.53
		Bill.com	<u>\$ 224,524.13</u>
Grand Total			<u><u>\$ 228,067.14</u></u>



Greatrock North Water & Sewer District Monthly Activities Report March 15th 2022 – April 14th 2022

Daily Operations Summary

Greatrock North (GRN): Record LFH Well #1, UKA Well #1, and distribution flow totalizers. Visual inspection of generator to record run hours and check for any active faults. Collect and analyze chlorine residual sample each visit. Collect entry point sample to analyze for pH and conductivity weekly. Complete walk through of pump station to inspect distribution pumps, distribution pressure/tank level, and verify operation of PRV.

Rocking Horse Farms (RHF): Record LFH Well #2, UKA Well #3, and distribution flow totalizers. Visual inspection of generator to record run hours and check for any active faults. Collect and analyze chlorine residual sample each visit. Collect entry point sample to analyze for pH and conductivity weekly. Complete walk through of pump station to inspect distribution pumps, distribution pressure/tank level, and verify operation of PRV.

Box Elder (BE): Check SCADA for any active alarms and record process numbers. Record flow totalizers for wells, RO skid, and distribution meters. Visual inspection of generator to record run hours and check for any active faults. Collect and analyze chlorine residual sample each visit. Collect entry point sample to analyze for pH and conductivity weekly. Complete walk through of pump station to inspect distribution pumps, distribution pressure/tank level, and verify operation of PRV. Complete walk through of RO building to verify proper operation and record equipment run hours. Check chemical feed systems for proper operation and refill day tanks, as necessary.

3/15/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility.

3/16/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility.

3/17/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. REC ESD out at GRN to look at and repair the actuator valve. The solenoid valve was not working properly. Will need further attention.

3/18/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Reduced the chlorine feed in SCADA from 0.70 to 0.65 ppm.

3/21/22 (4.5hrs) Routine site visit. Regular rounds and checks of each facility. Reduced the chlorine feed in SCADA from 0.65 to 0.60 ppm. Collected a Langlier index sample from BE. Opened the fill valve at GRN slightly to fill tank a little faster.

3/22/22 (5.0hrs) Routine site visit. Regular rounds and checks of each facility. REC ESD on site to fix the solenoid of the valve at GRN.

3/23/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility.

3/24/22 (2.0hrs) Routine site visit. Regular rounds and checks of each facility.

3/25/22 (5.0hrs) Routine site visit. Regular rounds and checks of each facility. Opened the fill valve at RHF slightly to increase flow over the weekend. Transferred chlorine into day tanks for weekend consumption.

3/28/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Completed housekeeping at BE Pump Station and ordered more chlorine for the system. Transferred more chlorine into the day tank.

3/29/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Dropped off the new meters that were ordered for the system. Still waiting on the Ertz/Registers to arrive in order to replace the meters that do not transmit. Closed the fill valve at RHF slightly to maintain full tank level.

3/30/22 (5.0hrs) Routine site visit. Regular rounds and checks of each facility. Responded to alarms after hours at BE due to power surge. Upon arrival the generator was running and internet was down. Everything cleared on its own during the visit. The RO machine was reset and the tank levels adjusted so the RO wouldn't run over night. The battery back-up in the RO machine was dead and needs to be replaced. Checked in on RHF and GRN well houses as well and everything was normal.

3/31/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. No alarms over night and tank levels were fine with the RO machine unable to run. The tank levels were reset for the RO machine to run during today's visit. Everything ran smoothly without issue. Checked on the pond levels.

4/1/22 (5.0hrs) Routine site visit. Regular rounds and checks of each facility. Completed the monthly & quarterly sampling as well as the TENORM sampling.. Stopped the augmentation on UKA-2 per email from Paul Bruss.

4/4/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. RHF had some pressure issues over the weekend. Based on trends, the backup pumps kicked on and there was an alarm in SCADA that cleared itself. Everything looked fine during the visit today. Opened the fill valve to the tank to increase storage volume. Starting to see the distribution volume increase throughout the entire system as well. Discovered that Martin Marietta Construction had been filling their water trucks on Friday and Monday, thus causing the spikes in RHF distribution and pressure. REC operators turned off the water for them and informed them they couldn't fill without going through the right channels first.

4/5/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Unable to complete the monthly Bac-T Samples today due to high winds. Will have to complete next week when the weather allows it.

4/6/22 (2.0hrs) Routine site visit. Regular rounds and checks of each facility.

4/7/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Worked on the meter re-read list, was able to collect all but one. Will try again tomorrow. Emailed the list to the Billing Department.

4/8/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Alluvial Well #1 was causing issues. The inlet pressure to the RO was low and thus shut down the system, but the well still pumped into the storage tanks. It didn't stop even after the tanks hit the shut-off level. Upon arrival the storage tanks at BE were 23.5' high. Nothing over-flowed, the chlorine and pH in the system were 1.22 mg/L and 7.51 SU.

4/11/22 (4.5hrs) Routine site visit. Regular rounds and checks of each facility. Reset the VFD at Alluvial Well #1 and it resumed normal operation. Filled the tanks after the system was left off over the weekend. Increased the chlorine set point from 0.60 to 0.90 ppm. Collected the Monthly Bac-T samples and a Langlier Index sample from BE. Generator Source at BE completed preventative maintenance on the generator.

4/12/22 (3.0hrs) Routine site visit. Regular rounds and checks of each facility. Filled the chlorine in the treatment room. Generator Source at GRN completed preventative maintenance on the generator.

4/13/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility. Generator Source at RHF completed preventative maintenance on the generator.

4/14/22 (4.0hrs) Routine site visit. Regular rounds and checks of each facility

March 15th 2022 – April 14th 2022

RO Run Time	15.1
RO Concentrate Flow: 1 Pond (South)	27,162

Sampled Date: April 1st, 2022

Monthly Testing	TDS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Total Hardness (mg/L)
BE	333	29.6	5.24	95.5
RHF	385	38.5	6.98	124.8
GRN	369	36.7	6.53	118.4

Date	Permeate Flow (gpm)	Concentrate Flow (gpm)	% Recovery	Permeate Conductivity (µSeimens)	Hour Meter
3/15/22					205.75
3/16/22					206.15
3/17/22					206.77
3/18/22					207.18
3/21/22					209.31
3/22/22					209.96
3/23/22					210.39
3/24/22	103	29	77.8%	55.7	211.12
3/25/22					216.88
3/28/22					214.06
3/29/22					214.57
3/30/22					215.11
3/31/22					215.37
4/1/22	103	29	78.0%	62.1	216.39
4/4/22	105	28	78.7%	64.4	218.60
4/5/22					219.44
4/6/22					220.01
4/7/22					220.83
4/8/22					220.84
4/11/22					220.84
4/12/22					220.84
4/13/22					220.84
4/14/22					220.84

Metered Services : GW Installed/Change-Out/Serviced Between: 03/12/22 And 04/12/22

Location Code	Service Address	Active Customer	Svc	AI P	User Type	Rt Ty	Svc Sz	Rte/ Seq	RIC	Serial Number	Remote Serial No.	Date	Serv Inst	Chg-Out Date
---------------	-----------------	-----------------	-----	------	-----------	-------	--------	----------	-----	---------------	-------------------	------	-----------	--------------

Total: 0 Serv: 0 Install: 0

GREATROCK NORTH WATER & SANITATION DISTRICT
Schedule of Cash Position
March 31, 2022
Updated as of April 22, 2022

	Enterprise Fund
<u>First Bank - Checking Account (7792)</u>	
Balance as of March 31, 2022	\$ 194,962.05
Subsequent activities:	
04/01/22 - Deposit	636.29
04/04/22 - Deposit	1,355.81
04/05/22 - Deposit	458.33
04/06/22 - Deposit	298.90
04/07/22 - Deposit	100.00
04/08/22 - Deposit	243.78
04/11/22 - Deposit	349.89
04/13/22 - Bill.com Payments	(168,301.46)
04/13/22 - Payment - United Power	(4,950.00)
04/13/22 - Directors' Fees	(430.60)
04/15/22 - Lockbox Fee	(572.73)
04/18/22 - Deposit	422.23
04/18/22 - Xcel ACH	(174.20)
04/19/22 - Deposit	61.19
04/20/22 - Deposit	331.57
04/21/22 - CenturyLink ACH	(267.29)
04/21/22 - Deposit	855.96
<i>Anticipated United Power ACH</i>	(2,900.88)
<i>Anticipated MyAssetMap ACH</i>	(199.99)
<i>Anticipated Deposit - Badger Refund</i>	269.70
<i>Anticipated Transfer from CT</i>	65,000.00
<i>Anticipated Transfer from CT</i>	175,000.00
<i>Anticipated Bill.com Payments</i>	(228,583.10)
<i>Anticipated balance</i>	33,965.45
<u>First Bank - Lockbox Account (3070)</u>	
Balance as of March 31, 2022	1,384,187.52
Subsequent activities:	
04/05/22 - Paymentech Fee	(30.00)
04/08/22 - Deposit - SDF	43,800.00
04/11/22 - PnP Fees	(4.00)
04/30/22 - Deposit (Utility Payments) - April	18,194.17
<i>Anticipated balance</i>	1,446,147.69
<u>ColoTrust - General</u>	
Balance as of March 31, 2022	3,678,223.09
Subsequent activities:	
04/01/22 - Deposit - Three Sons Constructions	2,000.00
04/10/22 - PTAX - March	412,070.07
<i>Anticipated Transfer from CT</i>	(65,000.00)
<i>Anticipated Transfer from CT</i>	(175,000.00)
<i>Anticipated balance</i>	3,852,293.16
<i>Grand Total</i>	\$ 5,332,406.30

Yield information as of 03/31/22:

FirstBank Lockbox - 0.05%

ColoTrust - 0.2522%

**GREATROCK NORTH WATER AND SANITATION DISTRICT
Property Taxes Reconciliation
2022**

	Current Year							Prior Year				
	Property Taxes	Delinquent Taxes, Rebates and Abatements	Specific Ownership Taxes	Interest	Treasurer's Fees	Net Amount Received	% of Total Property Taxes Received		Total Cash Received	% of Total Property Taxes Received		
							Monthly	Y-T-D		Monthly	Y-T-D	
Beg Balance												
January	\$ 8,404.77	\$ -	\$ 5,510.13	\$ -	\$ (126.07)	\$ 13,788.83	0.82%	0.82%	\$ 14,524.30	1.16%	1.16%	
February	51,167.39	-	5,979.20	-	(767.51)	56,379.08	4.99%	5.81%	339,271.47	43.13%	44.28%	
March	412,276.94	7.15	5,964.23	6.11	(6,184.36)	412,070.07	40.24%	46.06%	28,158.29	3.03%	47.31%	
April	-	-	-	-	-	-	0.00%	46.06%	73,983.59	8.99%	56.31%	
May	-	-	-	-	-	-	0.00%	46.06%	33,488.80	3.71%	60.01%	
June	-	-	-	-	-	-	0.00%	46.06%	297,562.29	37.78%	97.79%	
July	-	-	-	-	-	-	0.00%	46.06%	17,539.85	1.59%	99.38%	
August	-	-	-	-	-	-	0.00%	46.06%	6,300.87	0.00%	99.38%	
September	-	-	-	-	-	-	0.00%	46.06%	5,941.93	0.00%	99.38%	
October	-	-	-	-	-	-	0.00%	46.06%	6,295.24	0.20%	99.58%	
November	-	-	-	-	-	-	0.00%	46.06%	10,277.76	0.42%	100.00%	
December	-	-	-	-	-	-	0.00%	46.06%	4,894.73	0.00%	100.00%	
	\$ 471,849.10	\$ 7.15	\$ 17,453.56	\$ 6.11	\$ (7,077.94)	\$ 482,237.98	46.06%	46.06%	\$ 838,239.12	100.00%	100.00%	

Taxes Levied	% of Levied	Property Taxes Collected	% Collected to Amount Levied
--------------	-------------	--------------------------	------------------------------

Assessed Valuation	Mill Levy
--------------------	-----------

Property Tax

General Fund	\$ 664,850.00	64.89%	\$ 306,204.57	46.06%
Debt Service Fund	359,673.00	35.11%	165,651.68	46.06%
	\$ 1,024,523.00	100.00%	\$ 471,856.25	46.06%

	30.500
	16.500
\$ 21,798,370	47.000

Specific Ownership Tax

General Fund	\$ 46,540.00	64.89%	\$ 11,326.31	24.34%
Debt Service Fund	25,177.00	35.11%	6,127.25	24.34%
	\$ 71,717.00	100.00%	\$ 17,453.56	24.34%

Treasurer's Fees

General Fund	\$ 9,973.00	64.89%	\$ 4,593.20	46.06%
Debt Service Fund	5,395.00	35.11%	2,484.74	46.06%
	\$ 15,368.00	100.00%	\$ 7,077.94	46.06%



CliftonLarsonAllen LLP
 8390 East Crescent Pkwy., Suite 300
 Greenwood Village, CO 80111
 phone 303-779-5710 fax 303-779-0348
CLAconnect.com

April 15, 2022

Board of Directors
 Greatrock North Water and Sanitation District
 8390 E. Crescent Pkwy., Ste. 300
 Greenwood Village, CO 80111

Dear Board of Directors:

This master service agreement (“MSA”) documents the terms, objectives, and the nature and limitations of the services CliftonLarsonAllen LLP (“CLA,” “we,” “us,” and “our”) will provide for Greatrock North Water and Sanitation District (“you,” “your,” “board of directors” or “the district”). The terms of this MSA will apply to the initial and each subsequent statement of work (“SOW”), unless the MSA is changed in a communication that you and CLA both sign or is terminated as permitted herein.

Scope of professional services

CLA will provide services as described in one or more SOW that will reference this MSA. The SOW will describe the scope of professional services; the nature, limitations, and responsibilities related to the specific services CLA will provide; and the fees for such services.

If modifications or changes are required during CLA’s performance of requested services, or if you request that we perform any additional services, we will provide you with a separate SOW for your signature. Such SOW will advise you of the additional fee and time required for such services to facilitate a clear understanding of the services.

Our services cannot be relied upon to disclose errors, fraud, or noncompliance with laws and regulations. Except as described in the scope of professional services section of this MSA or any applicable SOW, we have no responsibility to identify and communicate deficiencies in your internal control as part of any services.

Board of director responsibilities

The board of directors of the district acknowledge and understand that our role is to provide the services identified in one or more SOWs issued per this MSA and that the board of directors of the district has certain responsibilities that are fundamental to our undertaking to perform the identified services. The district may engage CLA to perform management functions to help the board of directors of the district to meet your responsibilities, but the board of directors of the district acknowledges its roll in management of the district.

Responsibilities and limitations related to nonattest services

For all nonattest services we may provide to you, you agree to oversee all management services; evaluate the adequacy and results of the services; ensure that your data and records are complete; and accept responsibility for the results of the services.

Fees and terms

See the applicable SOW for the fees for the services.

Work may be suspended if your account becomes 60 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagements will be deemed to have been completed even if we have not completed the services. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures permitted by this MSA through the date of termination.

Payments may be made utilizing checks, Bill.com, your online banking platform, CLA's electronic payment platform, or any other client initiated payment method approved by CLA. CLA's electronic online bill pay platform claconnect.com/billpay accepts credit card and Automated Clearing House (ACH) payments. Instructions for making direct bank to bank wire transfers or ACH payments will be provided upon request.

Other fees

You also agree to compensate us for any time and expenses, including time and expenses of legal counsel, we may incur in responding to discovery requests or participating as a witness or otherwise in any legal, regulatory, or other proceedings that we are asked to respond to on your behalf.

Finance charges and collection expenses

You agree that if any statement is not paid within 30 days from its billing date, the unpaid balance shall accrue interest at the monthly rate of one percent (1.00%), which is an annual percentage rate of 12%. In the event that any collection action is required to collect unpaid balances due us, reasonable attorney fees and expenses shall be recoverable if and as provided by Colorado law.

Limitation of remedies

You agree that in no event shall any CLA party be liable to you for any indirect, special, incidental, consequential, punitive, or exemplary damages, or for loss of profits or loss of goodwill, costs, or attorney fees.

The exclusive remedy available to you shall be the right to pursue claims for actual damages related to CLA's acts or omissions in performance of our duties under the terms of this MSA or any SOW issued under this MSA.

Time limitation

The nature of our services makes it difficult, with the passage of time, to gather and present evidence that fully and fairly establishes the facts underlying any dispute that may arise between you and any CLA party. Any legal or equitable action brought by the district to recover on a dispute shall be commenced within the applicable statute of limitations under Colorado state statutes and case law.

CLA shall be authorized to the following cash access services:

- Using any or a combination of the following methods and approval processes, we will pay your vendors and service providers based upon invoices that you have reviewed and approved:
 - Paper checks – we will prepare the checks for your approval and wet ink signature.
 - Payments using Bill.com – we will only release payments after you have electronically approved and authorized such payments.



- ACH/Wire – we will use this method as needed/as requested, with your approval.

We understand that you will designate one or more members of the board of directors to approve disbursements using the above methods.

- If applicable, access the entity credit card for purposes of purchasing products and services on your behalf up to a certain limit that will be discussed with you and documented separately.
- Obtain administrator access to your bank accounts for purposes of performing the duties documented in our engagement letter identified above.
- Take deposits to the bank that include cash.
- If applicable, have access to cash-in-kind assets, such as coupons.
- If applicable, initiate direct deposits or sign checks as part of the payroll processing function.

Board of Directors' responsibilities relevant to CLA's access to your cash

All members of your board of directors are responsible for the processes below; however, we understand that you will designate one or more board of directors to review and give approvals for disbursements. All approvals must be documented in writing, either electronically or manually, then formally ratified in board meetings and documented in the meeting minutes.

- Approve all invoices and check payments.
- Approve all new vendors and customers added to the accounting system.
- Approve non-recurring wires to external parties.
- Pre-approve for recurring wires, then board of directors will ratify approval.
- Approve all new employees and all employee status changes prior to those employees or changes being added to the payroll system.
- Approve all credit card statements prior to those expenses being processed in the accounting system and subsequently paid.
- Approve (or delegate to the CLA controller if applicable) all customer and vendor credit memos and accounts receivable amounts written off.
- Review and approve (or delegate to the CLA controller if applicable) all bank statements and affiliated monthly reconciliations.

Other provisions

Except as expressly permitted by the "Consent" section of this agreement, CLA shall not disclose any confidential, proprietary, or privileged information of the district or you to any person or party, unless the district or you authorizes us to do so, it is published or released by the district, it becomes publicly known or available other than through disclosure by us, or disclosure is required by law. This confidentiality provision does not prohibit us from



CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See nexia.com/member-firm-disclaimer for details.

disclosing your information to one or more of our affiliated companies in order to provide services that you have requested from us or from any such affiliated company. Any such affiliated company shall be subject to the same restrictions on the use and disclosure of your information as apply to us.

Pursuant to authority given by law or regulation, we may be requested to make certain workpapers available to a regulator for its regulatory oversight purposes. We will notify you of any such request, if permitted by law. Access to the requested workpapers will be provided to the regulator under the supervision of CLA personnel and at a location designated by our firm. Furthermore, upon request, we may provide copies of selected workpapers to such regulator. The regulator may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

You acknowledge and agree that this agreement and the pricing structure and billing rates of CLA are sensitive information which you shall not furnish or otherwise disclose to any third party without the prior written consent of CLA or as required by the Colorado Open Records Act, Section 24-72-200.1 *et seq.*, C.R.S. (“CORA”).

Insurance:

CLA shall acquire and maintain in full force and effect, during the entire term of the MSA, the insurance coverages set forth in below in order to protect the district including its board of directors, and CLA from claims that arise out of or result from the operations under this MSA by the CLA or its affiliates or by anyone acting on their behalf or for which they may be liable. Failure to maintain the insurance policies shall be a material breach of this MSA and the district may request certificates of insurance reflecting the coverages outlined below.

- A. Workers’ Compensation Insurance.
- B. Commercial General Liability Insurance.
- C. Commercial Automobile Liability Insurance
- D. General Professional Liability.
- E. Network Security (Cyber) Liability Insurance.
- F. Excess/Umbrella Liability Coverage.

The relationship of CLA with the district shall be solely that of an independent contractor and nothing in this agreement shall be construed to create or imply any relationship of employment, agency, partnership, or any relationship other than an independent contractor.

If applicable, accounting standards and procedures will be suggested that are consistent with those normally utilized in a district of your size and nature. Internal controls may be recommended relating to the safeguarding of the district’s assets. If fraud is initiated by your employees or other service providers, your insurance is responsible for covering any losses.

The district agrees that CLA will assume fiduciary responsibility on the district’s behalf during the course of this agreement only if provided in SOWs issued under this MSA; and the parties, in entering into this MSA, do not intend to create an overarching fiduciary relationship.

CLA may, at times, utilize external web applications to receive and process information from our clients; however, it is not appropriate for you to upload protected health information using such applications. All protected health information contained in a document or file that you plan to transmit to us via a web application must be redacted



CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See nexia.com/member-firm-disclaimer for details.

by you to the maximum extent possible prior to uploading the document or file. In the event that you are unable to remove or obscure all protected health information, please contact us to discuss other potential options for transmitting the document or file.

Annual Appropriation and Budget

The district does not intend hereby to create a multiple-fiscal year direct or indirect debt or other financial obligation whatsoever. CLA expressly understands and agrees that the district's obligations under this MSA shall extend only to monies appropriated for the purposes of this MSA by the board of directors and shall not constitute a mandatory charge, requirement or liability in any ensuing fiscal year beyond the then-current fiscal year. No provision of this MSA shall be construed or interpreted as a delegation of governmental powers by the district, or as creating a multiple-fiscal year direct or indirect debt or other financial obligation whatsoever of the district or statutory debt limitation, including, without limitation, Article X, Section 20 or Article XI, Section 6 of the Constitution of the State of Colorado. No provision of this MSA shall be construed to pledge or to create a lien on any class or source of district funds. The district's obligations under this MSA exist subject to annual budgeting and appropriations, and shall remain subject to the same for the entire term of this MSA.

Governmental Immunity

Nothing in this MSA shall be construed to waive, limit, or otherwise modify, in whole or in part, any governmental immunity that may be available by law to the district, its respective officials, employees, contractors, or agents, or any other person acting on behalf of the district and, in particular, governmental immunity afforded or available to the district pursuant to the Colorado Governmental Immunity Act, §§ 24-10-101, *et seq.*, C.R.S.

No Third-Party Beneficiaries

It is expressly understood and agreed that enforcement of the terms and conditions of this MSA, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties and nothing contained in this MSA shall give or allow any such claim or right of action by any third party. It is the express intention of the Parties that any person other than Parties receiving services or benefits under this MSA shall be deemed to be an incidental beneficiary only.

Personal Identifying Information

During the performance of this MSA, the district may disclose Personal Identifying Information to CLA. "Personal Identifying Information" means a social security number; a personal identification number; a password; a pass code; an official state or government-issued driver's license or identification card number; a government passport number; biometric data, as defined in § 24-73-103(1)(a), C.R.S.; an employer, student, or military identification number; or a financial transaction device, as defined in § 18-5-701(3), C.R.S. In compliance with § 24-73-102, C.R.S., CLA agrees to implement and maintain reasonable security procedures and practices that are: (i) appropriate to the nature of the Personal Identifying Information disclosed to CLA; and (ii) reasonably designed to help protect the Personal Identifying Information from unauthorized access, use, modification, disclosure, or destruction.

CLA agrees to report within twenty-four (24) hours to the district’s board of directors any Data Security Incidents that may result in the unauthorized disclosure of Personal Identifying Information. For the purposes of this MSA “Data Security Incident” is defined to mean any actual or reasonably suspected: (a) unauthorized use of, or unauthorized access to, CLA systems; (b) inability to access business and other proprietary information, data, or the CLA systems due to a malicious use, attack, or exploit of such business and other proprietary information or systems; (c) unauthorized access to, theft of, or loss of business and other proprietary information, or of storage devices that could reasonably contain such information; (d) unauthorized use of business and other proprietary information or data for purposes of actual or reasonably suspected theft, fraud, or identity theft; (e) unauthorized disclosure of business and other proprietary information or data.

Consent to use financial information

Annually, we assemble a variety of benchmarking analyses using data obtained through our client engagements. Some of this benchmarking information is published and released publicly. However, the information that we obtain is confidential, as required by the AICPA Code of Professional Conduct. Your acceptance of this MSA will serve as your consent to use of Greatrock North Water and Sanitation District information, excluding Personal Identifying Information, in these cost comparison, performance indicator, and/or benchmarking reports.

Technology

CLA may, at times, use third-party software applications to perform services under this agreement. CLA can provide a copy of the application agreement at your request. You acknowledge the software vendor may have access to your data.

Counterpart Execution

This MSA may be executed in counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.

Electronic Signatures

The parties consent to the use of electronic signatures pursuant to the Uniform Electronic Transactions Act, Sections 24-71.3-101, et seq., Colorado Revised Statutes, as may be amended from time to time. The MSA, and any other documents requiring a signature hereunder, may be signed electronically by the parties in a manner acceptable to the district. The parties agree not to deny the legal effect or enforceability of the MSA solely because it is in electronic form or because an electronic record was used in its formation. The parties agree not to object to the admissibility of the MSA in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

MSA Modification

The MSA may not be amended, altered, or otherwise changed except by a written agreement signed by authorized representatives of the parties.

Termination of MSA

Either party may terminate this MSA at any time by giving 30 days written notice to the other party. In that event, the provisions of this MSA shall continue to apply to all services rendered prior to termination.

Agreement

We appreciate the opportunity to be of service to you and believe this MSA accurately summarizes the significant terms of our relationship. This MSA, along with the applicable SOW(s), constitute the entire agreement regarding services to be performed and supersedes all prior agreements (whether oral or written), understandings, negotiations, and discussions between you and CLA. If you have any questions, please let us know. If you agree with the terms of our relationship as described in this MSA, please sign, date, and return.

Sincerely,

CliftonLarsonAllen LLP

A handwritten signature in black ink that reads "Jason Carroll". The signature is written in a cursive, flowing style.

Jason Carroll, CPA
Principal
Jason.Carroll@CLAconnect.com

Response:

This agreement correctly sets forth the understanding of Greatrock North Water and Sanitation District.

APPROVED:

Signature

Title

Date



CliftonLarsonAllen LLP
 8390 East Crescent Pkwy., Suite 300
 Greenwood Village, CO 80111
 phone 303-779-5710 fax 303-779-0348
CLAconnect.com

Special Districts Preparation SOW

This agreement constitutes a Statement of Work (“SOW”) to the Master Service Agreement (“MSA”) made by and between CliftonLarsonAllen LLP (“CLA,” “we,” “us,” and “our”) and Greatrock North Water and Sanitation District (“you” and “your”) dated April 15, 2022. The purpose of this SOW is to outline certain services you wish us to perform in connection with that agreement.

Scope of professional services

Jason Carroll, CPA, is responsible for the performance of the preparation engagement and other services identified in this agreement. They may be assisted by one or more of our authorized signers in the performance of the preparation engagement.

Ongoing normal accounting services:

- Outsourced accounting activities
 - For each fund of the district, CLA will generally prepare and maintain the following accounting records:
 - Cash receipts journal
 - Cash disbursements journal
 - General ledger
 - Accounts receivable journals and ledgers
 - Deposits with banks and financial institutions
 - Schedule of disbursements
 - Bank account reconciliations
 - Investment records
 - Detailed development fee records
 - Process accounts payable including the preparation and issuance of checks for approval by a designated individual
 - Prepare billings, record billings, enter cash receipts, and track revenues
 - Reconcile certain accounts regularly and prepare journal entries
 - Prepare depreciation schedules

- Prepare monthly/quarterly/as requested financial statements and supplementary information, but not perform a compilation with respect to those financial statements. Additional information is provided below.
- Prepare a schedule of cash position to manage the district’s cash deposits, funding for disbursements, and investment programs in accordance with policies established by the district’s board of directors.
- Prepare the annual budget and assist with the filing of the annual budget – additional information is provided below.
- Assist the district’s board of directors in monitoring actual expenditures against appropriation/budget.
- If an audit is required, prepare the year-end financial statements (additional information is provided below) and related audit schedules for use by the district’s auditors.
- If an audit is not required, prepare the Application for Exemption from Audit, perform a compilation engagement with respect to the Application for Exemption from Audit, and assist with the filing of the Application for Exemption from Audit – additional information is provided below.
- Monitor compliance with bond indentures and trust agreements, including preparation of continuing disclosure reports to the secondary market as required.
- Review claims for reimbursement from related parties prior to the board of directors’ review and approval.
- Read supporting documentation related to the district’s acquisition of infrastructure or other capital assets completed by related parties for overall reasonableness and completeness. Procedures in excess of providing overall reasonableness and completeness will be subject to a separate SOW. These procedures may not satisfy district policies, procedures, and agreements’ requirements. Note: our procedures should not be relied upon as the final authorization for this transaction.
- Attend board meetings as requested.
- Be available during the year to consult with you on any accounting matters related to the district.
- Review and approve monthly reconciliations and journal entries prepared by staff
- Reconcile complex accounts monthly and prepare journal entries
- Analyze financial statements and present to management and the board of directors.
- Develop and track key business metrics as requested and review periodically with the board of directors.
- Document accounting processes and procedures
- Continue process and procedure improvement implementation

- Report and manage cash flows
- Assist with bank communications.
- Perform other nonattest services.

Compilation services

If an audit is not required, we will complete the Application for Exemption from Audit in the form prescribed by the Colorado Office of the State Auditor and perform a compilation engagement with respect to the Application for Exemption from Audit.

Preparation services – financial statements

We will prepare the monthly/quarterly/as requested financial statements of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information if applicable of the district, which comprise the balance sheet – governmental funds and the related statement of revenues, expenditures, and changes in fund balance – general fund. The financial statements will not include the related notes to the financial statements; the government-wide financial statements; the statement of revenues, expenditures, and changes in fund balances – governmental funds; statement of cash flows for business type activities, if applicable; and required supplementary information.

Preparation services - annual

If an audit is required, we will prepare the year-end financial statements of the government wide governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information if applicable, and Management Discussion and Analysis, if applicable, which collectively comprise the basic financial statements of the district, and the related notes to the financial statements. The year-end financial statements, including the related notes to the financial statements, will be prepared for use by the district’s auditors.

Preparation services – prospective financial information (i.e., unexpired budget information)

You have requested that we prepare the financial forecast, which comprises the forecasted financial statements identified below.

A financial forecast presents, to the best of management’s knowledge and belief, the entity’s expected financial position, results of operations, and cash flows for the forecast period. It is based on management’s assumptions reflecting conditions it expects to exist and the course of action it expects to take during the forecast period.

The financial forecast will omit substantially all of the disclosures required by the guidelines for presentation of a financial forecast established by the American Institute of Certified Public Accountants (AICPA presentation guidelines) other than those related to the significant assumptions.

The supplementary information accompanying the financial forecast will be prepared and presented for purposes of additional analysis and is not a required part of the basic financial forecast.

References to financial statements in the remainder of this SOW are to be taken as a reference to also include the prospective financial information, where applicable.

Engagement objectives and our responsibilities

The objectives of our engagement are to:

- a. Prepare monthly/quarterly/as requested financial statements in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP), except for the departures from U.S. GAAP identified above, based on information provided by you and information generated through our outsourced accounting services.
- b. As requested, apply accounting and financial reporting expertise to assist you in the presentation of your monthly/quarterly/as requested financial statements without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the financial statements in order for them to be in accordance with U.S. GAAP, except for the departures from U.S. GAAP identified above.
- c. Prepare the annual budget in accordance with the requirements prescribed by Colorado Revised Statutes C.R.S. 29-1-105 based on information provided by you.
- d. Apply accounting and financial reporting expertise to assist you in the presentation of the annual budget without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the annual budget in order for the annual budget to be in accordance with requirements prescribed by Colorado Revised Statutes C.R.S. 29-1-105.
- e. If an audit is required, prepare the year-end financial statements in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP) based on information provided by you.
- f. If applicable, we will complete the Application for Exemption from Audit in the form prescribed by the Colorado Office of the State Auditor and perform a compilation engagement on the application.

We will conduct our preparation and compilation engagements in accordance with Statements on Standards for Accounting and Review Services (SSARs) promulgated by the Accounting and Review Services Committee of the American Institute of Certified Public Accountants (AICPA) and comply with the AICPA's Code of Professional Conduct, including the ethical principles of integrity, objectivity, professional competence, and due care.

Engagement procedures and limitations

We are not required to, and will not, verify the accuracy or completeness of the information provided to us for the engagement or otherwise gather evidence for the purpose of expressing an opinion or a conclusion. Accordingly, we will not express an opinion, a conclusion, nor provide any assurance on the financial statements, the annual budget, the Application for Exemption from Audit (if an audit is not required), the year-end financial statements (if an audit is required), and the supplementary information.

Our engagement cannot be relied upon to identify or disclose any misstatements in the monthly/quarterly/as requested financial statements, the annual budget, the Application for Exemption from Audit, and the year-end financial statements, including misstatements caused by fraud or error, or to identify or disclose any wrongdoing within the district or noncompliance with laws and regulations. We have no responsibility to identify and communicate deficiencies in your internal control as part of this engagement. You agree that we shall not be responsible for any misstatements in the district's financial statements, the annual budget, the

Application for Exemption from Audit, and the year-end financial statements that we may not identify as a result of misrepresentations made to us by you.

Our report

The compilation report on the Application for Exemption from Audit will state that management is responsible for the accompanying application included in the prescribed form, that we performed a compilation of the application, that we did not audit or review the application, and that, accordingly, we do not express an opinion a conclusion, nor provide any form of assurance on it. The report will also state that the Application for Exemption from Audit is presented in accordance with the requirements of the Colorado Office of the State Auditor and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America. The report will include a statement that the report is intended solely for the information and use of the Colorado Office of the State Auditor and is not intended to be and should not be used by anyone other than this specified party and may not be suitable for another purpose.

There may be circumstances in which the report may differ from its expected form and content. If, for any reason, we are unable to complete the compilation, the Application for Exemption from Audit (if an audit is not required), we will not issue reports on budget, the Application for Exemption from Audit as a result of this engagement.

No assurance statements

The monthly/quarterly/as requested financial statements prepared for the district will not be accompanied by a report. However, management agrees that each page of the financial statements will include a statement clearly indicating that no assurance is provided on them.

As part of our preparation of financial statements each page of the financial statements and supplementary information will include the following statement: “No assurance is provided on these financial statements. Substantially all required disclosures, the government-wide financial statements, and the statement of revenues, expenditures, and changes in fund balances – governmental funds have been omitted if applicable, For best business type activities the Statement of Cash Flows has been omitted”.

If an audit is required, the year-end financial statements prepared for use by the district’s auditors will not be accompanied by a report. However, management agrees that each page of the year-end financial statements will include a statement clearly indicating that no assurance is provided on them.

Management responsibilities

The financial statement engagement to be performed is conducted on the basis that management acknowledges and understands that our role is to prepare financial statements in accordance with U.S. GAAP and assist management in the presentation of the financial statements in accordance with U.S. GAAP, except for the departures from U.S. GAAP identified above.

The annual budget engagement to be performed is conducted on the basis that management acknowledges and understands that our role is to prepare the annual budget in accordance with the requirements prescribed by Colorado Revised Statutes C.R.S. 29.1.105 and assist management in the presentation of the annual budget in accordance with the requirements prescribed by Colorado Revised Statutes C.R.S. 29.1.105.

The Application for Exemption from Audit engagement to be performed is conducted on the basis that management acknowledges and understands that our role is to prepare the Application for Exemption from Audit in accordance with the requirements prescribed by the Colorado Office of the State Auditor and assist



CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See nexia.com/member-firm-disclaimer for details.

management in the presentation of the Application for Exemption from Audit in accordance with the requirements prescribed by the Colorado Office of the State Auditor.

We are required by professional standards to identify management's responsibilities in this agreement. Professional standards define management as the persons with executive responsibility for the conduct of the district's operations and may include some or all of those charged with governance. Those standards require that you acknowledge and understand that management has the following overall responsibilities that are fundamental to our undertaking the engagement in accordance with SSARs:

- a. The selection of the financial reporting framework to be applied in the preparation of the financial statements, the annual budget, and the Application for Exemption from Audit.
- b. The preparation and fair preparation of the financial statements in accordance with U.S. GAAP, except as identified as above, the preparation and fair presentation of the annual budget in accordance with the requirements prescribed by Colorado Revised Statutes C.R.S. 29.1.105, and the preparation and fair presentation of the Application for Exemption from Audit (if applicable) in accordance with the requirements prescribed by the Colorado Office of the State Auditor.
- c. The presentation of the supplementary information.
- d. The design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) that are free from material misstatement, whether due to fraud or error.
- e. The prevention and detection of fraud.
- f. To ensure that the entity complies with the laws and regulations applicable to its activities.
- g. The accuracy and completeness of the records, documents, explanations, and other information, including significant judgments, you provide to us for the engagement to prepare financial statements.
- h. To provide us with the following:
 - i. Access to all information relevant to the preparation and fair presentation of the financial statements, and the annual budget, the Application for Exemption from Audit (if applicable) such as records, documentation, and other matters.
 - ii. Additional information that may be requested for the purpose of the engagement.
 - iii. Unrestricted access to persons within the entity with whom we determine it necessary to communicate.

We understand that you are engaging us to make recommendations and perform services to help you meet your responsibilities relevant to the preparation and fair presentation of the financial statements, the annual budget, and the Application for Exemption from Audit (if applicable).

For all accounting services we may provide to you, including the preparation of your financial statements, the annual budget, and the Application for Exemption from Audit (if applicable), management agrees to assume



CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See nexia.com/member-firm-disclaimer for details.

all management responsibilities; oversee the services by designating an individual (i.e., the Board Treasurer); evaluate the adequacy and results of the services; and accept responsibility for the results of the services.

Fees, time estimates, and terms

Our professional fees will be billed based on the time involved and the degree of responsibility and skills required. We will also bill for expenses (including internal and administrative charges) plus a technology and client support fee of five percent (5%) of all professional fees billed. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm policies, work may be suspended if your account becomes 60 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed even if we have not issued our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures through the date of termination.

The hour rates currently in effect for our services are as follows:

Principal	\$300 - \$425
Chief Financial Officer	\$200 - \$385
Controller	\$180 - \$250
Senior	\$140 - \$180
Staff	\$ 80 - \$150
Administrative support	\$ 80 - \$120

Out-of-pocket expenses such as out-of-town travel, meals, and lodging will be billed at cost and are not included in the fees quoted above. We will also add a technology and client support fee of five percent (5%) of all professional fees billed. The fee estimates are based on anticipated cooperation from your personnel and their assistance with preparing requested schedules. If the requested items are not available on the dates required or are not accurate, the estimated fees will likely be higher. If unexpected circumstances require significant additional time, we will advise you before undertaking work that would require a substantial increase in the fee estimates.

Use of financial statements, the annual budget, the Application for Exemption from Audit

The financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) are for management's use. If you intend to reproduce and publish the financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) and our report thereon, they must be reproduced in their entirety. Inclusion of the financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) in a document, such as an annual report or an offering document, should be done only with our prior approval of the document. You are responsible to provide us the opportunity to review such documents before issuance.

With regard to the electronic dissemination of financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) that have been subjected to a compilation engagement, including financial statements, the annual budget, and the Application for Exemption from Audit (if applicable) published electronically on your website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in those sites or to consider the consistency of other information in the electronic site with the original document.

We may issue preliminary draft financial statements to you for your review. Any preliminary draft financial statements should not be relied on or distributed.

Municipal advisors

For the avoidance of doubt, the district is not engaging CLA as a municipal advisor, and CLA is not a municipal advisor as defined in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act or under Section 158 of the Securities Exchange Act of 1934 (the “Act”). CLA is not recommending an action to you, is not acting as an advisor to you, and does not owe a fiduciary duty to you pursuant to Section 158 of the Act with respect to the information and material contained in the deliverables issued under this engagement. You should discuss any information and material contained in the deliverables with any and all internal and external advisors that you deem appropriate before acting on this information or material.

Additional provisions required by CRS 8-17.5-102(2)(a)(I) and (II)

Unlawful employees, contractors, and subcontractors

We shall not knowingly employ or contract with a worker without authorization to perform work under this contact. We shall not knowingly contract with a subcontractor that (a) knowingly employs or contracts with a worker without authorization to perform work under this contract or (b) fails to certify to us that the subcontractor will not knowingly employ or contract with a worker without authorization to perform work under this contact. [CRS 8-17.5-102(2)(a)(I) and (II)]

Verification regarding workers without authorization

We have verified or attempted to verify through participation in the E-Verify Program or the Department Program [as defined in CRS 8-17.5-101(3.3) and (3.7) of the state of Colorado that we do not employ and contract workers without authorization.

Limitation regarding E-Verify Program and the Department Program

We shall not use the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while performing this contract. [CRS 8-17.5-102(2)(b)(II)]

Duty to terminate a subcontractor and exceptions

If we obtain actual knowledge that a subcontractor performing work under this contract knowingly employs or contracts with a worker without authorization, we shall, unless the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with a worker without authorization.

- (1) Notify the subcontractor and the district within three days that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization; and
- (2) Terminate the subcontract with the subcontractor if, within three days of receiving notice that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization, the subcontractor does not stop employing or contracting with the worker without authorization. [CRS 8-17.5-102(2)(b)(A) and (B)]

Duty to comply with state investigation

We shall comply with any reasonable request of the Colorado Department of Labor and Employment made in the course of an investigation pursuant to CRS 8-17.5-102(5). [CRS 8-17.5-102(2)(b)(IV)]



Agreement

We appreciate the opportunity to provide the services described in this SOW related to the MSA. All terms and provisions of the MSA shall apply to these services. If you agree with the terms of this SOW, please sign below and return a signed copy to us by email or U.S. mail to indicate your acknowledgment and understanding of, and agreement with, this SOW.

Sincerely,

CliftonLarsonAllen LLP

A handwritten signature in black ink that reads "Jason Carroll". The signature is written in a cursive, flowing style.

Jason Carroll, CPA
Principal
Jason.Carroll@CLAconnect.com

APPROVED:

Signature

Title

Date



CliftonLarsonAllen LLP
 8390 East Crescent Pkwy., Suite 300
 Greenwood Village, CO 80111
 phone 303-779-5710 fax 303-779-0348
CLAconnect.com

Payroll Services SOW

This agreement constitutes a Statement of Work (“SOW”) to the Master Service Agreement (“MSA”) made by and between CliftonLarsonAllen LLP (“CLA,” “we,” “us,” and “our”) and Greatrock North Water and Sanitation District (“you” and “your”) dated April 15, 2022. The purpose of this SOW is to outline certain services you wish us to perform in connection with that agreement.

Scope of payroll preparation services

We will provide the following payroll preparation services from information you provide:

- For each pay period:
 - Perform payroll calculations
 - Prepare payroll checks or pay-stubs in the case of direct deposit of employee net pay
 - Initiate electronic transfer of funds for employee net pay and payroll tax deposit liabilities
 - Processing retirement plan contribution payments
 - Preparation of retirement plan and other census information
- Prepare the following government forms annually for each calendar year-end (may be filed electronically):
 - All copies of required forms W-2 and W-3
 - Form 940 – Employers Annual Federal Unemployment Tax Return, if applicable
 - Form 943 – Employers Annual Tax Return for Agricultural Employees
 - All necessary state forms, if applicable
- If applicable, prepare the following government reporting forms for each calendar quarter-end (may be filed electronically):
 - Form 941 – Employers Quarterly Tax Return
 - State Employers Quarterly Withholding Return
 - State Employers Quarterly Unemployment Tax Return (SUTA)
 - Initiate electronic funds transfer for quarterly Federal Unemployment Tax (FUTA) liability
- Cash access services related to payroll services

- Obtain one or more signature stamps bearing the name(s) and facsimile signature(s) of any of your officer(s) who are responsible for signing checks and bank drafts on your behalf.
- Obtain access to electronic signatures or signatures embedded into cloud-based software for the purpose of drafting payments on your behalf.
- Prepare checks to be drawn upon your bank account(s) and to use the above noted methods to thereby finally approve such checks for payment by the corresponding bank(s).
- Initiate the direct deposit of employee net pay from funds drawn upon your bank account(s).
- The following services would impair independence
 - Accept responsibility to authorize payment of client funds, electronically or otherwise, except as specifically provided for with respect to electronic payroll tax payments.
 - Accept responsibility to sign or cosign client checks, even if only in emergency situations.
 - Maintain a client's bank account or otherwise have custody of a client's funds or make credit for banking decisions for the client.

Our responsibility to you and limitations of the payroll services

We will prepare the entity's federal and state (if applicable) payroll forms and tax returns in accordance with the applicable payroll tax laws. We will use our judgment in resolving questions where the law is unclear, and where there is reasonable authority, we will resolve questions in your favor whenever possible.

We will not audit or otherwise verify the accuracy or completeness of the information we receive from you for the preparation of the payroll and related returns, and our engagement cannot be relied upon to uncover errors or irregularities in the underlying information. However, we will inform the appropriate level of management of any material errors and of any evidence or information that comes to our attention during the performance of our payroll preparation services that fraud may have occurred. In addition, we will inform you of any evidence or information that comes to our attention during the performance of our payroll preparation services regarding illegal acts that may have occurred, unless they are clearly inconsequential. We have no responsibility to identify and communicate deficiencies in your internal control as part of this engagement. You agree that we shall not be responsible for any misstatements in the entity's payroll that we may not identify as a result of misrepresentations made to us by you.

Our payroll preparation services will include electronically transmitting information to taxing authorities and your financial institution to facilitate the electronic transfer of funds. Authorizations for us to provide these services will be made in separate communications.

Our payroll preparation services will include transmitting federal Form W-2, federal Form 1099, and payroll data forms to federal and state taxing authorities on your behalf. Authorizations for us to provide these services will be made in separate communications.

Your responsibilities

It is your responsibility to provide us with all of the information needed to prepare complete and accurate payrolls and returns. We will have no obligations with regard to a particular payroll or withholding taxes and filing returns in a particular state or local tax jurisdiction until you have provided such information to us. All

necessary information should be provided to us within two days of the close of each payroll period or no later than two days prior to your payroll check date. A list of information we will require and the dates required will be provided in a separate communication.

For all nonattest services we may provide to you, including these payroll services, management agrees to assume all management responsibilities; oversee the services; by designating an individual, preferably within senior management, who possesses suitable skill, knowledge, and/or experience to understand and oversee the services; evaluate the adequacy and results of the services performed; and accept responsibility for the results of the services.

Specifically, your responsibilities include:

- Accuracy of information used in the preparation of the payrolls.
- Careful review of paychecks or pay-stubs, and payroll journals for each periodic payroll.
- Accuracy of information used in the preparation and filing of all government forms.
- Review and pre-approval of each electronic funds transfer initiated on your behalf for employee net pay amounts, payroll tax and withholding liabilities, and related benefit amounts.

You are responsible to carefully review the paper returns that we prepare on your behalf before signing and submitting them to tax authorities. You are responsible to review the paper copies of payroll forms and tax returns that were filed electronically on your behalf. We will advise you with regard to tax positions taken in the preparation of the payroll forms and tax returns, but the responsibility for the payroll forms and tax returns remains with you.

You are also responsible for the payment of payroll tax and withholding liabilities. Therefore, the Internal Revenue Service recommends that you enroll in the U.S. Department of the Treasury Electronic Federal Tax Payment System (EFTPS) to monitor your account and ensure that timely tax payments are being made for you. You may enroll in the EFTPS online at www.eftps.gov, or call 800-555-4477 for an enrollment form. Individual states have similar programs that allow you to monitor your account. A list of links by state is provided online at <http://www.americanpayroll.org/weblink/statelocal-wider/>.

Your responsibilities relevant to CLA's access to your cash

Someone with management authority is responsible for the processes below. All approvals listed must be documented in writing, either electronically or manually:

- Approve all new employees and all employee status changes prior to those employees or changes being added to the payroll system.
- Approve all payroll runs prior to cash being committed.

Fees

Our professional fees will be billed based on the degree of responsibility and contribution of the professionals working on the engagement. We will also bill for expenses (including internal and administrative charges) plus a technology and client support fee of five percent (5%) of all professional fees

billed. Other than annual adjustments reflecting inflation, our professional fees will not fluctuate unless there is a significant change in the number of employees, taxing jurisdictions, or in the services you wish for us to provide. If such changes should occur, we will discuss any fee adjustments with you prior to making any changes to your billing. Lastly, any additional forms that you would like us to complete will be charged at an hourly fee.

We do not anticipate encountering the need to perform additional services beyond those described in this letter. Below are examples of services considered to be outside the scope of our engagement. We will bill you for additional services you would like us to provide at an hourly fee at periodic dates after the additional service has been performed.

- Reprocessing for corrected information provided to us subsequent to original payroll
- Preparation of non-standard reports
- Calculation of fringe benefit additions
- Processing retirement plan contribution payments
- Preparation of retirement plan and other census information
- Responding to workers compensation insurance audits
- Responding to employment verification requests
- Preparation of additional state tax registrations
- Preparation of amended payroll tax returns
- Responding to tax notices

Tax examinations

All government forms and returns are subject to potential examination by the IRS and state taxing authorities. In the event of an examination, we will be available, at your request, to assist or represent you. Services in connection with tax examinations are not included in our fee for preparation of your payroll returns. Our fee for such services will be billed to you separately, along with any direct costs.

Record retention

You are responsible for retaining all documents, records, payroll journals, canceled checks, receipts, or other evidence in support of information and amounts reported in your payroll records and on your quarterly and calendar year-end payroll forms and tax returns. These items may be necessary in the event the taxing authority examines or challenges your returns. These records should be kept for at least seven years. Your copy of the payroll forms and tax returns should be retained indefinitely.

In preparing the payrolls, payroll forms, and tax returns, we rely on your representation that you understand and have complied with these documentation requirements. You are responsible for the proper recording of transactions in the books of accounts, for the safeguarding of assets, and for the substantial accuracy of your financial records.

All of the records that you provide to us to prepare your payrolls and related forms and tax returns will be returned to you after our use. Our working papers, including any copies of your records that we chose to make, are our property and will be retained by us in accordance with our established records retention policy. This policy states, in general, that we will retain our working papers for a period of seven years. After this period expires, our working papers and files will be destroyed. Furthermore, physical deterioration or catastrophic events may shorten the time our records are available. The working papers and files of our firm are not a substitute for the records of the entity.

Tax consulting services

This SOW also covers tax consulting services that may arise for which the entity seeks our consultation and advice, both written and oral, that are not the subject of a separate SOW. These additional services are not included in our fees for the preparation of the payroll and related federal and state forms and tax returns.

We will base our tax analysis and conclusions on the facts you provide to us, and will not independently verify those facts. We will review the applicable tax law, tax regulations, and other tax authorities, all of which are subject to change. At your request, we will provide a memorandum of our conclusions. Written advice provided by us is for the entity's information and use only and is not to be provided to any third party without our express written consent.

Unless we are separately engaged to do so, we will not continuously monitor and update our advice for subsequent changes or modifications to the tax law and regulations, or to the related judicial and administrative interpretations.

Communications and confidentiality

CLA will hold the information supplied by the entity to us in confidence and CLA will not disclose it to any other person or party, unless the entity authorizes us to do so, it is published or released by the entity, or it becomes publicly known or available other than through disclosure by us, or disclosure is required by law. This confidentiality provision does not prohibit us from disclosing your information to one or more of our affiliated companies in order to provide services that you have requested from us or from any such affiliated company. Any such affiliated company shall be subject to the same restrictions on the use and disclosure of your information as apply to us.

The Internal Revenue Code contains a limited privilege for confidentiality of tax advice between you and our firm. In addition, the laws of some states likewise recognize a confidentiality privilege for some accountant-client communications. You understand that CLA makes no representation, warranty or promise, and offers no opinion with respect to the applicability of any confidentiality privilege to any information supplied or communications you have with us, and, to the extent that we follow instructions from you to withhold such information or communications in the face of a request from a third party (including a subpoena, summons or discovery demand in litigation), you agree to hold CLA harmless should the privilege be determined not to apply to particular information or communications.

Consent to send you publications and other materials

For your convenience, CLA produces a variety of publications, hard copy and electronic, to keep you informed about pertinent business and personal financial issues. This includes published articles, invitations to upcoming seminars, webinars and webcasts, newsletters, surveys, and press releases. To determine

whether these materials may be of interest to you, CLA will need to use your tax return information. Such tax information includes the entity name and address as well as the business and financial information you provided to us.

By signing and dating this SOW, you authorize CLA to use the information that you provide to CLA during the preparation of your tax returns to determine whether to offer you relevant materials. Your consent is valid until further notice. If you do not wish to authorize such use, please strike out this paragraph prior to signing the SOW.

Legal compliance

The entity agrees to assume sole responsibility for full compliance with all applicable federal and state laws, rules or regulations, and reporting obligations that apply to the entity or the entity's business, including the accuracy and lawfulness of any reports the entity submits to any government regulator, authority, or agency. The entity also agrees to be solely responsible for providing legally sufficient substantiation, evidence, or support for any reports or information supplied by the entity to any governmental or regulatory body, or for any insurance reimbursement in the event that the entity is requested to do so by any lawful authority. CLA, its successors, affiliates, officers, and employees do not assume or undertake any duty to perform or to be responsible in any way for any such duties, requirements, or obligations.

Agreement

We appreciate the opportunity to provide the services described in this SOW related to the MSA. All terms and provisions of the MSA shall apply to these services. If you agree with the terms of this SOW, please sign below and return a signed copy to us by email or U.S. mail to indicate your acknowledgment and understanding of, and agreement with, this SOW.

Sincerely,

CliftonLarsonAllen LLP

A handwritten signature in cursive script that reads "Jason Carroll".

Jason Carroll, CPA

Principal

Jason.Carroll@CLAconnect.com

APPROVED:

Signature

Title

Date



CliftonLarsonAllen LLP
 8390 East Crescent Pkwy., Suite 300
 Greenwood Village, CO 80111
 phone 303-779-5710 fax 303-779-0348
CLAconnect.com

Special Districts Billing Services SOW

This agreement constitutes a Statement of Work (“SOW”) to the Master Service Agreement (“MSA”) made by and between CliftonLarsonAllen LLP (“CLA,” “we,” “us,” and “our”) and Greatrock North Water and Sanitation District (“you” and “your”) dated April 15, 2022. The purpose of this SOW is to outline certain services you wish us to perform in connection with that agreement.

Scope of professional services

Jason Carroll, CPA, is responsible for the performance of the engagement and other services identified in this agreement. They may be assisted by one or more of our authorized signers in the performance of the engagement.

Ongoing normal billing services:

- Customer calls or emails;
- General inquiries;
- Develop payment arrangements for past due customers;
- Late notice inquiries;
- Owner/renter changes;
- Title company inquiries;
- HOA specific inquiries.

Billing

- Lockbox processing;
- Manual payments;
- Inventory analyses/processing;
- Late notice processing;
- Account adjustments;
- Customer set-ups;
- Payment oversight including payment processing and online processing (recurring and one-time payments);
- Monthly accounting/Financial Management Interface;
- Prepare accounts receivable report as requested by the Board.

Engagement objectives and our responsibilities

The objectives of our engagement are to:

- a. Prepare periodic, as requested, fee billing and collection services to customers.
- b. Provide timely customer service related to customer and client inquiries



CLA is an independent member of Nexia International, a leading, global network of independent accounting and consulting firms. See nexia.com/member-firm-disclaimer for details.

Fees, time estimates, and terms

Our professional fees will be billed based on the time involved and the degree of responsibility and skills required. We will also bill for expenses (including internal and administrative charges) plus a technology and client support fee of five percent (5%) of all professional fees billed. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm policies, work may be suspended if your account becomes 60 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed even if we have not issued our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures through the date of termination.

The hourly rates currently in effect for our services are as follows:

Additional Accounting Support	\$90-400
Supervisors/Senior Technicians	\$155
Technicians	\$95 - \$120

Out-of-pocket expenses such as out-of-town travel, meals, and lodging will be billed at cost and are not included in the fees quoted above. We will also add a technology and client support fee of five percent (5%) of all professional fees billed. The fee estimates are based on anticipated cooperation from your personnel and their assistance with preparing requested schedules. If the requested items are not available on the dates required or are not accurate, the estimated fees will likely be higher. If unexpected circumstances require significant additional time, we will advise you before undertaking work that would require a substantial increase in the fee estimates.

Municipal advisors

For the avoidance of doubt, the district is not engaging CLA as a municipal advisor, and CLA is not a municipal advisor as defined in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act or under Section 158 of the Securities Exchange Act of 1934 (the "Act"). CLA is not recommending an action to you, is not acting as an advisor to you, and does not owe a fiduciary duty to you pursuant to Section 158 of the Act with respect to the information and material contained in the deliverables issued under this engagement. You should discuss any information and material contained in the deliverables with any and all internal and external advisors that you deem appropriate before acting on this information or material.

Additional provisions required by CRS 8-17.5-102(2)(a)(I) and (II)

Unlawful employees, contractors, and subcontractors

We shall not knowingly employ or contract with a worker without authorization to perform work under this contact. We shall not knowingly contract with a subcontractor that (a) knowingly employees or contract with a worker without authorization to perform work under this contract or (b) fails to certify to us that the subcontractor will not knowingly employ or contract with an illegal alien to perform work under this contact. [CRS 8-17.5-102(2)(a)(I) and (II)]

Verification regarding workers without authorization

We have verified or attempted to verify through participation in the E-Verify Program or the Department Program [as defined in CRS 8-17.5-101(3.3) and (3.7) of the state of Colorado that we do not employ or contract workers without authorization.

Limitation regarding E-Verify Program and the Department Program

We shall not use the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while performing this contract. [CRS 8-17.5-102(2)(b)(II)]

Duty to terminate a subcontractor and exceptions

If we obtain actual knowledge that a subcontractor performing work under this contract knowingly employs or contracts with a worker without authorization, we shall, unless the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with a worker without authorization.

- (1) Notify the subcontractor and the district within three days that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization; and
- (2) Terminate the subcontract with the subcontractor if, within three days of receiving notice that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization, the subcontractor does not stop employing or contracting with the illegal alien. [CRS 8-17.5-102(2)(b)(A) and (B)]

Duty to comply with state investigation

We shall comply with any reasonable request of the Colorado Department of Labor and Employment made in the course of an investigation pursuant to CRS 8-17.5-102(5). [CRS 8-17.5-102(2)(b)(IV)]

Agreement

We appreciate the opportunity to provide the services described in this SOW related to the MSA. All terms and provisions of the MSA shall apply to these services. If you agree with the terms of this SOW, please sign below and return a signed copy to us by email or U.S. mail to indicate your acknowledgment and understanding of, and agreement with, this SOW.

Sincerely,

CliftonLarsonAllen LLP



Jason Carroll, CPA
Principal
Jason.Carroll@CLAconnect.com

APPROVED:

Signature

Title

Date



CliftonLarsonAllen LLP
 8390 East Crescent Pkwy., Suite 300
 Greenwood Village, CO 80111
 phone 303-779-5710 fax 303-779-0348
CLAconnect.com

Special Districts Public Management Services SOW

This agreement constitutes a Statement of Work (“SOW”) to the Master Service Agreement (“MSA”) made by and between CliftonLarsonAllen LLP (“CLA,” “we,” “us,” and “our”) and Greatrock North Water and Sanitation District (“you” and “your”) dated April 15, 2022. The purpose of this SOW is to outline certain services you wish us to perform in connection with that agreement.

Scope of professional services

Matt Urkoski is responsible for the performance of the engagement and other services identified in this agreement. They may be assisted by one or more of our authorized signers in the performance of the engagement.

Scope of Public Management Services

CLA will perform the following services for the District:

District Board of Directors (“Board”) Meetings

- Coordination of all Board meetings;
- Meeting Attendance: District Manager and/or designee will attend all Board meetings;
- Preparation and distribution of agenda and informational materials;
- Preparation of meeting minutes for all meetings;
- Preparation and posting of legal notices required in conjunction with the meetings;
- Other details incidental to meeting preparation and follow-up.

Recordkeeping

- Maintain lists of persons and organizations for correspondence;
- Vendor listing as needed or requested by the Board;
- Repository of all District records and act as Custodian of records for purposes of CORA (as that term is defined in the District’s Resolution Designating an Official Custodian for Purposes of the Colorado Open Records Act, Sections 24-72-201 *et seq.*, C.R.S.).

Communications

- 24/7 answering and paging services;
- Website administration. It is recommended that the District have a website; however, CLA will not provide a website for the District on CLA’s website. CLA will oversee daily management and maintenance of the District website as needed or requested by the District;
- Respond to routine inquiries, questions and requests for information regarding the District;
- Periodic reports to the Board regarding the status of District matters and actions taken or contemplated by the District Manager on behalf of the District as requested by the Board;
- Provide liaison and coordination with municipal, county and state governmental agencies.

Contract Administration

- Insurance administration, including risk evaluation, comparison of coverage, processing claims, completion of applications, monitoring expiration dates, processing routine written and telephone correspondence;
- In conjunction with District counsel, ensure all contractors and sub-contractors maintain the required insurance coverage for the District's benefit;
- Bidding, contract and construction administration and supervision of project processes assigned by the Board and project contractors;
- Confer with and coordinate legal, accounting, engineering, auditing and other professional services to the District by those professionals and consultants retained by the District as directed by the Board (CLA itself will not and cannot provide legal services);
- Represent the District with other entities and bodies as requested by the Board (but not as its representative for legal matters);
- Coordinate with and/or at Board direction, supervise District vendors

Document Administration

- Provide coordination and administration for the continuing revision of the District's Rules and Regulations;
- Provide framed aerial photographic mapping of the District, if requested;
- In conjunction with and at the direction of the District's legal counsel, coordinate all elections for the District in accordance with state law, including preparation of election materials, publications, legal notices, training session for election judges and general election assistance; CLA will not serve as the Designated Election Official ("DEO");
- Administer any legal documents, permits, or agreements that relate to or District facilities and any Rules and Regulations adopted by the Board.

Accounts Payable Services to be Provided:

- Receive and process all invoices;
- Coordinate review, approval and coding of all invoices with District Accountant and Board to ensure timely payment

In addition to these services, when, in the professional opinion of the District Manager, other services are necessary, the District Manager shall recommend the same to the Board or perform such services and report to the Board the nature of such services, the reason they were required, and the result achieved; provided however, with the exception of emergencies, that if such additional services are expected to cost more than \$2,000.00, the District Manager shall discuss such costs with the Board and receive prior authorization to perform such services.

Fees, time estimates, and terms

Our professional fees will be billed based on the time involved and the degree of responsibility and skills required. We will also bill for expenses (including internal and administrative charges) plus a technology and client support fee of five percent (5%) of all professional fees billed. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm

policies, work may be suspended if your account becomes 60 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed even if we have not issued our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket expenditures through the date of termination.

CLA'S 2022 STANDARD HOURLY RATES FOR PUBLIC MANAGEMENT SERVICES:

- Principals \$300 - \$400
- Public managers \$190 - \$240
- Assistant public managers \$110 - \$150
- Public management analysts \$110 - \$150
- District administrators \$125 - \$145
- Records retention coordinators \$ 90 - \$115

Out-of-pocket expenses such as out-of-town travel, meals, and lodging will be billed at cost and are not included in the fees quoted above. The fee estimates are based on anticipated cooperation from your personnel and their assistance with preparing requested schedules. If the requested items are not available on the dates required or are not accurate, the estimated fees will likely be higher. If unexpected circumstances require significant additional time, we will advise you before undertaking work that would require a substantial increase in the fee estimates.

Municipal advisors

For the avoidance of doubt, the district is not engaging CLA as a municipal advisor, and CLA is not a municipal advisor as defined in Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act or under Section 158 of the Securities Exchange Act of 1934 (the "Act"). CLA is not recommending an action to you, is not acting as an advisor to you, and does not owe a fiduciary duty to you pursuant to Section 158 of the Act with respect to the information and material contained in the deliverables issued under this engagement. You should discuss any information and material contained in the deliverables with any and all internal and external advisors that you deem appropriate before acting on this information or material.

Additional provisions required by CRS 8-17.5-102(2)(a)(I) and (II)

Unlawful employees, contractors, and subcontractors

We shall not knowingly employ or contract with a worker without authorization to perform work under this contact. We shall not knowingly contract with a subcontractor that (a) knowingly employs or contracts with a worker without authorization to perform work under this contract or (b) fails to certify to us that the subcontractor will not knowingly employ or contract with a worker without authorization to perform work under this contact. [CRS 8-17.5-102(2)(a)(I) and (II)]

Verification regarding workers without authorization

We have verified or attempted to verify through participation in the E-Verify Program or the Department Program [as defined in CRS 8-17.5-101(3.3) and (3.7) of the state of Colorado that we do not employ or contract workers without authorization.

Limitation regarding E-Verify Program and the Department Program

We shall not use the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while performing this contract. [CRS 8-17.5-102(2)(b)(II)]

Duty to terminate a subcontractor and exceptions

If we obtain actual knowledge that a subcontractor performing work under this contract knowingly employs or contracts with an illegal alien, we shall, unless the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with a worker without authorization.

- (1) Notify the subcontractor and the district within three days that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization; and
- (2) Terminate the subcontract with the subcontractor if, within three days of receiving notice that we have actual knowledge that the subcontractor is employing or contracting with a worker without authorization, the subcontractor does not stop employing or contracting with the worker without authorization. [CRS 8-17.5-102(2)(b)(A) and (B)]

Duty to comply with state investigation

We shall comply with any reasonable request of the Colorado Department of Labor and Employment made in the course of an investigation pursuant to CRS 8-17.5-102(5). [CRS 8-17.5-102(2)(b)(IV)]

Agreement

We appreciate the opportunity to provide the services described in this SOW related to the MSA. All terms and provisions of the MSA shall apply to these services. If you agree with the terms of this SOW, please sign below and return a signed copy to us by email or U.S. mail to indicate your acknowledgment and understanding of, and agreement with, this SOW.

Sincerely,

CliftonLarsonAllen LLP



Matt Urkoski
Principal
Matt.Urkoski@CLAconnect.com

APPROVED:

Signature

Title

Date



ENGINEER'S PROGRESS REPORT

Date: May 3, 2022
To: Greatrock North Water and Sanitation District
From: Element Engineering
Job No. 0041.0001
RE: Monthly Engineers Report – **New Items Bold**

CAPITAL PROJECTS:

1. Water Treatment Plant Improvements - Construction

Element Engineering recommended Moltz Construction be awarded the project. The board voted to award the project to Moltz at the district's April 4th Meeting. The notice of award and owner-contractor agreement have been signed by both the district and the contractor. Bonds and insurance (payment and performance bonds) have been received by Element. Hard copies will be provided to CLA. Element held a meeting with Moltz to discuss a schedule for the pre-construction meeting and notice to proceed. The pre-construction meeting is scheduled for the week of May 31st with the notice to proceed being issued shortly after. Moltz has already submitted documents for the septic system permit and is working on the building department permit. We expect submittals to begin arriving for review shortly.

A pre-construction meeting was held on June 10th. The Notice to Proceed has been fully executed by both parties. The following is a summary of the construction timeline:

Notice to Proceed:	June 14, 2021
Substantial Completion:	March 26, 2022 (285 days after NTP)
Punch List Complete:	May 10, 2022 (45 days after Substantial Completion)

Moltz Construction has started sending material and equipment submittals to Element for review.

During the building permit review process Adams County planning is requiring that a Major PUD Amendment process be completed. As it was our understanding that this would not be required, due to the proposed building being included in the last PUD amendment, Element reached out to Adams County to review this requirement. Adams County has indicated that as the building was included on the site plan, not the signed PUD amendment, a new amendment process would be required. The major amendment will require 2 hearings: one before the Planning Commission and one before the Board of County Commissioners. A neighborhood meeting will also be required. We have informed Moltz of this requirement and will keep them informed as to our

progress and how it may, or may not, affect their schedule. It is our hope that we can complete this process prior to Molt's planned onsite construction date, therefore causing no delays.

The required major PUD amendment mailer was sent out by certified mail. The public meeting is scheduled for August 3rd at 5:30 PM via Zoom (the same Zoom invitation as the district's board meeting). A meeting agenda has been provided to the board for review and is attached to this report.

The public meeting was held on August 3rd. The PUD application was submitted shortly after. We have received confirmation that the application has been received and assigned to a county planner. Element has reached out to our assigned project manager to see what the schedule for the PUD process will be. We have not yet received a response on that request.

Moltz Construction has requested to mobilize onsite with fencing, portlets, and other minor items. This request has been approved.

Element attended site visit meeting with Moltz and REC on September 16th to exchange building keys and discuss initial mobilization. The temporary construction fencing will be installed on or about Monday September 20th.

We have received comments from the Adams County planner assigned to our PUD amendment case. The comments provided by Adams County are attached to this report. Comments and Element responses are as follows:

- Staff has concerns with the visual and aesthetic compatibility of the proposed structure with the rest of Box Elder Creek Ranch PUD. Please provide more detail about the building material that will be used.

Element Response: Although this information was included with the original application, we will address this comment by including images of nearby and adjacent structures and showing that the proposed building features Hardie siding and wood trim. We will stress that the district is budgeting significant money to ensure that the building blends with adjacent structures.

- Provide a more detailed landscaping plan to show how many and what type of trees that will be planted. Please show all existing trees and vegetation that will remain after the structure is complete.

Element Response: We will provide a landscaping plan as requested. A draft of the landscaping plan is attached. All trees installed will be Austrian Pines.

- The secondary access will require a county access permit and review, etc.

Element Response: Element responded to this comment with an email requesting clarification on this item. This is technically not a "secondary" access used by the project. This is the primary access to what was originally a separate lot.

A response to all comments will be sent to Adams County by September 24th. A draft comment response letter will be provided to the district manager and board president and vice-president prior to submittal to Adams County.

Moltz has submitted Pay Application No. 1 which includes fees for mobilization. Element has reviewed this application and recommend it for approval. Moltz cannot begin work until the final building permit is issued. This requires the county to approve the Major PUD Amendment. Element has requested a schedule from the newly assigned Adams County project manager, and we are awaiting a response.

Dates for the planning commission and Board of County Commissioners meetings have been set for December 9th (6PM) and January 11th (9:30AM). Element will be present at these meetings. The district has approved Element to proceed with the removal of the water treatment plant sump design and to design a new gravity concentrate main from the water treatment plant site to the tie-in location at 162nd and Rayburn.

The planning commission has approved the major PUD amendment. The remaining task is to receive approval from the board of county commissioners at the January 11th meeting. Design on the Rayburn concentrate extension is ongoing. Element will be identifying locations for utility potholing to ensure we know the depth of utility crossings to avoid conflict.

The BOCC has approved the major PUD amendment and Moltz construction is working to obtain a building permit. The Rayburn concentrate line and the Field Order eliminating the WTP sump is 90% complete. Upon final completion Element will submit the Rayburn concentrate design to Adams County for a ROW utility permit. A proposal for potholing has been received and processed by the district. Diversified Underground will begin potholing upon execution of the potholing agreement. Moltz has submitted Pay Application No. 2 which includes payment for stored materials.

The building permit has been issued and Moltz is making good progress on the project. Element performed a reinforcing steel inspection on the southern half of the spread footer and stem wall. Remaining reinforcing steel inspections will be performed by Ground Engineering hired by Moltz. The first construction progress meeting was held on Thursday February 17th at 1:30 PM. Weekly meetings are being held via Microsoft Teams on the same day (Thursday) and time (1:30 PM). Element has issued Field Order No. 1 which includes elimination of the WTP sump and a new concentrate line down Rayburn Street to the intersection of 162nd. Initial discussions with Adams County have indicated that the area will be either overlaid or crack sealed in the near future. It is our intent to have this pipe installed prior to the work with Adams County, however, the county's schedule is unknown. A utility permit is required to install the infrastructure as designed. Element expects to submit this application to Adams County.

The utility permit has been submitted to Adams County for the concentrate line from the WTP site to the intersection of Rayburn and 162nd. Moltz is working to determine a final cost for the field order (sump elimination and construction of the concentrate line). Potholing for the utility crossings in the area has been completed and has been documented on the plans.

Element has received and reviewed Change Order No. 2 and No. 3 submitted by Moltz Construction. These are to be reviewed and discussed at the upcoming board meeting. Also, Pay Application No. 5 has been submitted and reviewed. Payment is recommended.

2. Concentration Evaporation Pond

Element has reviewed all historic documents on the concentration evaporation pond and has contacted the subconsultant tasked with the concentrate line and pond grading design (CVL). The tasks necessary to complete design and permitting of the concentrate pond are as follows:

- Receive concentrate line and pond CAD files from CVL.
- Compile an Engineering Design and Operations Plan (EDOP), design plans, liner design, and specifications for the pond per CDPHE Section 9: Waste Impoundments.
- Finalize pond grading design and SWMP.
- Update concentrate line per request from developer and update easement exhibit.

Element has provided the district with a proposal to the district to complete pond design and CPDHE submittal (EDOP, plans, specifications). The EDOP, plans, and specifications will be to CPDHE for review and approval. After approval, the district will be granted approval for construction. CDPHE has strict quality control and construction documentation requirements including a construction QA/QC report that must be submitted after construction. Element can provide a proposal for pond bidding, construction observation, and construction QA/QC reporting at the appropriate time.

Element's proposal to complete the third concentrate pond and line has been approved by the district. We are currently working on the EDOP and plans. Also, we have provided a modified draft easement exhibit to Jay Scolnick for the revised concentrate line alignment.

As of August 29, 2021, Element continues to work on the concentrate pond design and EDOP. We have been coordinating with Jay on the concentrate line and have come to an agreement on the line location. We are finalizing what should be the last iteration of the concentrate line easement for signature by Jay. Our surveyor will require some field work for the easement in order to stamp the legal description. Also, there is additional survey required for the concentrate line design which will occur at the same time.

Additional survey field work was ongoing as of September 16th. Element met onsite with the surveyor to confirm required items to be surveyed. Element held discussions about the potential to eliminate the proposed sump and pump in the proposed RO WTP if the concentrate line can be lowered. Element recommends any new concentrate main installation be 8-inch diameter SDR 35 PVC minimum.

Element has received the updated survey and has provided preliminary pond alternative layouts and costs as well as concentrate line profiles for the district's discussion at the October 26th work session. Upon a final decision for layout and pond location design documents will be created. Also, it is apparent that the concentrate line in Rayburn can be lowered, allowing the proposed sump in the ROWWTP to be removed and all drains go to the concentrate line.

Element was provided direction by the board to proceed with the west pond location and the gravity concentrate main running down Hudson Mile Road. Design work is ongoing with draft design documents expected to be complete in January. Element has reached out to Adams County to determine what permitting will be required for the project. A potential pre-application meeting with Adams County was requested.

Element has submitted the initial pre-application document to Adams County. A pre-application meeting with the county will be scheduled in the coming weeks based on the county's schedule. Work continues on finalization of the design. It is our goal to submit a draft of the design submitted to the board for review during the month of January.

A pre-application meeting with Adams County has been scheduled for Friday February 4th at 10:30 AM. This meeting will be held virtually. Element submitted progress plans on the concentrate pond to the district. We are now working to finalize the plans. The next step is to complete final internal edits and compile a stormwater management plan (SWMP) and finalize and submit the Section 9 Impoundment permitting report to CDPHE. This should be completed by the end of February to mid-March.

Element and CLA staff attended a pre-application meeting with Adams County. A detailed summary of submittal requirements was sent to the GNWSD board. In summary a Conditional Use Permit is required. The board approved Element to begin working on this submittal. Work is ongoing. We expect submittal of the conditional use permit and EDOP to Adams County and CDPHE in mid-March.

The public meeting for the conditional use permit is to be held at the April 5th board meeting. The required environmental study on the property is being completed by an Element subconsultant. Upon completion of the environmental study and public meeting, Element will submit the conditional use permit application to Adams County.

Element received the ownership and encumbrance report to research mineral rights owners to notify them (as required by Adams County). Also we received the environmental report prepared by Olsson Associates that is required with the Conditional Use Permit. Our final task is to finalize the EDOP and submit it to CPDPHE and Adams County as well as provide notifications to mineral holders.

3. Third Alluvial Well

Element will report items pertaining to the third alluvial well in this section.

Element met with the district's water resources engineer on August 12th. It was discussed that the location of Alluvial Well 3 and 4 would likely be the best locations for the new alluvial well. Element has been requested to complete a construction and design cost estimate to tie each of these well locations into the existing raw water lines. This work will begin shortly.

The well locations 3 and 4 were determined to be the best locations as they produce a satisfactory amount of water and have better water quality than location 5, which tested very high in nitrates (> 20 mg/L).

A Basis of Design Report (BDR) must be submitted to CDPHE to add an additional water source. This BDR must include the results of extensive water quality testing. Two separate testing batteries must be completed in two separate calendar quarters. Also, once drilled, the well will need to be tested to insure it is not under the direct influence of surface water.

No work this period.

GENERAL ENGINEERING – ADMINISTRATION

Element has been coordinating closely with CLA to onboard general engineering services. Element, CLA and GNWSD held an initial onboarding meeting at Element offices on June 10th. An additional onboarding meeting with REC has been scheduled on June 30th at REC offices. We have received all electronic and hard copy files from MMI and have reviewed them to determine the sum of available records.

Element has completed cost estimates to support 2022 budget preparation. This included estimated general engineering (ops and admin) fees, capital project fees, and engineering construction administration fees. A meeting to review the proposed budget items was held on September 22nd at REC offices.

Element is coordinating the additional information (survey) and scoping items on the concentrate line and concentrate pond and line alternatives in the General Engineering – Administration job number.

Element presented options to the board on concentrate line and concentrate pond locations. See Third Concentrate Pond reporting for more information.

Element is working on the county permitting of the third concentrate pond. See third concentrate pond update.

1. Box Elder Creek Ranch Subdivision

Element will report general administrative engineering items pertaining to the Box Elder Creek Ranch subdivision in this section.

No work this period.

2. Rocking Horse Farms Subdivision

Element will report general administrative engineering items pertaining to the Rocking Horse Farms subdivision in this section.

Element has coordinated with REC to complete the recommendation for final acceptance of the Rocking Horse Farms Pump Station Replacement Project. The project was completed on July 22, 2020, and has been successfully operating since startup. The 1-year warranty period has elapsed, and Element recommends final acceptance.

Element met with REC at RHF on January 21st to discuss replacement of the RHF control valves. It was determined that an insertion valve could be installed downstream of the control valve to

shut the tank off. A new electrically actuated gate valve could then be installed in the vault. It is recommended that two manual gate valves with wheels be installed on either side of the new actuated valve. This time was billed to General Engineering: Operations.

No work this period.

3. Greatrock North Subdivision

Element will report general administrative engineering items pertaining to the Greatrock North subdivision in this section.

No work this period.

4. Hayesmount Estates Subdivision

Element will report general administrative engineering items pertaining to the Hayesmount Estates subdivision in this section.

No work this period.

GENERAL ENGINEERING – OPERATIONS

Element will report on water accounting, use, water quality, and electrical usage, and pond levels in this section. We are working on on-boarding and coordination with REC so that we may obtain data for regular reporting.

Element met with REC on January 21st to discuss the rocks in the concentrate line. It was determined that the line could be temporarily shut down (turn off WTP) and the line upstream of the control valve could be shut. The concentrate line could then be pumped out (water discharging to the adjacent concentrate pond) and the line could be excavated, opened, and the rocks removed. Upon removal the line would need to be replaced in the excavated area.

See attached monthly year over year comparison of electrical use (KWH) and electrical billing (\$).

DEVELOPMENT SERVICES

1. Country Club Ranchettes Filing No. 1

Element has contacted Jay Scolnick and his contractor (Three Sons Construction) to set up a pre-construction meeting. The meeting is tentatively scheduled to be held onsite during the weeks of July 5th or July 12th depending on final construction permit issuance from Adams County. Three Sons Construction has started the submittal process with Element. We are reviewing submittals per the district's rules and regulations.

Element will discuss construction observation and management roles and responsibilities with REC and CLA to clearly define task responsibility between each entity.

Element will be responsible for onsite construction observation. Submittals have been received and reviewed. A pre-construction meeting was held on July 16th. Onsite construction work started on July 21st. Element will be providing full time observation for the first week, and scale back observation time if we feel the contractor is completing acceptable work. Element provided the

district with an estimated number of hours for onsite work that included the pre-construction, observation, GPS services and final walkthrough.

Element has completed construction observation and oversight during construction. Adams County notified the developer (Jay) and their engineer (Manhard) that their fire hydrant design and installation was three feet too close to the centerline of the asphalt roadway. The hydrants are required to be moved, which will require a new pressure test. An exhibit of this relocation is attached to this board report.

Element inspected and coordinated work on the fire hydrant relocation.

Minor construction observation/coordination occurred during this reporting period. Initial acceptance will occur after the surface improvements are complete (pavement, etc).

Element was notified that paving would occur at the project during the month of December. Upon completion of surface improvements an initial acceptance walkthrough will be completed.

2. Country Club Ranchettes Filing No. 2

On Wednesday January 26th Element met with the developer to discuss inclusion of CCR Filing 2. There were no specific engineering related action items immediately necessary at the meeting. When the inclusion packet is submitted, Element will complete necessary review tasks.

The inclusion agreement for CCR F2 has been submitted and Element is working with the district's consulting team to review and provide comment.

3. Ridgeview Estates

Element has requested the developer that to notify us when all surface improvements have been completed. Upon completion of these improvements an initial acceptance walkthrough can be held, and a punch list generated. Upon completion of the punch list items (if any) initial acceptance will be recommended.

A punch list was generated and provided to the developer. We received a response that the punch list would be completed and that we would be notified when items are completed. Once complete we will do a final walkthrough.

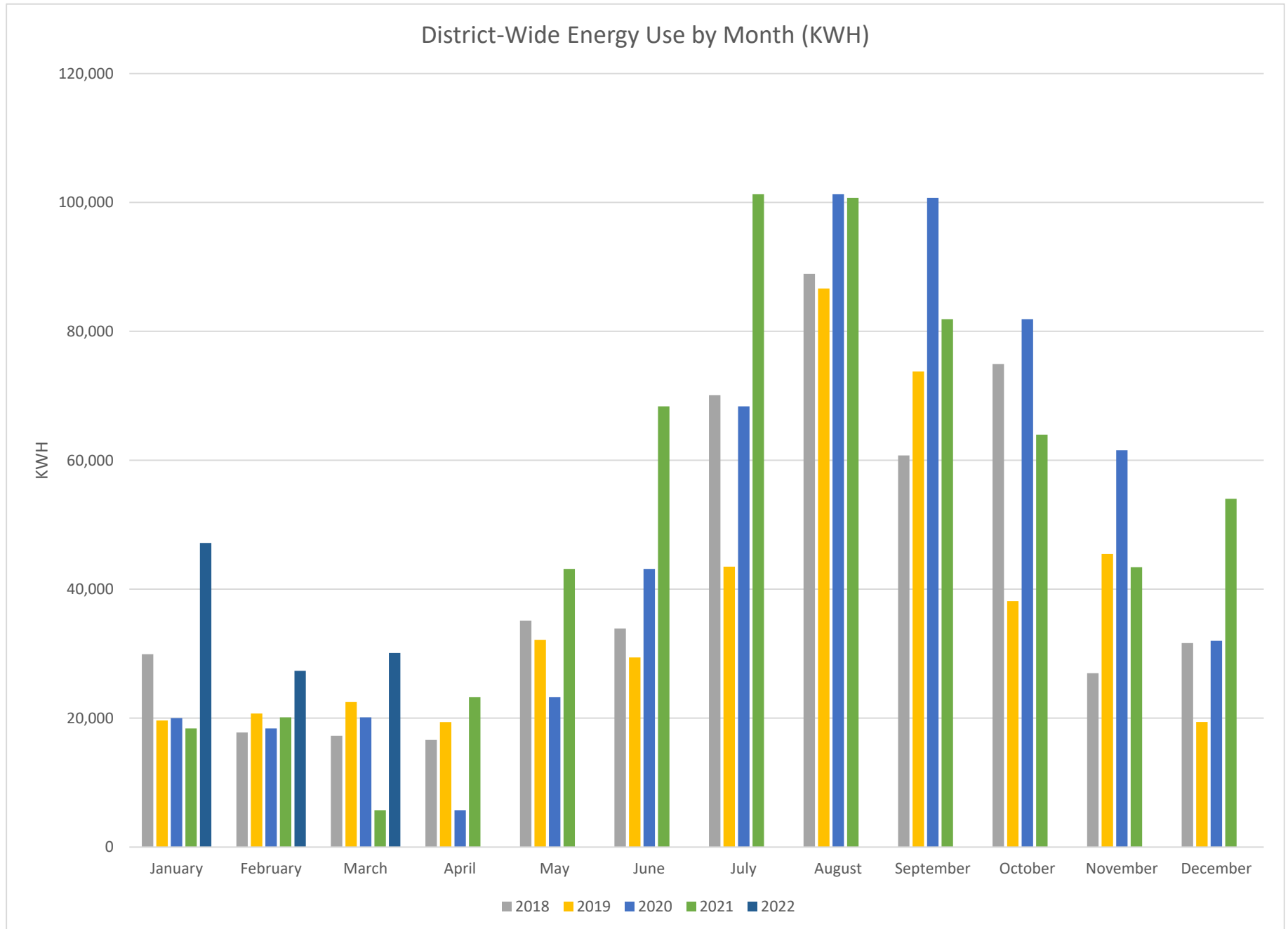
The developer reported that the initial acceptance checklist was completed. A walkthrough was completed by Element on October 4th. There were minor items that need repair that were reported to the developer. A final inspection will be completed upon receiving word that the final remaining items have been completed.

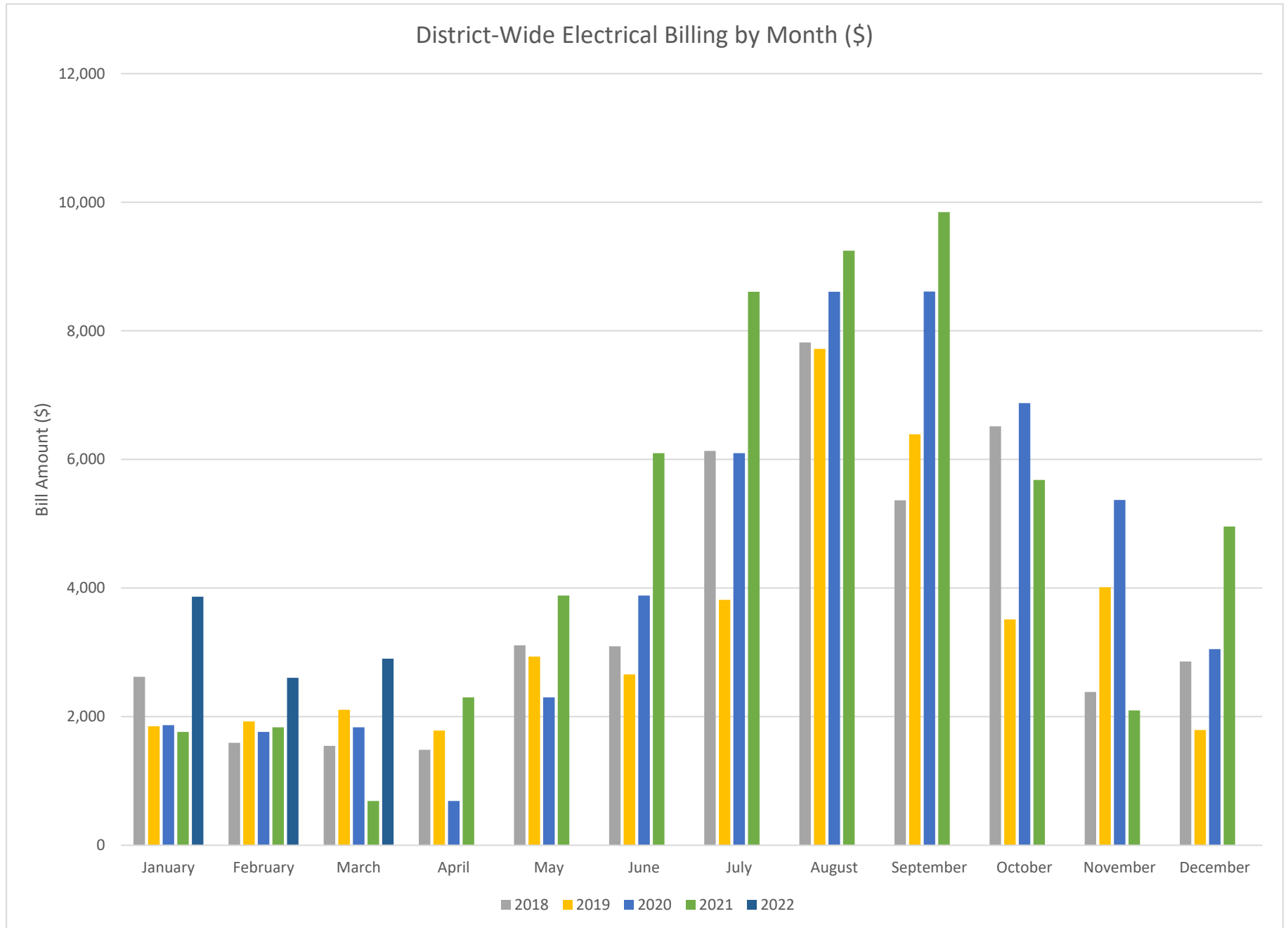
Element performed the final initial acceptance walkthrough and have verified that all required items have been completed. The infrastructure in the development has been shot with the district's GIS system and we are working with the GIS platform to upload the data.

A list of items required for initial acceptance has been provided to the developer on December 20, 2021.

4. Epic Estates

No work this period.





Jenkins, Cindy

Subject: FW: [External] GNWSD - Change Order 2 and 3
Attachments: CO_03_Field Order #1.pdf; P-1325-Greatrock.pdf; Proposal - GNWSD Field Order No 1, 3-10-22.pdf; CO_02_Schedule Update.pdf

From: Nicholaus Marcotte <nmarcotte@elementengineering.net>

Sent: Tuesday, April 26, 2022 9:49 AM

To: Johnson, Lisa <Lisa.Johnson@claconnect.com>

Cc: Mike Hager <mikeh@elementengineering.net>

Subject: [External] GNWSD - Change Order 2 and 3

Hi Lisa,

We have received proposed change orders 2 and 3 from Moltz Construction. They are described in detail below:

- Change Order 2: \$10,973.00 – This change order extends the contract schedule to allow for the delay that was originally incurred by going through the county planning and zoning. The contractor is also requesting to recoup costs associated with winter construction that was not originally anticipated in the project schedule. This change order moves substantial completion from 3/26/22 to 9/1/22. Costs for Office, Trailer, Temp Toilet, winter conditions, and ground heater are included in the cover page. Supporting invoices are also included. I have reviewed to ensure the form was filled out completely with labor, markup, bonds, etc.
- Change Order No. 3: \$371,222.00 – This change order is the costs associated with lowering and enlarging the concentrate pond down Rayburn to the intersection of 162nd Avenue as issued in Field Order No. 1. Moltz Construction solicited three pipe subcontractors to put this work in. Moltz originally received quotes from two (TLowell and JBS Pipeline Contractors). The two proposals were very similar: \$510,000 and \$525,480.70, respectively.

TLowell provided the initial lower cost. We then worked with Moltz and TLowell to negotiate their price down by switching to SDR 35 sewer pipe rather than C900 pipe and eliminating flow fill and using compacted native material in the pipe trench. The updated TLowell price included in the change order is \$339,000. Both the original bids and the full Change Order No. 3 are attached to this email.

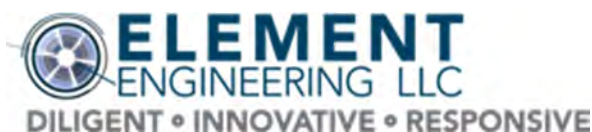
Note that TLowell has indicated that the price of PVC is very volatile. We asked them to provide their cost of PVC pipe material at the time of this proposal. This is included on page 2 of their proposal included in the overall Moltz Change Order No. 3. This price is \$10.54/LF.

These will certainly require further review and discussion by the board, but I wanted to get these to you for review and distribution to the board. We can provide answers to any questions and our final recommendations after our discussion.

Thanks,

Nicholaus P. Marcotte, P.E.

President



Recipient of Colorado Rural Water's 2018 Associate Member of the Year Award

303.378.2969 | nmarcotte@elementengineering.net | www.elementengineering.net
 12687 W. Cedar Drive, Suite 300, Lakewood, CO 80228



CHANGE ORDER	02	ROUTING	DATE SENT	DATE RECEIVED
OWNER: Greatrock NWSD		Contractor/ Engineer	April 19, 2022	
PROJECT: Greatrock NWSD RO WTP		Engineer/ Owner		
CONTRACTOR / SUBCONTRACTOR: MOLTZ		REQUESTED RESPONSE DATE	April 24, 2022	
Construction Job # or Proposal #: 2125				

CONTRACTOR REQUEST

The following changes to the contract are being considered:

This proposal is for updating the contractual schedule of the project as a result of delays from Adams County's Planning and Building department.

- This change is associated with a Work Change Directive (WCD), Proposal Request (PR) or Change Order (CO)
- Have submitted quotation for performing change
- Other: Project Delayed Start

Requested Change Value: \$ 10,973.00
Requested Additional Contract Time 160 days

	<u>Costs (Dollars)</u>	<u>Time (Days)</u>
<input checked="" type="checkbox"/> Add	<u>\$10,973.00</u>	<u>160</u>
<input type="checkbox"/> Deduct	<u> </u>	<u> </u>

By: Bryan Geha Date: 4/19/2022

NOTES:

Original Substantial Completion Date was 3/26/2022. Adams County didn't get the planning approval done until late January of 2022 and didn't issue the building permit until 2/8/2022.

Element Engineering
 Approved By: _____ Date: _____

Greatrock District Rep
 Approved By: _____ Date: _____

Change Order Item ~ 2 ~ Moltz Construction, Inc.



Project: Greatrock NWSO RO WTP

Date Prepared: April 19, 2022

Description of Change: Updated Project Schedule

Reference Documents: Revised CPM (Attach WCD, PR or CO if relevant)

#	DESCRIPTION	Unit	Qty	LABOR				MATERIAL		SUBCONTRACT		EQUIPMENT		OTHER		TOTAL
				MH Unit	MH Cost	Total MH	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
1	Office Trailer & Temp Toilet	MO	4			0.00	\$0.00	1050	\$4,200.00		\$0.00		\$0.00		\$0.00	\$4,200.00
2	Winter Conditions	MO	1	30	29	30.00	\$870.00	500	\$500.00		\$0.00		\$0.00		\$0.00	\$1,370.00
3	Ground Heater	MO	0.5			0.00	\$0.00		\$0.00		\$0.00	6000.00	\$3,000.00	1500.00	\$750.00	\$3,750.00
4						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
5						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
6						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
7						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
8						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
9						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
10						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
SUBTOTALS						0.00	\$870.00		\$4,700.00		\$0.00		\$3,000.00		\$750.00	\$9,320.00

NOTES:

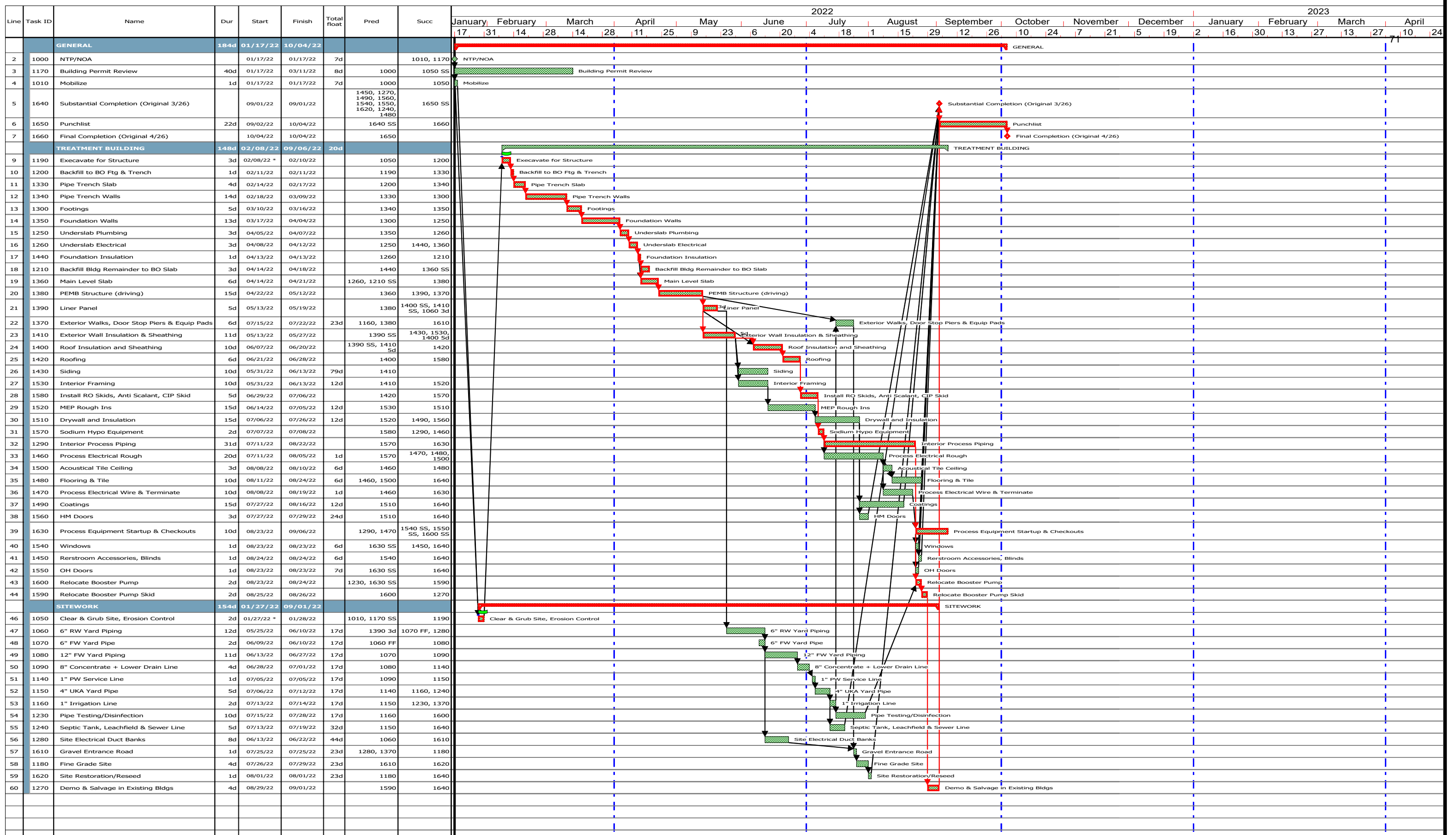
Office Trailer was mobilized in September of 2021 but we were unable to occupy until start of February of 2022 due to pending Adams County approvals.

LABOR BURDEN (Labor \$)	32%	\$278.40
COST OF WORK LESS SUBCONTRACTS (COWLS) ¹		\$9,598.40
MARKUP (COWLS)	10.00%	\$959.84
MARKUP (SUBCONTRACTS)	5.00%	\$0.00
TOTAL (COWLS + SUBCONTRACTS + MARK-UPS)		\$10,836.64
Bonds & Insurance	1.25%	\$135.46
Small Tools		\$0.00
GRAND TOTAL		\$10,972.10

NET CHANGE (ACTUAL)	\$10,972.10
NET CHANGE (ROUNDED)	\$10,973.00

1 - Cost of Work is the total cost of Labor, Material, Subcontracts, Equipment, Other, Labor Burden, Inland Marine, Per Diem and Small Tools

2 - Bond fee only applies if PCO is not covered under previously bonded funds



Greatrock RO WTP

Job #: 00001

Printed View: Bar Chart View

Rev. date: 4/14/2022 11:27:35 AM

Data Date: 1/17/2022

Filter: None

Page 1 of 1



901 SOUTH BOND ST., SUITE 600TM
BALTIMORE MD 21231

(800) 782-1500, Option 1
customersuccess@willscot.com
www.willscot.com
Fed ID# 52-0665775

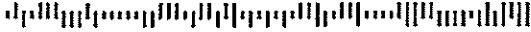


INVOICE

72

Customer #	Invoice #	Invoice Date	Seq #	Terms
10433685	9013291573	3/8/2022	007	DUE NOW
PAYMENT DUE			\$1,041.14	
INVOICE DUE DATE			3/8/2022	

MOLTZ CONSTRUCTION INC
8807 COUNTY ROAD 175
SALIDA CO 81201-9522



BRANCH:

MD DENVER CO
10801 E 104TH AVE
HENDERSON CO 80640-8830
(303) 853-4266

Contract #	Previous Customer #	Bill to ID	Customer PO	Ordered By	Rental Period	Job Location
1001673688	5594098	169771		bryan geha 9704609217	3/8/2022 - 4/4/2022	MOLTZ CONSTRUCTION INC 16393 RAYBURN ST BRIGHTON CO 80603

Quantity	Item #/Description	Price/Rate	Amount	
1	32x10 Mobile Office (28x10 Box) ROS-02632	\$758.75 Rental	\$758.75	T*
1	SMM RENTAL TAX	\$15.18	\$15.18	T*
2	Bas. Entrance-Steps T2	\$100.00	\$200.00	T*
2	STEPS - OSHA ALUMINUM RENTAL		0.00	N*
1	PAPER CHECK FEE 000209798	\$10.00	\$10.00	T*
1	PAPER CHECK FEE 000210568	\$10.00	\$10.00	T*
Sub-total			\$993.93	
Tax			\$47.21	
INVOICE TOTAL			\$1,041.14	

Invoice in USD

T* - Denotes taxable item, N* - Denotes non-taxable item.



PAYMENT OPTIONS

Welcome to the WillScot | Mobile Mini customer portal! Register today to make online payments, sign up for Auto-Pay, or view invoices and statements.

<https://portal.mobilemini.com>

(800) 782-1500, Option 1

You remain responsible for the invoice balance if there is an issue with your method of payment. Late fees and interest charges may be assessed if payment is not made within terms.

Thank you for your business!

PLEASE REMIT WITH PAYMENT

INVOICE TOTAL \$1,041.14
Invoice #: 9013291573
Due Date: 3/8/2022
Customer: MOLTZ CONSTRUCTION INC
Customer #: 10433685

PLEASE REMIT TO:

WILLIAMS SCOTSMAN, INC.
PO BOX 91975
CHICAGO IL 60693-1975



CHANGE ORDER	03	ROUTING	DATE SENT	DATE RECEIVED
OWNER: Greatrock NWSD		Contractor/ Engineer	April 19, 2022	
PROJECT: Greatrock NWSD RO WTP		Engineer/ Owner		
CONTRACTOR / SUBCONTRACTOR: MOLTZ		REQUESTED RESPONSE DATE	April 24, 2022	
Construction Job # or Proposal #: 2125				

CONTRACTOR REQUEST

The following changes to the contract are being considered:

This proposal covers the cost to make the changes per Field Order No. 1 - WTP Sump Elimination and Concentrate Line.

- This change is associated with a Work Change Directive (WCD), Proposal Request (PR) or Change Order (CO)
- Have submitted quotation for performing change
- Other: Field Order #1

Requested Change Value: \$ 371,222.00
Requested Additional Contract Time _____ days

	<u>Costs (Dollars)</u>	<u>Time (Days)</u>
<input checked="" type="checkbox"/> Add	<u>\$371,222.00</u>	<u>0 (See Note)</u>
<input type="checkbox"/> Deduct	_____	_____

By: Bryan Geha **Date:** 4/19/2022

NOTES:

The scope of work is anticipated to be 5 weeks in duration and is assumed that it will start and be completed within the current timeframe of the project. If additional time is needed Moltz will require additional general condition costs. Currently the pipeline contractor thinks they could have material and be ready to start late May of 2022.

Element Engineering
 Approved By: _____ Date: _____

Greatrock District Rep
 Approved By: _____ Date: _____

Change Order Item ~ 3 ~ Moltz Construction, Inc.



Project: Greatrock NWSO RO WTP

Date Prepared: April 19, 2022

Description of Change: Concentrate Line Modifications

Reference Documents: Field Order #1, Kerwin CO, T.Lowell Quote (Attach WCD, PR or CO if relevant)

#	DESCRIPTION	Unit	Qty	LABOR				MATERIAL		SUBCONTRACT		EQUIPMENT		OTHER		TOTAL
				MH Unit	MH Cost	Total MH	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
1	Field Engineering/Oversight of Pipeline	LS	1	50	40	50.00	\$2,000.00		\$0.00		\$0.00	150	\$150.00		\$0.00	\$2,150.00
2	PM/Superintendent	LS	1	24	60	24.00	\$1,440.00		\$0.00		\$0.00		\$0.00		\$0.00	\$1,440.00
3	Plumbing Changes & Deletion of Sump	LS	1	-27	29	-27.00	-\$783.00	-370.00	-\$370.00	2426.00	\$2,426.00		\$0.00		\$0.00	\$1,273.00
4	Pipeline Subcontractor	LS	1			0.00	\$0.00		\$0.00	339000.00	\$339,000.00		\$0.00		\$0.00	\$339,000.00
5	3rd Party Testing	LS	1			0.00	\$0.00		\$0.00	3500.00	\$3,500.00		\$0.00		\$0.00	\$3,500.00
6						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
7						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
8						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
9						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
10						0.00	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
SUBTOTALS																
						-27.00	\$2,657.00		-\$370.00		\$344,926.00		\$150.00		\$0.00	\$347,363.00

NOTES:

Pipeline is based on using Native Soil for backfill and SDR 35 pipe with un-restrained fittings.

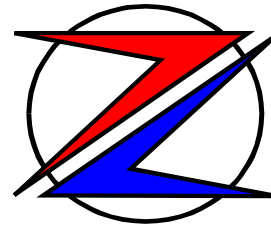
LABOR BURDEN (Labor \$)	32%	\$850.24
COST OF WORK LESS SUBCONTRACTS (COWLS) ¹		\$3,287.24
MARKUP (COWLS)	10.00%	\$328.72
MARKUP (SUBCONTRACTS)	5.00%	\$17,246.30
TOTAL (COWLS + SUBCONTRACTS + MARK-UPS)		\$366,638.50
Bonds & Insurance	1.25%	\$4,582.98
Small Tools		\$0.00
GRAND TOTAL		\$371,221.49

NET CHANGE (ACTUAL)	\$371,221.49
NET CHANGE (ROUNDED)	\$371,222.00

1 - Cost of Work is the total cost of Labor, Material, Subcontracts, Equipment, Other, Labor Burden, Inland Marine, Per Diem and Small Tools

2 - Bond fee only applies if PCO is not covered under previously bonded funds

April 13, 2022



T. L o w e l l
Construction, Inc.

REVISED PROPOSAL

GNWSD - Field Order No. 1 - Concentrate Main Moltz Construction

<i>item</i>	<i>description</i>	<i>qty</i>	<i>unit</i>	<i>unit price</i>	<i>total</i>
1	mobilization	1	ls	\$ 27,600.00	\$ 27,600.00
2	construction staking	1	ls	\$ 7,185.00	\$ 7,185.00
3	GESC (for concentrate main scope)	1	ls	\$ 19,800.00	\$ 19,800.00
4	traffic control	1	ls	\$ 23,100.00	\$ 23,100.00
5	connection at sta 10+20.49	1	ls	\$ 4,250.00	\$ 4,250.00
6	connection at sta 10+01.05	1	ls	\$ 4,250.00	\$ 4,250.00
7	connection at sta 1+00	1	ls	\$ 4,250.00	\$ 4,250.00
8	8" sdr35 PVC	925	lf	\$ 145.00	\$ 134,125.00
9	4" cleanouts	6	ea	\$ 1,200.00	\$ 7,200.00
10	6" hydrant lateral lowering	1	ea	\$ 10,700.00	\$ 10,700.00
11	1.5" water service lowering	4	ea	\$ 4,000.00	\$ 16,000.00
12	12" C900 PVC lowering	1	ea	\$ 17,500.00	\$ 17,500.00
13	5" asphalt patching	600	sy	\$ 99.00	\$ 59,400.00
14	seeding	0.4	ac	\$ 9,100.00	\$ 3,640.00

TOTAL:	\$ 339,000.00
---------------	----------------------

NOTES & CLARIFICATIONS:

- a. proposal based on one mobilization - additional mobilizations if required will be invoiced at \$10,000 per each
- b. on site water source and meter to be provided by GC
- c. geotechnical testing excluded
- d. sales and use taxes are excluded
- e. Davis Bacon wage rates and certified payrolls excluded
- f. performance and payment bonds excluded, if required bond rate is 1.5%
- g. all items not specifically listed/included are considered excluded
- h. PVC market is extremely volatile - PVC cost adjustment will be required at time of order release
8" SDR35 PVC price at time of proposal = \$10.54/LF

GENERAL CONDITIONS:

- work to begin on mutually agreeable date.
- adequate room to work to be provided
- no contract with liquidated damages provisions will be accepted without concurrent schedule agreement.
- payment due upon billing. Any amounts not received within thirty (30) days subject to 1-1/2% add'l charge per month.
- T. Lowell Construction, Inc. standard insurance coverages/provisions/exclusions included only. Additional insurance coverage premiums required will be billed at invoice cost plus twenty percent.
- all contract terms in conflict with this proposal to be agreed upon in writing.
- all retainage must be released within thirty (30) days of acceptance of our work scope or beneficial use, whichever comes first.
- proposal is valid with Notice of Intent to Award within ten (10) days and actual award of contract within thirty (30) days of proposal date.

CONTACT INFORMATION:

Levi A Lowell
T. Lowell Construction, Inc.
3211 South I-25
Castle Rock, CO 80109
T 303-688-2330x4
C 303-435-5499
E levi@tlowellconstruction.com



**Greatrock North Water & Sanitation District-Reverse
Osmosis WTP
Change Order # Field Order #1
3/16/2022**

(Add 2 FD-1, 3 FCO-1)

(Add 50 ft 4" sewer & 4" vent thru roof)

(Deduct SP-1&2)

Material:	<u>\$3,000</u>
Sales tax- _____ %	<u><\$3,200></u>
Total Material	<u><200></u>

Credit of SP-1&2 includes restock fees

Labor:	
Plumber <u>24</u> Hours @ <u>\$105</u>	<u>\$2,520</u>
Apprentice <u>24</u> Hours @ <u>\$95</u>	<u>\$2,280</u>
Total Labor	<u>\$4,800</u>
	<u><\$2,400></u>
	<u>\$2,400</u>

- Labor to set pumps.
12 hrs at \$105
12 hrs at \$95

Expenses:	
Material handling _____ % of material total:	_____
Misc. material and job cost, expendables, small tools	_____
_____ % of Labor Total	_____

Administration	_____
Permits	_____
Equipment Rental	_____
Backhoe	_____
Overtime	_____
Other -	_____

Total Expenses:	<u>\$0</u>
------------------------	------------

Overhead and Profit:	
Subtotal 1: Total material/labor/expenses	<u>\$2,200</u>
Overhead <u>5</u> % of subtotal 1:	<u>\$110</u>
Subtotal 2: (subtotal #1 plus overhead)	<u>\$2,310</u>

Profit: (<u>5</u> % of subtotal #2)	<u>\$116</u>
---	--------------

Total	<u>\$2,426</u>
--------------	----------------

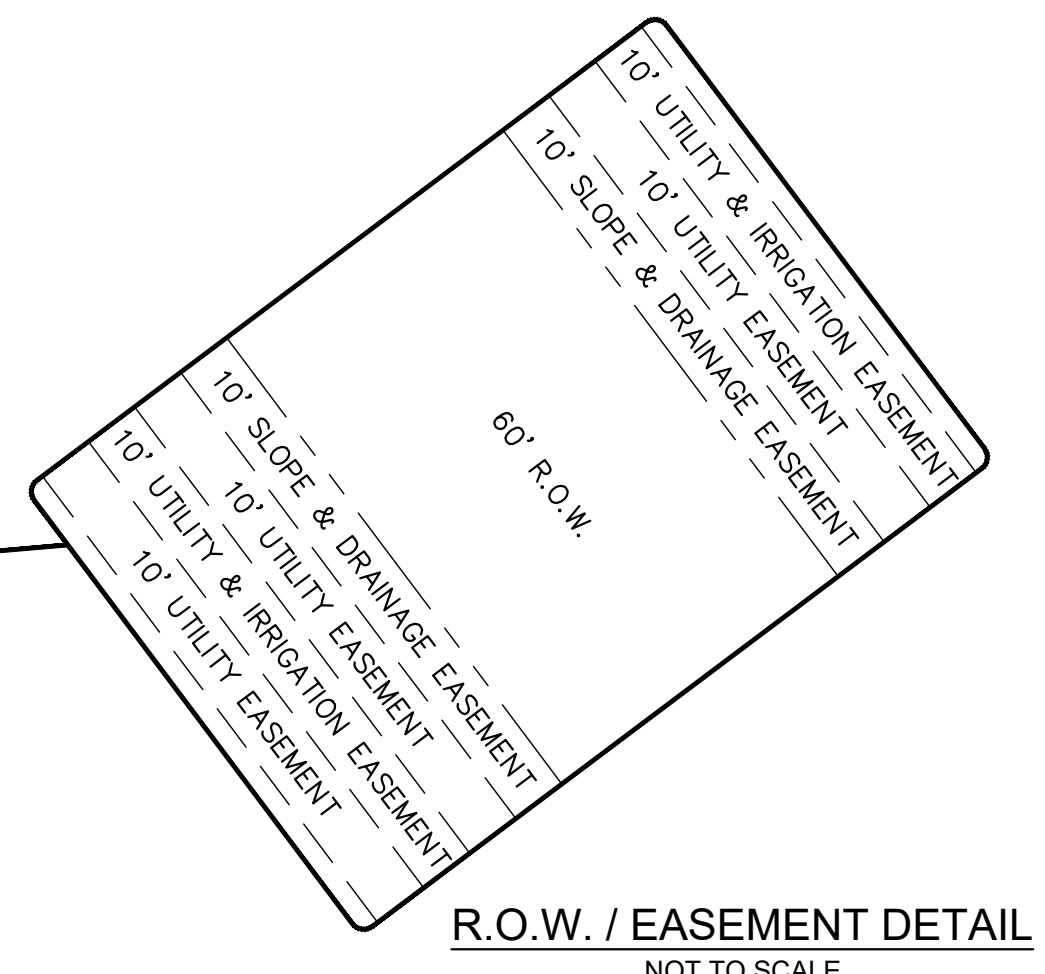
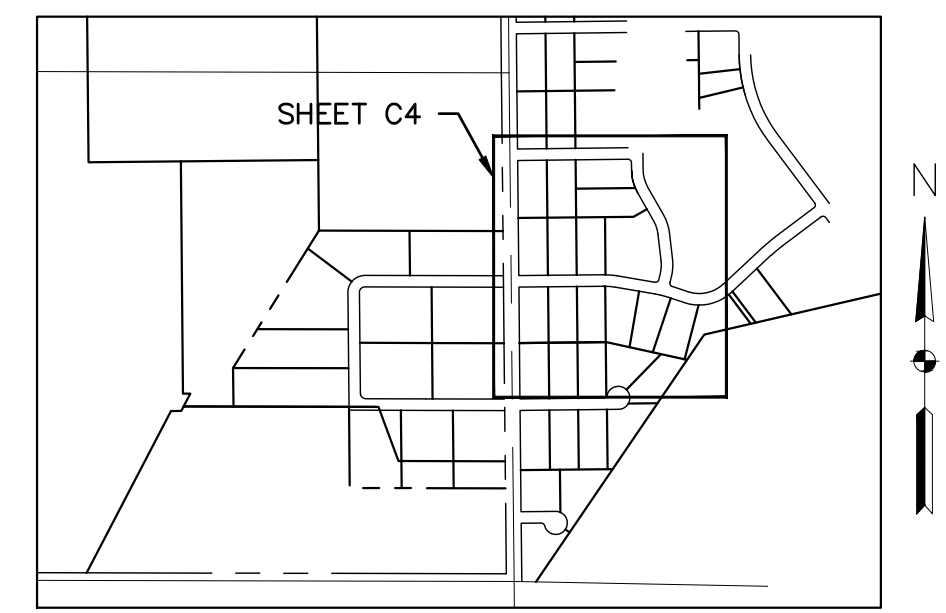
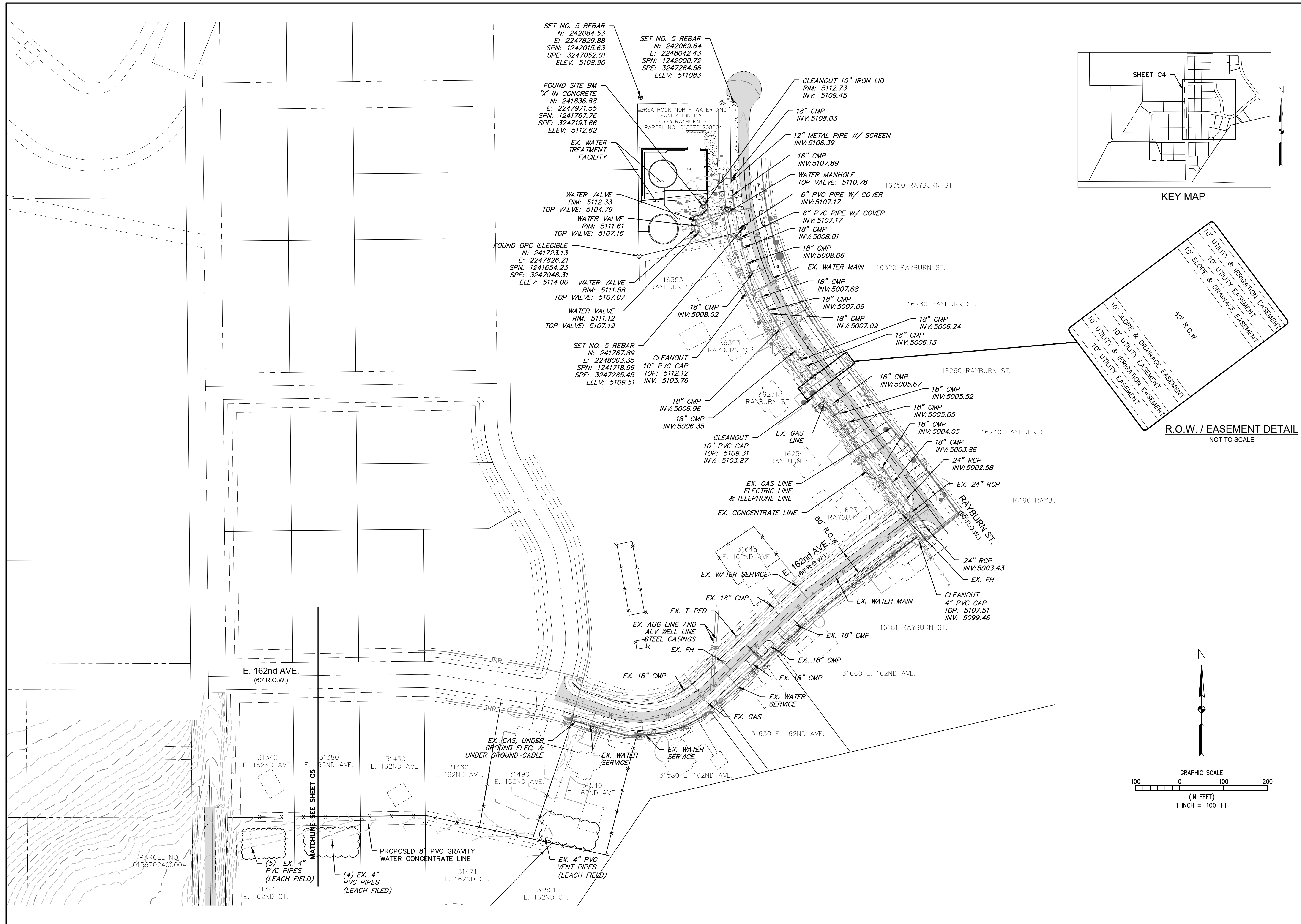
FIELD ORDER
GREATROCK NORTH WATER AND SANITATION DISTRICT

To: Moltz Construction
FROM: Element Engineering, LLC
ORDER TITLE: **Field Order No. 1 – WTP Sump Elimination and Concentrate Line**

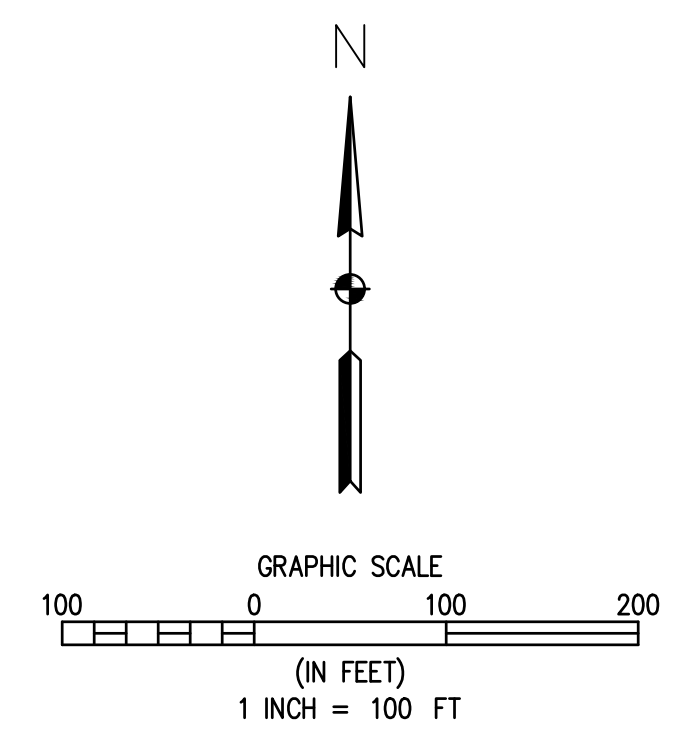
Field Order No. 1 eliminates the sump from the water treatment plant, lowers the concentrate line from the building to the tie-in location, and includes a new concentrate line in Rayburn to the intersection of 162nd. Note this Field Order will result in a change of Contract Price and Contract Time. Please submit a coordinating

By: Nicholaus P. Marcotte, PE, Project Manager
Nicholaus P. Marcotte

Attachments: Concentrate Main and Impoundment Facilities: Existing Conditions – Sheet C4
 Concentrate Main and Impoundment Facilities: Site Plan – Sheet C6
 Concentrate Main and Impoundment Facilities: Plan and Profile – Sheet C25
 RO WTP – Revised Finished Water Yard Piping – Sheet C19
 RO WTP – Revised Finished Water and Sewer Yard Piping – Sheet C20
 RO WTP – Revised Treatment Building RO Piping – Sheet C24
 RO WTP – Revised Structural General Notes – Sheet S0.0
 RO WTP – Revised Structural Foundation Plan – Sheet S1.0
 RO WTP – Revised Structural Sections and Details – Sheet S2.0
 RO WTP – Revised Structural Sections and Details – Sheet S2.1
 RO WTP – Revised Structural Sections and Details – Sheet S2.2
 RO WTP – Revised Sanitary and Vent Piping Floor Plan – Sheet P-1
 RO WTP – Revised Details, Legends, and Schedules – Sheet P-3
 RO WTP – Revised Electrical Lighting – Sheet E-2
 RO WTP – Revised Electrical Power – Sheet E-3
 RO WTP – Revised Electrical One-Line – Sheet E-4
 Adams County Trench Patching Detail



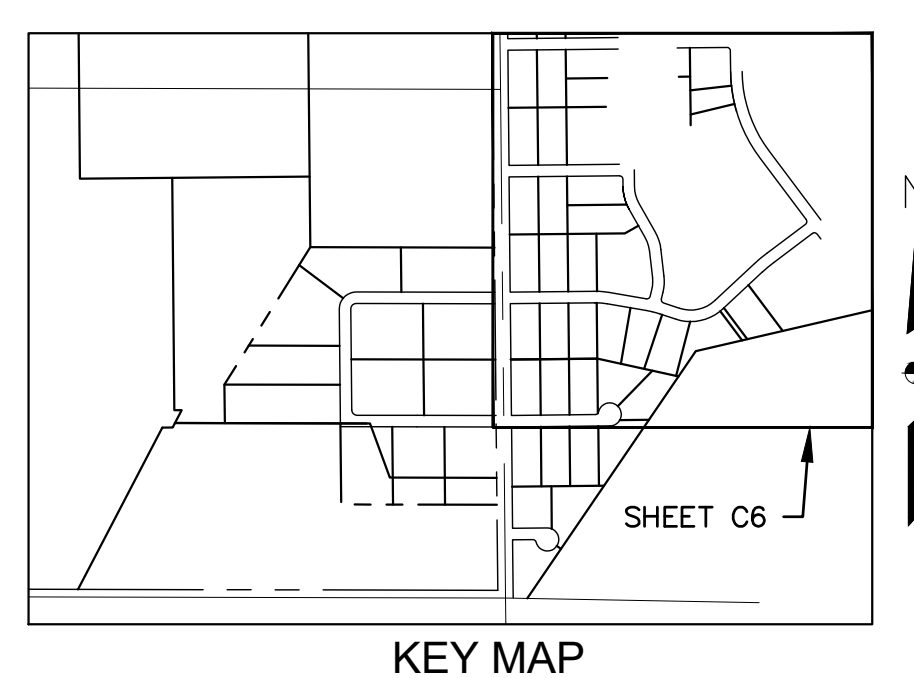
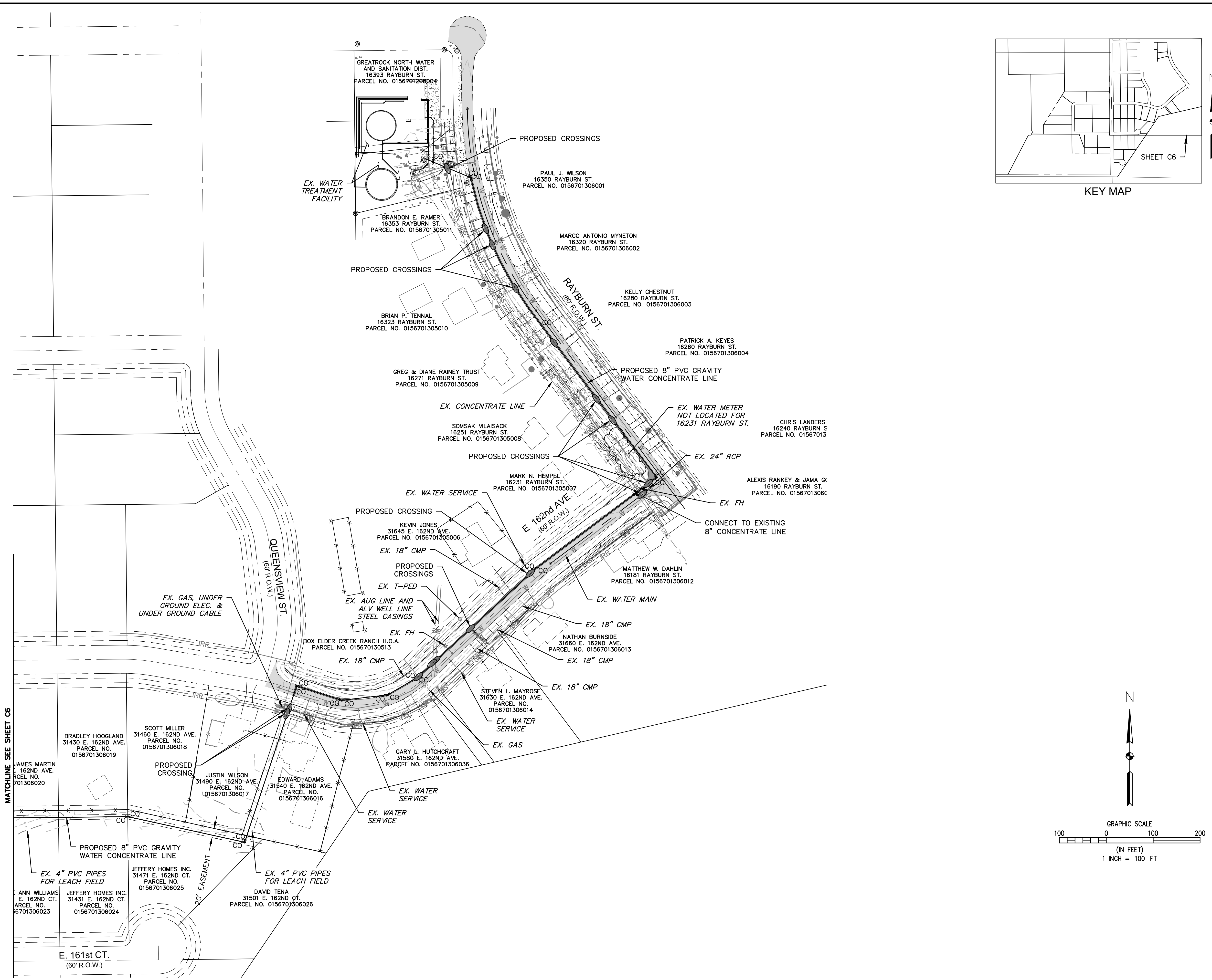
R.O.W. / EASEMENT DETAIL
NOT TO SCALE



NO.	DATE	BY	DESCRIPTION
1	01/14/22	JAW	PRELIMINARY CONSTRUCTION PLAN SUBMITTAL

CONCENTRATE MAIN AND IMPOUNDMENT FACILITIES
 EXISTING CONDITIONS
 GREATROCK NORTH WATER AND SANITATION DISTRICT
 16393 RAYBURN STREET
 HUDSON, CO 80603

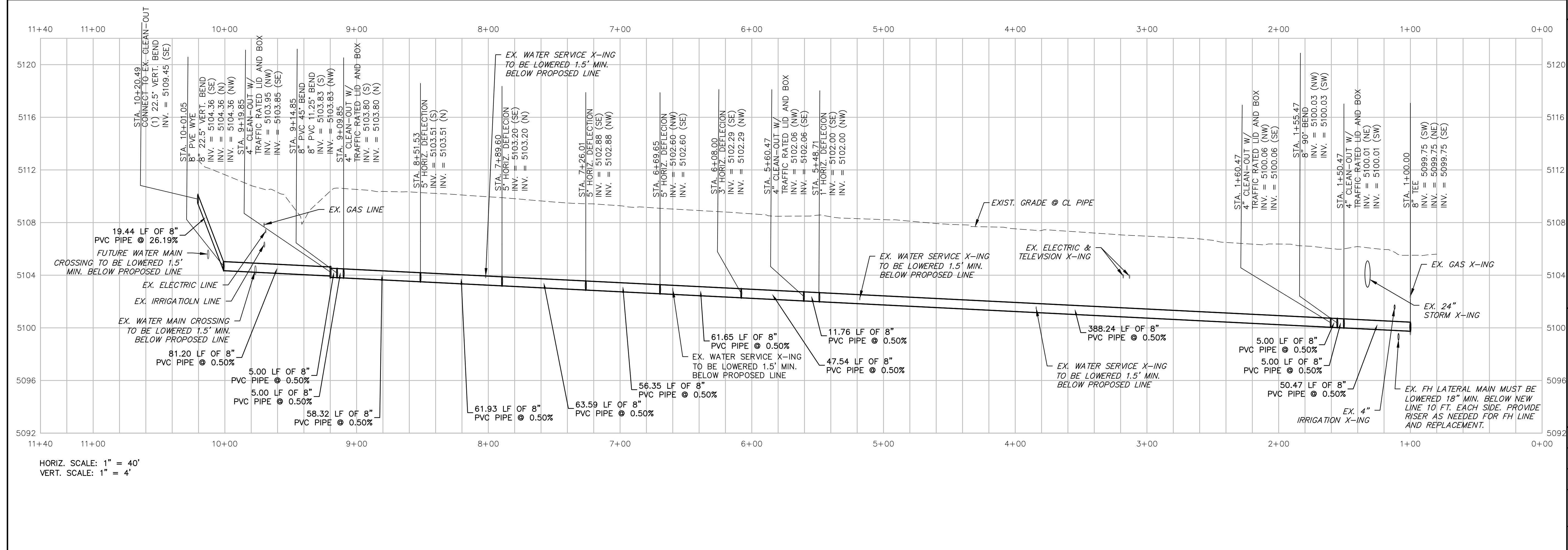
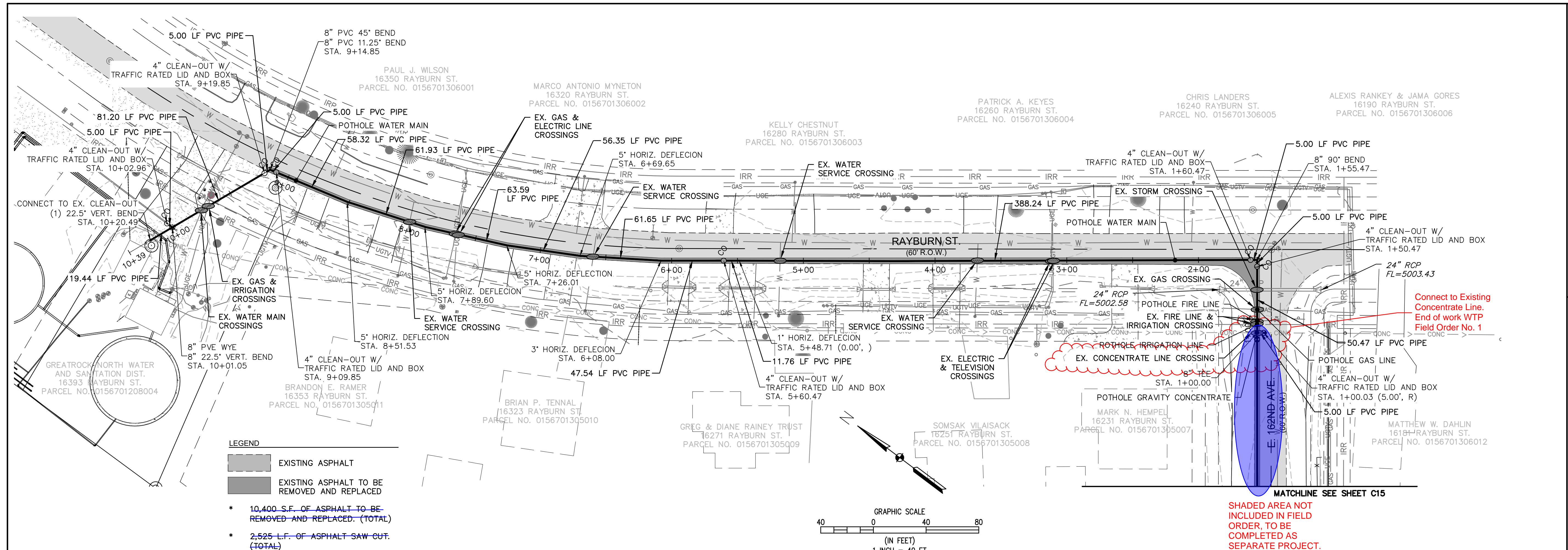
PREPARED UNDER THE DIRECT SUPERVISION OF
 DATE: AUGUST 2021
 JOB NUMBER: 0082.0002
 SCALE: 1" = 100'
 EDITION: PERMITTING
 SHEET: C4 OF C25



NO.	DATE	BY	DESCRIPTION
1	01/14/22	JAW	PRELIMINARY CONSTRUCTION PLAN SUBMITTAL

CONCENTRATE MAIN AND IMPOUNDMENT FACILITIES	
SITE PLAN	
GREATROCK NORTH WATER AND SANITATION DISTRICT 16393 RAYBURN STREET HUDSON, CO 80603	

PREPARED UNDER THE DIRECT SUPERVISION OF	
FOR AND ON BEHALF OF ELEMENT ENGINEERING, LLC	
DATE	AUGUST 2021
JOB NUMBER	0082.0002
SCALE	N/A
EDITION	
PERMITTING	
SHEET	C6 OF C25



NO.	DATE	DESCRIPTION
1	01/14/22	PRELIMINARY CONSTRUCTION PLAN SUBMITTAL

CONCENTRATE MAIN AND IMPOUNDMENT FACILITIES
 CONCENTRATE LINE PLAN AND PROFILE
 GREATROCK NORTH WATER AND SANITATION DISTRICT
 16393 RAYBURN STREET
 HUDSON, CO 80603

PREPARED UNDER THE DIRECT SUPERVISION OF

DATE	AUGUST 2021
JOB NUMBER	0082.0002
SCALE	1" = 40'
EDITION	
PERMITTING	
SHEET	C14 OF C25

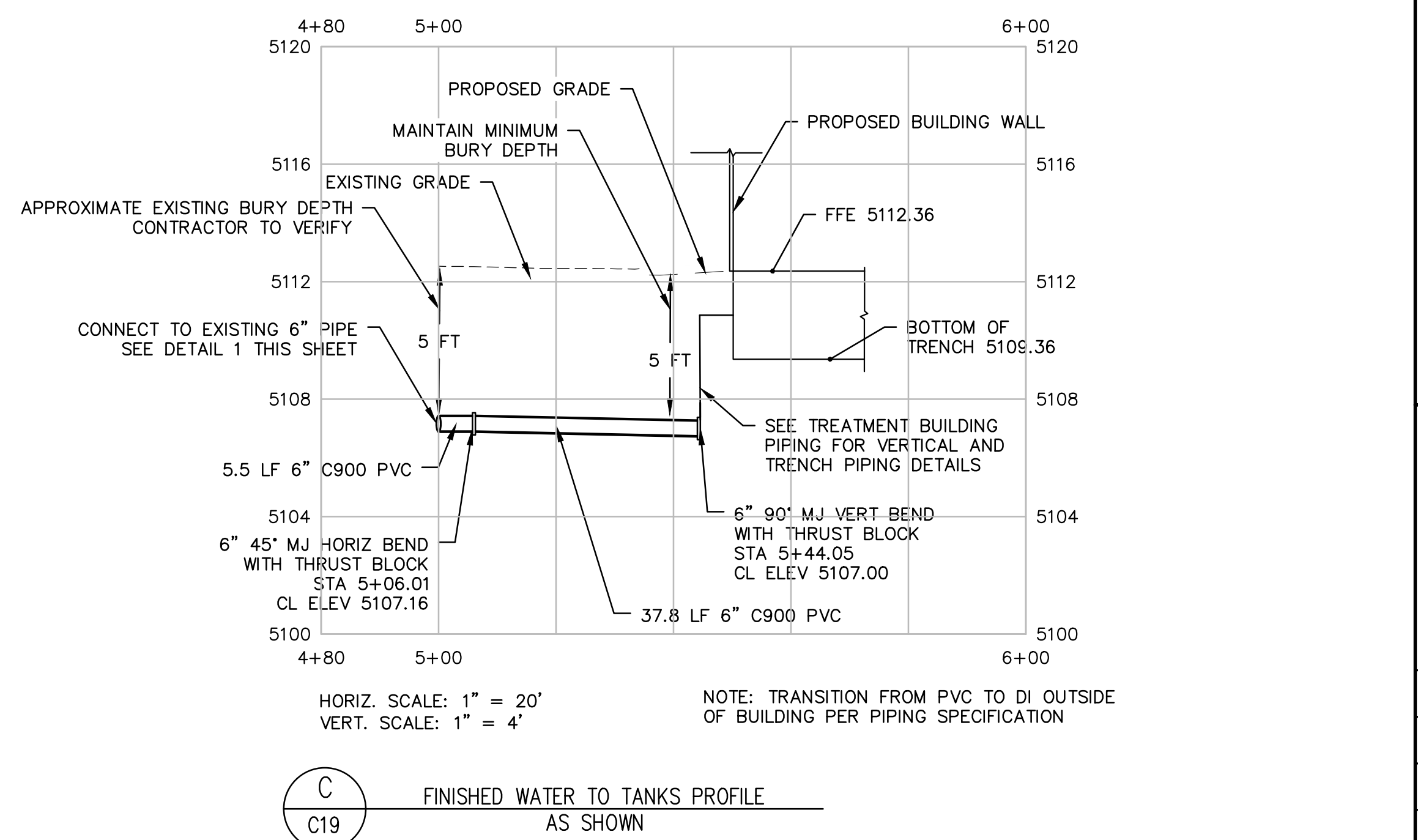
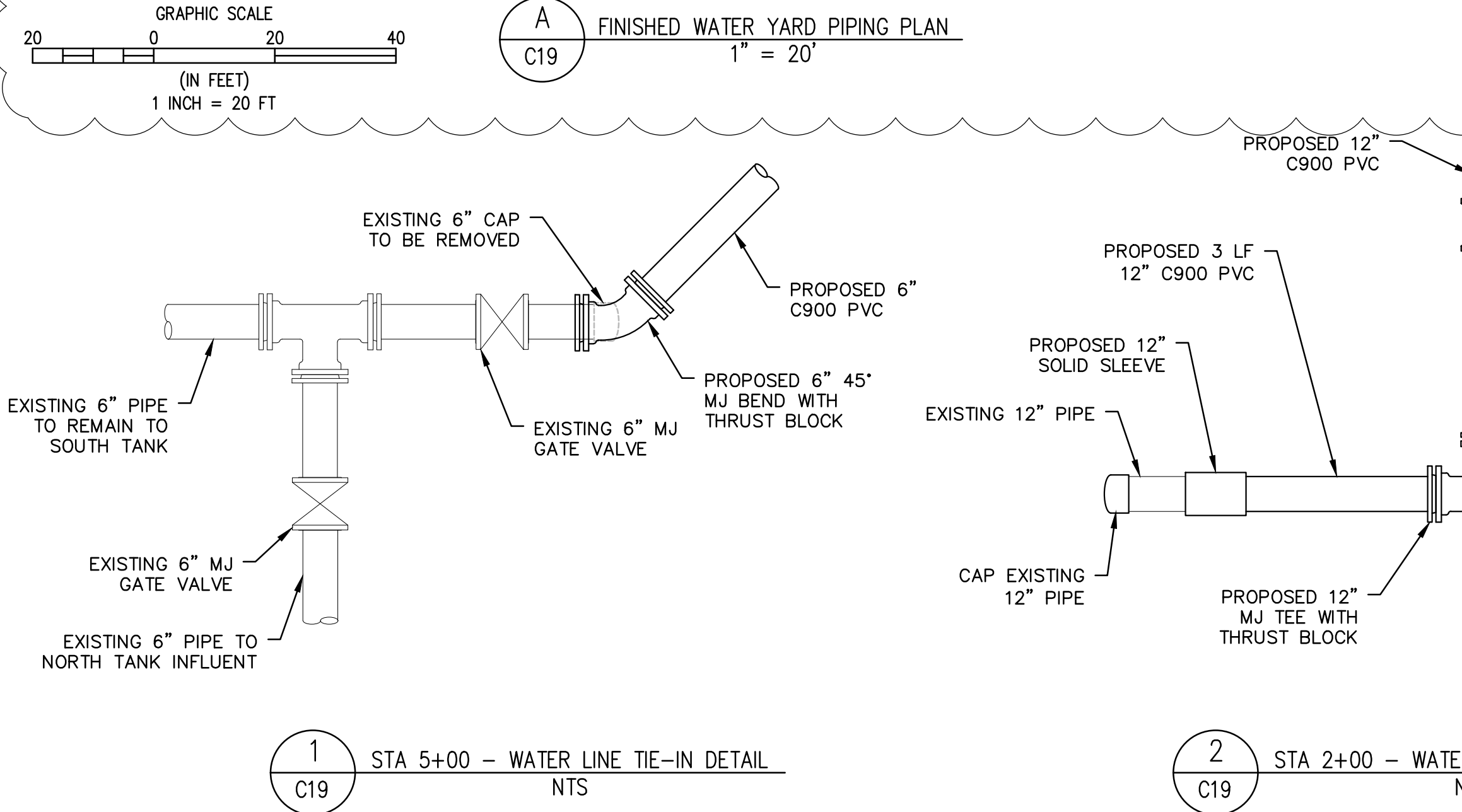
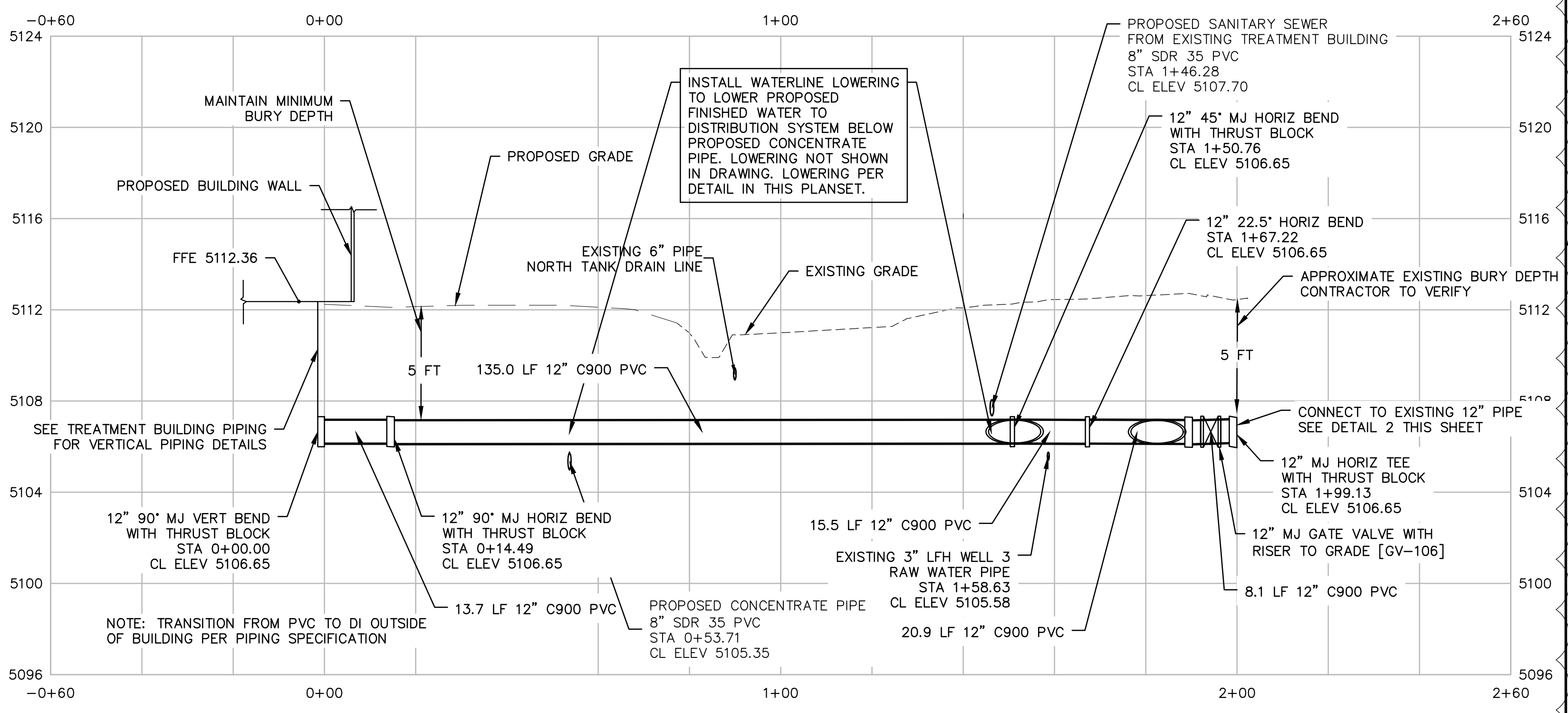
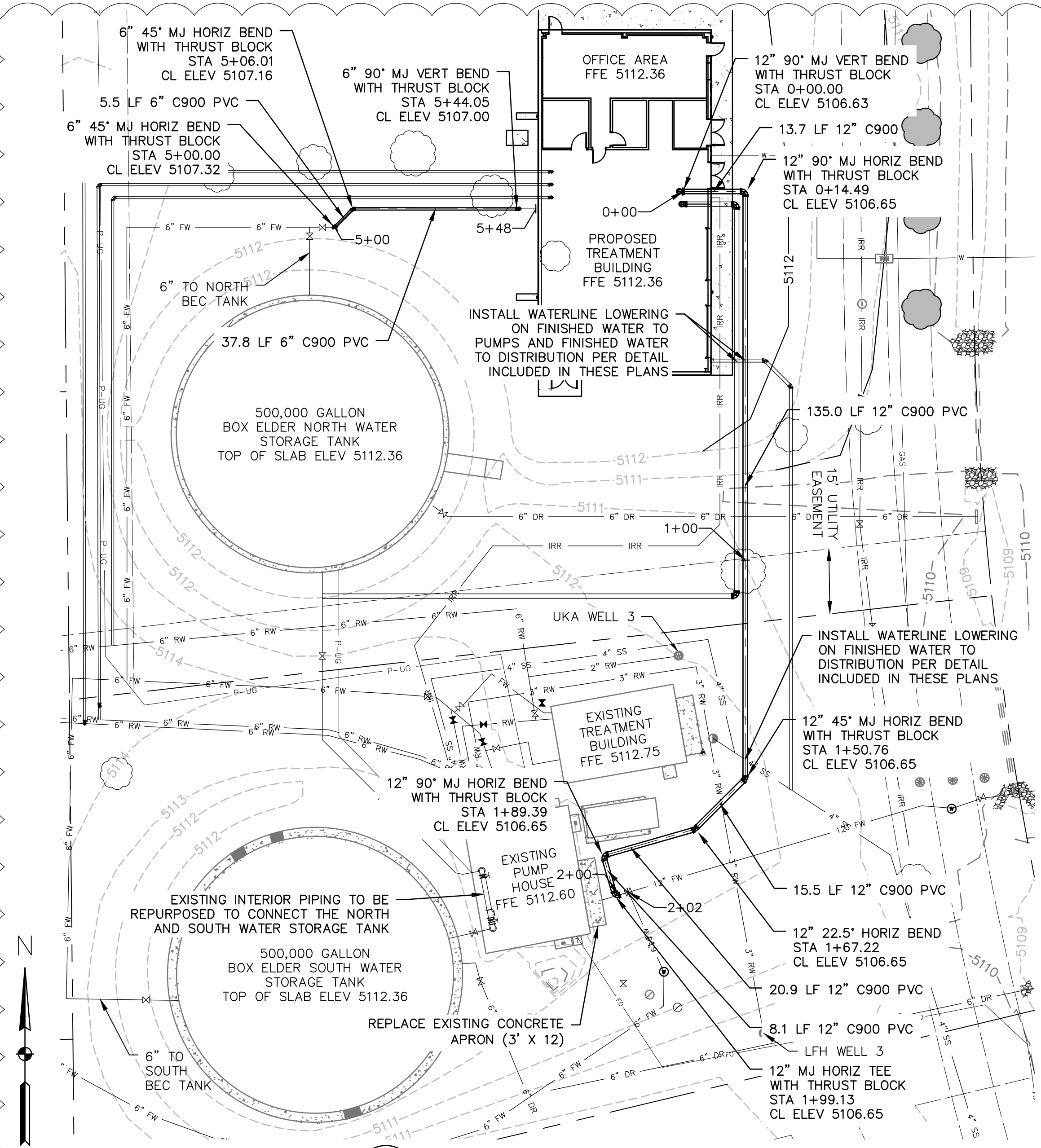
NO.	DATE	BY	DESCRIPTION
1	JAN 22	AMA	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS

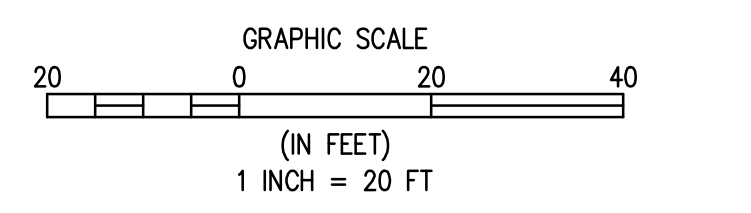
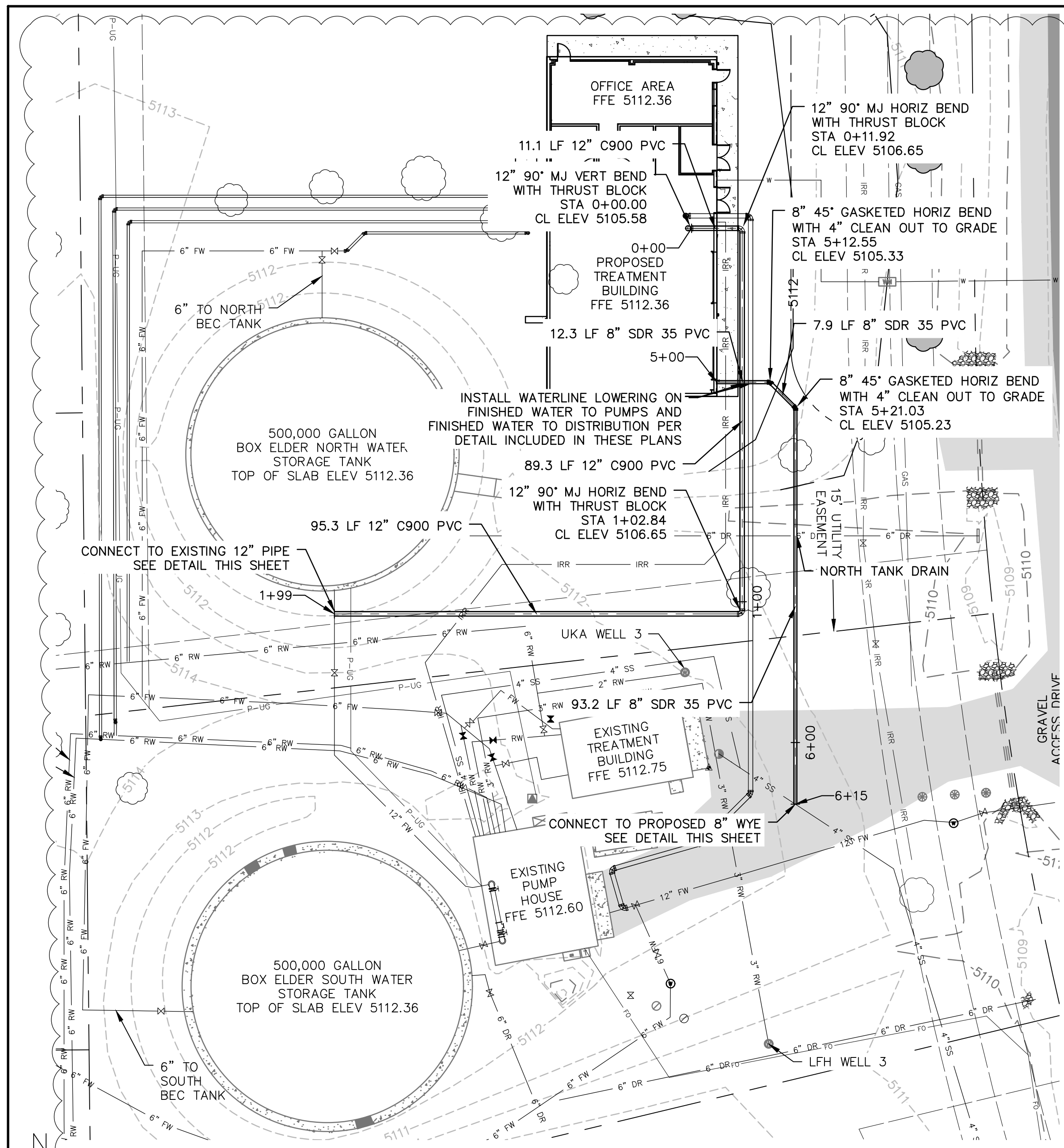
REVERSE OSMOSIS WATER TREATMENT PLANT
FINISHED WATER YARD PIPING
 GREATROCK NORTH WATER AND SANITATION DISTRICT
 16393 RAYBURN STREET
 HUDSON, CO 80603



DATE	AUGUST 2021
JOB NUMBER	0082.0002
SCALE	AS SHOWN
EDITION	CONSTRUCTION
SHEET	C19 OF C33

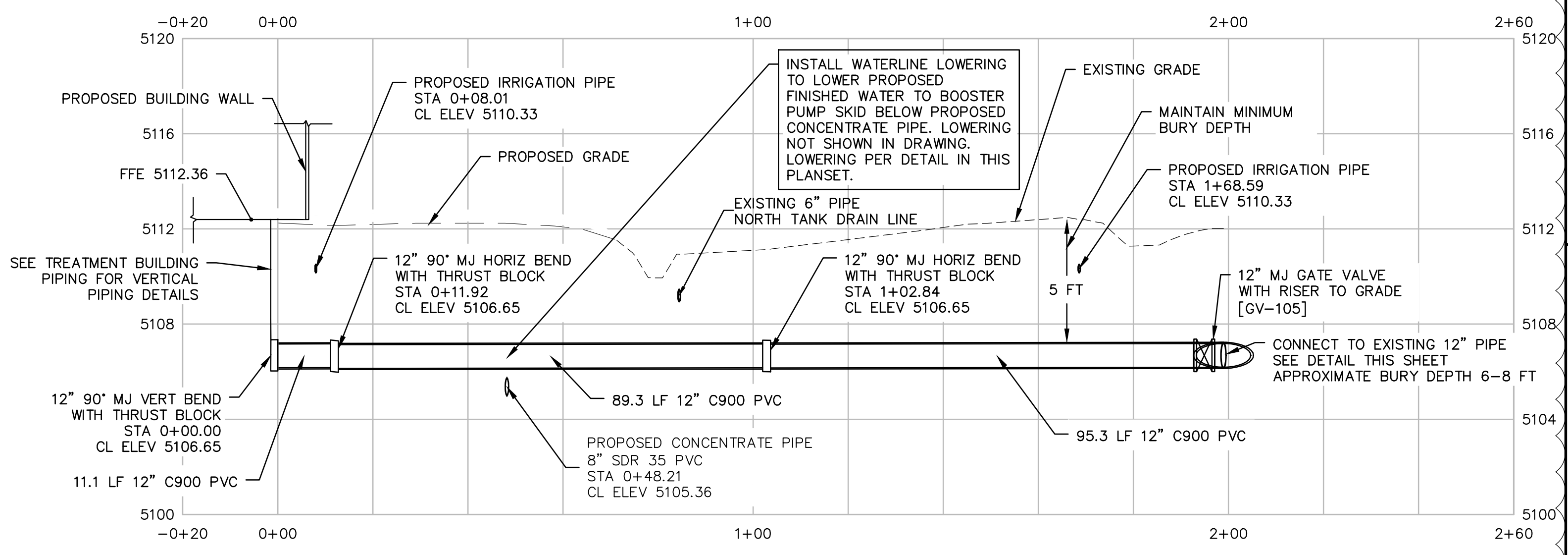
- NOTES:
 1. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND BURY DEPTH.
 2. CONTRACTOR TO MATCH PROPOSED PIPE SIZE AND BURY DEPTH TO EXISTING.
 3. MINIMUM BURY DEPTH = 5- FEET.
 4. PROPOSED YARD GATE VALVES NOT SHOWN IN PLAN VIEW. REFER TO PROFILE VIEW.





A
C20
FINISHED WATER YARD PIPING PLAN
1" = 20'

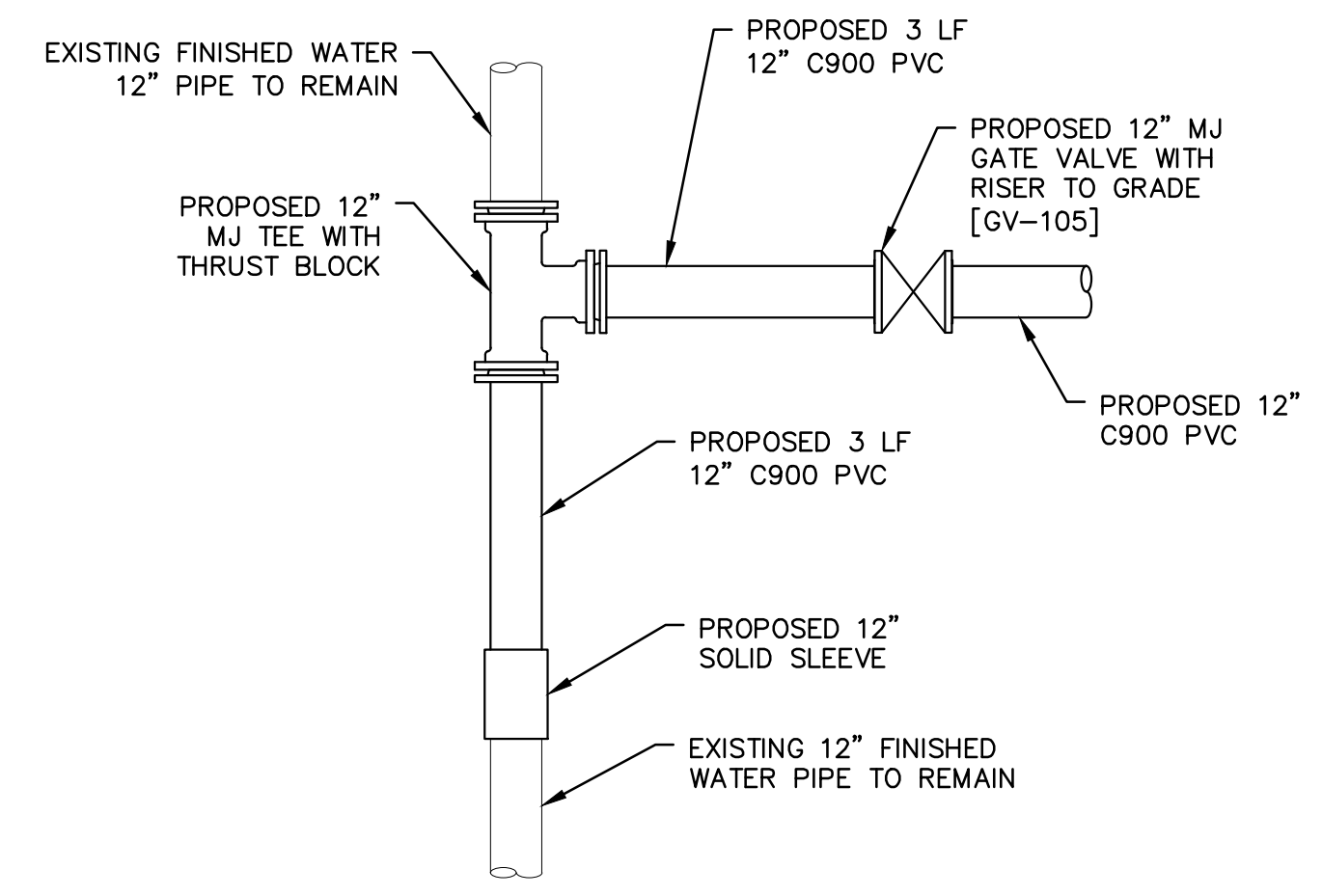
- NOTES:
1. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND BURY DEPTH.
 2. CONTRACTOR TO MATCH PROPOSED PIPE SIZE AND BURY DEPTH TO EXISTING.
 3. MINIMUM BURY DEPTH = 5- FEET.
 4. PROPOSED YARD GATE VALVES NOT SHOWN IN PLAN VIEW. REFER TO PROFILE VIEW.



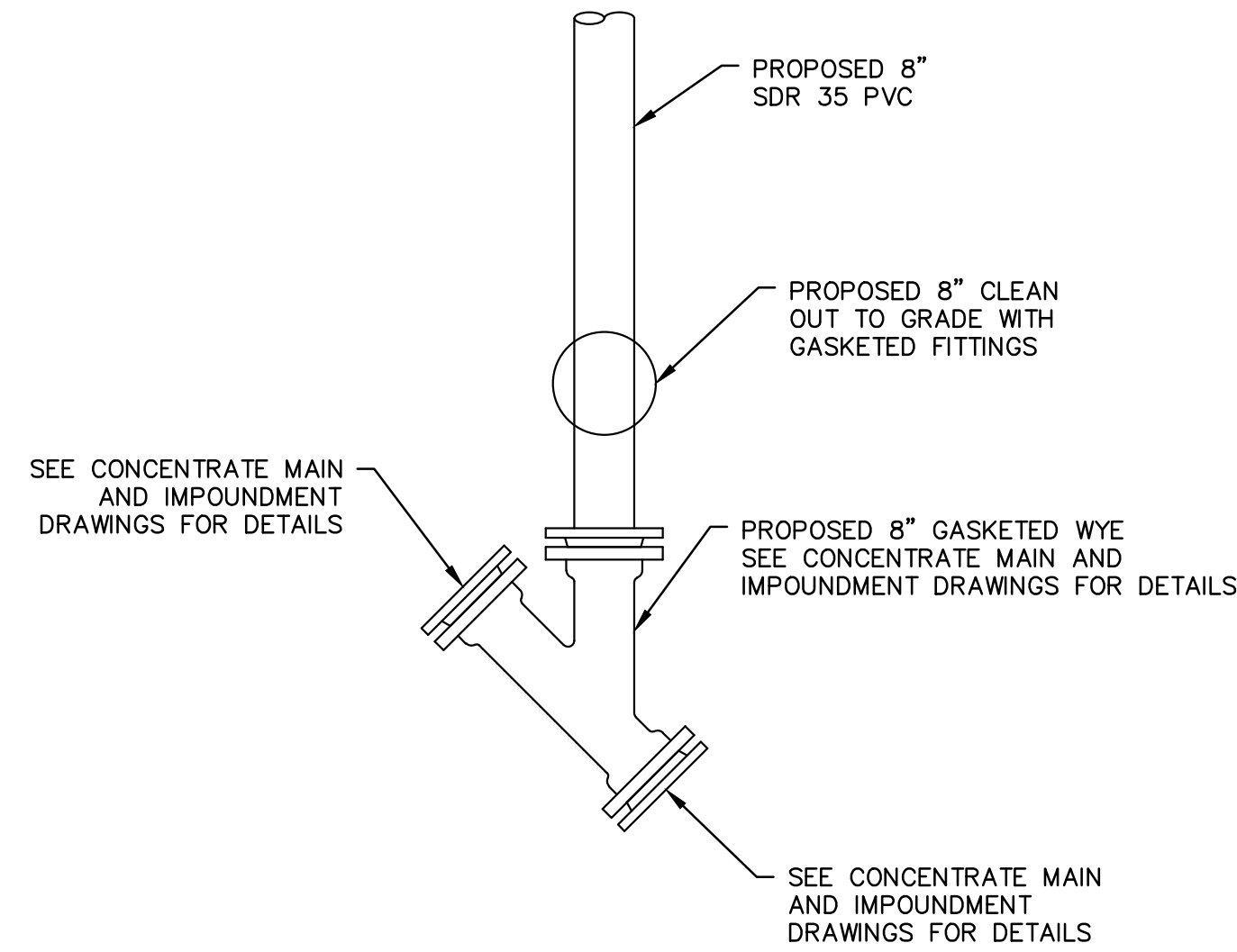
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

NOTE: TRANSITION FROM PVC TO DI OUTSIDE OF BUILDING PER PIPING SPECIFICATION

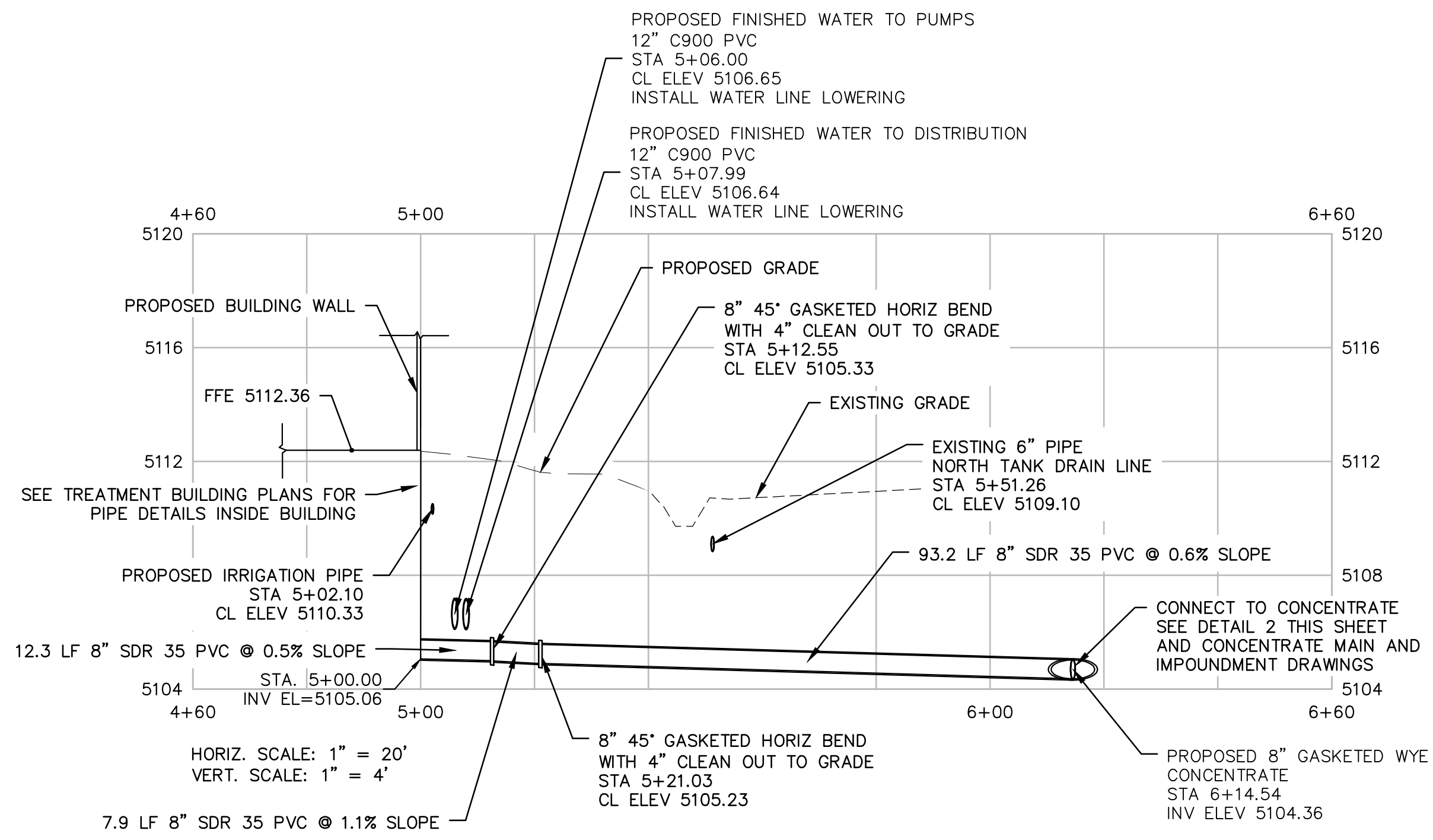
B
C20
FINISHED WATER TO BOOSTER PUMP SKID PROFILE
AS SHOWN



1
C20
STA 1+99 - WATER LINE TIE-IN DETAIL
NTS



2
C20
STA 6+15 - SEWER DRAIN TIE-IN DETAIL
NTS



HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

C
C20
CONCENTRATE FROM TREATMENT BUILDING PROFILE
AS SHOWN

12687 W. CEDAR DRIVE, SUITE 300
LAKEWOOD, CO 80226

720.749.4165
WWW.ELEMENTENGINEERING.NET

NO.	REVISIONS	DATE	BY	DESCRIPTION
1		JUN 22	AMA	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS

REVERSE OSMOSIS WATER TREATMENT PLANT

FINISHED WATER & SEWER YARD PIPING

GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDDSON, CO 80603

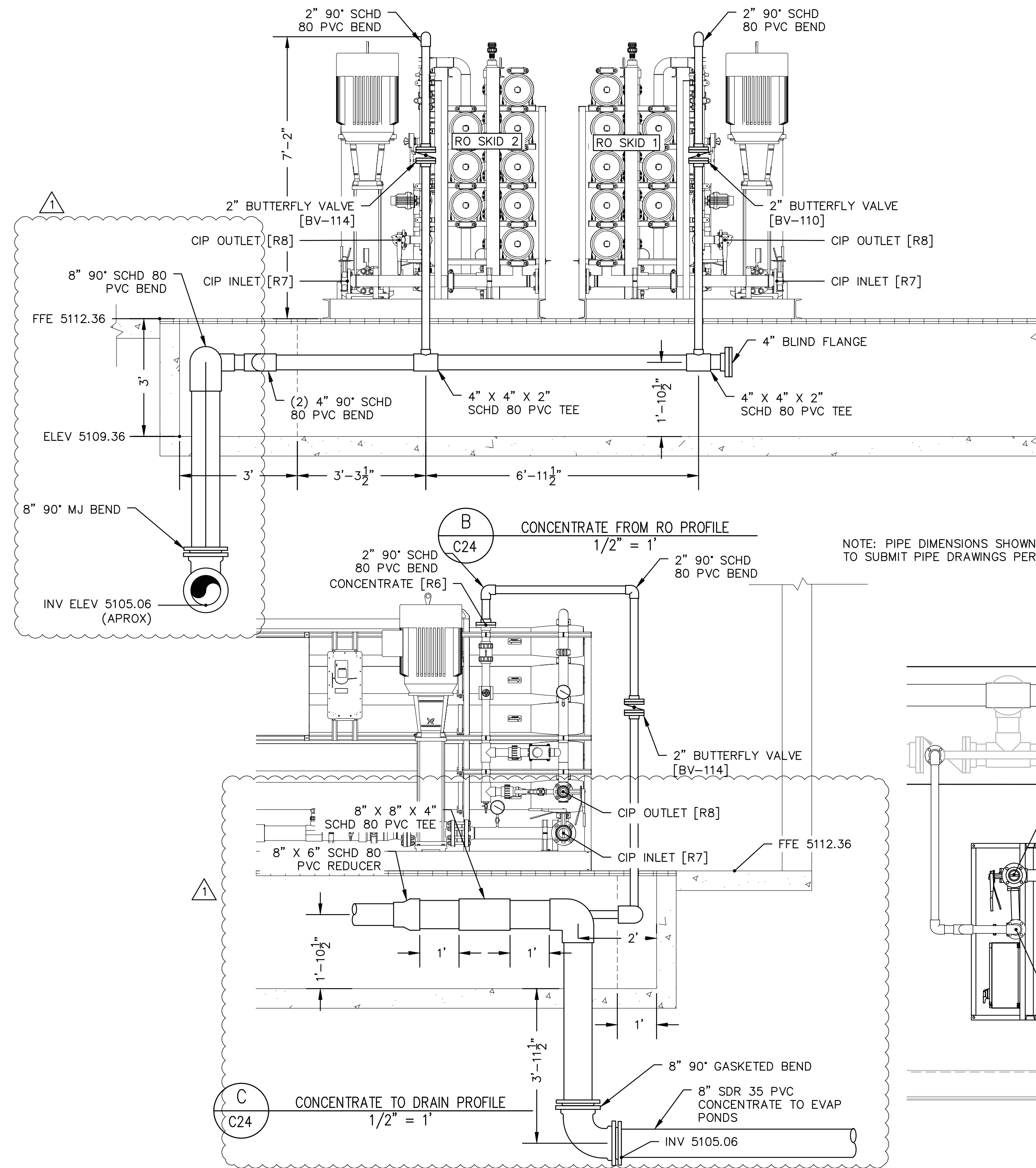
PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

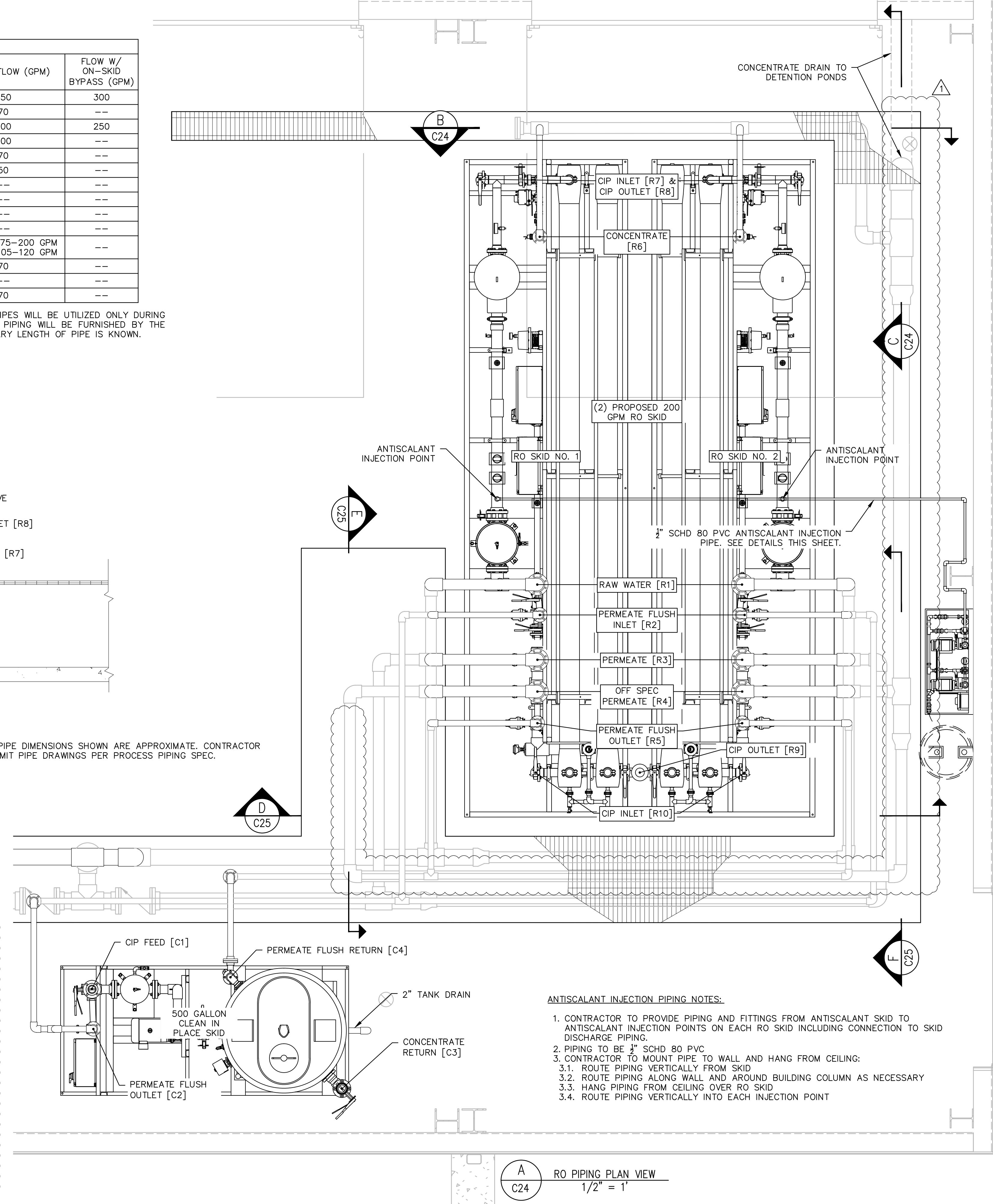
DATE: AUGUST 2021
JOB NUMBER: 0082.0002
SCALE: AS SHOWN
EDITION: CONSTRUCTION
SHEET: C20 OF C33

CONNECTION SCHEDULE								
ID	LOCATION	DESCRIPTION	SIZE	MATERIAL	CONNECTION TYPE	CONNECT TO	NORMAL FLOW (GPM)	FLOW W/ ON-SKID BYPASS (GPM)
R1	RO SKID	RAW WATER INLET	4"	150# FLANGE PVC SCHD 80	PERMANENT	--	250	300
R2	RO SKID	PERMEATE FLUSH INLET	2"	150# FLANGE PVC SCHD 80	PERMANENT	C2	70	--
R3	RO SKID	PERMEATE TO STORAGE	4"	150# FLANGE PVC SCHD 80	PERMANENT	--	200	250
R4	RO SKID	OFF SPEC PERMEATE	4"	150# FLANGE PVC SCHD 80	PERMANENT	--	200	--
R5	RO SKID	PERMEATE FLUSH OUTLET	2"	150# FLANGE PVC SCHD 80	PERMANENT	C4	70	--
R6	RO SKID	CONCENTRATE	2"	150# FLANGE PVC SCHD 80	PERMANENT	--	50	--
R7	RO SKID	CIP INLET	3"	150# FLANGE PVC SCHD 80	TEMPORARY	C1	--	--
R8	RO SKID	CIP OUTLET	2"	150# FLANGE PVC SCHD 80	TEMPORARY	C3	--	--
R9	RO SKID	CIP OUTLET	3"	150# FLANGE PVC SCHD 80	TEMPORARY	C3	--	--
R10	RO SKID	CIP INLET	3"	150# FLANGE PVC SCHD 80	TEMPORARY	C1	--	--
C1	CIP SKID	CIP FEED	3"	150# FLANGE PVC SCHD 80	TEMPORARY	R7 OR R10	STAGE 1: 175-200 GPM STAGE 2: 105-120 GPM	--
C2	CIP SKID	PERMEATE FLUSH OUTLET	2"	150# FLANGE PVC SCHD 80	PERMANENT	R2	70	--
C3	CIP SKID	CONCENTRATE RETURN	3"	150# FLANGE PVC SCHD 80	TEMPORARY	R8 OR R9	--	--
C4	CIP SKID	PERMEATE FLUSH RETURN	2"	150# FLANGE PVC SCHD 80	PERMANENT	R5	70	--

NOTE: TEMPORARY PIPING FOR CIP WILL BE FURNISHED BY OWNER. THESE PIPES WILL BE UTILIZED ONLY DURING A CIP CYCLE AND WILL NOT BE PERMANENTLY INSTALLED. THE TEMPORARY PIPING WILL BE FURNISHED BY THE OWNER ONCE THE CIP AND RO SKIDS ARE INSTALLED SO THAT THE NECESSARY LENGTH OF PIPE IS KNOWN.



NOTE: PIPE DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO SUBMIT PIPE DRAWINGS PER PROCESS PIPING SPEC.



- ANTISCALANT INJECTION PIPING NOTES:**
- CONTRACTOR TO PROVIDE PIPING AND FITTINGS FROM ANTISCALANT SKID TO ANTISCALANT INJECTION POINTS ON EACH RO SKID INCLUDING CONNECTION TO SKID DISCHARGE PIPING.
 - PIPING TO BE 1/2" SCHD 80 PVC
 - CONTRACTOR TO MOUNT PIPE TO WALL AND HANG FROM CEILING:
 - ROUTE PIPING VERTICALLY FROM SKID
 - ROUTE PIPING ALONG WALL AND AROUND BUILDING COLUMN AS NECESSARY
 - HANG PIPING FROM CEILING OVER RO SKID
 - ROUTE PIPING VERTICALLY INTO EACH INJECTION POINT

A RO PIPING PLAN VIEW
1/2" = 1'

NO.	DATE	BY	DESCRIPTION
1	JAN 22	AMA	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS

REVERSE OSMOSIS WATER TREATMENT PLANT
 TREATMENT BUILDING
 RO PIPING
 GREATROCK NORTH WATER AND SANITATION DISTRICT
 16393 RAYBURN STREET
 HUDSON, CO 80603

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
 ELEMENT ENGINEERING, LLC

DATE: AUGUST 2021
 JOB NUMBER: 0082.0002
 SCALE: 1/2" = 1'
 EDITION: CONSTRUCTION
 SHEET: C24 OF C33



NO.	DATE	BY	DESCRIPTION
1	JUN 21	CJR	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS

REVERSE OSMOSIS WATER TREATMENT PLANT
CONSTRUCTION DOCUMENTS
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

DATE	JANUARY 2022
JOB NUMBER	20-116
SCALE	-
DRAWING NAME	GENERAL NOTES
SHEET	5

SECTION 00- DESIGN DATA

STRUCTURAL DESIGN DATA:

DESIGN CODES:
ADAMS COUNTY, CO COUNTY CODE
IBC 2018
ASCE 7-16

RISK CATEGORY: III

SITE ELEVATION: 5,150 FT

WIND DESIGN:
BASIC WIND SPEED (3 SEC GUST) = 115 MPH
WIND EXPOSURE: C

ROOF EXPOSURE:
PARTIALLY EXPOSED

GRAVITY DESIGN LOADS:
SELF WEIGHT
SUPERIMPOSED DEAD LOAD 5 PSF
ROOF LIVE LOAD 20 PSF (NON-REDUCIBLE)
ROOF SNOW LOAD SEE BELOW

SNOW LOAD DESIGN CRITERIA:
PER ADAMS COUNTY AND STRUCTURAL ENGINEERS ASSOCIATION OF COLORADO (SEAC), COLORADO DESIGN SNOW LOADS, 2016 EDITION.

GROUND SNOW LOAD 35 PSF
MINIMUM ROOF SNOW LOAD 30 PSF
ROOF EXPOSURE: PARTIALLY EXPOSED
THERMAL CONDITION: STRUCTURE KEPT JUST ABOVE FREEZING

SEISMIC CRITERIA:
MCE_R, SHORT PERIOD, S_s : 0.163
MCE_R, 1 SEC PERIOD, S₁ : 0.051

SECTION 01- GENERAL

GE- GENERAL

1. GE- GENERAL

1.1. **CODES AND STANDARDS:** ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. THE PUBLICATIONS BELOW ARE THE GOVERNING CODES AND STANDARDS AND ARE REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

BUILDING CODES

IBC INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

ACI AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318), 2014 EDITION

ACI AMERICAN CONCRETE INSTITUTE, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", (ACI 301) 2014 EDITION

AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360), 2016

AISC AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," JUNE 30, 2004

ASCE ASCE "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", (ASCE 7), 2016 EDITION

SDI STEEL DECK INSTITUTE, "SPECIFICATIONS FOR ROOF DECK" AND "CODE OF RECOMMENDED STANDARD PRACTICE."

1.2. **TYPICAL NOTES AND DETAILS:** ALL TYPICAL NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE CONTRACT DRAWINGS.

1.3. **CONTRACTOR ALTERNATE DETAILS:** THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, ALL PROPOSED ALTERNATE DETAILS TO THOSE INDICATED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS PREPARED BY HIS ENGINEER LICENSED IN THE PROJECT JURISDICTION AT NO ADDITIONAL EXPENSE.

2. GE- MATERIALS

2.1. **SECTION NOT USED**

3. GE- EXECUTION

3.1. **GENERAL:** THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS, MATERIALS AND LOADINGS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.

SECTION 01- GENERAL- CONT.

3.2. **JOB SITE SAFETY AND CONSTRUCTION PROCEDURES:** IMPLEMENTATION AND ENFORCEMENT OF JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

3.3. **TEMPORARY SHORING AND BRACING:** STABILITY OF THE STRUCTURE PRIOR TO COMPLETION OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACT DRAWINGS REPRESENT THE DESIGN FOR THE FINAL, INSTALLED CONDITION. THE STRUCTURAL COMPONENTS BY THEMSELVES ARE NOT SELF-SUPPORTING. LATERAL FORCES DUE TO WIND, EARTHQUAKE OR SOIL ARE CARRIED BY THE STRUCTURAL SYSTEM WHICH MAY INCLUDE FLOORS TO DETERMINE GENERAL CONFORMANCE WITH THE CONTRACT DRAWINGS AND SHALL NOT BE CONSIDERED AN INSPECTION NOR SHALL STRUCTURAL OBSERVATIONS, ROOFS, WALLS, BRACES OR OTHER STRUCTURAL COMPONENTS AND THEIR CONNECTIONS, IF, DUE TO CONSTRUCTION SEQUENCING, THESE STABILITY ELEMENTS ARE NOT IN PLACE, THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER WHO WILL INVESTIGATE WHERE TEMPORARY SHORING OR BRACING IS REQUIRED AND WHO WILL DESIGN ALL TEMPORARY SHORING AND BRACING. THE CONTRACTOR SHALL PROVIDE THIS SHORING AND/OR BRACING UNTIL ALL STABILITY ELEMENTS ARE IN PLACE AND HAVE REACHED THEIR FINAL DESIGN STRENGTHS.

3.4. **EXISTING BUILDING INFORMATION:** INFORMATION SHOWN AS EXISTING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE CONTRACT DRAWINGS SHALL BE IMMEDIATELY SUBMITTED IN WRITING TO THE ARCHITECT AND ENGINEER.

SECTION 02- FOUNDATIONS

FE- FOUNDATIONS AND EXCAVATION

1. FE- GENERAL

1.1. **GEOTECHNICAL INFORMATION:** FOUNDATIONS HAVE BEEN DESIGNED REFERENCING THE GEOTECHNICAL REPORT BY PROFESSIONAL SERVICE INC. FOR THE PROPOSED GREATROCK WATER TANK, PROJECT NUMBER 0532239, DATED DECEMBER 10, 2010.

1.2. **SPREAD FOOTINGS:** SPREAD FOOTINGS FOR THE PREFABRICATED METAL BUILDING HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING OF 2,600 POUNDS PER SQUARE FOOT.

2. FE- MATERIALS

2.1. **GENERAL:** ALL SOIL MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.

2.2. **SOIL MATERIALS:** ALL SOILS SUPPORTING FOUNDATIONS SHALL BE UNDISTURBED NATIVE SOILS FREE OF ORGANIC MATERIAL.

2.3. **BACKFILL AND FILL MATERIAL:** ALL FILL BEHIND PERMANENT WALLS AND AROUND DRAINS SHALL CONSIST OF WELL GRADED, GRANULAR MATERIAL.

2.4. **STRUCTURAL FILL:** ALL MATERIAL USED FOR SUPPORT OF SLABS-ON-GRADE AND FOUNDATIONS SHALL BE WELL GRADED, GRANULAR MATERIAL FREE OF ORGANIC MATERIAL.

2.5. **COMPOSITE FILL BLANKET:** FILL BELOW SLAB-ON-GRADE SHALL BE CLEAN GRAVEL OR AGGREGATE BASE COURSE. CDOT CLASS 6 BASE COURSE IS ACCEPTABLE MATERIAL FOR USE BELOW SLABS-ON-GRADE.

2.6. **NON-COMPRESSIBLE FILL:** IN AREAS OF FILL GREATER THAN 3'-0" DEEP OR AS INDICATED AS ON PLAN, AN APPROVED NON-COMPRESSIBLE FILL SHALL BE USED FOR FILL BELOW SLABS-ON-GRADE AND FOUNDATIONS. NON-COMPRESSIBLE FILL SHALL BE REMOVABLE CONTROLLED LOW STRENGTH MATERIAL (CLSM) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50 PSI OR APPROVED EQUAL. ALL CLSM SHALL BE REMOVABLE (DIGABLE) AFTER FULLY HARDENING.

3. FE- EXECUTION

3.1. **GENERAL:** ALL FOUNDATIONS AND SOILS SUPPORTING FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.

3.2. **EXISTING MAN-PLACED FILL:** FOR AREAS SUPPORTING BUILDING FOUNDATIONS AND SLABS-ON-GRADE, ALL EXISTING MAN-PLACED FILL SHALL BE EXCAVATED AND REMOVED. WHERE REMOVAL OF FILL RESULTS IN OVEREXCAVATION, USE COMPACTED STRUCTURAL FILL AS BACKFILL.

3.3. **FOOTINGS:** SPREAD FOOTING FOUNDATIONS AND CONTINUOUS FOOTING FOUNDATIONS FOR THE PREFABRICATED METAL BUILDING MAY BE SUPPORTED DIRECTLY ON COMPETENT, UNDISTURBED NATIVE SOILS (SILTY SANDS).

3.4. **SLAB-ON-GRADE:** SLABS-ON-GRADE SHALL BE SUPPORTED BY COMPOSITE FILL BLANKET COMPOSED OF A SIX (6) INCH LOWER LAYER OF SCARIFIED, MOISTURE CONDITIONED AND COMPACTED NATURAL SOIL OVERLAIN BY A SIX (6) INCH THICK BLANKET OF COMPACTED STRUCTURAL FILL. PRIOR TO PLACEMENT OF THE COMPOSITE FILL BLANKET, ANY EXISTING MAN PLACED FILL MATERIAL SHALL BE REMOVED AND REPLACED WITH MOISTURE CONDITIONED AND COMPACTED NATIVE SOIL MATERIALS OR STRUCTURAL FILL MATERIAL. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

3.5. **STRUCTURAL FILL:** STRUCTURAL FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6" AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST (ASTM D1557)

3.6. **UNDISTURBED MATERIAL:** FOUNDATIONS AND STRUCTURAL FILL SHALL BE PLACED ON UNDISTURBED NATIVE MATERIAL IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT. ALL EXISTING MAN-PLACED FILL SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. CUT AREAS WHICH PROVIDE SUPPORT FOR PERMANENT STRUCTURES SHALL BE PROOF-ROLLED. AREAS WHICH ARE EXCESSIVELY YIELDING, AS DETERMINED BY OBSERVATION OF THE GEOTECHNICAL ENGINEER, SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL.

SECTION 03- CONCRETE - CONT.

CC- CAST-IN-PLACE CONCRETE

1. CC- GENERAL

1.1. **QUALITY ASSURANCE:** PERFORM ALL WORK IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE AMERICAN CONCRETE INSTITUTE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301) AND "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318).

1.2. **DETAILING:** ALL CONCRETE AND REBAR DETAILING SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (ACI 315).

1.2.1. **LAP SPLICES:** LAP SPLICES FOR ALL ALL REINFORCING SHALL BE, AT A MINIMUM, AS SHOWN ON THE CONSTRUCTION DRAWINGS AND TABULATED THEREIN.

2. CC- MATERIALS

2.1. **CONCRETE AND CONCRETE ACCESSORIES:** CONCRETE MATERIALS AND CONCRETE ACCESSORIES SHALL MEET THE FOLLOWING STANDARDS:

CEMENT ASTM C150, TYPE I OR III
CEMENT FOR CONCRETE IN CONTACT WITH GROUND ASTM C150 TYPE II
CEMENT SUBSTITUTES ASTM C595 TYPE IS (MAX 25% OF CEMENTITIOUS CONTENT BY WEIGHT)
AGGREGATES ASTM C33 (NORMAL WEIGHT)
DEFORMED REINFORCING BARS ASTM A615, GRADE 60

2.2. **ANCHORS:** APPROVED CONCRETE ANCHORS ARE LISTED BELOW. REQUESTS FOR ALTERNATE ANCHORS SHALL BE SUBMITTED FOR APPROVAL IN WRITING.

ANCHOR RODS ASTM F1554, GR 36, F_y = 36 KSI

2.3. **CONCRETE ADMIXTURES:** ADMIXTURES USED IN CONCRETE MIXES SHALL MEET THE FOLLOWING STANDARDS:

AIR-ENTRAINING ADMIXTURE ASTM C260

2.4. **MIXING AND PROPORTIONING:** PREPARE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE USING THE FIELD EXPERIENCE METHOD OR THE LABORATORY TRIAL BATCH METHOD AS SPECIFIED BY ACI. MIX PROPORTIONS SHALL PRODUCE CONSISTENT AND WORKABLE CONCRETE THAT CAN BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT WITHOUT SEGREGATION OR EXCESSIVE BLEEDING.

2.4.1. **MIXES:** DESIGN MIXES SHALL CONFORM TO THE FOLLOWING:

2.4.1.1. **MISCELLANEOUS CONCRETE** (CURBS, SIDEWALKS, ETC.):
A. F'C @ 28 DAYS= 3000 PSI
B. MAX. W/C RATIO= 0.50
C. AIR ENTRAINMENT= 5%
D. MAX. AGGREGATE SIZE= 1 IN.

2.4.1.2. **EXTERIOR EXPOSED SLABS ON GRADE:**
A. F'C @ 28 DAYS= 4000 PSI
B. MAX W/C RATIO= 0.45
C. AIR ENTRAINMENT= 5%
D. MAX AGGREGATE SIZE= 1 IN.

2.4.1.3. **CONCRETE WALLS, FOUNDATIONS AND INTERIOR SLABS-ON-GRADE:**
A. F'C @ 28 DAYS= 4000 PSI
B. MAX W/C RATIO= 0.45
C. MAX AGGREGATE SIZE= 1 IN.

2.4.1.4. **ADJUSTMENT OF MIXES:** MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS OR OTHER CIRCUMSTANCES WARRANT A CHANGE IN MIX DESIGN. REVISED MIX DESIGNS SHALL BE BASED ON FIELD EXPERIENCE OR TRIAL MIXTURES AND SHALL BE SUBMITTED FOR APPROVAL.

2.4.2. **FIELD ADJUSTMENT OF CONCRETE MIXES:** UNDER NO CIRCUMSTANCES SHALL DESIGN MIXES BE ALTERED IN THE FIELD THROUGH THE ADDITION OF WATER OR OTHER MATERIALS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CONCRETE SUPPLIER AND THE STRUCTURAL ENGINEER.

SECTION 03- CONCRETE - CONT.

3. CC- EXECUTION

3.1. **GENERAL:** CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH GOVERNING CODES AND SPECIFICATIONS.

3.2. **PRODUCTION AND DELIVERY:** PRODUCTION AND DELIVERY OF CONCRETE SHALL BE ACCORDANCE WITH ASTM C 94 "STANDARD SPECIFICATION FOR READY-MIX CONCRETE."

3.3. **PLACEMENT:** PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE."

3.3.1. **REINFORCING AND EMBEDDED ITEMS:** ALL REINFORCING AND EMBEDDED ITEMS SHALL BE IN PLACE AND SUPPORTED AND/OR TIED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. "WET STICKING" OF REINFORCING, DOWELS OR EMBEDDED ITEMS IS PROHIBITED WITHOUT EXCEPTION.

3.3.2. **COLD WEATHER PLACEMENT:** PROTECT CONCRETE FROM PHYSICAL DAMAGE WHICH COULD BE CAUSED BY FROST, FREEZING OR LOW TEMPERATURES IN COMPLIANCE WITH ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING."

3.3.3. **HOT WEATHER PLACEMENT:** WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD SERIOUSLY IMPAIR QUALITY AND STRENGTH OF CONCRETE, PLACE CONCRETE IN COMPLIANCE WITH ACI 305.1 "SPECIFICATION FOR HOT WEATHER CONCRETING."

2. MB- MATERIALS

SECTION 03- CONCRETE - CONT.

3.4. **FINISHES:** FINISH UNFORMED SURFACES AS FOLLOWS, PER ACI 301. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL FINISH REQUIREMENTS. IN THE EVENT OF CONFLICT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN CONCRETE FINISHES.

3.4.1. **SCRATCH FINISH:** FOR SURFACES INTENDED TO RECEIVE BONDED CEMENTITIOUS MIXTURES.

3.4.2. **FLOAT FINISH:** FOR WALKS, DRIVES, STEPS, RAMPS AND SURFACES INTENDED TO RECEIVE WATERPROOFING, ROOFING, INSULATION OR SAND-BED TERRAZZO.

3.4.3. **STEEL TROWELED FINISH:** FOR FLOORS INTENDED AS WALKING SURFACES, FLOORS IN MANUFACTURING, STORAGE AND WAREHOUSING AREAS, OR FOR RECEPTION OF FLOOR COVERINGS. UNDER NO CIRCUMSTANCES SHALL AIR ENTRAINED CONCRETE RECEIVE A STEEL TROWELED FINISH.

3.5. **CONCRETE CURING AND PROTECTION:**

3.5.1. **PROTECTION:** IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES AND MECHANICAL INJURY. PROTECT CONCRETE DURING CURING PERIOD SUCH THAT THE CONCRETE TEMPERATURE DOES NOT FALL BELOW THE REQUIREMENTS OF ACI 306.1.

3.5.2. **CURING:** START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE, OR AS SOON AS MARRING OF SURFACE WILL NOT OCCUR. BEGIN FINAL CURING IMMEDIATELY AFTER INITIAL CURING AND BEFORE CONCRETE HAS DRIED. AVOID RAPID DRYING AT END OF FINAL CURING PERIOD. USE ONE OR MORE OF THE FOLLOWING METHODS TO PRESERVE MOISTURE IN THE CONCRETE:
A. PONDING, CONTINUOUS FOGGING OR CONTINUOUS SPRINKLING.
B. APPLICATION OF MATS OR FABRIC KEPT CONTINUOUSLY WET.
C. APPLICATION OF SHEET MATERIALS CONFORMING TO ASTM C171.
D. APPLICATION OF A CURING COMPOUND CONFORMING TO ASTM C309 OR C1315.

METAL BUILDINGS- GENERAL NOTES

MB- METAL BUILDINGS

1. MB- GENERAL

1.1. **GENERAL:** SPECIFICATIONS FOR MATERIALS AND EXECUTION OF THE ERECTION OF THE METAL BUILDING ARE THE RESPONSIBILITY OF THE METAL BUILDING SUPPLIER. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE SPECIFICATION, INSTRUCTIONS OR REQUIREMENTS SET FORTH BY THE SUPPLIER, THE ENGINEER SHALL BE NOTIFIED OF THE CONFLICT IN WRITING PRIOR TO CONSTRUCTION OF THE EFFECTED ITEM(S).

1.2. **FOUNDATION DESIGN:** THE FOUNDATION DESIGN IS BASED ON THE METAL BUILDING PACKAGE SUBMITTED BY STAR BUILDING SYSTEMS (JOB # 18-B-23570) DATED 08/02/2021.

1.3. **QUALITY ASSURANCE:** PERFORM ALL WORK IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

1.4. **SUBMITTALS:** SHOP DRAWINGS FOR THE PRE-ENGINEERED METAL BUILDING SHALL BE SUBMITTED PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUBMITTALS SHALL INCLUDE AT A MINIMUM:

1.4.1. **SHOP DRAWINGS:** LAYOUT DRAWINGS AND DETAILS WHICH SHALL CLEARLY INDICATE DIMENSIONS, MEMBER SIZES, MATERIAL GRADES, AND CONNECTIONS. ANY SUBSTITUTIONS OR DEVIATIONS FROM THE CONTRACT DRAWINGS SHALL BE CLEARLY INDICATED AND STRUCTURAL CALCULATIONS SHALL BE PREPARED BY THE FABRICATOR'S ENGINEER AND SUBMITTED FOR APPROVAL.

1.4.2. **LOADS IMPOSED ON FOUNDATION:** DETAILS AND LAYOUTS OF THE METAL BUILDING SHALL BE SUBMITTED WHICH CLEARLY INDICATE ALL ATTACHMENT POINTS TO THE FOUNDATIONS, MAGNITUDES AND LOCATIONS FOR ALL LOADS IMPOSED ON THE FOUNDATIONS SHALL BE CLEARLY INDICATED. ASSUMED LOADS IMPOSED AS SHOWN ON THESE DRAWINGS ARE SCHEMATIC ESTIMATES. IF THE ASSUMED LOADS LISTED ON THE CONTRACT DOCUMENTS ARE EXCEEDED REVISIONS TO THE FOUNDATIONS MAY BE REQUIRED. LOCATIONS AND MAGNITUDES OF ALL FORCES WHICH EXCEED THOSE LISTED ON THE DRAWINGS SHALL BE CLEARLY INDICATED AS SUCH AND SUBMITTED TO THE ENGINEER IN WRITING.

1.4.3. **PRODUCT DATA:** SUBMIT FOR APPROVAL PRODUCT DATA FOR ALL STEEL ACCESSORIES INCLUDING, BUT NOT LIMITED TO: STEEL PRIMER AND COATING SYSTEMS, NON-SHRINK GROUT AND SPECIALTY ITEMS. CONTRACTOR SUBSTITUTIONS SHALL BE CLEARLY INDICATED AS SUCH AND THE PRODUCT BEING SUBSTITUTED FOR SHALL BE STATED IN WRITING.

1.4.4. **STRUCTURAL CALCULATIONS:** DESIGN OF THE METAL BUILDING, INCLUDING ALL CONNECTIONS, ACCESSORIES, AND RELATED ITEMS SHALL BE THE RESPONSIBILITY OF THE METAL BUILDING SUPPLIER AND SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER, LICENSED IN THE PROJECT JURISDICTION. ADDITIONALLY ALL CONNECTIONS, SPLICES AND ERECTION PIECES NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS (DUE TO FABRICATOR REDESIGN) SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION AT NO ADDITIONAL EXPENSE TO THE OWNER AND SUBMITTED FOR APPROVAL. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL.

METAL BUILDINGS- GENERAL NOTES- CONT.

2.1. **PRE-ENGINEERED METAL BUILDING:** THE PRE-ENGINEERED METAL BUILDING, ALL COMPONENTS AND ACCESSORIES SHALL BE SUPPLIED AND DESIGNED BY OTHERS.

2.2. **STEEL ANCHOR RODS:** STEEL ANCHOR RODS SHALL BE ASTM 1554, GRADE 36, F_y= 36 KSI. LENGTH SHALL BE ADEQUATE TO PROVIDE MINIMUM SPECIFIED EMBEDMENT AND PROJECTION.

2.3. **COATINGS FOR PRIMARY STRUCTURAL STEEL (HOT ROLLED):** ALL STRUCTURAL STEEL SHALL RECEIVE A COATING SYSTEM PER THE "SOCIETY FOR PROTECTIVE COATINGS" (SSPC), INCLUDING SURFACE PREPARATIONS, PRIME COAT(S) AND FINISH COAT(S) SUITABLE FOR PROTECTION OF THE STEEL IN ENVIRONMENT 3C, "CHEMICAL ATMOSPHERIC EXPOSURE, ALKALINE". THE FINAL COAT SHALL HAVE A COLOR APPROVED BY THE ARCHITECT. PAINTING AND COATING INFORMATION SHALL BE SUBMITTED FOR REVIEW WITH THE METAL BUILDING SUBMITTAL.

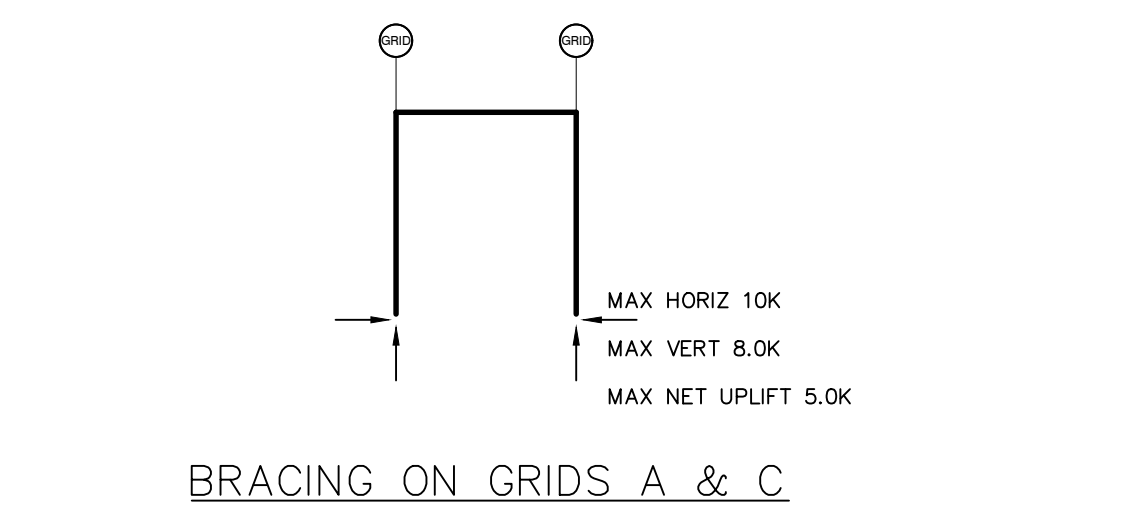
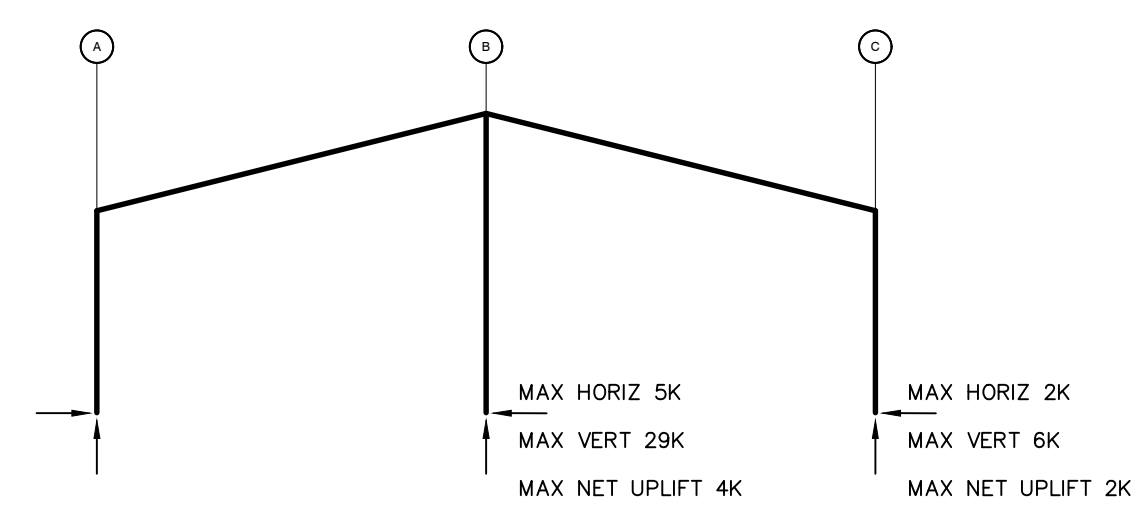
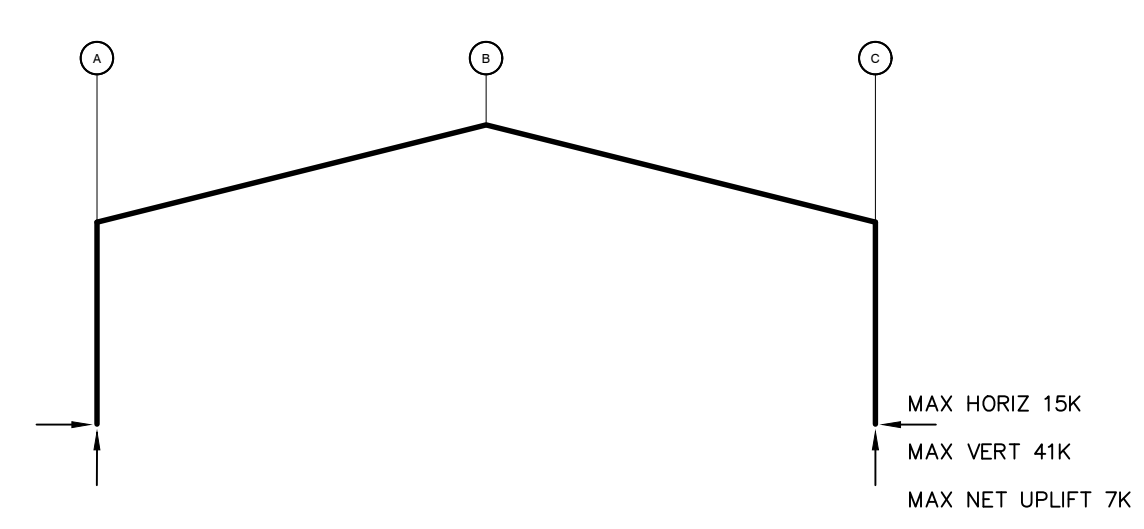
2.4. **SECONDARY STRUCTURAL MEMBERS:** ALL PURLINS, GIRTS, MEMBER BRACING, WIND BRACING, ALL SECONDARY FRAMING, AND ALL ACCESSORIES SHALL BE GALVANIZED PER ASTM A-653, CLASS G90.

3. SS- EXECUTION

3.1. **GENERAL:** ERECT STRUCTURAL STEEL FRAMING IN ACCORDANCE WITH GOVERNING CODES AND SPECIFICATIONS.

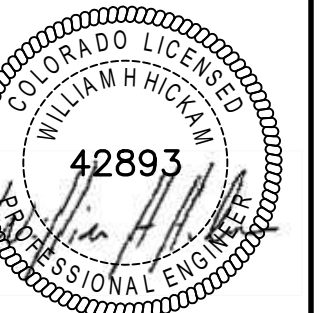
3.2. **TEMPORARY SHORING AND BRACING:** THE FOUNDATION SYSTEMS CONTAINED IN THE CONTRACT DRAWINGS ARE DESIGNED FOR A FINAL, INSTALLED CASE. ALL ELEMENTS OF THE FOUNDATION SYSTEM ARE REQUIRED TO BE IN PLACE AND ACHIEVE THE DESIGN STRENGTHS PRIOR TO THE INSTALLATION OF THE BUILDING. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO ALL CONNECTIONS BETWEEN WALLS, FOOTINGS AND SLAB-ON-GRADE.

3.3. **FIELD ASSEMBLY:** DO NOT FIELD CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.



SHEET INDEX

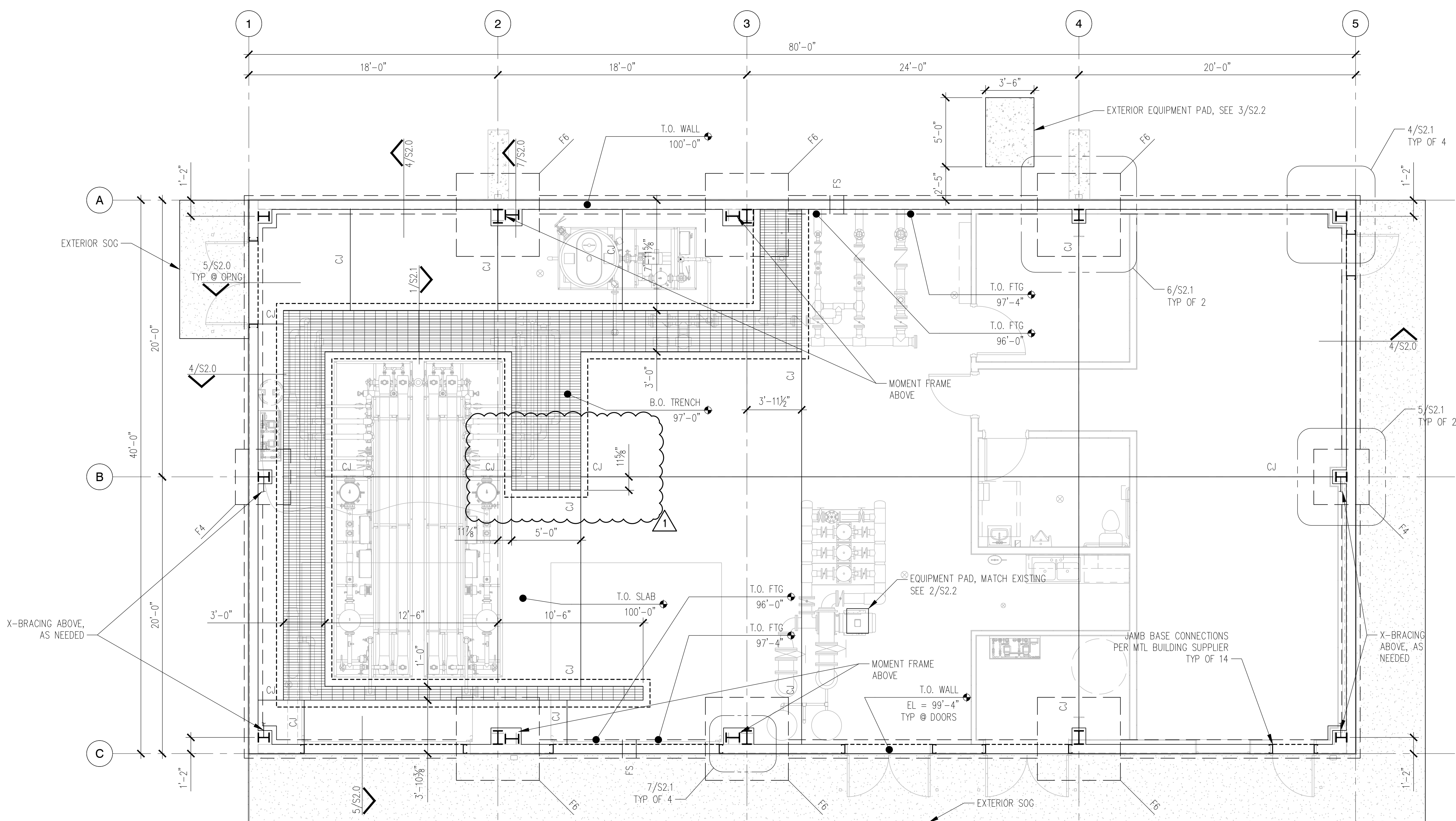
S0.0	GENERAL NOTES
S1.0	FOUNDATION PLAN
S2.0	SECTIONS & DETAILS
S2.1	SECTIONS & DETAILS
S2.2	SECTIONS & DETAILS



NO.	REVISIONS	DESCRIPTION	DATE	BY	CHK
1	FIELD ORDER NO. 1 - CONCENTRATE REINSONS		JUN 22		

REVERSE OSMOSIS WATER TREATMENT PLANT
CONSTRUCTION DOCUMENTS
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

DATE	JANUARY 2022
JOB NUMBER	20-116
SCALE	1/4" = 1'-0"
DRAWING NAME	FOUNDATION PLAN
SHEET	1 of 5



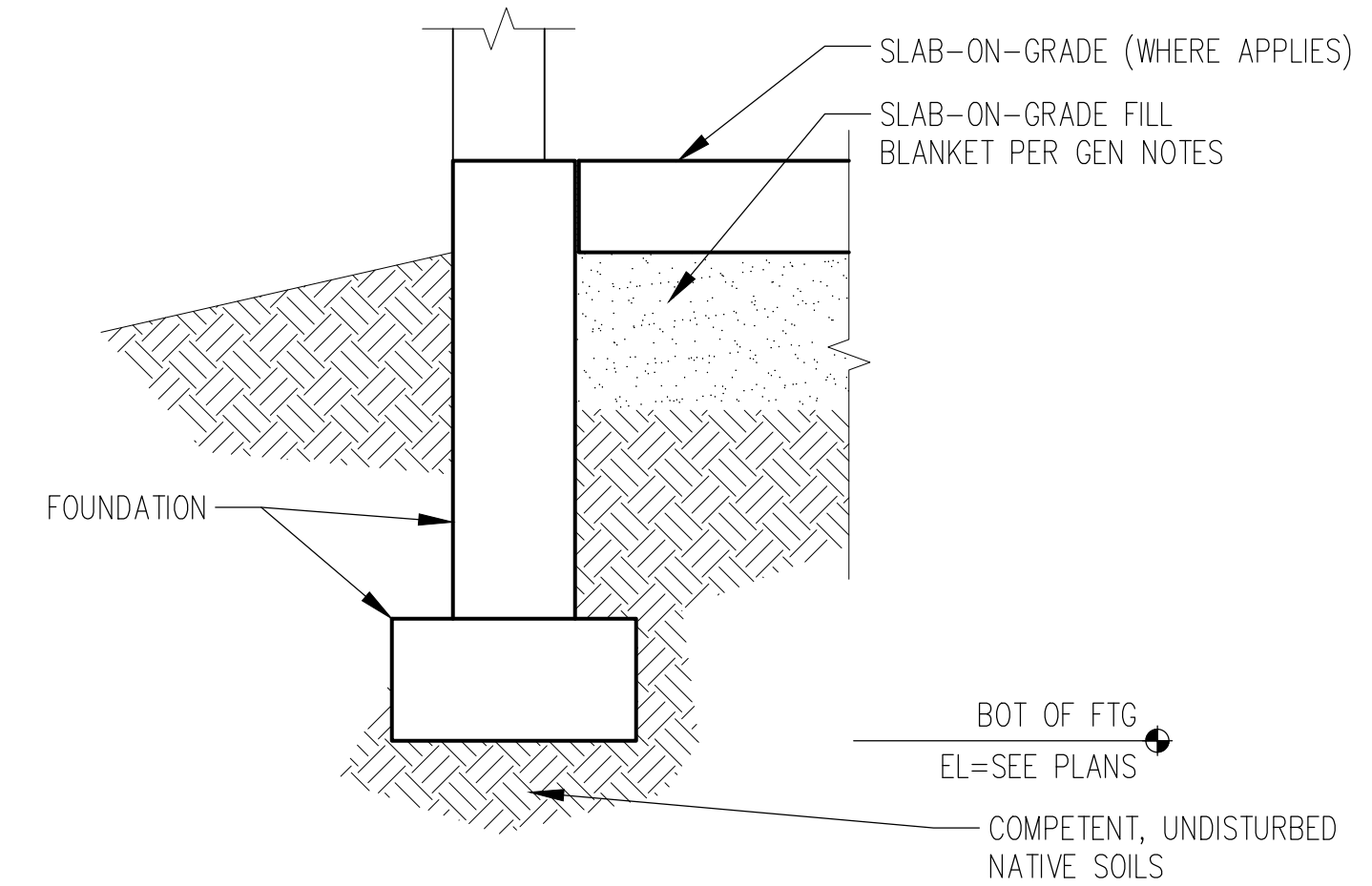
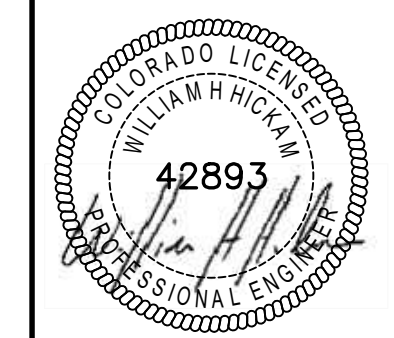
FOUNDATION PLAN NOTES:

- SEE GENERAL NOTES ON SO.0 FOR ADDITIONAL DESIGN AND SPECIFICATION INFORMATION.
- PROJECT REFERENCE ELEVATION (100'-0") IS EQUAL TO THE FINISH FLOOR ELEVATION. ALL ELEVATIONS SHOWN ON PLAN ARE RELATIVE TO THE PROJECT REFERENCE ELEVATION.
- TOP OF FOOTING ELEVATIONS SHALL BE 97'-4" UNLESS NOTED OTHERWISE. ALL FOOTINGS MAY BE SUPPORTED ON COMPETENT, UNDISTURBED NATIVE SOILS OR MOISTURE CONDITIONED AND COMPACTED STRUCTURAL FILL. SEE GENERAL NOTES AND DETAIL 1/S2.0 FOR ADDITIONAL INFORMATION.
- FOUNDATION KEY:
 - INDICATES FOOTING SIZE - SEE SCHEDULE
 - INDICATES GRATING. GRATING IN THE BUILDING SHALL BE 1/2" DEEP GALVANIZED STEEL GRATING WITH A NON-SLIP SURFACE. GRATING SHALL SUPPORT THE WORST CASE OF: 100 POUNDS PER SQUARE FOOT DISTRIBUTED LOAD OR A CONCENTRATED LOAD OF 320 POUNDS APPLIED OVER AN AREA OF ONE SQUARE FOOT.
- ALL EXISTING MAN-PLACED FILL IN AREAS SUPPORTING FOUNDATIONS AND SLABS SHALL BE EXCAVATED AND REMOVED. WHERE REQUIRED, EXCAVATED FILL MAY BE REPLACED WITH COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE GENERAL NOTES.
- TOP OF STEM WALL ELEVATION SHALL BE 100'-0" UNLESS NOTED OTHERWISE.
- SLAB-ON-GRADE SHALL BE 5 INCHES THICK, REINFORCED WITH WWF 6x6-W2.9xW2.9 UNLESS OTHERWISE NOTED. SLAB-ON-GRADE SHALL BE PLACED ON A COMPOSITE FILL BLANKET PER THE GENERAL NOTES AND TYPICAL DETAILS.
- CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS AND LOCATIONS WITH THE METAL BUILDING SUPPLIER.
- IN ADDITION TO THE REQUIREMENTS IN THE GENERAL NOTES, ALL CONCRETE USED FOR EXTERIOR CONCRETE SHALL HAVE AIR ENTRAINMENT OF BETWEEN 5 AND 7 PER CENT. AIR ENTRAINING ADMIXTURE SHALL BE USED CONFORMING TO ASTM C260.
- "CJ" INDICATES LOCATION OF CONTROL JOINTS.
- "FS" INDICATES LOCATION OF A FOOTING STEP, SEE 2/S2.0 FOR DETAIL.
- TYPICAL EXTERIOR SIDEWALKS SHALL BE 4" THICK CAST IN PLACE CONCRETE REINFORCED WITH #3 @ 18" OC PLACED ON A 4" THICK LAYER OF COMPACTED AGGREGATE BASE COURSE OVER SCARIFIED, MOISTURE CONDITIONED AND COMPACTED NATIVE SOILS.

FOOTING	SIZE (L x W x D)	BOTTOM REINFORCING	TOP REINFORCING	NOTES
F4.0	4'-0" x 4'-0" x 1'-0"	(5) #4 EA WAY	(4) #4 EA WAY	
F6.0	6'-0" x 6'-0" x 1'-0"	(7) #5 EA WAY	(5) #4 EA WAY	

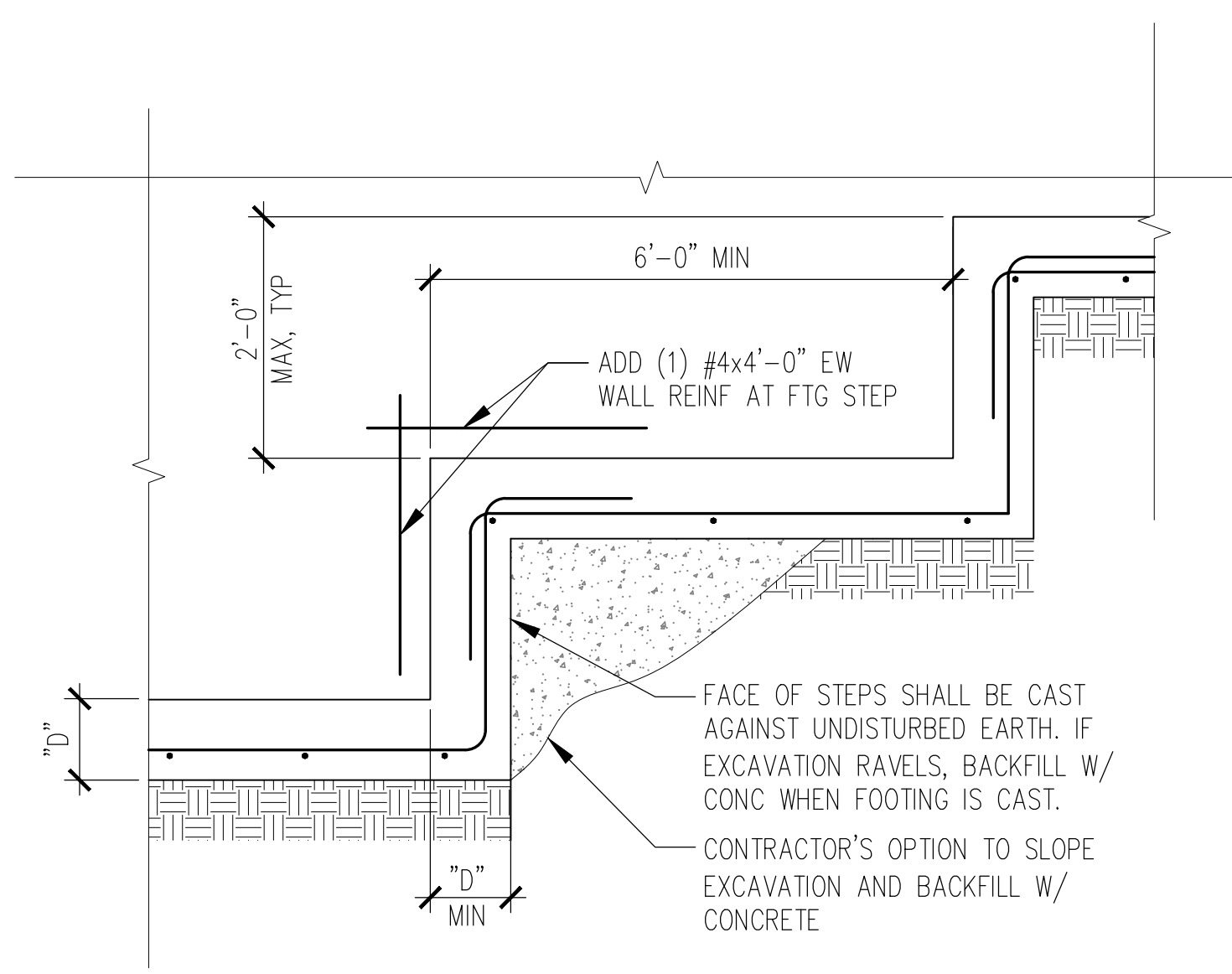
BAR SIZE	TOP BARS	OTHER BARS
#3	1'-10"	1'-6"
#4	2'-2"	1'-9"
#5	2'-8"	2'-1"
#6	3'-6"	2'-9"
#7	4'-8"	3'-8"
#8	6'-1"	4'-9"

- NOTES:**
- LAP SPLICES ARE FOR CONCRETE STRENGTHS EQUAL TO OR GREATER THAN 4000 PSI @ 28 DAYS.
 - COVER TO REINFORCING MUST BE AT LEAST (1.0 x BAR DIAMETER) AND CENTER-TO-CENTER SPACING MUST BE AT LEAST (3.0 x BAR DIAMETER)
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 - LAP SPLICE INFORMATION APPLIES TO SLAB, BEAM, WALL AND FOOTING REINFORCING BARS.
 - IF SPLICES ARE REQUIRED THAT DO NOT MEET THE ABOVE REQUIREMENTS, THE ENGINEER OF RECORD SHALL BE CONTACTED TO DETERMINE THE REQUIRED LAP LENGTH.

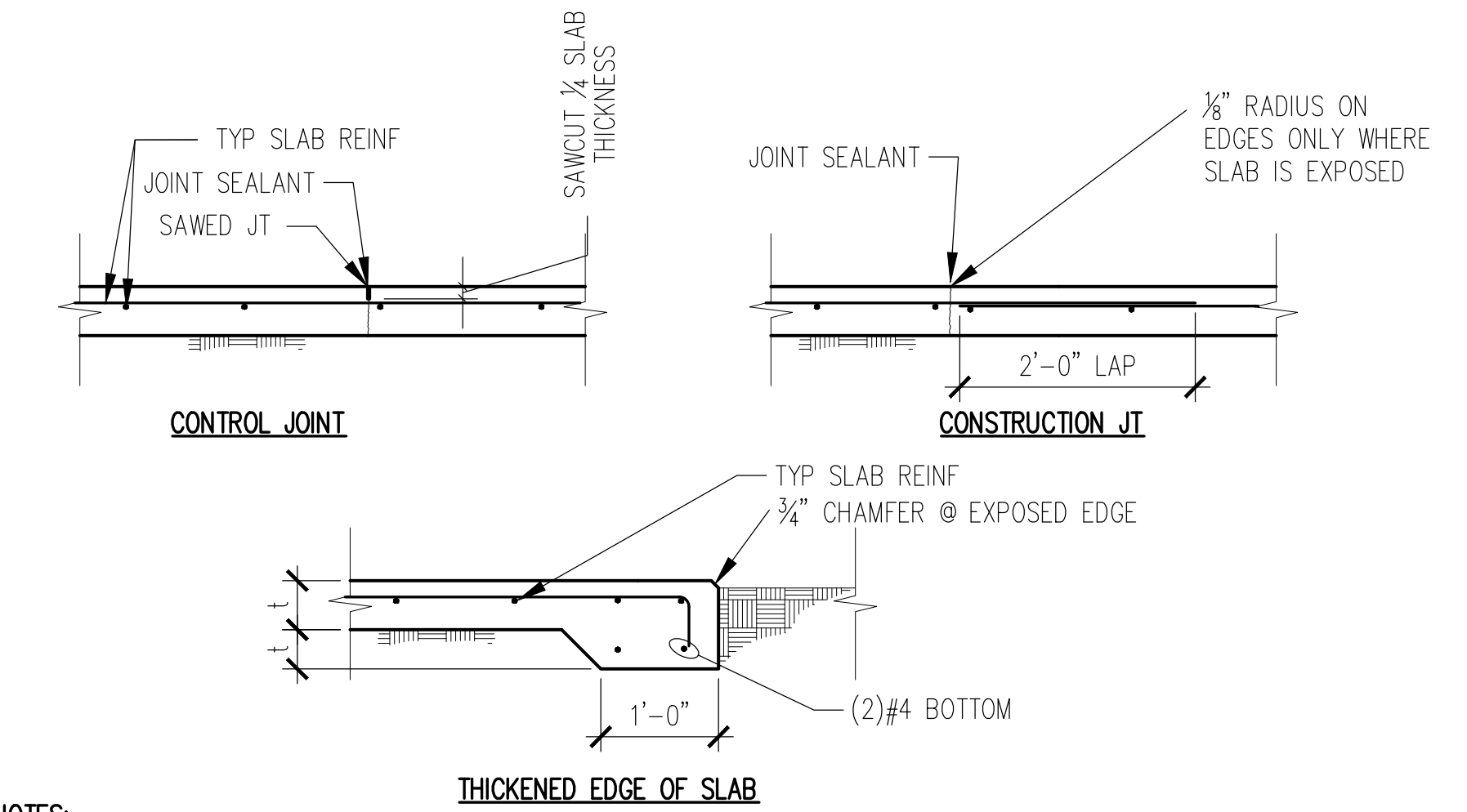


NOTES:
1. SEE FOUNDATION SHEET NOTES AND THE PROJECT SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. IF REQUIRED ALL FILL SHALL BE MOISTURE CONDITIONED, PLACED, AND COMPACTED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.

1" = 1'-0" TYPICAL FOUNDATION EARTHWORK 1

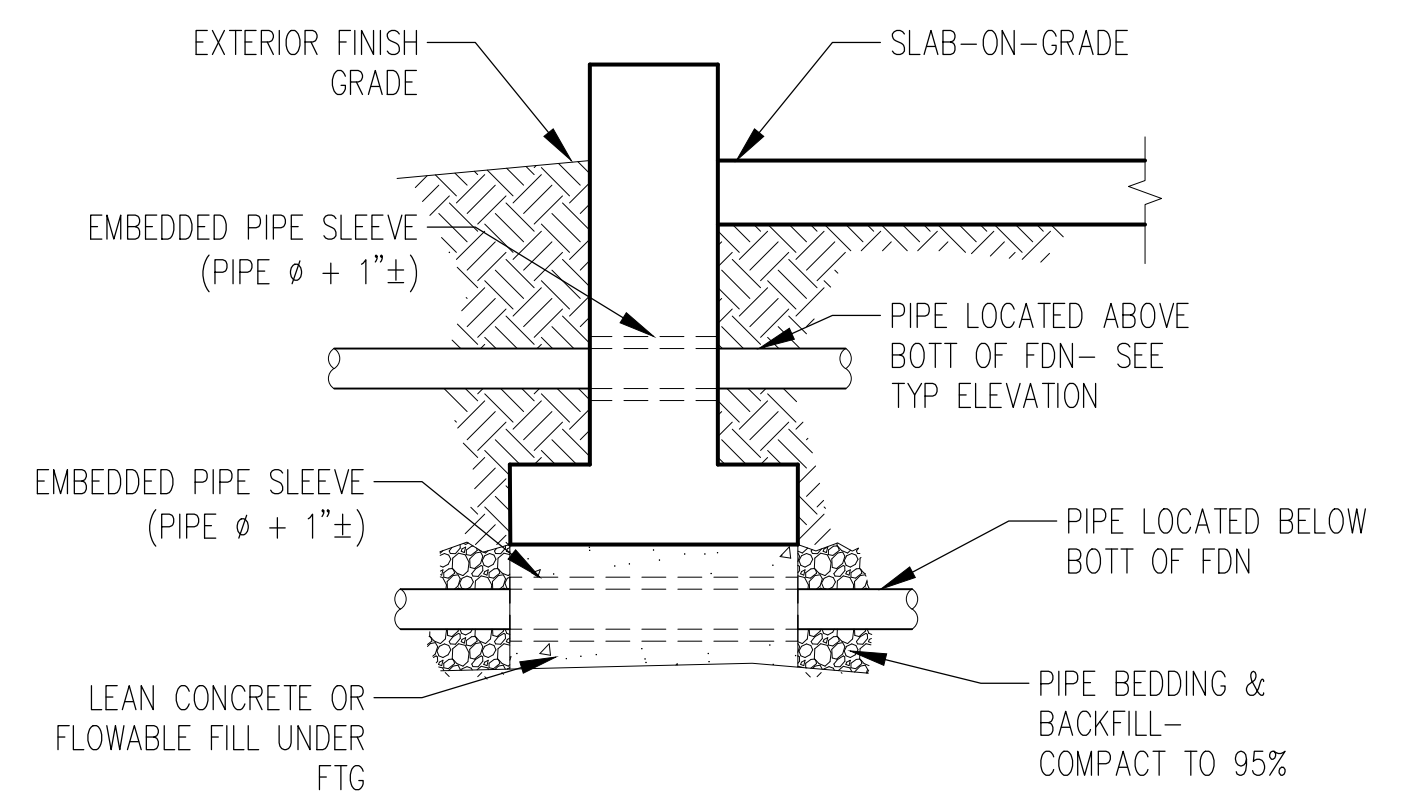


3/4" = 1'-0" SECTION 2

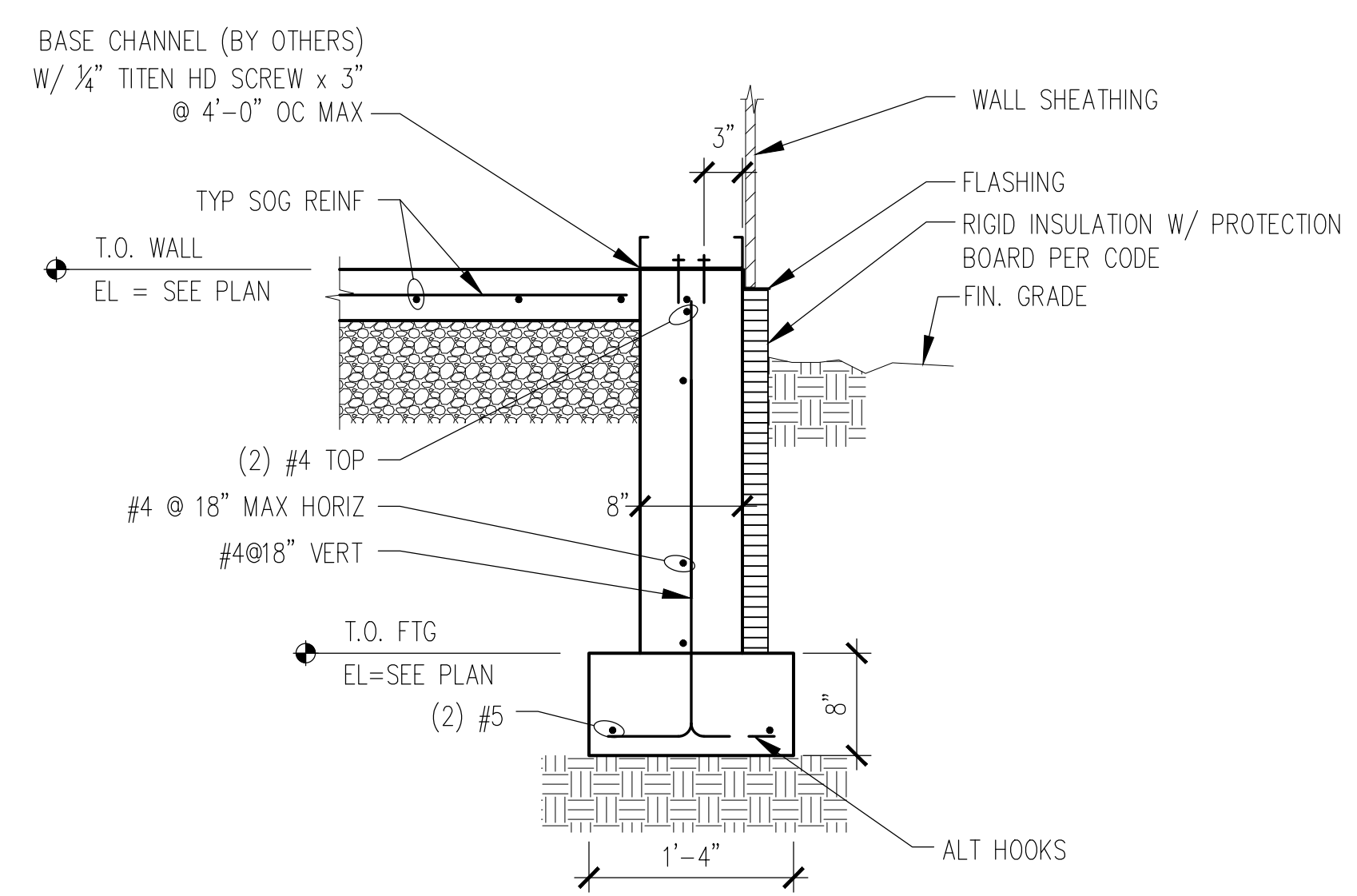


NOTES:
1. SEE PLANS FOR SLAB ON GRADE THICKNESS AND REINFORCING.
2. LOCATE SOG REINFORCING AT ONE-THIRD THE SLAB THICKNESS FROM TOP OF SLAB.
3. SAWED JOINTS SHALL BE MADE AS SOON AS THE JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 24 HOURS OF SLAB PLACEMENT. SAWED JOINTS SHALL BE FILLED WITH SEALANT.

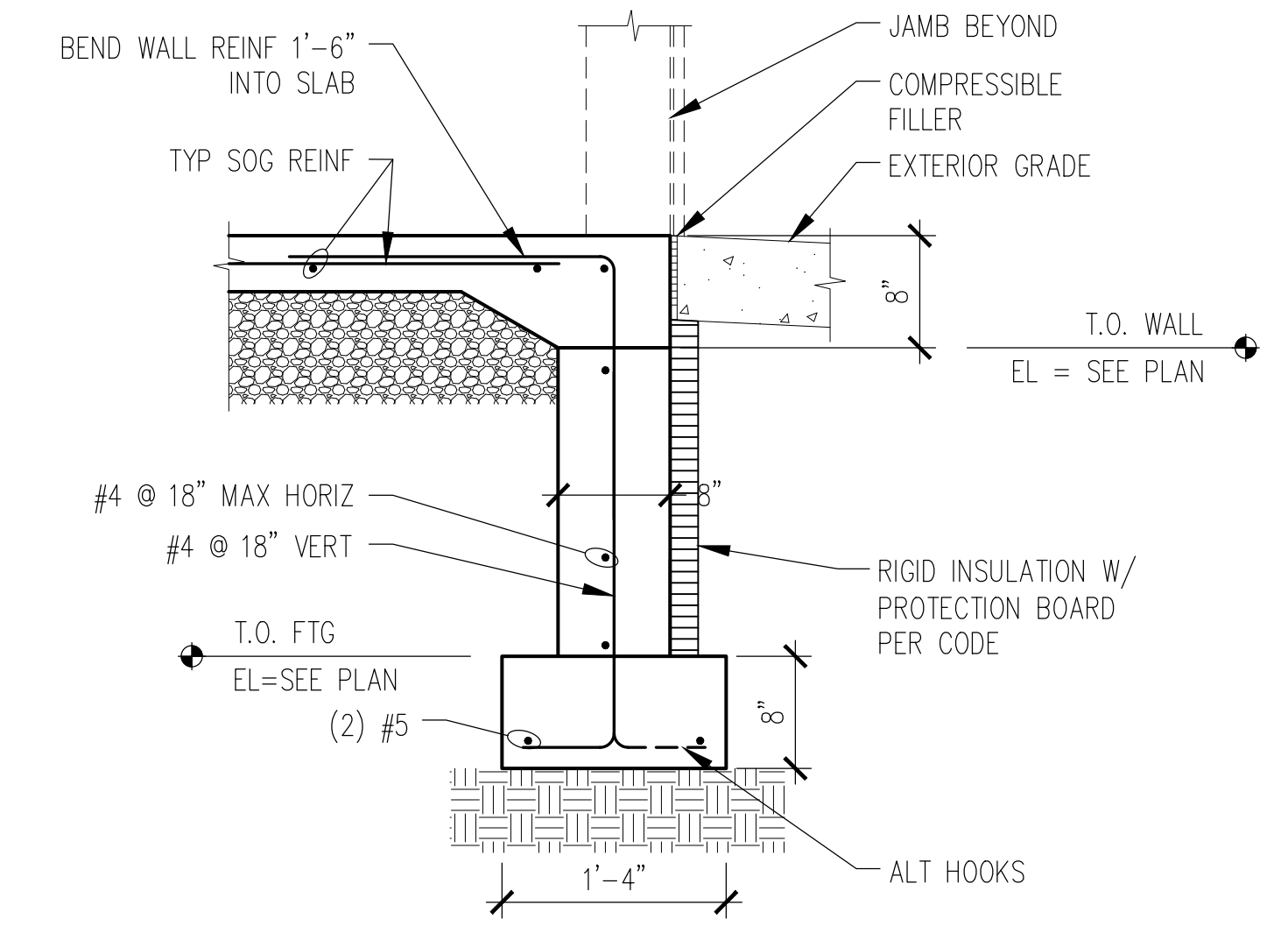
3/4" = 1'-0" SECTION 3



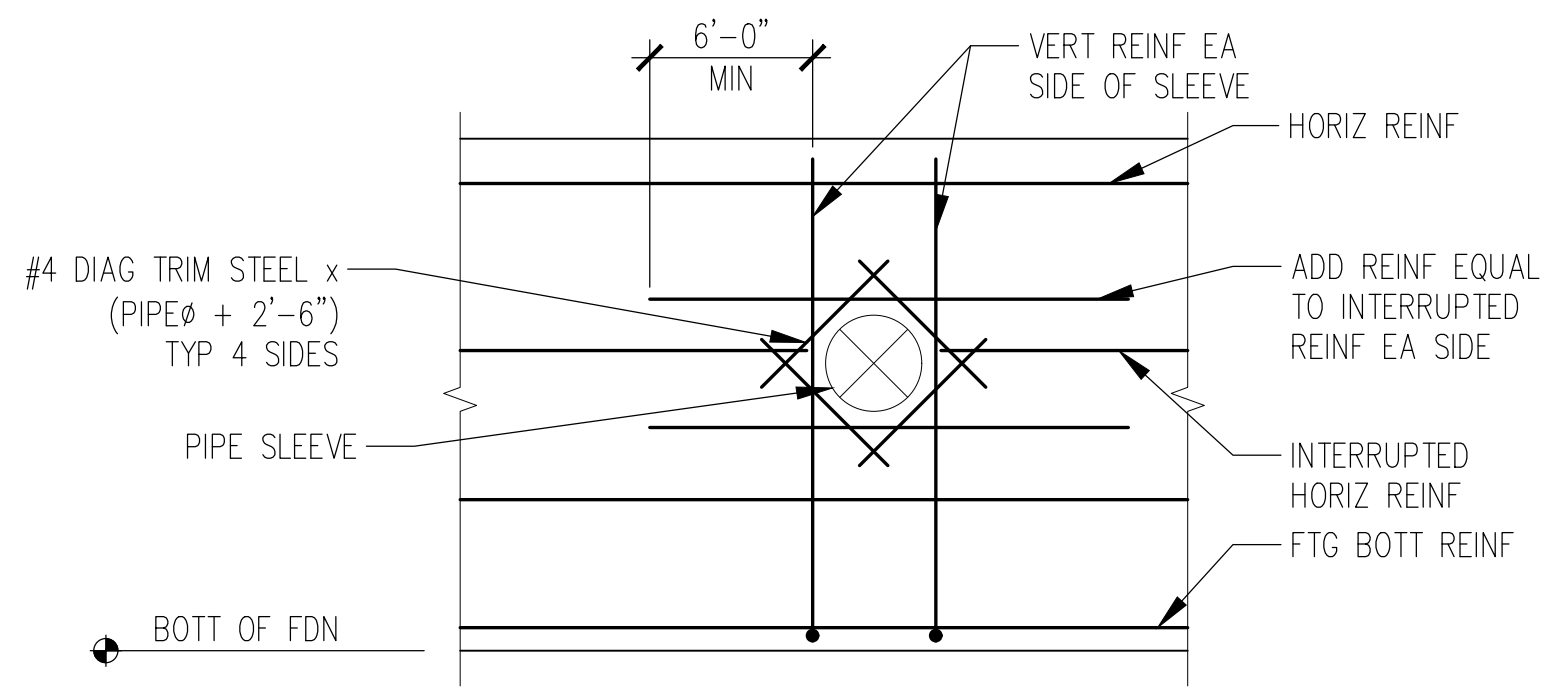
SECTION- TYPICAL PIPING AT FOUNDATION



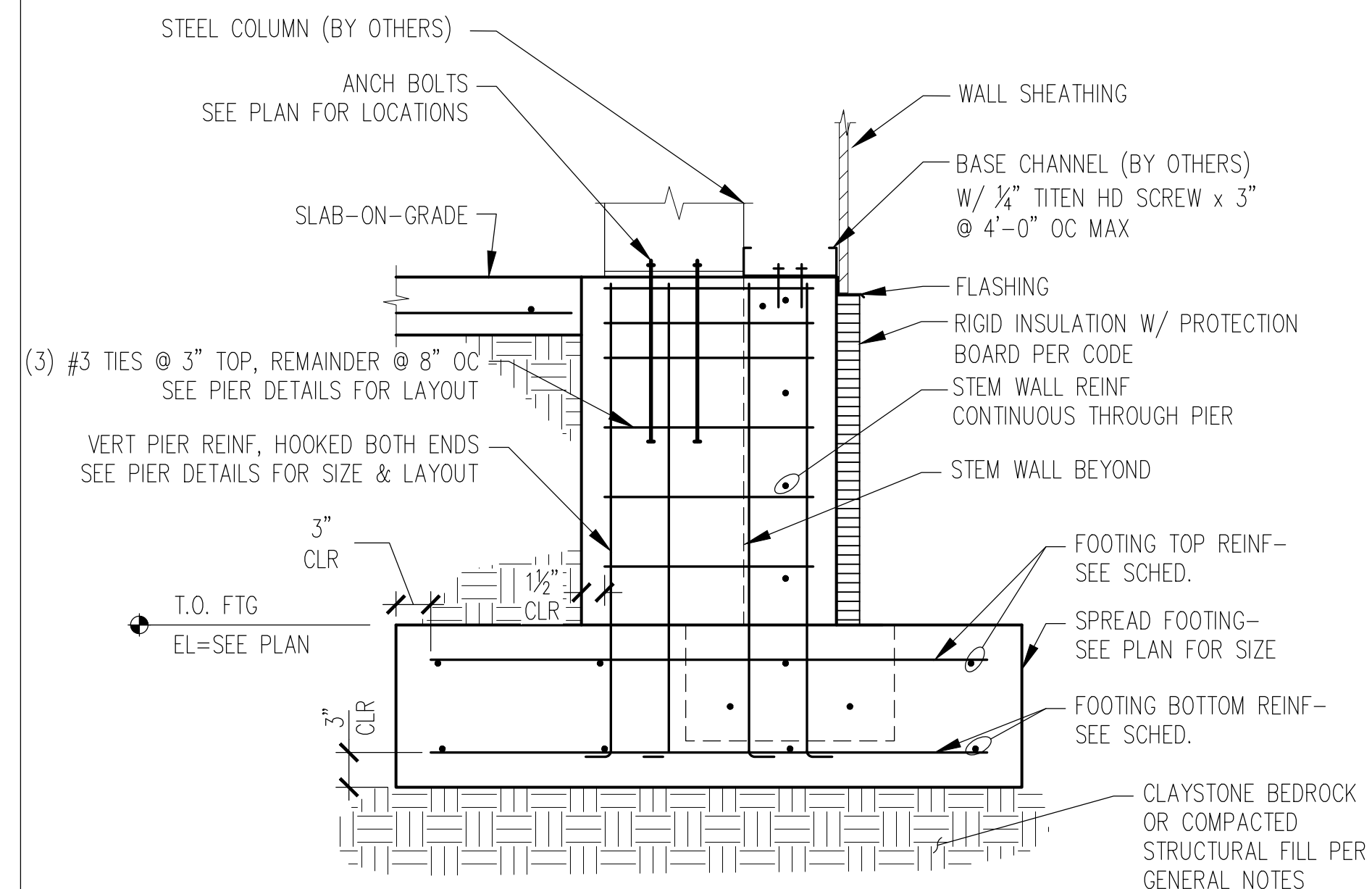
1" = 1'-0" SECTION 4



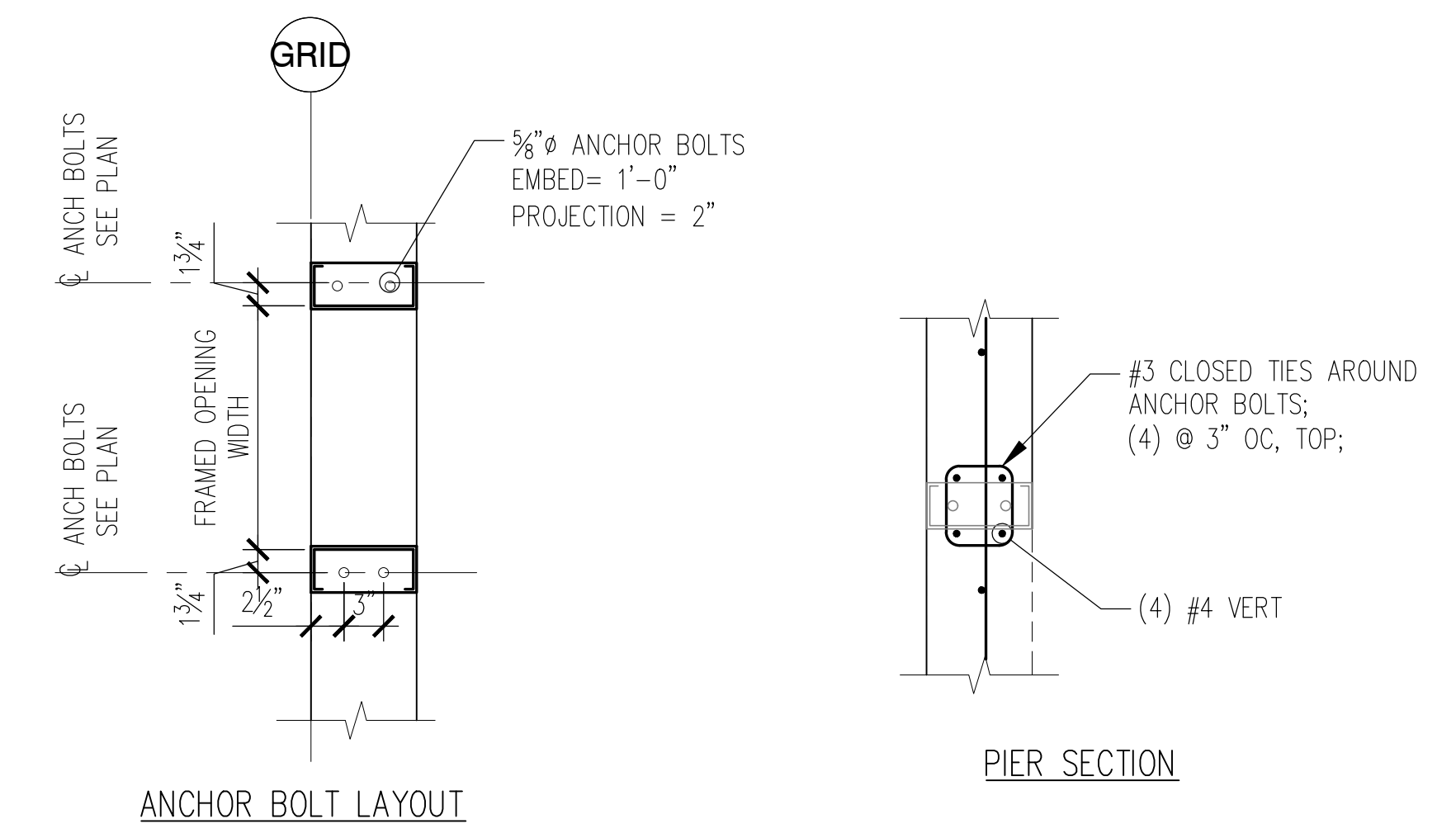
1" = 1'-0" SECTION 5



ELEVATION- TYPICAL PIPE PENETRATION THRU STEM WALL



1" = 1'-0" SECTION 6

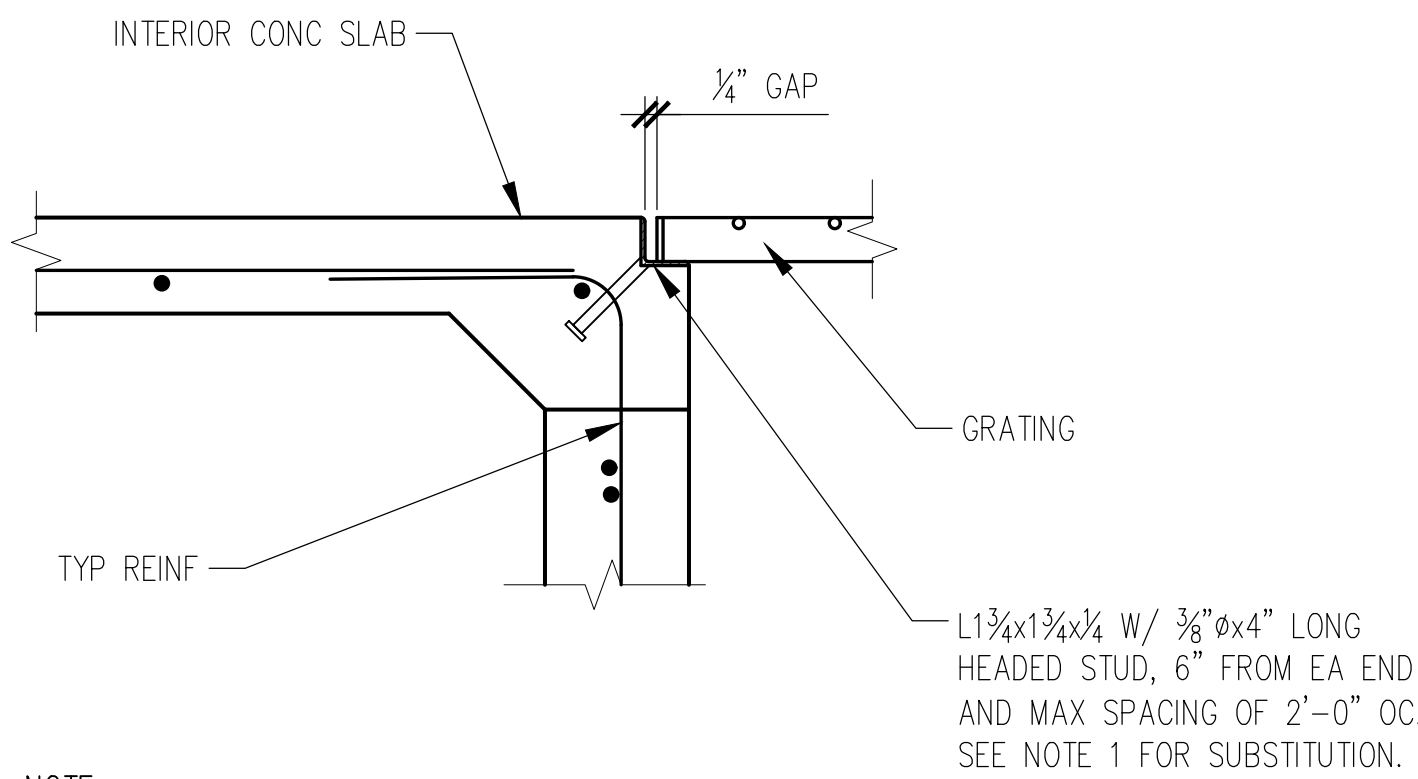
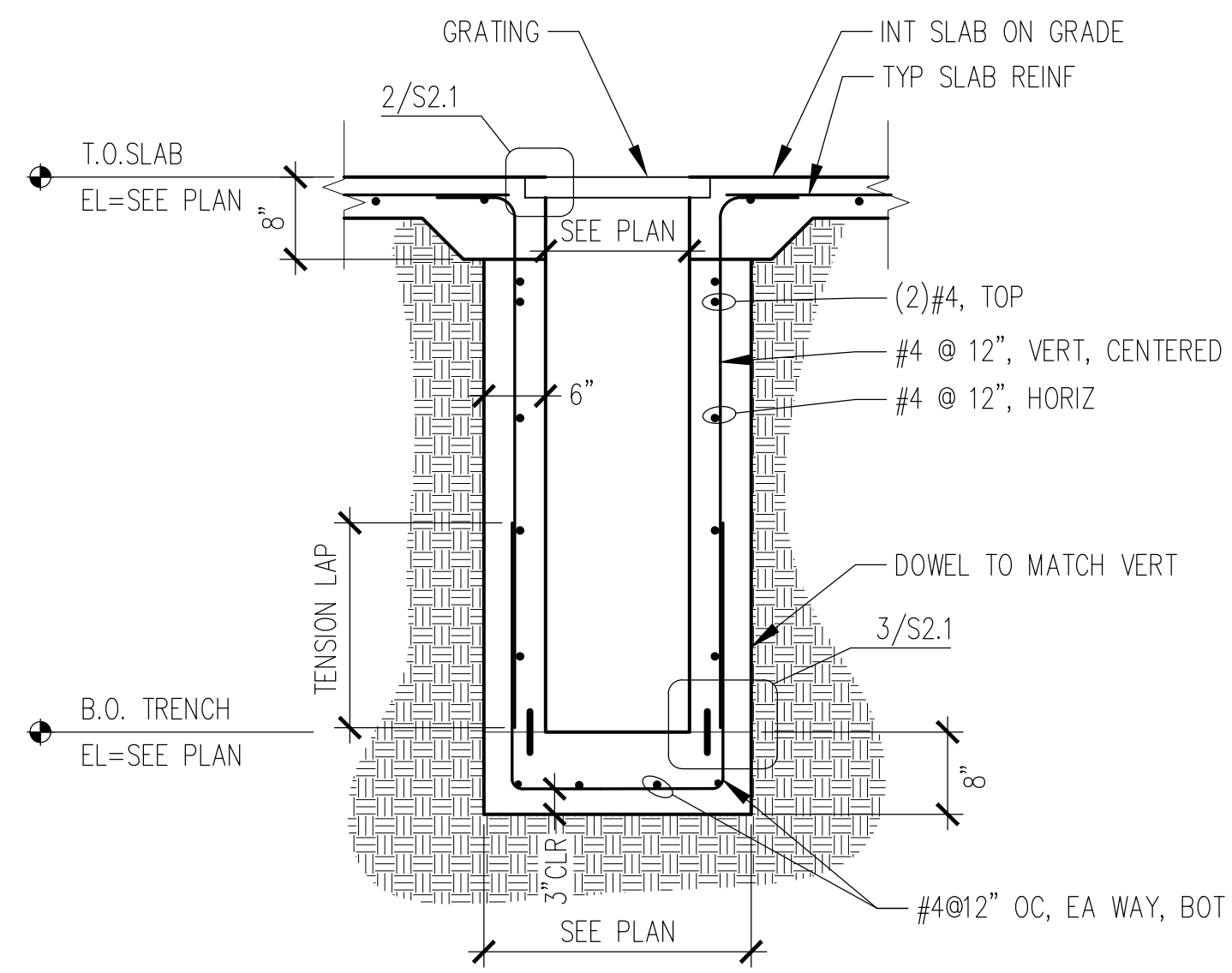
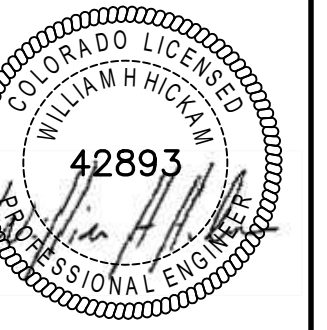


1" = 1'-0" SECTION 7

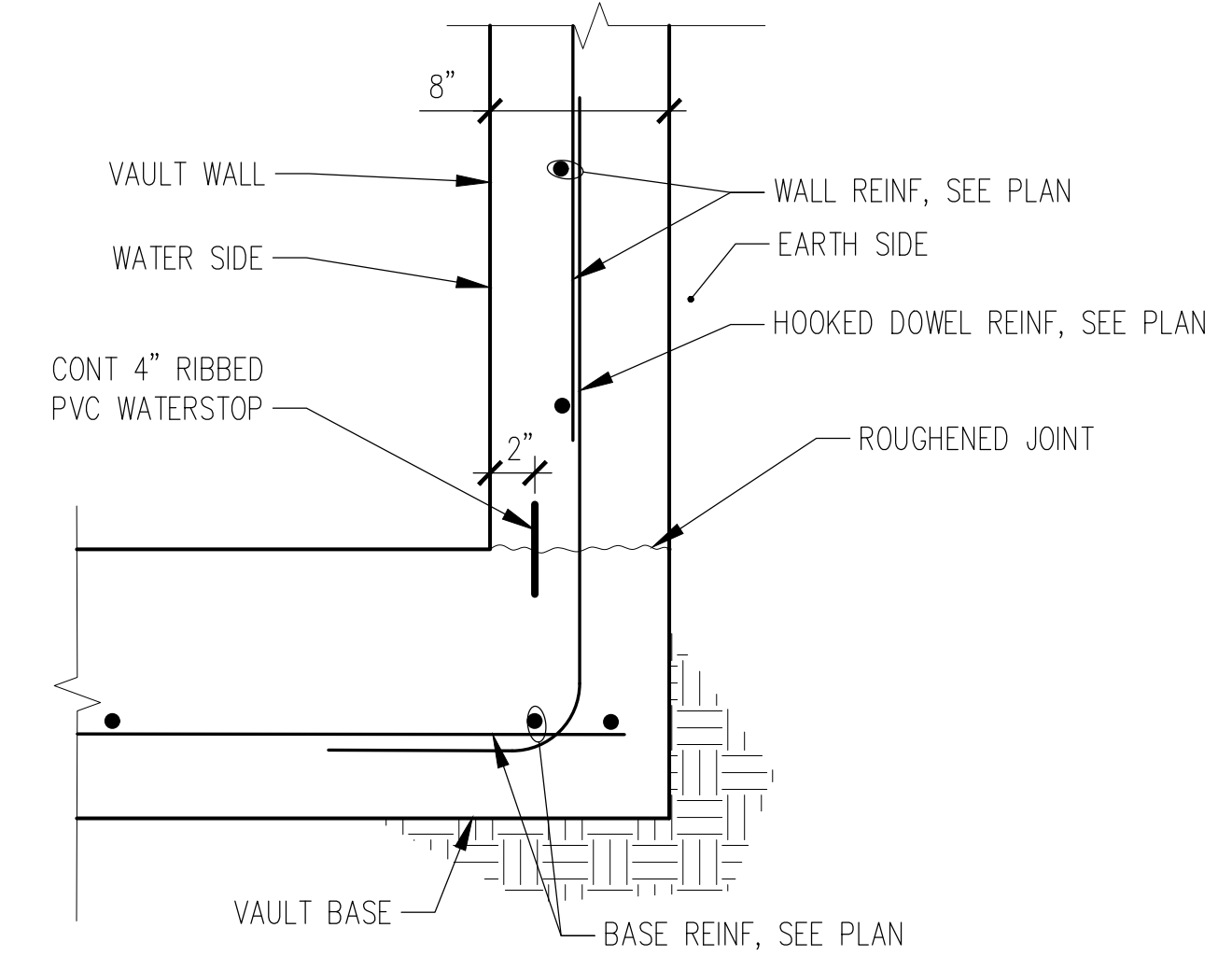
NO.	REVISIONS	DESCRIPTION	DATE	BY	CHK
1	FIELD ORDER NO. 1 - CONCENTRATE REINSONS		JUN 22		

REVERSE OSMOSIS WATER TREATMENT PLANT
CONSTRUCTION DOCUMENTS
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

DATE	JANUARY 2022
JOB NUMBER	20-116
SCALE	AS SHOWN
DRAWING NAME	SECTIONS & DETAILS
SHEET	S2.0 OF 5



NOTE:
1. PREFABRICATED GRATING FRAME MAY BE SUBMITTED FOR APPROVAL AT CONTRACTORS OPTION.



3/4" = 1'-0"

SECTION

1

1 1/2" = 1'-0"

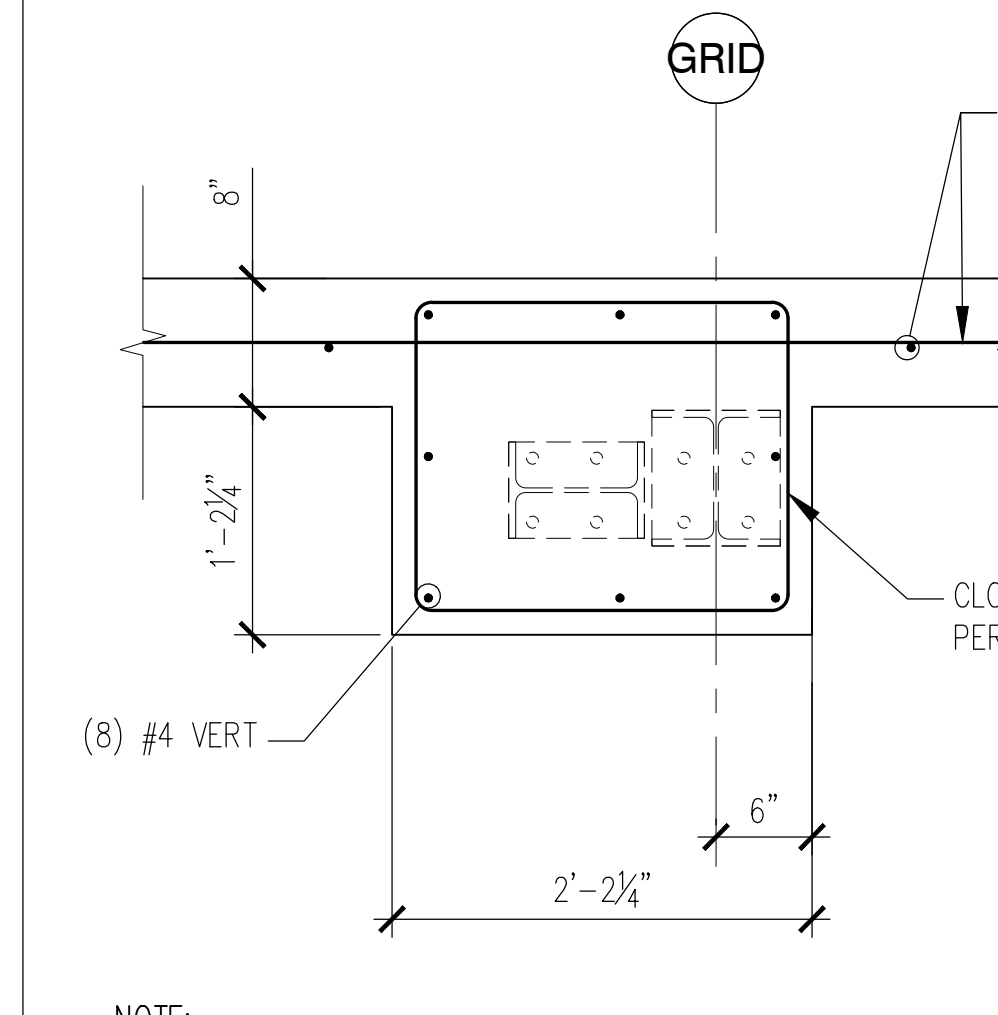
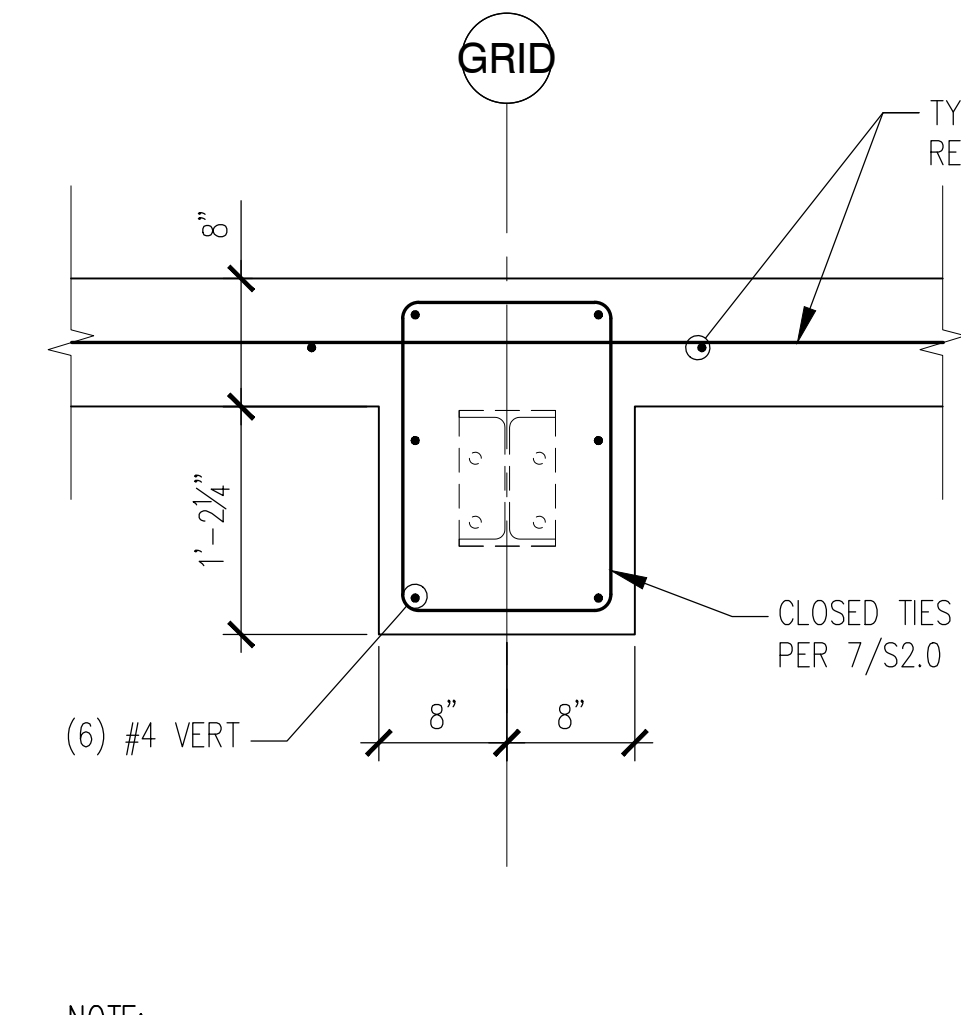
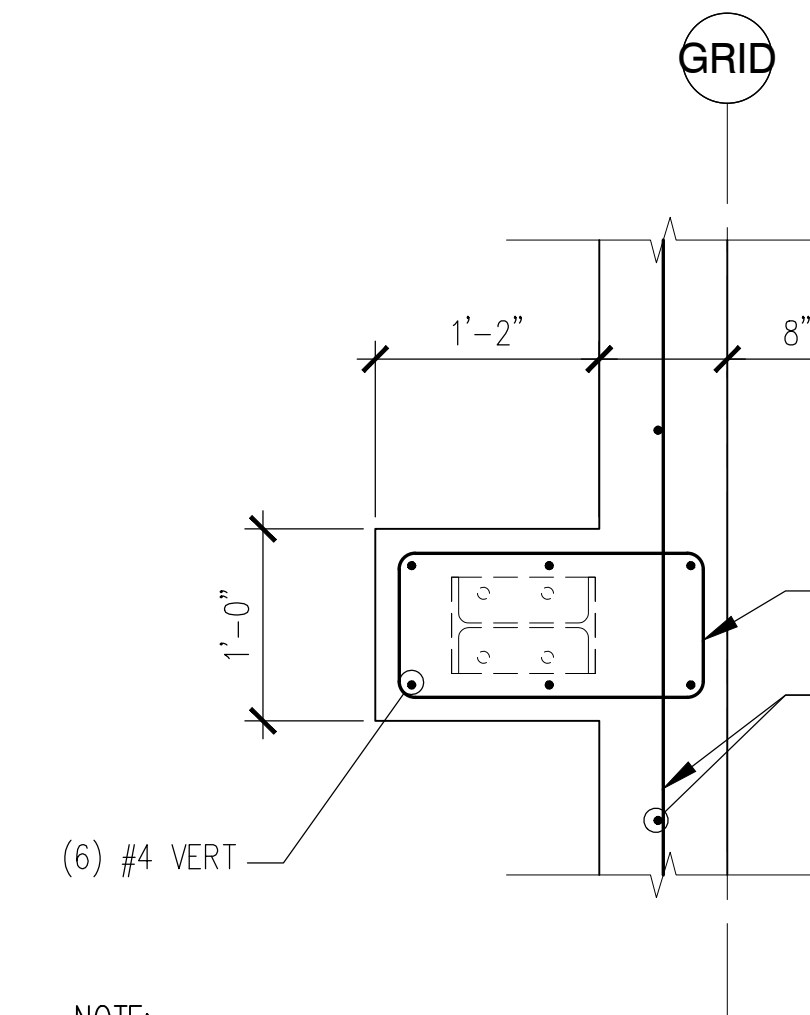
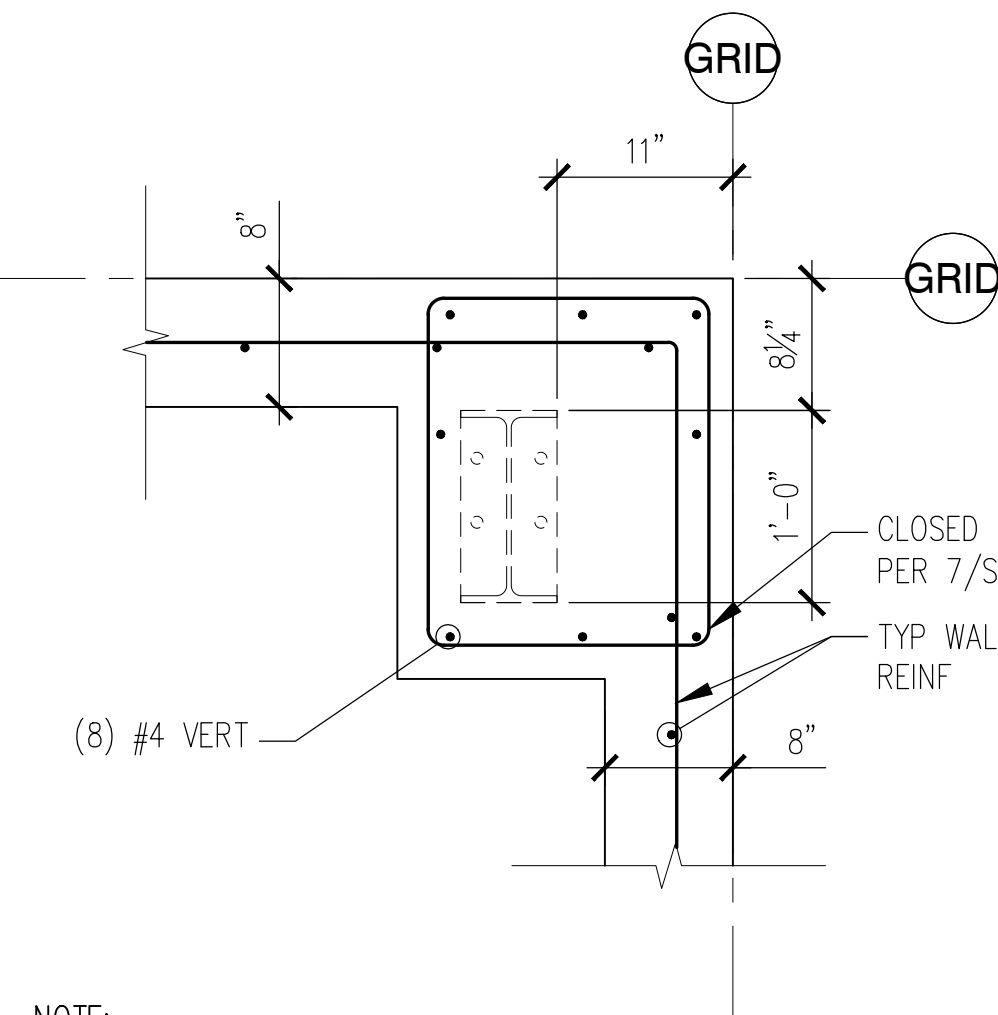
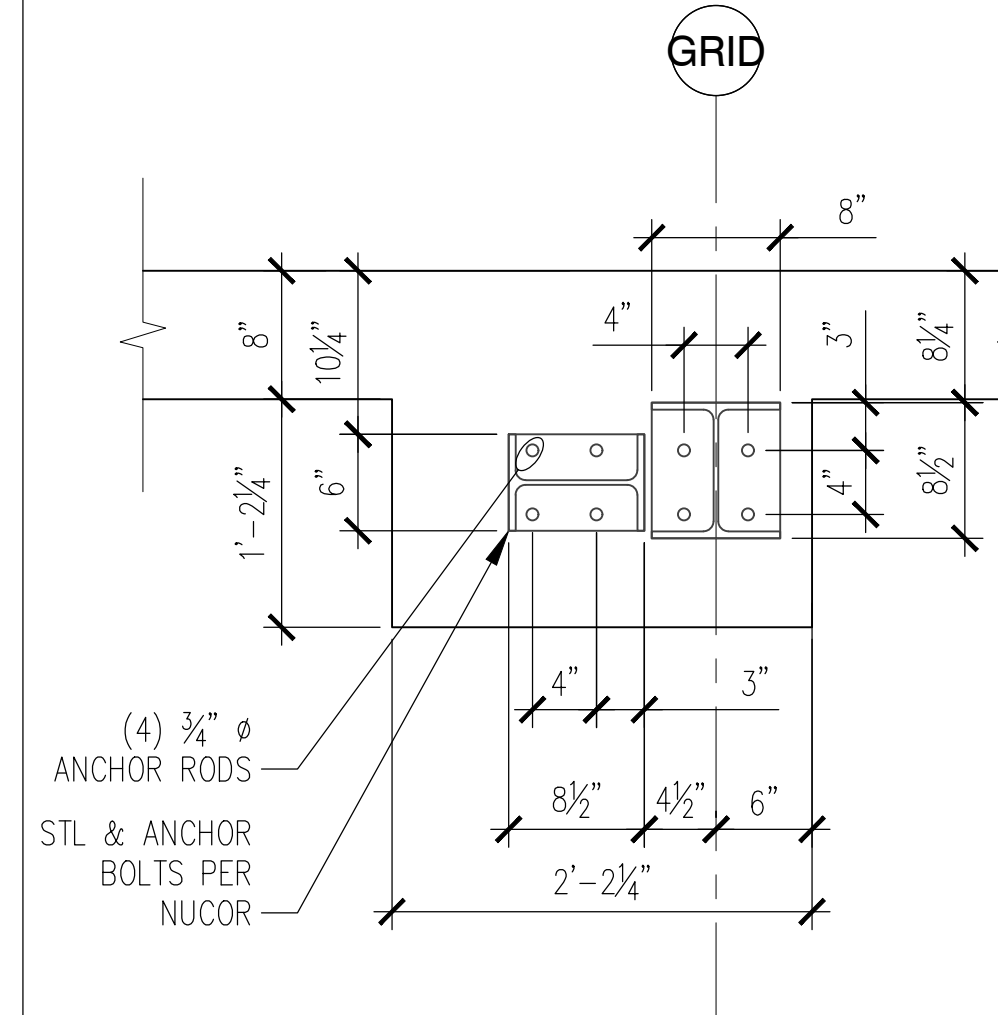
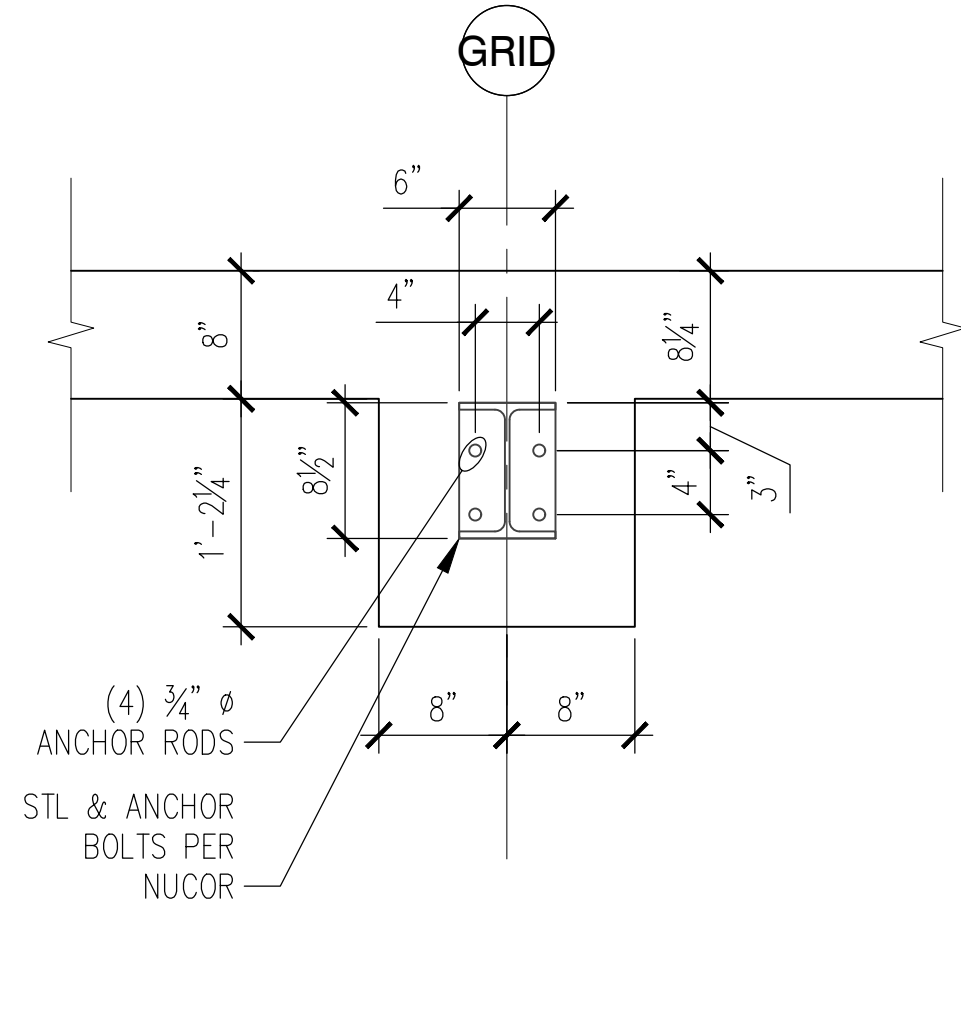
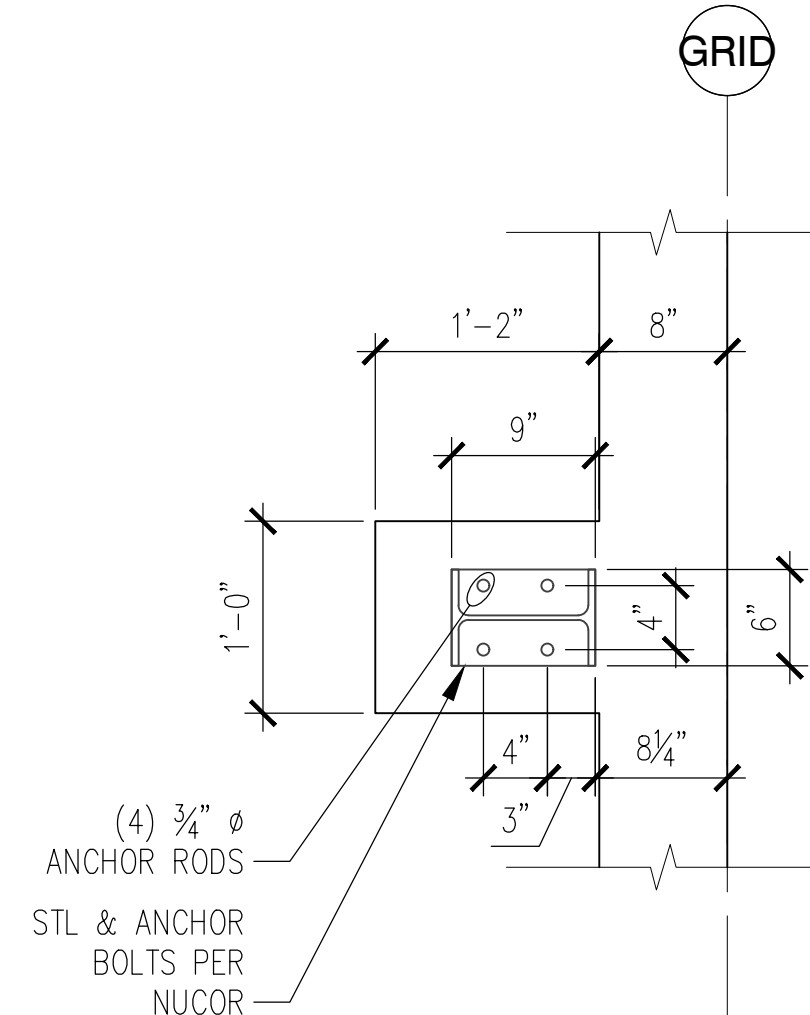
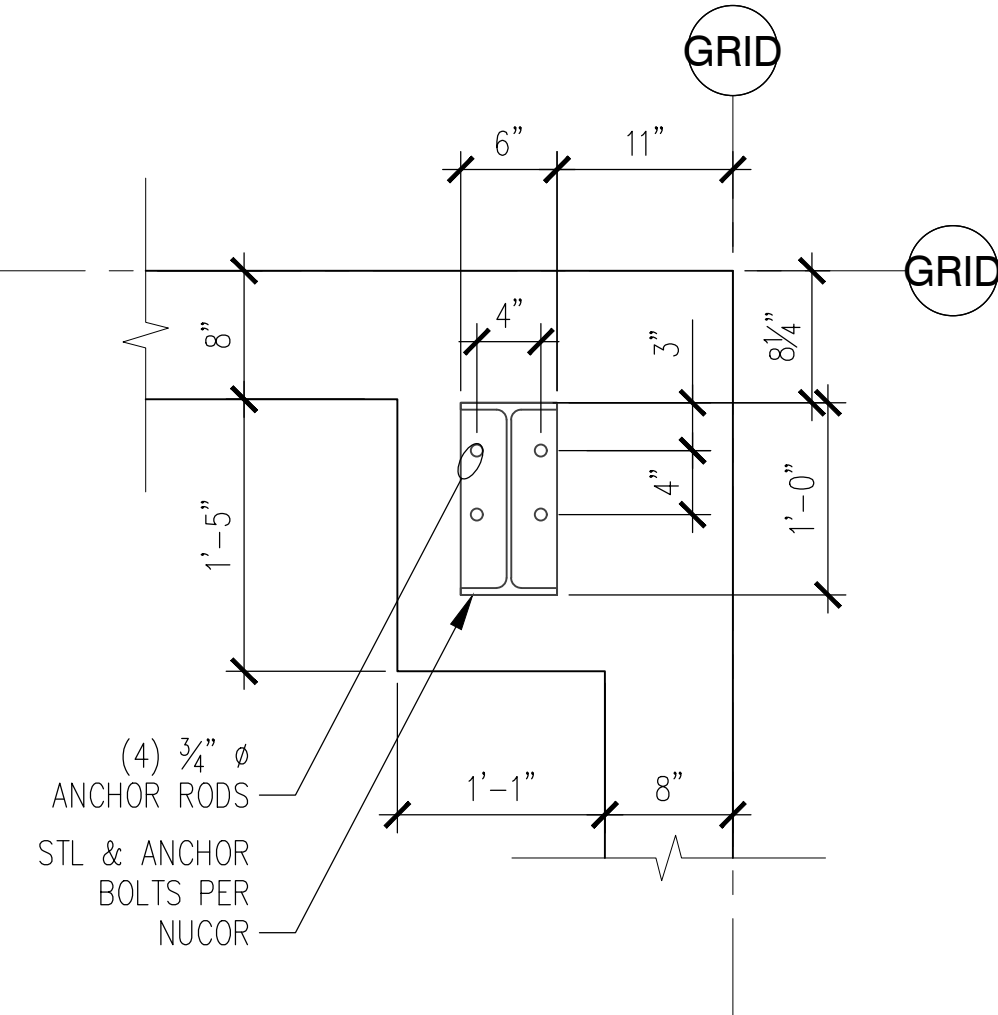
SECTION

2

1" = 1'-0"

SECTION

3



NOTE:
1. CONTRACTOR TO VERIFY DIMENSIONS AND LOCATIONS WITH METAL BUILDING DRAWINGS.
2. ANCHOR RODS SHALL BE DOUBLE NUTTED WITH PLATE WASHERS.
3. FOR 3/4" Ø ANCHOR RODS:
EMBED = 1'-2"
PROJECTION = 3" MIN

NOTE:
1. CONTRACTOR TO VERIFY DIMENSIONS AND LOCATIONS WITH METAL BUILDING DRAWINGS.
2. ANCHOR RODS SHALL BE DOUBLE NUTTED WITH PLATE WASHERS.
3. FOR 3/4" Ø ANCHOR RODS:
EMBED = 1'-2"
PROJECTION = 3" MIN

NOTE:
1. CONTRACTOR TO VERIFY DIMENSIONS AND LOCATIONS WITH METAL BUILDING DRAWINGS.
2. ANCHOR RODS SHALL BE DOUBLE NUTTED WITH PLATE WASHERS.
3. FOR 3/4" Ø ANCHOR RODS:
EMBED = 1'-2"
PROJECTION = 3" MIN

NOTE:
1. CONTRACTOR TO VERIFY DIMENSIONS AND LOCATIONS WITH METAL BUILDING DRAWINGS.
2. ANCHOR RODS SHALL BE DOUBLE NUTTED WITH PLATE WASHERS.
3. FOR 3/4" Ø ANCHOR RODS:
EMBED = 1'-2"
PROJECTION = 3" MIN

1" = 1'-0"

SECTION

4

1" = 1'-0"

SECTION

5

1" = 1'-0"

SECTION

6

1" = 1'-0"

SECTION

7

1" = 1'-0"

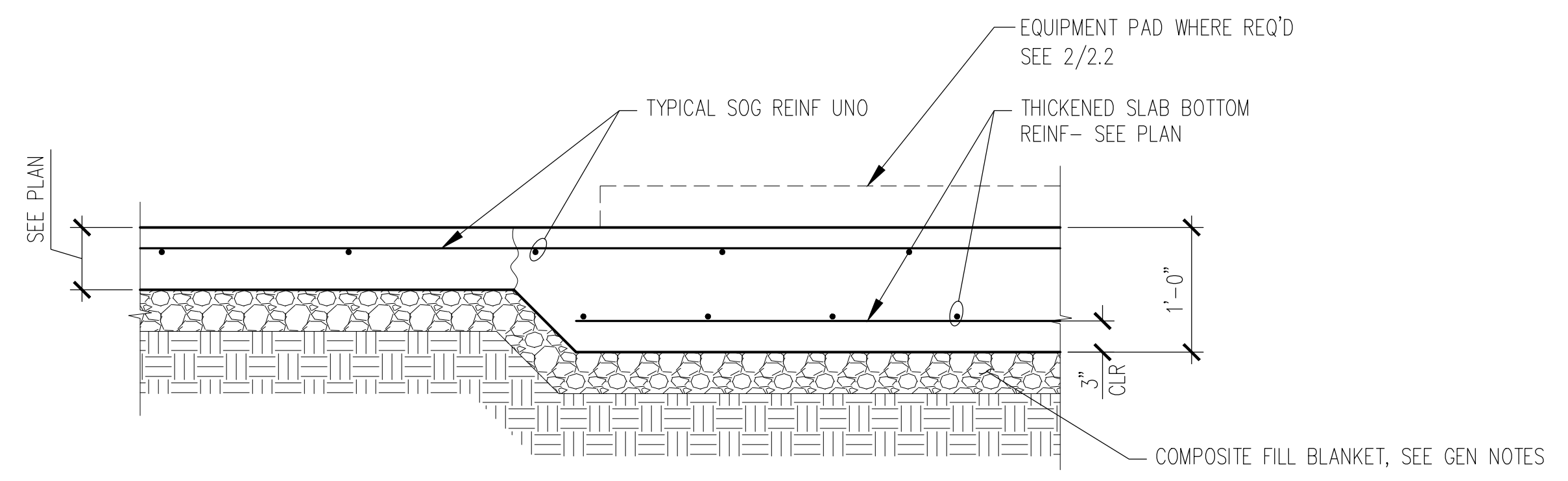
NOT USED

8

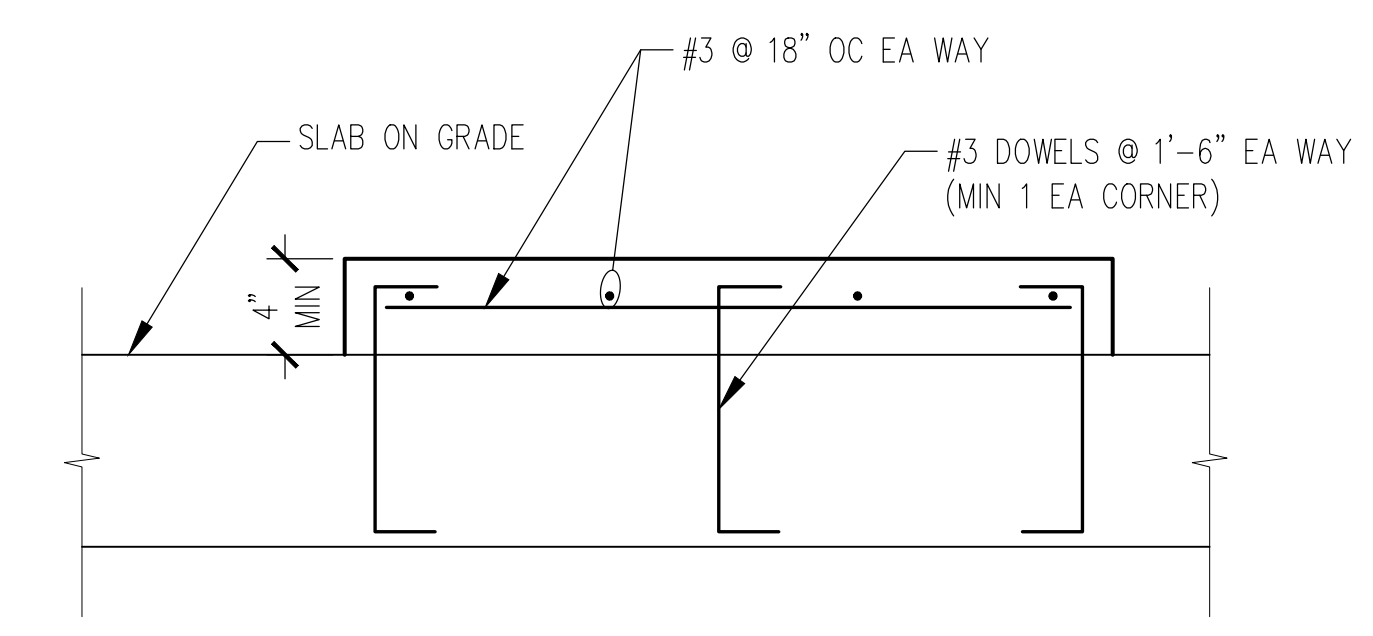
NO.	REVISIONS	DATE	BY	CHK
1	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS	JUN 22		

REVERSE OSMOSIS WATER TREATMENT PLANT
CONSTRUCTION DOCUMENTS
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

DATE	JANUARY 2022
JOB NUMBER	20-116
SCALE	AS SHOWN
DRAWING NAME	SECTIONS & DETAILS
SHEET	S2.1 OF 5

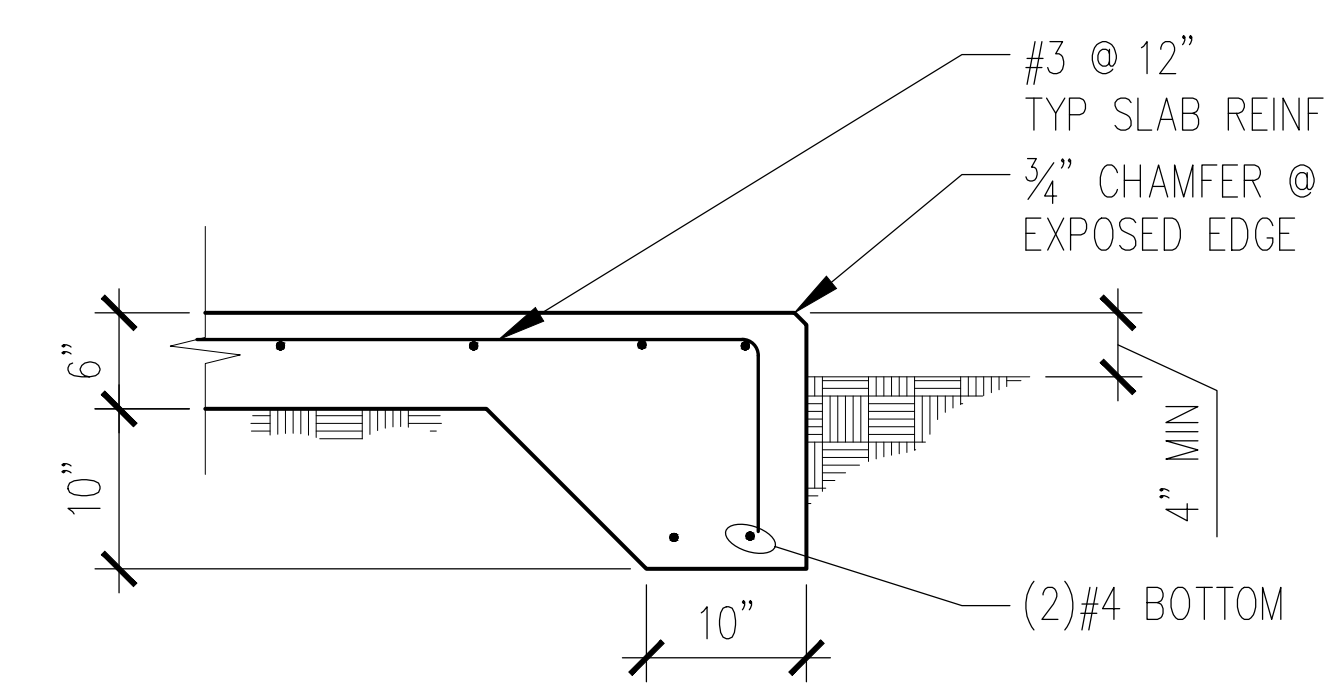


NOTES:
1. REINFORCING SHOWN ON PLAN IS IN ADDITION TO THE TYPICAL SLAB ON GRADE REINFORCING. SLAB ON GRADE REINFORCING SHALL BE CONTINUOUS THROUGH AREAS OF THICKENED SLABS.



NOTES:
1. CONTRACTOR SHALL COORDINATE THE LOCATION, SIZE AND EXTENT OF THE EQUIPMENT PADS WITH THE GENERAL ARRANGEMENT DRAWINGS AND THE EQUIPMENT PURCHASED.

1" = 1'-0" SECTION 1 1" = 1'-0" SECTION 2



NOTES:
1. SEE PLANS FOR LOCATION AND SIZE.
2. LOCATE SOG REINFORCING AT ONE-THIRD THE SLAB THICKNESS FROM TOP OF SLAB.

1" = 1'-0" SECTION 3 1" = 1'-0" SECTION 4 1" = 1'-0" SECTION 5

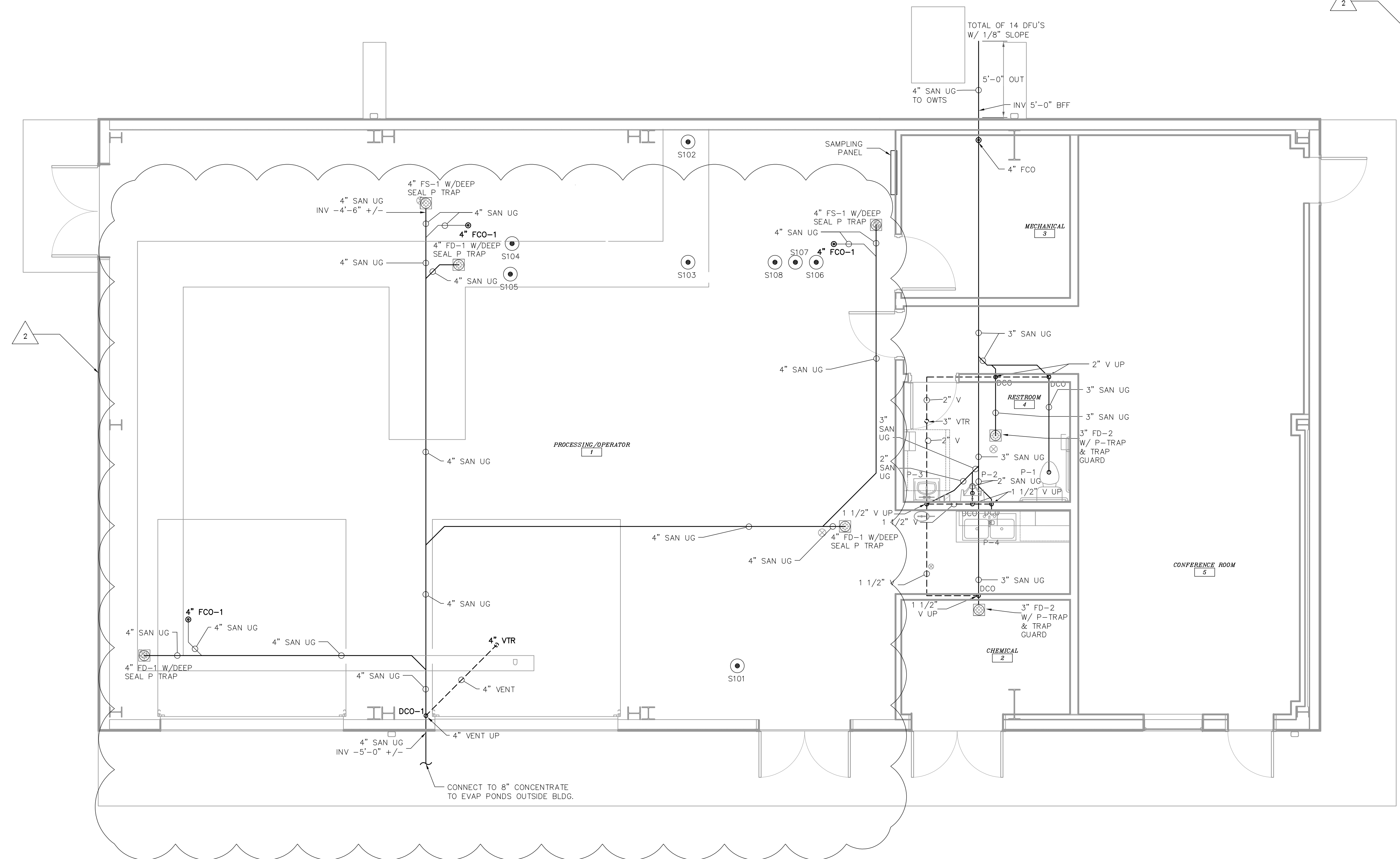
1" = 1'-0" SECTION 6 1" = 1'-0" SECTION 7 1" = 1'-0" SECTION 8

NO.	REVISIONS	DESCRIPTION	DATE	BY	CHK
1	FIELD ORDER NO. 1 -	CONCENTRATE REINSONS	JUN 22		

REVERSE OSMOSIS WATER TREATMENT PLANT
CONSTRUCTION DOCUMENTS
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

DATE	JANUARY 2022
JOB NUMBER	20-116
SCALE	AS SHOWN
DRAWING NAME	SECTIONS & DETAILS
SHEET	S2.2 OF 5

- NOTES:
1. PLUMBING CONTRACTOR SHALL INSTALL SAMPLING PIPING FROM PROCESS PIPES TO SAMPLING PANEL. REFER TO CIVIL DWGS 17 & 22 FOR ADDITIONAL INFORMATION.
 2. SAMPLING PIPING SHALL INCLUDE:
 - A. DOUBLE STRAP SERVICE SADDLE TAP SIMILAR TO MUELLER DR2A ON THE PROCESS PIPE. TAPPING SHALL BE 3/4".
 - B. 3/4" PEX X 3/4" NPT BRASS MALE THREADED ADAPTER TO CONVERT TO A PEX-A SYSTEM PER SPECIFICATIONS ON DWG P-4.
 - C. 3/4" LEAD FREE FULL PORT BRONZE BALL VALVE ADJACENT TO PROCESS PIPE.
 - D. 3/4" PEX TUBING RUNNING UNDER SLAB TO SAMPLING PANEL.
 3. THE UNDERGROUND SANITARY IN PROCESSING OPERATOR ROOM IS A COMBINATION WASTE & VENT PIPING SYSTEM



1 SANITARY AND VENT PIPING FLOOR PLAN
P-1 3/8"=1'-0"

NO	REVISIONS	DESCRIPTION	DATE	BY
1	96% PROGRESS SET		10/22/2020	TBS
2	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS		JAN 2022	TBS

REVERSE OSMOSIS WATER TREATMENT PLANT
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

PREPARED UNDER THE DIRECT SUPERVISION OF



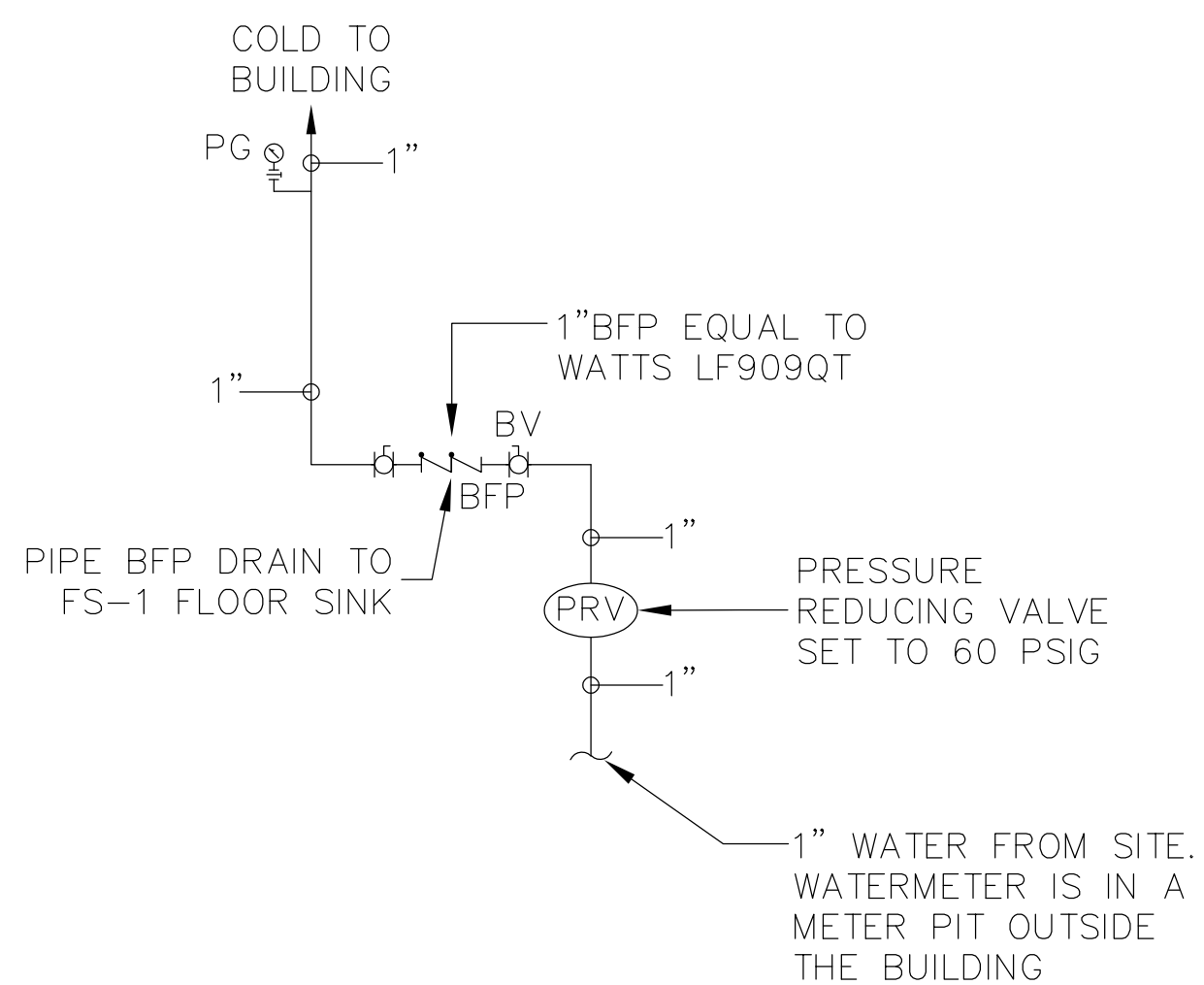
FOR AND ON BEHALF OF ELEMENT ENGINEERING, LLC

DATE: DECEMBER 2020
JOB NUMBER: 0082.0002
SCALE: AS SHOWN



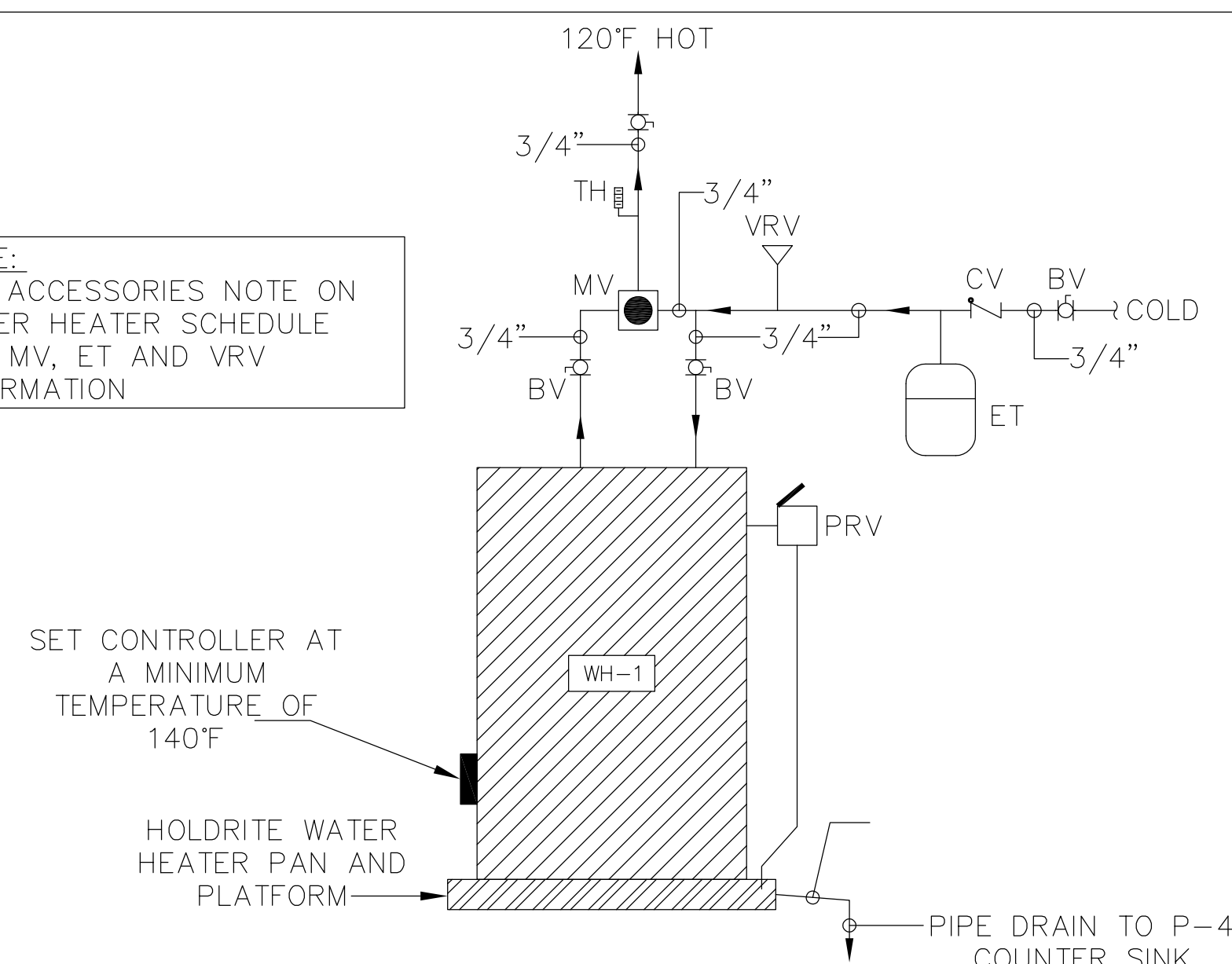
THE PROJECT MANAGER FOR THIS PROJECT IS NOTED BELOW. PLEASE REFER ALL QUESTIONS, SUBMITTALS AND CORRESPONDENCE TO THE PROJECT MANAGER.
PLUMBING PROJECT MANAGER:
MARK R. RENAUD
EMAIL: MARKR@DESIGNDAYMECH.COM
PHONE: (603) 234-8292
ADDRESS: 118 MAGNOLIA DR, GOFFSTOWN, NH 03045

DRAWING NAME: SANITARY AND VENT PIPING FLOOR PLAN
SHEET: P-1



WATER SERVICE PIPING DETAIL
NOT TO SCALE

NOTE:
SEE ACCESSORIES NOTE ON
WATER HEATER SCHEDULE
FOR MV, ET AND VRV
INFORMATION



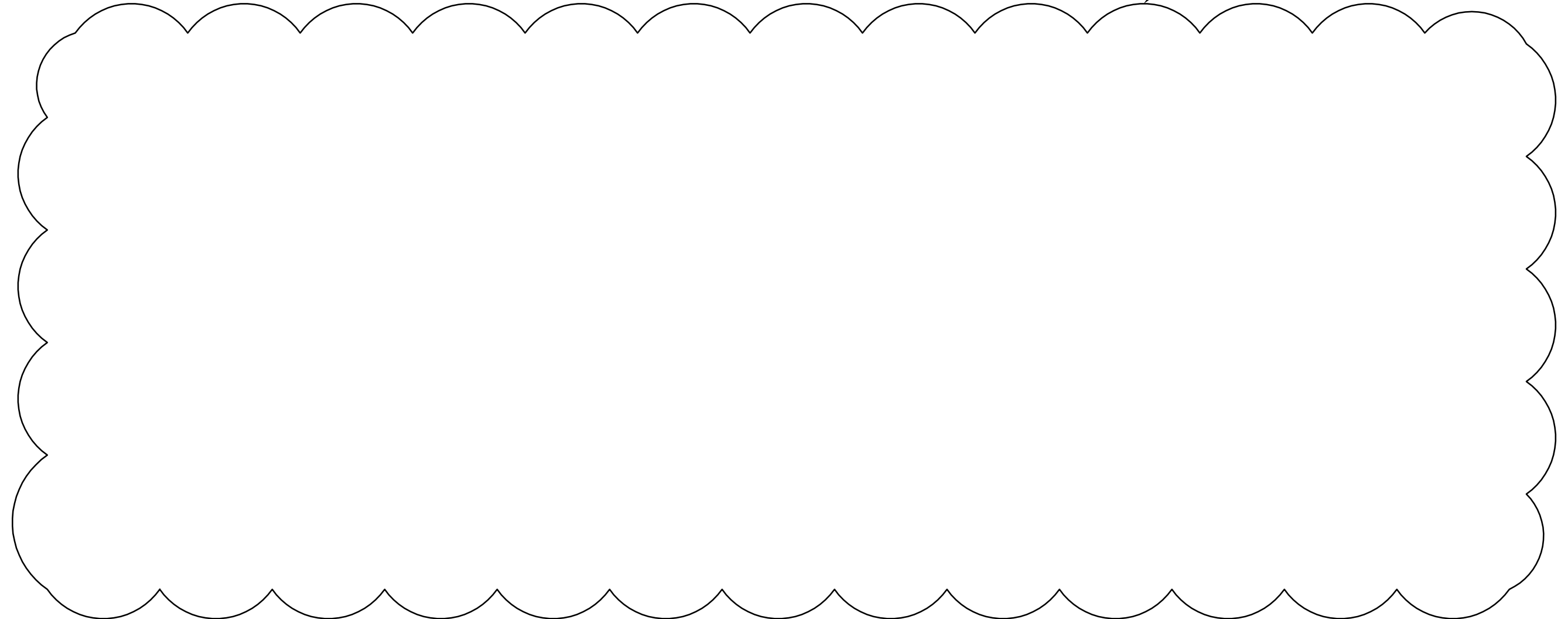
WATER HEATER PIPING DETAIL
NOT TO SCALE

LEGEND

---	SAN	UG SANITARY
---	STORM	UG STORM
---	GW	GARAGE WASTE
---	GW	GARAGE WASTE
---	PS	UG PUMPED SANITARY
---	SAN	AG SANITARY
---	VENT	VENT
---	STORM	AG STORM
---	PS	AG PUMPED SANITARY
---	CW	COLD WATER
---	HW	HOT WATER
---	HWR	HOT WATER RECIRC
○	G	GAS
⊗	CTE	CONNECT TO EXISTING BALL VALVE
⊕	MV	MIXING VALVE
⊖	ET	EXPANSION TANK
⊙	PRV	PRESSURE RELIEF VALVE
⊚	VRV	VACUUM RELIEF VALVE
⊛	BFP	BACKFLOW PREVENTER
⊜	TH	THERMOMETER
⊝	ECO	END CLEANOUT
⊞	DCO	DANDY CLEANOUT
⊟	TP	TRAP PRIMER
⊠	SA	SHOCK ABSORBER
⊡	AAV	AIR ADMITTANCE VALVE
⊢	BV	BALL VALVE
⊣	SAN	SANITARY
⊤	STM	STORM
⊥	W	WASTE
⊦	V	VENT
⊧	C OR CW	COLD WATER
⊨	H OR HW	HOT WATER
⊩	DN	DOWN
⊪	INV	INVERT
⊫	VTR	VENT THROUGH ROOF
⊬	UG	UNDER GROUND
⊭	AG	ABOVE GROUND
⊮	FD	FLOOR DRAIN
⊯	FS	FLOOR SINK
⊰	GT	GREASE TRAP
⊱	WH	WALL HYDRANT
⊲	RD	ROOF DRAIN
⊳	ORD	OVER FLOW ROOF DRAIN
⊴	AFF	ABOVE FINISH FLOOR
⊵	AFG	ABOVE FINISH GRADE
⊶	PC	PLUMBING CONTRACTOR
⊷	GC	GENERAL CONTRACTOR
⊸	KEC	KITCHEN EQUIP. CONTRACTOR
⊹	NC	NORMALLY CLOSED
⊺	HWR	HOT WATER RETURN
⊻	FCV	FLOW CONTROL VALVE
⊼	HD	HUB DRAIN
⊽	G	GAS
⊾	HWH	HOT WATER HEATER
⊿	DHWP	DOMESTIC HOT WATER PUMP
⊠	AP	ACCESS PANEL
⊡	GW	GREASE WASTE

ELEMENT ENGINEERING LLC
12667 W. CEDAR DRIVE, SUITE 300
LAKEWOOD, CO 80226
720.749.4165
WWW.ELEMENTENGINEERING.NET

Greatrock North Water And Sanitation District		Sizing per 2018 IPC Table E103.3(2)						
Domestic Water Calcs								
Fixture	Occupancy	Qty	Cold Water		Hot Water		Total	
			Load Values	Total	Load Values	Total	Load Values	Total
Kitchen Sink	Private	1	1.00	1.00	1.00	1.00	1.40	1.40
Lavatory	Public	1	1.50	1.50	1.50	1.50	2.00	2.00
Urinal, 3/4" Flushometer	Public	1	5.0	5.0			5.0	5.0
Water Closet, Tank Type	Public	1	5.00	5.00			5.00	5.00
Total WSFU				12.5		2.5		13.4
Total Predicted Flow (gpm)				16.5		6.5		17.0
Pipe Size				1"		3/4"		1"
Velocity (fps)				5.2		4.0		5.5
Pressure Drop (psi/100 ft)				5.5		4.5		6.0



MARK	DESCRIPTION	MAKE	MODEL	FIXTURE CONNECTIONS										FLOW CONTROL	FIXTURE UNITS			ACCESSORIES & NOTES	COLOR		
				SAN	VENT	TRAP	IW	COLD	HOT	140°F	ELECTRICAL	GAS	CW		HW	TOTAL	SAN				
P-1	ADA WATER CLOSET	AMERICAN STANDARD	215AA.104.020	3"	2"	INTEGRAL	-	1/2"	-	-	-	-	-	-	1.28 GPF	5.00	-	5.00	4.00	CHURCH 295CT OPEN FRONT SEAT LESS COVER, CHROME PLATED STOP WITH BRAIDED FLEXIBLE SUPPLY, WAX RING AND BRASS CLOSET BOLTS	WHITE
P-2	URINAL	AMERICAN STANDARD	6590.001.020	2"	1-1/2"	INTEGRAL	-	3/4"	-	-	-	-	-	-	0.5 GPF	5.00	-	5.00	2.00	SLOAN G2 8186-0.5 FLUSH VALVE, PVC OR BRASS URINAL SPUD	WHITE
P-3	ADA LAVATORY	AMERICAN STANDARD	0321.026.020	1-1/2"	1-1/2"	P-TRAP	-	1/2"	1/2"	-	-	-	-	-	0.5 GPM	1.50	1.50	2.00	1.00	SYMMONS S-20-0-0.5 FAUCET, CHROME PLATED GRID STRAINER, CHROME PLATED STOPS WITH BRAIDED FLEXIBLE SUPPLIES, CHROME PLATED P-TRAP, SYMMONS 7-210-CK THERMOSTATIC MIXING VALVE AND TRUEBRO 102 EZ LAV GUARD	WHITE
P-4	COUNTER SINK	ELKAY	LRAD332255-4	1-1/2"	1-1/2"	P-TRAP	-	1/2"	1/2"	-	-	-	-	-	2.2 GPM	1.00	1.00	1.40	2.00	SYMMONS S-23-2 FAUCET, STAINLESS STEEL BASKET STRAINER, CHROME PLATED STOPS WITH BRAIDED FLEXIBLE SUPPLIES AND CHROME PLATED P-TRAP	SS
P-5	EYE WASH	GUARDIAN	G-1891	1 1/2"	1 1/2"	-	-	1/2"	1/2"	-	-	-	-	-	-	-	-	-	-	PROVIDE LEONARD TA-300LF MIXING VAVE	-
P-6	HOSE BIB	WOODFORD	24CP	-	-	-	-	1/2"	-	-	-	-	-	-	-	-	-	-	-	-	CP

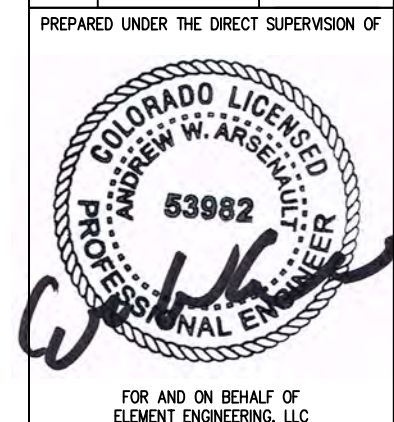
MARK	MAKE	MODEL	COLD	HOT	ELECTRIC		STORAGE		GPH RECOVERY (100°F)	ACCESSORIES & NOTES
					VOLT/PH	KW	GALLONS	TEMP (°F)		
WH-1	BRADFORD WHITE	LE120U3-1	3/4"	3/4"	277/1	3.0	19	140	12.0	HONEYWELL AM101-US-1LF MIXING VALVE, AMTROL ST-5 EXPANSION TANK, WATTS LFN36-M1 VACUUM RELIEF VALVE AND HOLDRITE 40-SWHP-WM PAN AND PLATFORM

MARK	DESCRIPTION	MAKE	MODEL	BODY	TOP	CONNECTIONS (INCHES)				SANITARY FIXTURE UNITS	ACCESSORIES & NOTES
						STORM	SAN	VENT	TRAP		
FD-1	FLOOR DRAIN	ZURN	Z-541-DG	CAST IRON	DUCTILE IRON	-	4"	2"	P-TRAP	6.00	-
FD-2	FLOOR DRAIN	ZURN	ZN-415-58-P	CAST IRON	NICKEL BRONZE	-	3"	1-1/2"	P-TRAP	5.00	PROVIDE RECTORSEAL SURESEAL MODEL SS3009V TRAP GUARDS
FS-1	FLOOR SINK	ZURN	Z-1901-2-23	CAST IRON	CAST IRON	-	4"	2"	P-TRAP	6.00	-
FCO-1	FLOOR CLEANOUT	ZURN	ZN-1400-DC	CAST IRON	DUCTILE IRON	-	SEE DWGS	-	-	-	-



THE PROJECT MANAGER FOR THIS PROJECT IS NOTED BELOW. PLEASE REFER ALL QUESTIONS, SUBMITTALS AND CORRESPONDENCE TO THE PROJECT MANAGER.
PLUMBING PROJECT MANAGER:
MARK R. RENAUD
EMAIL: MARKR@DESIGNDAYMECH.COM
PHONE: (603) 234-8292
ADDRESS: 118 MAGNOLIA DR, GOFFSTOWN, NH 03045

REVERSE OSMOSIS WATER TREATMENT PLANT



DATE: DECEMBER 2020
JOB NUMBER: 0082.0002
SCALE: AS SHOWN
DRAWING NAME: DETAILS, LEGENDS, & SCHEDULES
SHEET: P-3

GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

Project Information

Energy Code: 2018 IECC
 Project Title: New Construction
 Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
 Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Common Space Types:Office - Enclosed	725	0.93	674
2-Common Space Types:Electrical/Mechanical	2350	0.43	1010
Total Allowed Watts =			1685

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Wattage (C X D)	E
1-Common Space Types:Office - Enclosed LED: Other	1	9	48	432
2-Common Space Types:Electrical/Mechanical LED: Other	1	6	78	468
Total Proposed Watts =			900	

Interior Lighting PASSES: Design 47% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Information

Energy Code: 2018 IECC
 Project Title: New Construction
 Project Type: Exterior Lighting Zone
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Wattage	D Tradable Watts	E Allowed Watts (B X C)
Parking area	2970 ft ²	0.04	Yes	119
Total Tradable Watts (a) =			119	
Total Allowed Watts =			119	
Total Allowed Supplemental Watts (b) =			400	

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Wattage (C X D)	E
Parking area (2970 ft ²): Tradable Wattage LED: Other	1	4	80	320
Total Tradable Proposed Watts =			320	

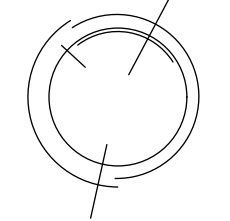
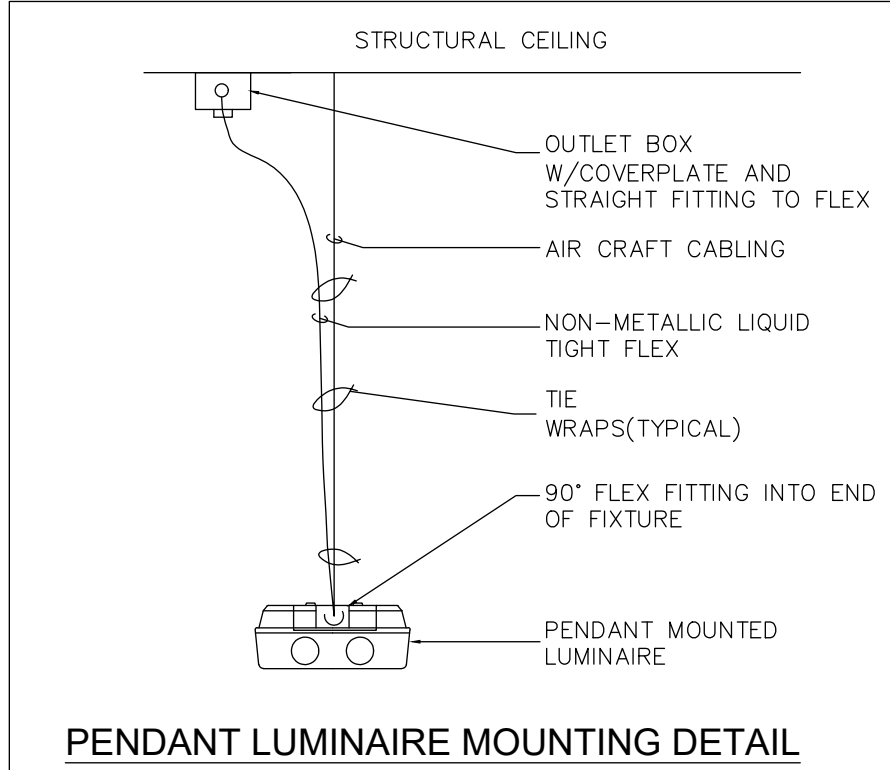
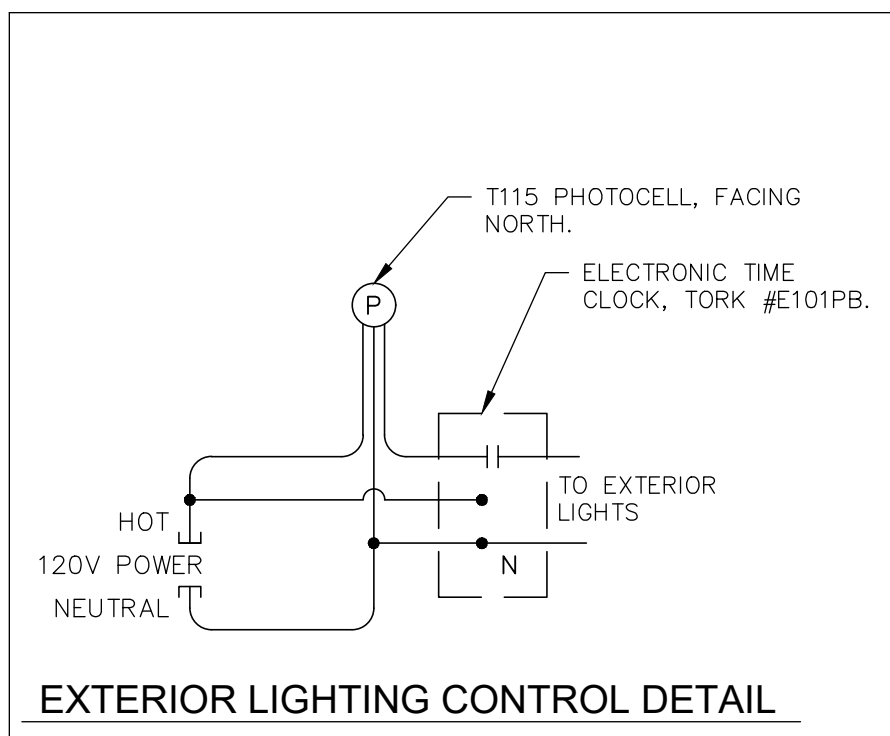
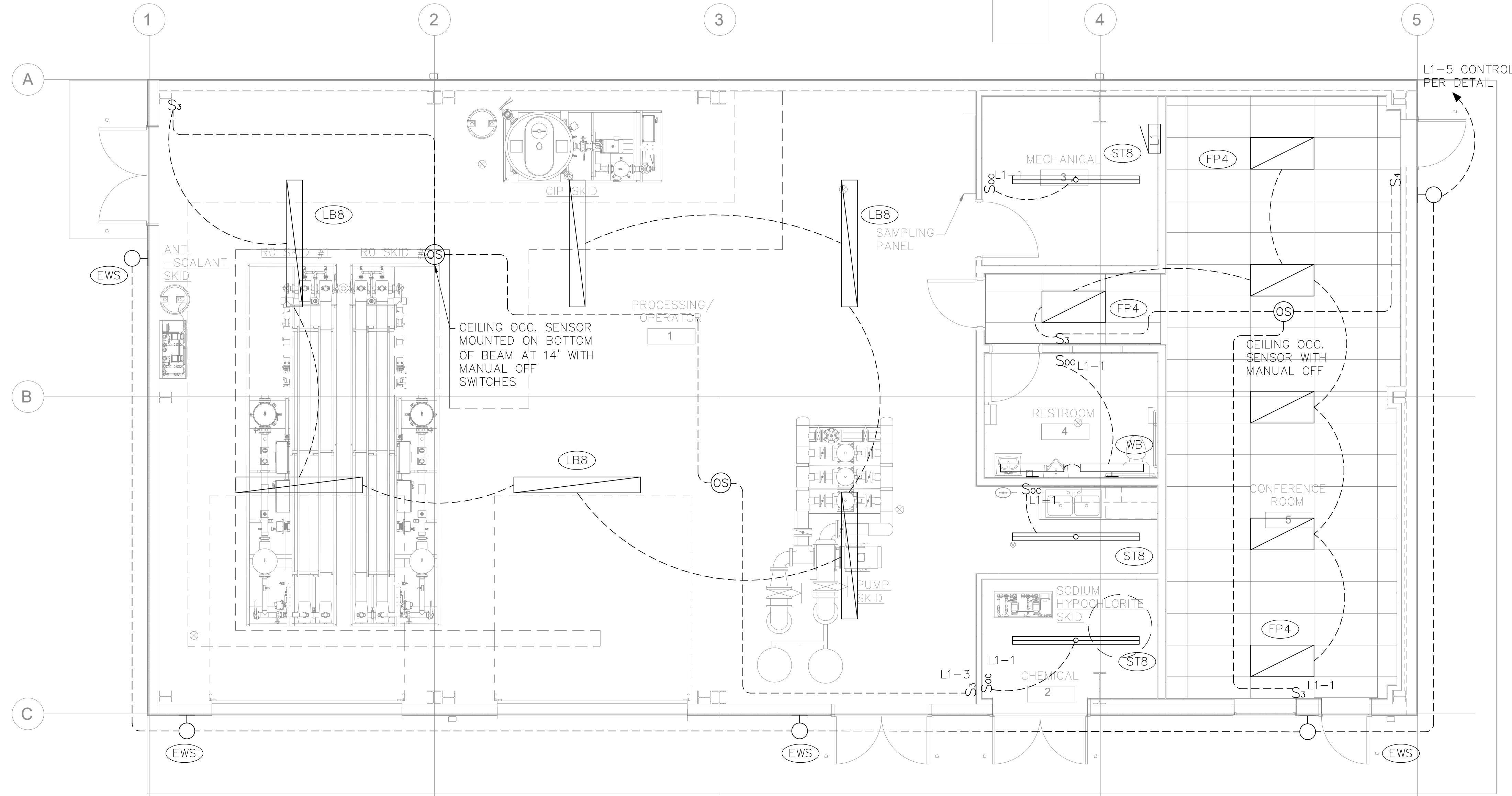
Exterior Lighting PASSES: Design 38% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

LIGHTING FIXTURE SCHEDULE

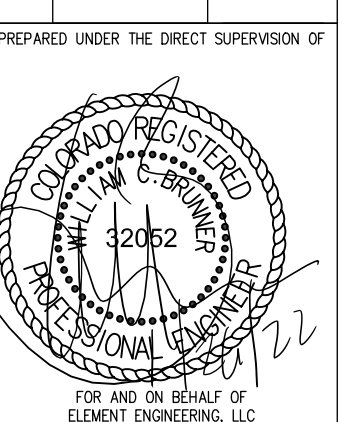
Fixture ID	Fixture Type	Voltage	Source	Color	Watts	Manufacturer	Mounting	Model Or Equal
LB8	Industrial Fixture With Clear Prismatic Lens 4000K 8' Length	120	LED	4000K	95	Columbia	Aircraft Cable at 14'	LXEM-S-401-L-RFA EU with Caddy nVent Speed Link
CFP	Edge-Lit Flat Panel Recessed 2' x 4' Lay in LED	120	LED	4000K	78	Prescotte	Recessed	MD8-LED-SL-40K-8-BMD-SL-Wide Angle Beam
ST8	Multipurpose Linear Light in 8' Length LED	120	LED	4000K	32	Columbia	Aircraft Cable at 10'	MP84-40MW-CW-ED1U with Caddy nVent Speed Link
WB4	4' Wall Bracket Surface Light Up/Down	120	LED	4000K	48	Columbia	Surface 12" from Ceiling	SAC101-W-ID-4-4-SOF-C1-40K11450-D1050-D01-1C-UNV
EWS	Wall Mounted Exterior Wall Downlight	120	LED	4000K	80	Hubbell	Surface @ 14'	SG2-80-4K7-FT-UNV-DB1-CS
COC	Ceiling Occupancy Sensor	120	LED	NA	NA	Wattstopper	Recessed	DT-300
SOC	Wall Switch with Occupancy Sensor	120	LED	NA	NA	Wattstopper	Wall	DW-100



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	NOV 21	db	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS

REVERSE OSMOSIS WATER TREATMENT PLANT
 GREATROCK NORTH WATER AND SANITATION DISTRICT
 16393 RAYBURN STREET
 HUDSON, CO 80603



RACEWAYS & GROUNDING:

- ALL EQUIPMENT, DEVICES, RACEWAYS, ENCLOSURES, STRUCTURAL STEEL, STRUCTURAL REBAR, CABINETS, ETC. SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED WITH A GROUND CONNECTION TO THE GROUND SYSTEM.
- GROUND GRID CONDUCTOR STUB-UP, PIGTAIL AND INSERT LOCATIONS SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR FOR ACTUAL FIELD CONDITIONS AND LOCATIONS.
- THE INTERIOR ABOVE GRADE CONDUIT SHALL BE RGS GALVANIZED UP TO 8' ABOVE GRADE. EXPOSED SURFACE CONDUITS BELOW GRADE SHALL BE PVC COATED RGS. CONDUIT CONCEALED IN CONCRETE CAN BE SCHEDULE #40 PVC WITH RIGID FACTORY ELBOWS.
- THE CONTRACTOR SHALL PROVIDE TYPE "FS" HUB BOXES FOR SINGLE AND TWO GANG INSTALLATIONS. LARGER JUNCTION BOXES CAN BE NEMA 4X NON-METALLIC. ADDITIONAL ELECTRICAL PULL BOXES, JUNCTION BOXES AND CONDULETS MAY BE REQUIRED TO MAKE A WORKABLE INSTALLATION AND MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- WHERE ONLY HOMERUNS AND CIRCUIT NUMBERS OR SCHEMATIC CONNECTION DIAGRAMS ARE SHOWN, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONDUITS, FITTINGS, CONDULETS, JUNCTION BOXES, PULL BOXES AND ALL OTHER NECESSARY COMPONENTS INDICATED OR NOT INDICATED ON THE DRAWINGS TO MAKE THE ELECTRICAL AND I&C INSTALLATION COMPLETE AND OPERATIONAL.
- NOT ALL RACEWAYS ARE INDICATED ON EVERY DRAWING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL RACEWAYS INDICATED IN THE SET OF CONTRACT DOCUMENTS.

CONTROL CONDUITS WIRING:

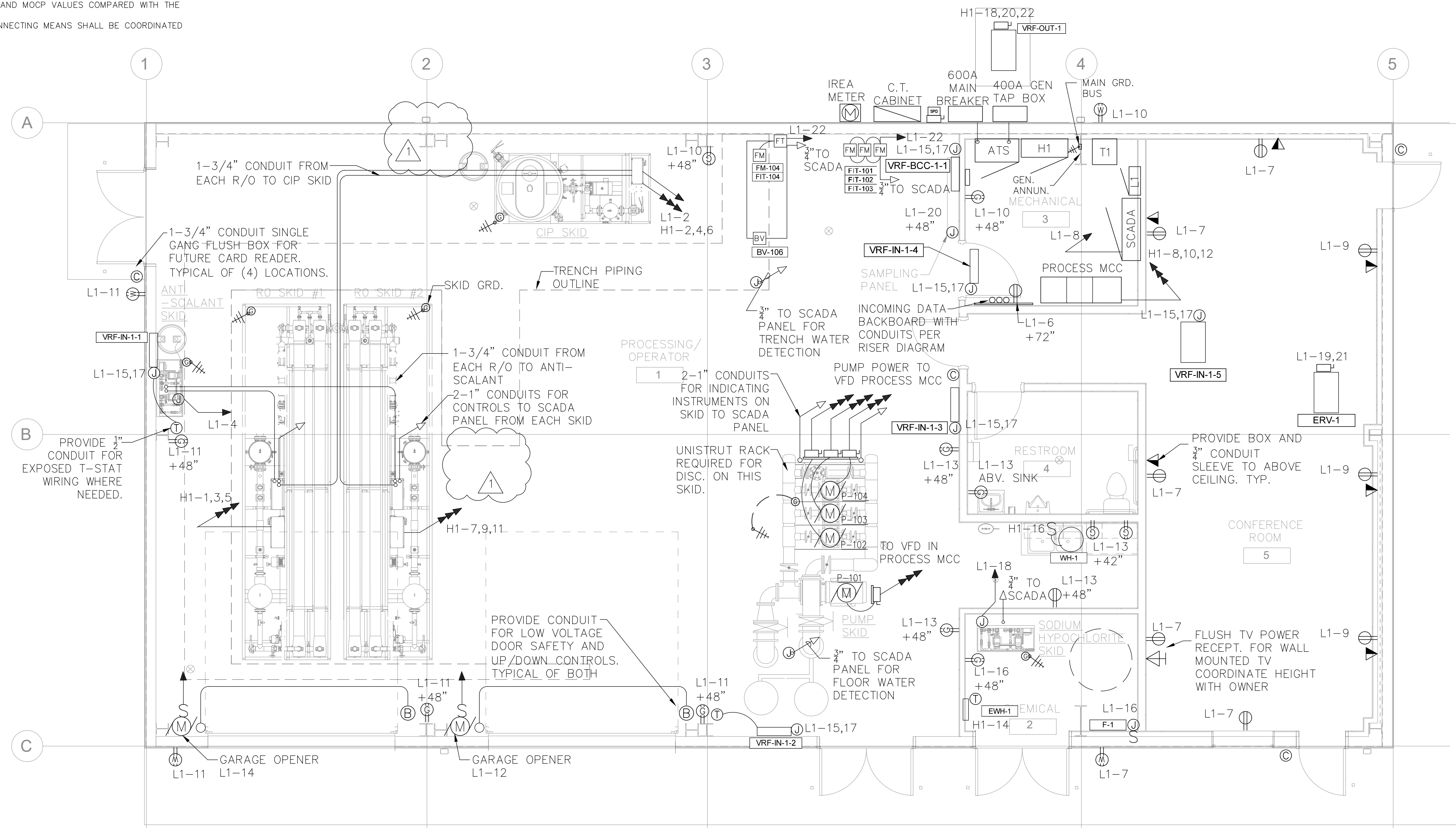
- THE ELECTRICAL PLANS SHOW APPROXIMATE LOCATIONS OF INSTRUMENTS AND CONTROL POINTS. PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES ON THE FINAL LOCATION OF EACH CONTROL ITEM. THE CONTRACTOR SHALL PLAN ON A 1/2" MINIMUM CONDUIT TO EACH POINT.
- THERE SHALL BE A SEPARATION OF POWER AND LOW VOLTAGE CONTROL CABLING IN CONDUITS, BOXES, CABINETS AND JUNCTION BOXES, UNLESS PERMITTED BY THE MANUFACTURER.

MECHANICAL AND PUMP EQUIPMENT:

- VERIFY THE LOCATION AND FINAL LOADS FOR THE MECHANICAL EQUIPMENT WITH MECHANICAL SHOP DRAWING SUBMITTALS.
- VERIFY ALL PUMP AND MOTOR DATA PRIOR TO ROUGH-IN WITH SUBMITTALS BY THE EQUIPMENT SUPPLIER.
- THE EQUIPMENT NAMEPLATE SHALL BE FOLLOWED FOR MCA AND MOCV VALUES COMPARED WITH THE DRAWINGS.
- CONTROL OF MECHANICAL EQUIPMENT INCLUDING NEC DISCONNECTING MEANS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.

FIELD INSTRUMENT CONNECTION				
TAG	120V Power	Location	Control Cable Type in Conduit	Termination
FIT-101	Yes	ALV Raw Water	TSP#18 / 1/2"	SCADA
FIT-102	Yes	LFH Raw Water	TSP#18 / 1/2"	SCADA
FIT-103	Yes	UKA Raw Water	TSP#18 / 1/2"	FIT-104
FM-104	No	Finished Water	Manf. Cable	SCADA
FIT-104	Yes	Wall Mount Trans.	TSP#18 / 1/2"	SCADA
BV-106	Yes	Ball Valve	TSP#18 / 1/2"	SCADA

Item Name	Tag #	Load Power Information				Protection and Starting				Conduit/Wire		
		Volts	Phase	Hp	KW	FLA	Circuit Breaker	Starter Type	Starter Location	Local Disc.	NEMA Rating	Copper XHHW
Booster Pump #1	P101	480	3	75	96.0	150	VFD	MCC	200	4X	1	1 1/4
Booster Pump #2	P102	480	3	15	21.0	30	VFD	MCC	30	4X	10	3/4
Booster Pump #3	P103	480	3	15	21.0	30	VFD	MCC	30	4X	10	3/4
Booster Pump #4	P104	480	3	15	21.0	30	VFD	MCC	30	4X	10	3/4
RO Skid #1		480	3	60	77.0	125	VFD	LCP	Manf.	4X	3	1 1/4
RO Skid #2		480	3	60	77.0	125	VFD	LCP	Manf.	4X	3	1 1/4
Clean-In-Place Skid		480	3	10	14.0	20	VFD	LCP	Manf.	4X	12	3/4
Anti-Scalant Skid		120	1		9.8	20	NA	NA	Manf.	4X	12	3/4
Sodium Hypochlorite Skid		120	1		9.8	20	NA	NA	Manf.	4X	12	3/4
Clean-In-Place Skid		480	3	10	14.0	20	VFD	LCP	Manf.	4X	12	3/4
HVAC Unit	ERV-1	208	1		19.8	20	NA	NA	30	3R	12	3/4
HVAC Unit	VRF-IN-1-1	208	1		0.6	20	NA	Internal	1	12	3/4	
HVAC Unit	VRF-IN-1-2	208	1		0.6	20	NA	Internal	1	12	3/4	
HVAC Unit	VRF-IN-1-3	208	1		0.6	20	NA	Internal	1	12	3/4	
HVAC Unit	VRF-IN-1-4	208	1		0.2	20	NA	Internal	1	10	3/4	
HVAC Unit	VRF-IN-1-5	208	1		1.5	20	NA	Internal	1	10	3/4	
HVAC Unit	RF-BCC-1	208	1		0.7	20	NA	Internal	1	10	3/4	
Exhaust Fan	F-1	120	1		0.9	20	NA	Manf.	3R	12	3/4	
Elect. Wall Heater	EW-1	277	1		4	14.4	20	NA	NA	TSAT	12	3/4
Water Heater	WH-1	277	1		3	10.8	20	NA	NA	Switch	12	3/4



BUILDING POWER PLAN
SCALE: 1/4" = 1'-0"

REVISION 1

ELEMENT ENGINEERING LLC
720.749.4165
WWW.ELEMENTENGINEERING.NET
12687 W. CEDAR DRIVE, SUITE 300
LAKEWOOD, CO 80228

REVERSE OSMOSIS WATER TREATMENT PLANT

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

DATE
AUGUST 2021

JOB NUMBER

SCALE
1/4" = 1'

EDITION
POWER
E-3

SHEET
3 of 4

GENERAL PROJECT NOTES:

SERVICE:

1. ALL WORK SHALL CONFORM TO 2020 NATIONAL ELECTRIC CODE ALONG WITH ANY LOCAL BUILDING CODES.
2. ALL WORK INVOLVING THE UTILITY SHALL BE REVIEWED AND CONFIRMED, PRIOR TO ANY INSTALLATION. ALL WORK TO CONFORM TO CENTER UTILITY REQUIREMENTS.
3. THE ELECTRICAL PANEL LOCATIONS ARE SHOWN IN LOCATIONS THAT NEED TO BE VERIFIED FOR PROPER CODE REQUIRED CLEARANCE.
4. ALL FEEDERS ARE TO BE COPPER UNLESS OTHERWISE NOTED, IF THE ELECTRICAL CONTRACTOR PREFERS TO USE ALUMINUM, THEY SHALL PROVIDE A LIST OF FEEDERS TO THE ENGINEER FOR APPROVAL.
5. PANEL SCHEDULES SHALL BE UPDATED AND TYPED PRIOR TO COMPLETION OF THE PROJECT.
6. THE E.C. SHALL SUBMIT ELECTRICAL DISTRIBUTION GEAR, AND GENERATOR SHOP DRAWINGS TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO FINAL PURCHASE.
7. THE E.C. SHALL PROVIDE A SHORT CIRCUIT, COORDINATION AND ARC-FLASH STUDY FOR THE NEW BUILDING SERVICE.

SITE WORK:

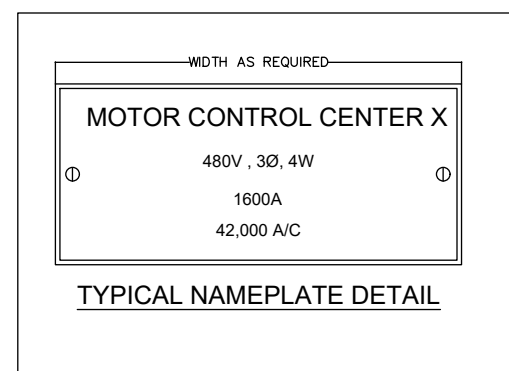
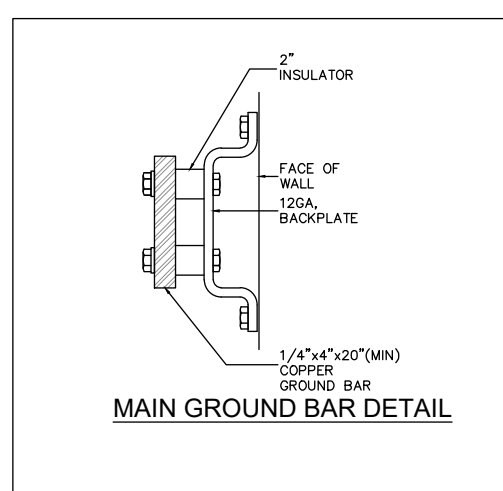
1. ALL WORK SHALL BE COORDINATED WITH OTHER UNDER GROUND UTILITIES.
2. THE CONTRACTOR SHALL FOLLOW TRENCH DETAILS FOR CONDUIT AND WIRE.
3. FOLLOW THE TABLE FOR CONDUIT TYPES PER LOCATION.

STAND-BY GENERATOR AND ATS:

1. SUPPLY AUTOMATIC TRANSFER SWITCHES IN THE AMPERAGE AND VOLTAGE SPECIFIED. SWITCHES SHALL BE (3) POLE WITH A SOLID NEUTRAL CONNECTION.
2. REFER TO DETAIL NOTES ON THE EXISTING GENERATOR MODIFICATIONS.
3. CONTROL CONDUCTORS FROM THE GENERATOR TO THE REMOTE CONTROL PANEL AND ATS SWITCHES SHALL BE VERIFIED FROM THE MANUFACTURER AND INSTALLED PER CODE.
4. TRANSFER SWITCHES TO THE ENGINEER PRIOR TO PURCHASE.
5. GENERATOR CONNECTION BOX SHALL BE A UNION CONNECTOR TYPE GCP-N-0-6-400A UNIT OR EQUAL. THE ENCLOSURE SHALL BE TYPE 3R, FABRICATED FROM GALVANIZED STEEL, AND POWDER COATED ANSI 61GRAY.
6. THE CONTRACTOR IS RESPONSIBLE TO TEST AND SHOW PROPER OPERATION OF THE STANDBY SYSTEM TO THE OWNER.

DETAIL NOTES THIS SHEET:

1. NEW FRANKLIN TYPE LIGHTNING PROTECTION SYSTEM, INSTALLED ON THE ROOF OF THE NEW PLANT AND GROUNDED TO THE NEW ELECTRICAL SERVICE. MEET UL95 STANDARD AND HAVE SYSTEM CERTIFIED BY TRAINED AND EXPERIENCED FIELD INSPECTOR.
2. THE CONTRACTOR SHALL PROVIDE A NEW 60A RK5 FUSED DISCONNECT SUPPLIED FROM CURRENT TRANSFORMER. RUN #4 XHHW COPPER FEEDS WITH THE SHORTEST LENGTH AND MINIMAL BENDS TO THE NEW DISCONNECT THEN ON TO THE NEW SURGE PROTECTIVE DEVICE MEETING THE BELOW MINIMUM SPECIFICATION:
 - a. UL 1149-3 LISTED TYPE 2 SPD IN NEMA 4X ENCLOSURE WITH REMOTE INDICATORS ON COVER.
3. THE E.C. WILL COORDINATE WITH UNITED POWER TO INSTALL NEW BUILDING SERVICE INTO THE EXISTING PADMOUNT TRANSFORMER. THE CONTRACTOR SHALL CONTACT UNITED POWER PRIOR TO ANY UNDERGROUND ELECTRICAL WORK IS STARTED TO CONFIRM THE SERVICE ADDITION.
4. THE E.C. SHALL PURCHASE A NEW 200A CIRCUIT BREAKER FROM CUMMINS ROCKY MOUNTAIN AND HAVE IT INSTALLED INTO THE EXISTING GENERATOR. ONE SET OF THE EXISTING PARALLEL #3/0 COPPER FEEDERS INTO THE EXISTING BUILDING ATS SHALL BE REMOVED AND CAPPED OFF AT BOTH ENDS. THE NEW 200A CIRCUIT BREAKER WILL BE LABELED FOR THE EXISTING BUILDING.
5. THE 400A GENERATOR POWER FEED TO THE NEW BUILDING SHALL BE RUN UP AND INTO THE EXISTING GENERATOR WITH THE USE OF FLEXIBLE CONDUIT. THE EXISTING 400A CIRCUIT BREAKER WILL NOW SUPPLY THE NEW BUILDING ATS. GENERATOR START CABLING SHALL BE INSTALLED BETWEEN THE NEW ATS AND GENERATOR.
6. THE E.C. SHALL PURCHASE AND INSTALL A 4-POINT CUMMINS POWER COMMAND REMOTE ANNUNCIATOR PANEL IN THE NEW BUILDING TO THE GENERATOR WITH A MULTI-CONDUCTOR #16 GAUGE WIRE PER MANUFACTURER.



WTP Feeder Schedule All Conductors Shall Be Copper Unless Approved

Size	Copper				Aluminum			
	Wire Size in CU, THWN	75 C Amperage Rating of Wire	Number of Sets	Metal Conduit	Wire Size in AL, XHHW	75 C Amperage Rating of Wire	Number of Sets	Metal Conduit
100.3	2	115	1	1 1/4	1	100	1	1 1/4
100.4	2	115	1	1 1/4	1	100	1	1 1/2
125.3	1	130	1	1 1/2	1/0	120	1	1 1/4
125.4	1	130	1	1 1/2	1/0	120	1	1 1/2
150.3	1/0	150	1	1 1/2	3/0	155	1	1 1/2
150.4	1/0	150	1	1 1/2	3/0	155	1	2
175.3	2/0	175	1	2	4/0	180	1	2
175.4	2/0	175	1	2	4/0	180	1	2 1/2
200.3	3/0	200	1	2	250	205	1	2
200.4	3/0	200	1	2	250	205	1	2 1/2
225.3	4/0	230	1	2 1/2	300	230	1	2
225.4	4/0	230	1	2 1/2	300	230	1	2 1/2
250.4	250	255	1	2 1/2	350	250	1	3
300.4	350	310	1	3	500	310	1	3 1/2
400.4	3/0	400	2	3 1/2	250	410	2	2 1/2
600.4	350	620	2	3	500	620	2	3 1/2

*G REFER TO TABLE 250.123 FOR UNDERGROUND RUNS OF PVC OR

Short Circuit Calculation

Fault "X"	Isc Source	Feeder Size	Conduit/Air Steel PVC	Wire Type	Constant "C"	# Sets	Length to L	Volts L	"F" Factor	"M" Multiplier	Isc at Fault	Fault "X"
X0	18.042	United Power 300kVA Padmount		CU	22736	2	155	480	0.2219	0.8184	14,765	X0
X1	18.042	350	X	CU	19703	2	20	480	0.0270	0.9737	14,377	X2
X2	14,765	350	X	CU	19703	2	15	480	0.0197	0.9806	14,058	X3
X4	14,058	350	X	CU	19703	2	15	480	0.0194	0.9810	13,830	X4

Transformer Schedule

Size in kVA	Primary Voltage	Primary Amperage	Primary Circuit Breaker	Primary Wire THHN CU	Primary Conduit THHN CU	Primary Equipment Ground Wire	Secondary Voltage	Secondary Amperage	Secondary Circuit Breaker	Secondary Wire THHN CU	Secondary Conduit	Secondary Equipment Ground	Main Bond Jumper	Grounding Electrode Wire
30	480	38	50	8	3/4	10	208	83	100	3	1 1/4	10	8	8

Note: Primary and Secondary Conductors Are Sized for 100% of Transformer Currents

Plant Equipment PANEL "H1"

Description	Circuit Breaker #	Connected Load Per Phase			Circuit Breaker #	Description
		A	B	C		
RO Skid #1	125	1	21329	3878	2	150 Clean In Place Skid
RO Skid #1	/	3			4	/ Clean In Place Skid
RO Skid #1	3	5			6	3 Clean In Place Skid
RO Skid #2	125	7	21329	44043	8	400 Process MCC
RO Skid #2	/	9			10	/ Process MCC
RO Skid #2	3	11			12	3 Process MCC
Panel L1	/	15			14	20 EWH-1
To	50	13	15368	3000	16	20 WH-1
30kVA Transformer	3	17			18	20 VRF-OUT-1
Spare	20	19			20	/ VRF-OUT-1
Spare	/	21			22	3 VRF-OUT-1
Space	3	23			24	* Space
Space	*	25			26	* Space
Space	*	27			28	* Space
Space	*	29			30	* Space
Space	*	31			32	* Space
Space	*	33			34	* Space
Space	*	35			36	* Space

Computed Loads

Lighting	1.6 kVA	125%	2.0 kVA
Receptacle (1st 10kW)	7.5 kVA	100%	7.5 kVA
Receptacle (Over 10kW)	kVA	50%	kVA
Motor Loads	195.5 kVA	100%	195.5 kVA
Largest Motor Addition	87.2 kVA	125%	109.0 kVA
Fixed Electric Heat	7.0 kVA	100%	7.0 kVA
Other Load	0.7 kVA	100%	0.7 kVA

Demand Factor

Lighting	1.6 kVA	125%	2.0 kVA
Receptacle (1st 10kW)	7.5 kVA	100%	7.5 kVA
Receptacle (Over 10kW)	kVA	50%	kVA
Motor Loads	195.5 kVA	100%	195.5 kVA
Largest Motor Addition	87.2 kVA	125%	109.0 kVA
Fixed Electric Heat	7.0 kVA	100%	7.0 kVA
Other Load	0.7 kVA	100%	0.7 kVA

TOTAL DEMAND
321.7 kVA
387 AMPS

Plant PANEL "L1"

Description	Circuit Breaker #	Connected Load Per Phase			Circuit Breaker #	Description
		A	B	C		
Office Lighting	20	1	1450	250	2	20 CIP Local Control
Process Area Lighting	20	3			4	20 Anti-Scalant Skid
Exterior Lighting	20	5			6	20 IT Data Board
Office Receptacle	20	7	1080	450	8	20 SCADA Panel
Office Receptacle	20	9			10	20 Process Receptacle
Process Receptacle	20	11			12	20 Garage Door Opener
Process Receptacle	20	13	1080	1176	14	20 Garage Door Opener
VRF Interior Unit 1-5	20	15			16	20 Chemical Room
VRF Interior Unit 1-5	2	17			18	20 Sodium Hypochlorite Skid
ERV-1 Unit	20	19	1286		20	20 Sampling Panel
ERV-1 Unit	*	21			22	20 Control Meter/Valves
Space	*	23			24	20 Spare
Space	*	25			26	20 Spare
Space	*	27			28	20 Spare
Space	*	29			30	20 Spare
Space	*	31			32	20 Spare
Space	*	33			34	20 Spare
Space	*	35			36	21 Spare
Space	*	37			38	22 Spare
Space	*	39			40	23 Spare
Space	*	41			42	24 Spare

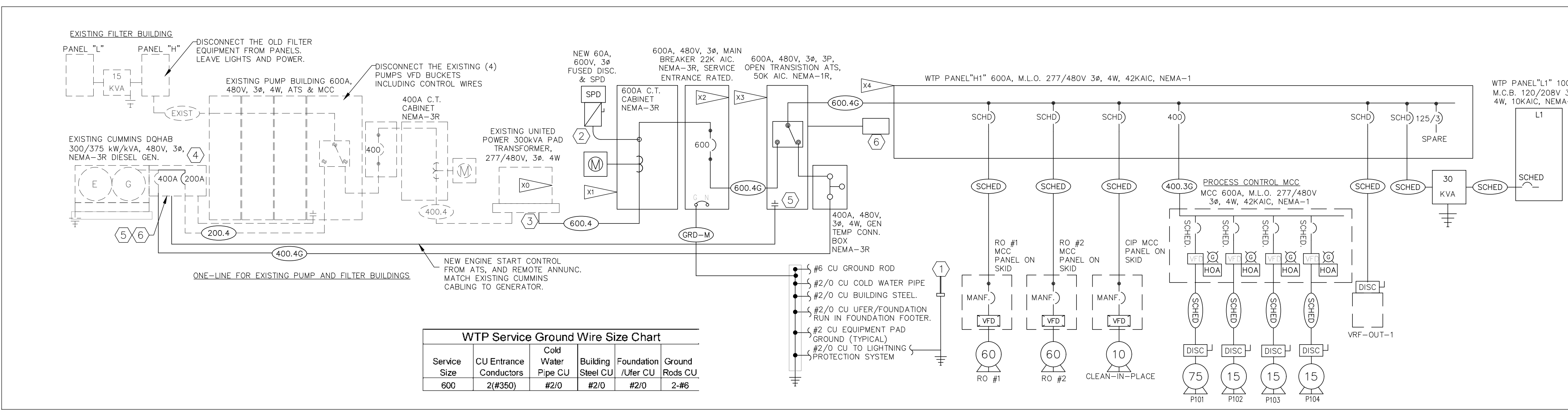
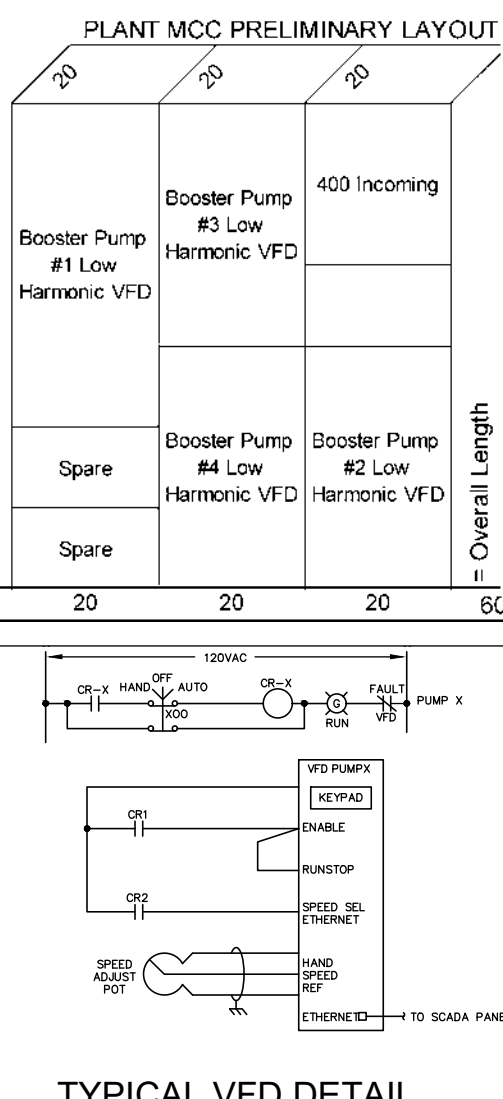
Computed Loads

Lighting	1.6 kVA	125%	2.0 kVA
Receptacle (1st 10kW)	7.5 kVA	100%	7.5 kVA
Receptacle (Over 10kW)	kVA	50%	kVA
Motor Loads	5.6 kVA	100%	5.6 kVA
Largest Motor Addition	1.5 kVA	125%	1.9 kVA
Fixed Electric Heat	0.7 kVA	100%	0.7 kVA
Other Load	0.7 kVA	100%	0.7 kVA

Demand Factor

Lighting	1.6 kVA	125%	2.0 kVA
Receptacle (1st 10kW)	7.5 kVA	100%	7.5 kVA
Receptacle (Over 10kW)	kVA	50%	kVA
Motor Loads	5.6 kVA	100%	5.6 kVA
Largest Motor Addition	1.5 kVA	125%	1.9 kVA
Fixed Electric Heat	0.7 kVA	100%	0.7 kVA
Other Load	0.7 kVA	100%	0.7 kVA

TOTAL DEMAND
17.8 kVA
49 AMPS



PLANT ELECTRICAL ONE-LINE

REVISION 1



REVISIONS

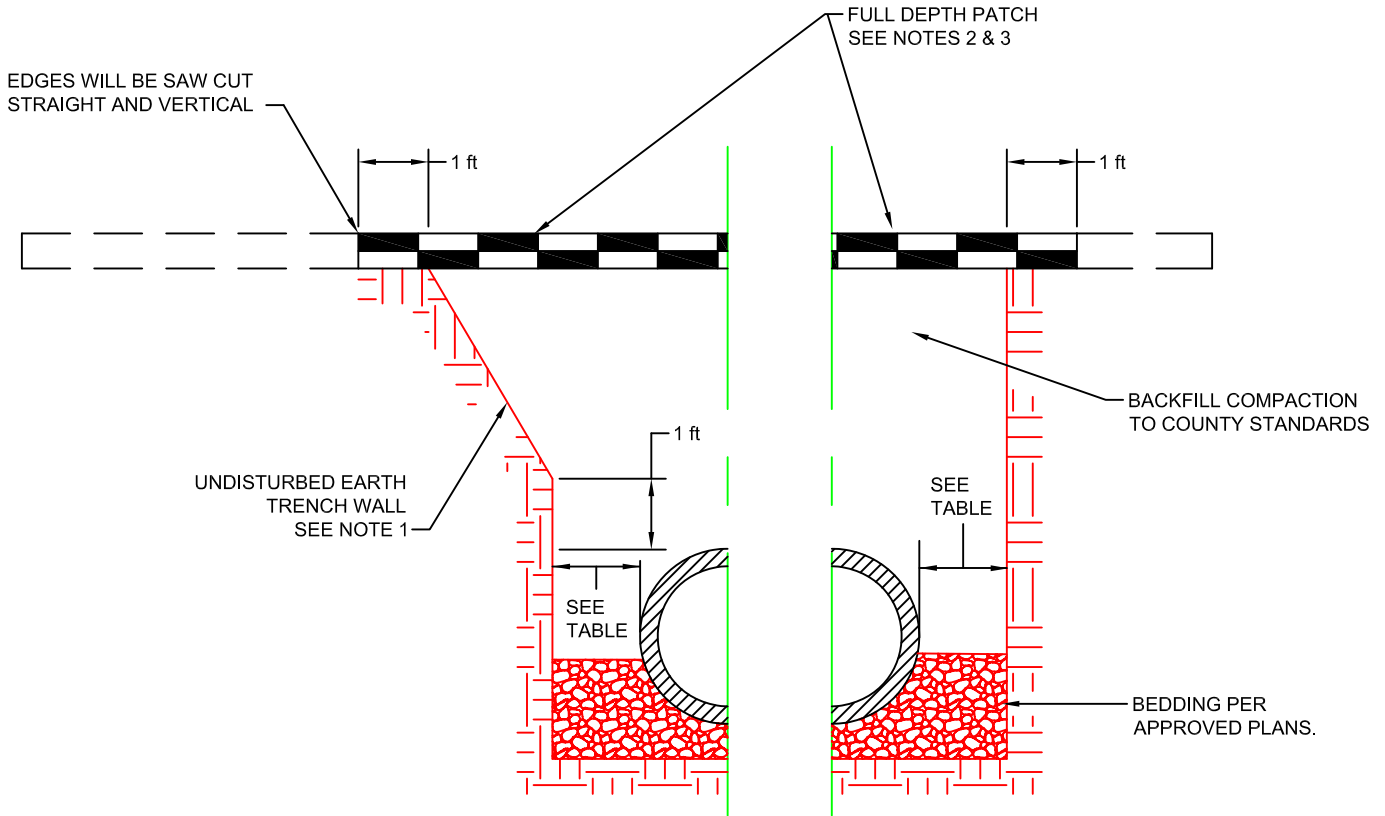
NO.	DESCRIPTION	DATE	BY
1	FIELD ORDER NO. 1 - CONCENTRATE REVISIONS	NOV 21	bb

REVERSE OSMOSIS WATER TREATMENT PLANT
GREATROCK NORTH WATER AND SANITATION DISTRICT
16393 RAYBURN STREET
HUDSON, CO 80603

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

DATE: AUGUST 2021
JOB NUMBER:
SCALE: N.T.S.
EDITION: ONE-LINE
SHEET: E-4
4 of 4



TYPICAL SLOPED TRENCH

TYPICAL VERTICAL TRENCH

1. TRENCH TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND PROTECTION OF UTILITIES IN COMPLIANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
2. ALL PATCHES SHALL BE HOT MIX ASPHALT GRADING SX.
3. TRENCH WIDTH SHALL MEET TABLE BELOW.
4. SELECT BACKFILL AND DENSITY TESTING BY OTHERS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
5. FLOWFILL WILL BE REQUIRED ON ALL TRENCH BACKFILL UNLESS OTHERWISE DIRECTED BY THE COUNTY.
6. TEMPORARY COLD PATCHING WILL BE REQUIRED WHEN HOT MIX IS NOT AVAILABLE.
7. OPEN STREET CUTS WILL HAVE THE FOLLOWING MINIMUM PATCH REQUIREMENTS:
OR MATCH EXISTING PAVEMENT THICKNESS - WHICHEVER IS GREATER
RESIDENTIAL 5 INCHES
COLLECTOR 7 INCHES
ARTERIAL OR INDUSTRIAL - 9 INCHES
8. ALL CUTS WILL BE PATCHED (OR COLD PATCHED) THE SAME DAY THE CUT IS MADE.
9. CONSTRUCTION SIGNING AND BARRICADES WILL BE MAINTAINED BY THE CONTRACTOR.
10. APPROVED TRAFFIC CONTROL PLAN WILL BE REQUIRED PRIOR TO CONSTRUCTION.

NOMINAL SIZE OF PIPE, I.D.	MAXIMUM TRENCH WIDTH AT TOP OF PIPE	MINIMUM TRENCH WIDTH AT PIPE SPRINGLINE
Less than 18"	Pipe O.D. + 18"	Pipe O.D. + 12"
18" thru 48"	Pipe O.D. + 30"	Pipe O.D. + 24"
49" or more	Must have submitted Engineering Plan	

SOIL CLASSIFICATION	MINIMUM RELATIVE COMPACTION (%)	
	AASHTO T 99	AASHTO T 180
A-1	100	95
A-3	100	95
A-2-4	100	95
A-2-5	100	95
All Others	95	90

NO SCALE

ADAMS COUNTY
TRANSPORTATION DEPARTMENT
/ENGINEERING

4430 S. ADAMS COUNTY PKWY.
BRIGHTON, CO 80601

TRENCH PATCHING DETAIL

REVISION DATE:
06/02/14

FILE NAME:
TRENCHPATCH_REV.DWG

ADAMS COUNTY
TRANSPORTATION DEPARTMENT
/CONSTRUCTION INSPECTION

4430 S. ADAMS COUNTY PKWY.
BRIGHTON, CO 80601



April 4, 2022

Mr. Brian Grandbois
Moltz Construction
975 Merchant Court
Windsor, CO 80550

Transmitted via electronic mail to: Briang@moltzconstruction.com

RE: 16393 Rayburn St Hudson, CO 80603

Subject: Greatrock Sanitary Installation (JBS No. P-1325)

Dear Mr. Brian Grandbois:

We appreciate this opportunity to propose development services in connection with the above referenced project. For fees, *JBS Pipeline Contractors* ('JBS') offers to furnish the material, labor, equipment, and subcontractors necessary to complete Work based on the following:

Bid Clarifications:

- The fee presented is reliant on descriptions herein and therefore is inseparable from this proposal. We respectfully request this proposal be attached to any resulting agreement documents; however, if it is not, this proposal predominates any resulting agreement documents and remains connected to the fee.
- Due to material pricing volatility, pricing can only be held for 15 days.
- Bid pricing relies on our assumption of payments received reasonably within 30-days of invoicing. At our discretion, overdue invoices beyond sixty-days may incur a late fee in the greater amount of \$125.00 or 1.75% of the balance added to the original invoice amount for each 30-day period past terms.
- Bid may be rescinded or renegotiated if not awarded within 15-days of issue.
- Bid relies on provided bid documents that thoroughly and accurately exhibit existing underground utilities and their appurtenances. Additional fees may be charged, including those related to down time, demobilization, and remobilization in connection with utilities discovered during work that may adversely affect or inhibit work. Please refer to Colorado Senate Bill 18-167 and C.R.S. 9-1.5 for responsibilities of Architects, Engineers, or others designing and directing work in proximity of existing utilities.
- Bid assumes that the condition of any existing utilities in proximity of work are in an adequate condition to be able to reasonably execute our work. Deteriorated or failing existing utility lines that inhibit usual installation activities may require additional engineering related direction for additional protections or temporary accommodations.
- Prior to commencing with work, we will contact Colorado 8-1-1 for utility locate markings. The locators may not mark the site if the address is not clearly posted, or access is not open to the site.

Established in 1993

8600 Verbena St. Commerce City, CO 80022

Office: (303) 289-4354 Fax: (303) 289-4353

- Bid is based on standards and specifications and tax rates of jurisdictional agencies at time of first issue. Subsequent changes to such standards and specifications that are implemented afterwards are excluded.
- We always appreciate as much notice as possible in advance of starting a project and request a minimum two-week notice in advance of mobilization. Schedule will be based on a mutually agreeable schedule and is reliant on prompt processing of submittals by Owner's designated agents. Submittals must be returned clearly identified as 'approved'; 'no exceptions taken'; or 'revise as noted' to be suitable for material ordering.
- Permit and Inspection Fees are excluded. Fees incurred by us connected to acquiring permits, scheduling inspections, or any other type of pre-construction requirements will be charged as reimbursable items at cost plus 20%. Any acquisition time spent by JBS employees will be charged at \$110.00 per hour. Such fees are exempt from retention. Reinspection fees resulting from our workmanship will not be charged.
- Upon completion of our work, we will not be responsible for damage to our completed work caused by others nor be responsible for cleanup after installation unless directly caused by us.
- Pricing assumes open access to all work areas.
- Required sales taxes (6.9% if any) are included in this pricing.
- We will hold our equipment cost as long as off-road fuel does not exceed \$4.25 per gallon.

Job Specific Notes:

- We assume existing asphalt to be 5" and therefore the replacement of asphalt to be 6". Should the existing asphalt vary, and adjustment of unit prices may be necessary.
- Due to subgrade soils road may be undermined during construction resulting in additional asphalt patching. Asphalt patch will be priced per SY.
- Due to subgrade materials flashfill will also be priced per CY
- Pricing based on plans provided by Element Engineering LLC 12687 W Cedar Drive, Suite 300 Lakewood, CO 80228 and or as follows: Concentrate Main and Impound Facilities.
 - Concentrate Line Plan and Profile. Greatrock North Water and Sanitation District.
 - Revision 01.14.2022.
 - Job Number 0082.0002 Permitting Sheets C2-C27.
- Water service lowering's are bid to be cut and coupled not taken back to the meter.
- Tie in at station 1+00.00 complete installation to station 10+20.49 cleanout

Our scope of work includes:

- One mobilization is included in our proposal.
- Traffic Control for the installation of the JBS scope of work is included in this proposal
- Bid assumes we will provide red-line mark-ups of work progress on Owner's designated plan set for the purpose of providing as-built information. As-built surveying is not included.
- Required lowering's to maintain clearance.
- Concrete replacement if driveways are impacted. Concrete will be replaced to nearest control joint. Assuming concrete 4" depth.
- Spoil haul off up to 1,340 CY. Any additional, due to road undermining, will be invoiced at \$28.50 per CY.

Our scope of work excludes:

- Deductions for participation in OCIP or CCIP.
- Weekend and night work is excluded without mutually agreed to terms and additional costs.
- Winter protections or related work.
- Snow and/or frost removal.

Established in 1993

8600 Verbena St. Commerce City, CO 80022

Office: (303) 289-4354 Fax: (303) 289-4353

- Electrical or related work.
- Erosion Control, BMP's, GESC management, or related work.
- Permits, fees, and connection charges other than specifically addressed in this proposal.
- Reconditioning of unsuitable soils, trench stabilization material, or fabric around bedding if ground water is encountered.
- Rock excavation/hard dig (material that cannot be excavated with a 20 metric ton excavator).
- Engineering, surveying, construction staking, or electronic (CAD) as-built drawings.
- As-built submittals requiring participation by the Engineer of record.
- Dewatering or related work (i.e. permits, stabilization rock, filter bags, etc.).
- Materials testing, soil testing, and compaction testing.
- Relocation or temporary support of existing utilities not shown on plans.
- Sheeting or shoring other than standard trench boxes.
- Additional excavation depth for utilities when "standard bury" is specified and no profiles are given.
- Concrete encasement not clearly shown on plans.
- Performance and Payment Bond.
- Equipment use tax.
- Builders risk insurance.
- Pollution insurance.
- Buy American provisions.
- Acquisition of easements.

Again, we appreciate the opportunity to assist you with this project. As always, if you should have questions or comments, please contact me at your convenience at 720.322.4568 or via electronic mail to: jsalazar@jbspipeline.com.

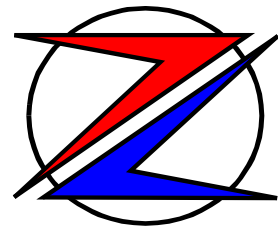
Respectfully Submitted,
JBS Pipeline Contractors



John Salazar
 Project Manager/ Estimator

Biditem	Description	Bid Quantity	Units	Unit Price	Total
10	Mobilization	1	LS	\$12,469.10	\$ 12,469.10
20	Traffic Control	1	LS	\$29,690.00	\$ 29,690.00
30	Asphalt R/R	690	SY	\$ 65.79	\$ 45,395.10
40	8" Sanitary sewer main	856.9	LF	\$ 125.00	\$107,112.50
45	Flashfill	1115	CY	\$ 204.00	\$227,460.00
50	Lowerings	4	EA	\$ 3,182.00	\$ 12,728.00
60	Load and dispose spoil	1340	CY	\$ 36.30	\$ 48,642.00
70	R/R Driveway apron	8	EA	\$ 1,514.00	\$ 12,112.00
80	Landscape repairs	8	EA	\$ 3,734.00	\$ 29,872.00
				Total	\$525,480.70

March 10, 2022



T. L o w e l l
Construction, Inc.

PROPOSAL

GNWSD - Field Order No. 1 - Concentrate Main Moltz Construction

<i>item</i>	<i>description</i>	<i>qty</i>	<i>unit</i>	<i>unit price</i>	<i>total</i>
1	mobilization	1	ls	\$ 27,600.00	\$ 27,600.00
2	construction staking	1	ls	\$ 6,960.00	\$ 6,960.00
3	GESC (for concentrate main scope)	1	ls	\$ 19,800.00	\$ 19,800.00
4	traffic control	1	ls	\$ 23,100.00	\$ 23,100.00
5	connection at sta 10+20.49	1	ls	\$ 7,400.00	\$ 7,400.00
6	connection at sta 10+01.05	1	ls	\$ 6,900.00	\$ 6,900.00
7	connection at sta 1+00	1	ls	\$ 7,400.00	\$ 7,400.00
8	8" PVC	925	lf	\$ 300.00	\$ 277,500.00
9	4" cleanouts	6	ea	\$ 6,600.00	\$ 39,600.00
10	6" hydrant lateral lowering	1	ea	\$ 10,700.00	\$ 10,700.00
11	1.5" water service lowering	5	ea	\$ 4,000.00	\$ 20,000.00
12	5" asphalt patching	600	sy	\$ 99.00	\$ 59,400.00
13	seeding	0.4	ac	\$ 9,100.00	\$ 3,640.00

TOTAL:	\$ 510,000.00
---------------	----------------------

alt	deduct to provide structural backfill in lieu of CLSM	600	cy	\$	(115.00)	\$	(69,000.00)
-----	---	-----	----	----	----------	----	-------------

NOTES & CLARIFICATIONS:

- a. proposal based on Moltz scope clarifications via email 2/15/22. We note several of these clarifications that are non-standard and should be confirmed, as follows...
 - a.1 Material for the 8" concentrate line has been bid as C900 DR18 pressure pipe w/DI fittings & MJ restraint. However, the line appears to have been designed as a gravity line and not a pressure line. Further, plan C20 calls out upstream condensate line as SDR35 PVC (non-pressure pipe). And Spec 02510-2.02.A.2 indicates SDR-35, as well, while para 3.23 - Piping Schedule, contradicts the spec by indicating C900 pressure pipe.
 - a.2 To facilitate the requested 75 PSI hydrostatic pressure test, it will be necessary to have a sealed system meaning that the gravity system cleanout assembly detail provided would need to be modified such that 4" riser terminates with a bolted flange end, with a tapt blind flange and corp stop or ball valve to manually release trapped air in the test system. The cleanout box/lid will need to be oversized to access this bolted assembly. Cleanout assemblies in a pressure system are highly unusual.
 - a.3 From plan C14, we note 4 ea ex water services to be lowered, and not 5 ea, as requested. Further, while we have bid these as 1.5" service lines, we are skeptical. Typ. residential service lines are 3/4".
 - a.4 Cross-referencing C14 and C20, there appears to be a 12" WTR line that will be required to be lowered at approx STA 9+77. However, that line was not indicated in the Moltz clarifications and has not been included.
 - a.5 We have included CLSM (flowfill) backfill within paved Adams County ROW in base bid and provided deductive alternate pricing for 100% imported select backfill. However, we would expect Adams County to only require compacted native backfill. We do not anticipate a requirement to place 800+ LF of flowfill in a low volume semi-rural residential street.
- b. proposal based on one mobilization - additional mobilizations if required will be invoiced at \$10,000 per each
- c. on site water source and meter to be provided by GC
- d. geotechnical testing excluded
- e. sales and use taxes are excluded
- f. Davis Bacon wage rates and certified payrolls excluded
- g. performance and payment bonds excluded, if required bond rate is 1.5%
- h. all items not specifically listed/included are considered excluded
- i. PVC market is extremely volatile - PVC cost adjustment will be required at time of order release

GENERAL CONDITIONS:

- work to begin on mutually agreeable date.
- adequate room to work to be provided
- no contract with liquidated damages provisions will be accepted without concurrent schedule agreement.
- payment due upon billing. Any amounts not received within thirty (30) days subject to 1-1/2% add'l charge per month.
- T. Lowell Construction, Inc. standard insurance coverages/provisions/exclusions included only. Additional insurance coverage premiums required will be billed at invoice cost plus twenty percent.
- all contract terms in conflict with this proposal to be agreed upon in writing.
- all retainage must be released within thirty (30) days of acceptance of our work scope or beneficial use, whichever comes first.
- proposal is valid with Notice of Intent to Award within ten (10) days and actual award of contract within thirty (30) days of proposal date.

CONTACT INFORMATION:

Levi A Lowell
 T. Lowell Construction, Inc.
 3211 South I-25
 Castle Rock, CO 80109
 T 303-688-2330x4
 C 303-435-5499
 E levi@tlowellconstruction.com



**GREATROCK NWSD
REVERSE OSMOSIS WTP
PAYMENT APPLICATION**

PROJECT NO: 2125 102
PARTIAL PAYMENT EST NO. **5**
PAGE 1 OF 2

OWNER: Greatrock WSD
CONTRACTOR: Moltz Construction, Inc.
PERIOD OF ESTIMATE: FROM : April 1, 2022 to April 30, 2022

CONTRACT CHANGE ORDER SUMMARY				ESTIMATE	
CHANGE ORDER NO.	Agency Approval Date	AMOUNT			
		Additions	Deductions		
				1. Original Contract	\$2,096,615.00
				2. Change Orders	\$0.00
				3. Revised Contract (1&2)	\$2,096,615.00
				4. Work Completed *	\$836,526.68
				5. Stored Materials*	\$0.00
				6. Subtotal (4 & 5)	\$836,526.68
				7. Retainage* (5%)	\$41,826.33
				8. Previous Payments	\$678,845.51
				9. Amount Due (6-7-8)	\$115,854.84
TOTALS		\$0.00	\$0.00	*Detailed breakdown attached -	

CONTRACT TIME					
Original Calendar Days =	285	Start Date =	June 14, 2021		
Revised Calendar Days =	TBD	Project Completion =	TBD		
Remaining Calendar Days =	TBD	On Schedule:	X	YES	NO


CONTRACTOR'S CERTIFICATION:
The undersigned Contractor certifies that to the best of their knowledge, information and belief the work covered by this payment estimate has been completed in accordance with the contract documents, that all amounts have been paid by the contractor for work for which previous payment estimates was issued and payments received from the owner, and that current payment shown herein is now due

Contractor: **Moltz Construction, Inc.**

By _____ Date _____

ENGINEER'S APPROVAL:
The undersigned certifies that the work has been carefully inspected and to the best of their knowledge and belief, the quantities shown in this estimate are correct and the work has been performed in accordance with the contract documents.

Engineer: **Element Engineering LLC**

By  Date **4/22/22**

APPROVED BY OWNER:
Owner: **Greatrock WSD**

By _____ Date _____



Greatrock North Water & Sewer District
ORC Report
May 3, 2022

Rocking Horse Farms Tank Fill Valve

The RHF Tank fill valve is experiencing on going issues with automatic control. REC and TLECC verified the issues are not electrical or SCADA control problem. Local CLA-Valve representative contacted to schedule site visit to inspect the valve to determine best course of action moving forward. In the meantime, tank fill is being manually controlled by REC.

Update – Local CLA-Valve Representative, Pipestone Equipment, onsite to access RHF fill valve. Pipestone Equipment believes the control issues are due to an internal pressure loss through the internal components of the valve. REC is coordinating with Element Engineering to develop plan to isolate valve for inspection. Presently there is no isolation valve with in the PRV pit and no valves indicated on plant drawings. Repair and/or replacement will need to take place during low demand season due to inability to fill tank while valve is out of service.

Update – Site walk through schedule the first week of January with Element Engineering to review site layouts and develop plans for repairs.

Update – Site walk-thru completed with Element Engineering and Moltz Construction. After reviewing of site layout and plans it is confirmed there is no known isolation valve for the RHF tank fill valve. Element Engineering and REC developing plans for repair, but it is likely an insertion type isolation valve will need to be installed prior to replacement of RHF fill valve.

Update – Element Engineering is developing scope of work for Moltz Construction to carry out repair.

Laramie Fox Hills 3 Well

The VFD for the Laramie Fox Hills has failed and will need to be replaced. Operations responded to a well failure alarm and found the VFD screen unresponsive. REC ESD was called onsite to further troubleshoot and found the VFD had experienced electrical issue causing many of the internal components to be damaged. The VFD has been bypassed allowing LFH3 to be used at full speed for augmentation. REC ESD is presently working on pricing and availability for a replacement VFD and will submit and estimate once this information is received.

Update – VFD replacement was approved during previous months board meeting however REC ESD is sourced an alternative VFD due to long lead time of the original replacement. Updated quote has been forwarded for approval.

Update – VFD for LF3 is on order with an anticipated delivery of estimated delivery of July 2022.

Augmentation

4/1/22 Augmentation of 25 gpm from UKA Well 2 shut down per instruction of BBA Water

On 4/14/22 BBA Water requested augmentation of 25 gpm begin on 4/15/22. On 4/15/22 UKA Well 2 was turned on for augmentation at 25 gpm.

Additional Services

REC assisted Generator Source with preventative maintenance and load bank testing of the generators at all three sites. No issues were identified with the generators at this time.

The 2021 annual Consumer Confidence report has been completed with anticipated delivery in during May billing cycle.

Water Quality

Month	ALV 1		ALV2		BECR		RHF		GRN	
	TDS mg/L	Hardness mg/L	TDS mg/L	Hardness mg/L	TDS mg/L	Hardness mg/L	TDS mg/L	Hardness mg/L	TDS mg/L	Hardness mg/L
April	1050	433	795	415	495	165	385	125	369	118
March					387	128	572	219	513	190
February	846	388	824	387	553	297	699	299	723	292
January					658	275	678	265	662	268
December					675	295	658	282	638	291
November	1087	451	1180	450	621	237	653	240	643	238
October					684	244	432	145	470	155
September					333	100	362	111	355	109
August	998	421	1208	547	713	315	617	261	639	272
July					654	275	615	278	648	280
June					869	394	860	383	888	390
May					779	266	765	267	749	267
April	1039	486	963	499	756	291	769	296	774	294
Minimum	846	388	824	387	333	100	362	111	355	109
Maximum	1087	486	1208	547	869	394	860	383	888	390
Average	993	437	1044	471	663	272	646	257	654	260

April 15, 2022

VIA Electronic Transmission

Robert Fleck – President
 Greatrock North Water & Sanitation Dist.
 c/o Lisa Johnson
 CLA Broomfield
 370 Interlocken Boulevard, Suite 500
 Broomfield, CO 80021-8014
lisa.johnson@CLAconnect.com

Re: Adjustment to 2022 Billing Rates

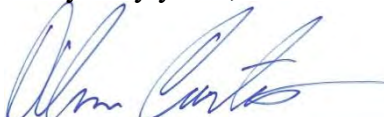
Dear Lisa:

From time to time White & Jankowski LLC adjusts its hourly rates to reflect our operational costs and the experience of the lawyers in the firm. We propose the following billing rates beginning with work performed as of June 1, 2022.

<i>Lawyer/Paralegal</i>	<i>New Hourly Rate</i>
David Taussig (Of Counsel)	\$330.00
Alan Curtis (Managing Member)	\$300.00
Virginia Sciabbarrasi (Of Counsel)	\$280.00
Melanie Cabral (Paralegal)	\$160.00
Andrea Browne (Legal Assistant)	\$130.00

If you have any questions or concerns, please let us know.

Very truly yours,



Alan E. Curtis