



Hot Springs Village POA
Cedar Creek WWTP Improvements
Project No. 24022



**ADDENDUM NO. 4 TO THE
CONTRACT DOCUMENTS**

**HOT SPRINGS VILLAGE POA, HOT SPRINGS VILLAGE, AR
CEDAR CREEK WWTP IMPROVEMENTS**

This Addendum No. 4 issued by Crist Engineers, Inc. is hereby made a part of the Contract Documents to the same extent as though it were originally included therein. Please read the following items and acknowledge receipt of this addendum on the proposal form when submitting bids.

1. Conditional Approved Equal

Engineer's acceptance of pre-approved or approved equal submissions will not relieve Contractor from his responsibility for any deviation from the requirements of the Contract Documents unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has given written approval to the specific deviation, nor shall any acceptance by Engineer relieve contractor from responsibility for errors or omissions in pre-approved or approved equal submissions.

a. Section 331419 Wastewater Valves:

Page 9, 2.11.K

"Swing check valves shall comply with AWWA C508 and shall be manufactured by Golden-Anderson Industries, Cla-Val, Val-Matic, DeZurik (APCO) or approved equal."

2. Contract Documents

a. Revise Section 004100, page 3, 6.01:

"Bidder agrees that the Work will be substantially complete within ~~600~~ 660 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions and will be completed and ready for final payment in

accordance with Paragraph 15.06 of the General Conditions within ~~660~~ 720 calendar days after the date when the Contract Times commence to run.”

b. Revise Section 005213, page 1, 4.02.A:

“The Work will be substantially completed within ~~600~~ 660 consecutive calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within ~~660~~ 720 consecutive calendar days after the date when the Contract Times commence to run.”

c. Revise Section 005500, page 1:

“On that date, Contractor shall start performing its obligations under the Contract Documents. No Work shall be done at the Site prior to such date. In accordance with the Agreement, the number of days to achieve Substantial Completion is ~~600~~ 660 consecutive calendar days, and the number of days to achieve readiness for final payment is ~~660~~ 720 consecutive calendar days.”

d. Revise Section 462323, page 12, Control System:

“One (1) NEMA 12 304 stainless steel steel MCP to be located in the HVAC room of building 360 and one (1) NEMA 4X 304 stainless steel local control panel to be located as identified on the electrical drawings permitting the equipment to operate in hand if in the event the PLC or OIT is non functional; relay or PLC-based; motor starters, HOA switches, run-time meter; float switch control”

3. Plans

**a. Revise Plan Sheet 05C326, labels:
STA 0+12**

~~“12” BUTTERFLY VALVE 12”-PV-RAS-1”~~

STA 4+10

~~“12” BUTTERFLY VALVE 12”-PV-RAS-2”~~

b. Revise Plan Sheet 20M301, labels:

~~“20PNV1 4”-PNV-GRT-1”~~

~~“20PNV2 4”-PNV-GRT-2”~~

- c. Delete Plan Sheets 195M302 and replace with Plan Sheets 195M302 Addendum No. 4.
- d. Delete Plan Sheets 195M303 and replace with Plan Sheets 195M303 Addendum No. 4.
- e. Delete Plan Sheets 195M304 and replace with Plan Sheets 195M304 Addendum No. 4.
- f. Delete Plan Sheets 195M305 and replace with Plan Sheets 195M305 Addendum No. 4.
- g. Delete Plan Sheets 195M600 and replace with Plan Sheets 195M600 Addendum No. 4.
- h. Delete Plan Sheets P-1 and replace with Plan Sheets P-1 Addendum No. 4.
- i. Revise Plan Sheet 00E200, label:

~~"FUTURE~~ LOCAL CONTROL PANEL LOCATION. PROVIDE:"

- j. Revise Plan Sheets 180M100, 180M301, labels:

In all locations: "~~6~~"TV-DEC-1" REF. 05M507, DETAIL A

In all locations: "~~6~~"8"-DEC-DIP-2"

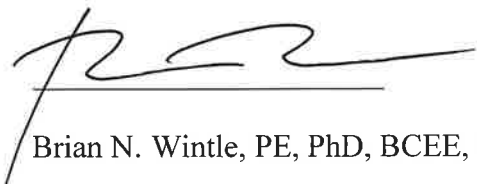
4. Contractor's Questions

- a. Please see the attached Contractor Questions and Responses, Pages 1 through 11.

End of Addendum No. 4

All other provisions of the Plans and Contract Documents shall remain in full force and effect.

Issued by CRIST ENGINEERS, INC.



Brian N. Wintle, PE, PhD, BCEE, CHMM



The Bidder acknowledges receipt of Addendum No. 4 through downloading/ receiving via Newforma. It is the bidder's responsibility to incorporate all addendum items into the contract documents (electronic and/ or paper) as though they were originally included therein.

Bidder shall also acknowledge Addendum No. 4 on Section 004100 Bid Form (C-410).



Ref No.	Question	Formal Response
1	Referencing plan sheets 05C111 and 05C112 Yard Piping North and South. These sheets do not show the structures the piping is connecting to. Please clarify.	See Addendum No. 1.
2	Regarding demo pictures 16, 39, 60 and notes that direct the contractor to clean, remove grit organics, rags etc. Can the Engineer provide a elevation that the existing liquids can be removed to by the Owner? Or, what the contractor can expect as far as quantities?	Contractor to convey biosolids from existing structure 90 to existing structure 70 to 80% water depth. Remaining 20% estimated to be inorganic solids to be removed by contractor. The owner will remove and dewater the biosolids contained within the existing structure 70 and 180 to 90% water depth. Remaining 10% estimated to be inorganic solids to be removed by contractor.
3	Referencing plans sheets 40 S 301 and 40 M 301 for the Dry Weather Storage Basin. The M drawings indicate stone backfill around the walls. The S drawings do not. Is stone backfill required?	Yes, reference note on 40-M-301. Also see Specification 312301. See Addendum No. 2.
4	Please referenced plan sheet 05C101, Note 2 regarding temporary fencing “where appropriate”. Will temporary fencing be at the Contractor’s discretion or will it be required?	Yes, at contractor's discretion to appropriately secure the site.
5	Flexible Expansion Joints are listed in spec 331113, page 21 and 333400, page 15. The specs do not however, indicate where they are to be used or on what lines. Are they to be used only where called out on the drawings or is there a general requirement for them? If there’s a general requirement, additional location information (proximity to structures) and pipe designations would be needed.	Yes, they are to only be used where called out on the drawings.
6	Please see drawing sheet 05C301. What is the termination for the 6” FM PVC 1 at station 0+00? I cannot determine whether it ties into the adjacent box or maybe connects to an existing pipe.	See Addendum No. 2.
7	Same drawing as above, please confirm the notation on station 0+23 should be 6” MJ 90 Bend rather than 4”.	See Addendum No. 2.
8	Please see drawing sheet 05C302. What happens at station 0+00 on the 6”-FM-PVC-2 line? Does it tie into existing piping or into structure 230? I cannot locate any drawings of building 230, the existing Wash Water Lift Station	See Addendum No. 2.
9	Line 6”-FM-PVC-3 on drawing sheet 05C111 has a section that appears to be labled “24”-INF-DIP-2”. Is this a mistake or is there another line somewhere that should be labeled “24-INF-DIP-2”? Also, how does this line terminate? Does it tie-in to an existing line?	See Addendum No. 2.
10	Similarly for 6”-FM-PVC-4 , 12-FM-PVC-2, 18-FM-PVC-1 and perhaps other areas where proposed piping is shown ending in the field, are these tying into existing lines? If they are tying into existing lines, to what extent should the existing, unused piping be removed and how should it be abandoned if all or part is left in place.	See Addendum No. 2.
11	Can a drawing be produced that shows the proposed piping as well as the existing piping to help show potential conflicts or the extent of existing buried piping that must be removed?	Reference Plan Sheet 00G004.
12	Do pipes under structures require encasement? If so, how much all around and should it be reinforced?	Ductile iron pipes that are to be installed under structures as identified in the schedules shall be encased per Detail H on Sheet 00SZ02.
13	Where are thrust blocks required?	No thrust blocks required. All restraints are per Plan Sheet 05C501, Detail A and in accordance with Sections 331113, 333400 and 400520.
14	Spec 333400-12, paragraph J states that ‘couples’ shall be coated with fusion bonded epoxy. Should that be interpreted that where new pipe connects to existing, a coupling, for example EBAA 3800, should be used verses an asphalt coated DI MJ Solid Sleeve?	Couples or solid sleeves are allowed in accordance with Spec. 333400-13, 2.8.1. and shall coated according to Spec. 333400-12, 2.6.J.
15	Drawing sheet 05C314 calls out valve 1”-AVRV-TWAS-2. I cannot locate it on the valve schedule. Should it be added to the valve schedule or is it mis-named on the drawings? It appears that perhaps it should be identified as 1”-AVRV-TWAS-1, which is on the schedule.	See Addendum No. 2.

16	See drawing sheet 05C314. Should the 60" Vaults for 1"-AVRV-TWAS-2 and 4"-RD-TWAS-1 have a 36" diameter opening in their bases or should they be solid? There does not appear to be any 2" drainage PVC DWV under these MH's. Should the 60" vault for the Rupture Disk have a flat top and vent similar to the AVR V vaults?	See Addendum No. 2. Rupture disc detail shown on Plan Sheet 05C505, Detail C.
17	I cannot locate a spec or detail for process floor drains. Please provide.	Floor Drains provided may be in accordance with Section 221100.
18	Please clarify the following by Addendum. The Rolling Stairs and Platforms shown on the Drawings (20 Series and 195 Series), do not appear to be sized per the models/sizing listed on page 2 of Section 055136. Based on the manufacturer's data sheets attached, please clarify the model and size required for each of the five locations listed	Model numbers identified in Section 055136 shall control.
19	SC-7.02.C – Please provide the engineers engineer's overtime pay rate and any additional rates that may apply.	The intent of this section is that there be a mechanism for if excessive work outside of normal business hours if pursued by the Contractor than the Contractor will provide for compensation to the Owner's representatives for work outside of normal business hours. However, in practice, if the Contractor does not exceed ~48 hours per week requiring Owner's representatives staff to be onsite or regularly work on the weekends or holidays then exercising of this section is unlikely to be pursued.
20	Is this a BABA project? -If not Section 33113 2.2.4 Calls for "All steel pipe shall be manufactured in the USA." -If not Section 400531 2.2.A.4 Calls for "all pipe to be manufactured in the USA, using domestic materials." Is this correct?	The Project is not required to be Build America, Buy America Act Compliance.
21	Section 400557 Electric Motor Actuators 1.4.B states, "electric motor actuators for slide gates shall be manufactured by Limitorque, Auma, or pre-approved equal. Section 400559 Slide Gates & Weirs 1.7 Acceptable mult-turn electric gate actuators, states Limitorque and Rotork. Which is correct?	See Addendum No. 2.
22	MCC-M4 Electrical Schedule is incomplete and is missing 110CD104, 110CD103, 110PMP103 & 110PMP104. Can we get an updated schedule to capture the breakers and starters needed for this equipment?	Starters are included in 110-CP-3, 110-CP-4, 110SP-CP-3, and 110SP-CP-4 (Refer to civil schedule notes). Refer to keyed note 5 on 00E240 for breaker sizes required in MCC-M4. The schedule for MCC-M4, see Addendum 02.
23	Where will LP-Chem get its source of power from?	Refer to Keyed Note 10 on 00E100.
24	The door schedule on sheet 360-S-502 lists doors D1 and D14 to have a FRP frame and steel door. These are the only openings listed to have a fiberglass frame. Is this an typographical error?	See Addendum No. 2.
25	Spec section 08 33 23 for overhead doors calls for explosion proof motors and controllers in paragraph 2.05E. Please confirm this is required as it will greatly affect pricing. Also, please confirm the requirements of paragraph 2.05F.	See Addendum No. 2.
26	See drawing sheets 05C111 and 05C317. On 05C111, there's a line marked 4"-SCUM-PVC-3 running N-S between the Future Clarifiers with what may be a line off of a TEE about midway, running E-W between Clarifiers 1103 & 1104. This branch off the TEE appears to be labeled 4"-SCUM-PVC-4. Please confirm that these lines are FUTURE. Also, if these lines are future, should a TEE and Plug be installed on 4"-SCUM-PVC-4 (that runs between 1103 & 1104) to receive them in the future? Sheet 05C317 shows a line crossing 4"-SCUM-PVC-4, which is the branch off of the TEE. There does not appear to be any profile drawings of these lines in question.	See Addendum No. 2.
27	Drawing 05C111 shows the 12"-RAS-DIP-1 line running under structure 290, identified as Chemical Storage 2. Although structure 290 is shown on demo drawing 00D101, and boxed around, we cannot find anything stating that this structure gets demolished. Does this structure get demolished? If not, how should 12"-RAS-DIP-1 be routed around it?	See Addendum No. 2.
28	Regarding the retaining wall shown at the Dewatering Building Sheet 195-S-101 and other locations. Does this wall have/require handrail at the top? We did not see any.	Handrailing at this location is not required. However, see Addendum No. 2.
29	On Sheet E310, three conduit runs are shown from Plant-PLC-1 to the MCCs located within that building; however, there is no description provided for these conduits. Can a conduit schedule or additional detail be provided for clarification?	Refer to the Control I/O drawings for wiring required between the MCCs and Plant-PLC-1. Size conduit as directed by General Note A. If conduit is shown but no wiring is required on the Control I/O, make the conduit a 1" spare conduit.

30	For the duct bank outside of Building 350, should we assume the conduits will stub up on the exterior wall and transition to overhead conduit routing to the respective equipment, or should we plan to saw cut and remove portions of the building floor in order to install the conduits underground?	See Note 4 on 00E310.
31	Is cable tray permitted within electrical rooms?	Cable tray is not permitted.
32	Please clarify whether detail I on sheet 00-SZ-07 applies to all pipe penetrations, whether the structures are existing or new. On sheet 90M104 (for example), although not called out as concrete pipe collars, there are what appears to be faint rectangles drawn over the footing where the new 24"-MLSS-PVC-7 & 8 enter the two new Oxidation Ditches. We are not sure what these rectangles are depicting.	See Addendum No. 2.
33	Please see drawing sheets 05C330 and 50M101. The same 24" valve appears to be marked 24"-PV-INF-4 on 50M101 but 24"-PV-MLSS-1 on sheet 05C330. Both mark numbers are listed on the valve schedule.	See Addendum No. 2.
34	Drawing 50M101 shows a 24" valve marked 24"-PV-MLSS-2 but it does not appear to be on the valve schedule.	See Addendum No. 2.
35	Drawing 05C330 and 70M100 has two 24" MJ valves marked 24"-PV-MLSS-3 & 4. These valves cannot be located on the valve schedule.	See Addendum No. 2.
36	Per the dwgs sheet 00G004.13.A.d calls for a 250 sqft trailer for the engineer. The specifications call for a 400sqft trailer, which is correct?	See Addendum No. 3.
37	Drawing Sheet 195-S-503 Detail A – what type of soffit material is required?	Provide fiber cement board soffits with vents. Off-ridge vents shall also be provided in the roof meeting IBC requirements.
38	After becoming more familiar with the project construction requirements and reading the suggested sequence of construction it is not our opinion that the project can be substantially completed in 600 days. We believe that it will take 600 days to complete the addition and required startup and an additional 270 days for the renovations to the existing plant, for a total of 870 for substantial completion. With an additional 60 days for final. This would be a total of 930 days. Please consider this request for additional time.	See Addendum No. 4.
39	Although I may be overlooking it, I cannot seem to find the elevations of 24"-MLSS-PVC-6, 7 or 8 where they enter the Ox Ditches. These are the Ox Ditch influent lines, shown on drawing sheet 90M104. Please provide.	CL elev. of 24"-MLSS-PVC-6, 7, 8 is 489.47+/- as shown on plan sheet 00GI010. See addendum No. 3.
40	See sheets 100M101, 102 & 301 and 110M102. Does detail I on 00-SZ-07 (conc wall collar) apply to the 24"-MLSS-DIP-4 & 5 lines where they exit the Splitter Box or does detail H on 05M504 apply (core w/ link seals and nonshrink grout)?	Yes, structure 100 is an existing structure.
41	Also, on the same lines referenced on question 2, the first fittings out of Splitter Box are 90° bends, which turn the lines down into the ground. In the fitting's table, they are listed as MJ however graphically they are flanged. Please confirm these 90° bends are to be flanged.	Yes, all below grade fittings are MJ unless otherwise indicated.
42	The elevations and fittings shown on line 24"-MLSS-DIP-4 on drawing sheet 05C311 do not appear to match what's shown on 100M301 and 110M301. Please confirm that the elevations and fittings shown on 100M301, 110M301, etc. on mechanical drawings are correct.	See Addendum No. 3.
43	Drawing sheet 05C331 (24"-MLSS-DIP-4) includes 3ea anchor collars. Drawing sheet 05C332 (24"-MLSS-DIP-5) does not list or show anchor collars but is a similar line. Are anchor collars required on 24"-MLSS-DIP-5?	Detail 00-SZ-07 only apply to connections to existing structures.
44	See sheets 100M101 and 05C333. Please confirm that a pipe connects the effluent box of existing Clarifier 1102 to the effluent box of existing Clarifier 1101. The presence of an existing pipe is the only conduit I can find for Clarifier 1102's effluent to reach the Tertiary Filters.	Confirmed, see 00G004 and Section 014000, page 10, 1.20.
45	What is happening on sheet 05C333 (existing clarifier effluent to new Tertiary Filters)? Are we intercepting the line that went to the existing Tertiary Filters, effectively taking the existing filters out of service or is the intent to install a wye in order to run both the new and existing filters? Looking at 130-S-101 (UV structural mods) it appears that the existing filters will in fact be taken off line.	The intent is that when the new connection is made that secondary clarifier effluent will only travel to the new tertiary filters thus taking the existing filters out of service.
46	If the existing Tertiary Filters are abandoned, to what extent should the buried piping entering and exiting be demolished? Only what's required to make new piping tie-ins? If the existing piping is to be left abandoned in place, is a concrete plug on the cut ends a satisfactory way to seal them off for burial and abandonment?	MJ plug with concrete backing for abandonment is sufficient. Abandoned in place is sufficient.
47	On the series 40 mechanical drawings, the 24" line on the north side of the Rate of Flow Controller Vault and Diversion Structure is marked 24"-INF-DIP-3. It's probably best shown on sheet 50M101. Drawing 05C330 appears to mark this same line as 24"-MLSS-PVC-1. Should it be PVC or DIP? If DIP, where does it transition to the 24"-MLSS-PVC-1 line that routes to the Anearobic Selectors?	Confirmed, 50M101, DIP. See transition as shown on 50M101.

48	In reference to Addenda 2 item f to confirm, All structures are to be backfilled with an 8" wide envelop of stone or the specified soils, correct?	Reference the provided geotechnical report and Section 312301.
49	On drawing 70-S-103 detail B, the walkway support bracket SB-1 shows it to be 316 stainless steel. However, the material shown for the split tee is to be cut from an aluminum beam. Please clarify if the support is to be stainless or aluminum. If the support is to be stainless steel, please size the stainless steel tee.	The support bracket shall be SS 316L while the support beams above and bearing on the bracket are to be aluminum. The SS bracket tee shall have a minimum flange width and web depth of 6". The flange thickness shall be 3/8" minimum and the web thickness shall be 1/4" minimum.
50	Please confirm if there will be one pump per filter of two. The specification language reads as if there are two pumps per filter, while the drawings only show one per filter.	Confirmed, 120PMP101 and 120PMP102 (one per filter skid) are included in the scope of supply for the equipment supplier (i.e. manufacturer) for 466146.
51	Discharge control valves are not used to regulate the backwash flow as this will be accomplished by the VFD and flow meter. Without a VFD to regulate flow, the control valve would be used to throttle the flow to the target pumping rate. Please remove these from the specification.	See addendum no. 3.
52	The backwash pumps shown in the drawings include a v-belt. AASI typical backwash pump arrangement has the backwash pump and drive motor directly coupled. Please update the drawings to show the backwash pumps without a v-belt.	Confirmed. Backwash pump used shall meeting the requirements of 466146.
53	Please confirm panel 120-RIO-1 is not within AASI scope of supply despite appearing to be mounted to the filter. If the panel is outside of AASI supply it should not be mounted directly to the filter tank. If the panel is within AASI scope, please indicate where the panel equipment specification is located.	120-RIO-1 is not included in the scope of supply for the equipment supplier (i.e. manufacturer) for 466146. 00E250 identifies its location.
54	Can you share the AutoCad File for Cedar Creek with us please?	Yes, however, electronic files are not included in the contact documents per Section 010000, page 1, 1.2.
55	The contours on Sheet 05C102 appear to show the proposed site grade sloping from west to east down to EL. 494.00' along the west end of the existing/new Oxidation Ditches. The top of the Oxidation Ditches at the W12A Walls is EL. 494.48'. Is any Aluminum Guardrail required on the west end of the Oxidation Ditches? How is the water routed away from the west end of the common walls between Oxidation Ditch 901/902 and 902/903?	See Addendum No. 3.
56	Please see drawing sheets 05C333 and 120M301. Please verify that the TEEs that turn up to feed the Filters are 24" X 24" and not 24" X 18" as shown on 05C333 and the MJ reducers above them, shown on sheet 120M301, are 24" x 16" and not 24" x 18" as described in the fitting schedule on sheet 120M101.	See Addendum No. 3.
57	What is the pipe centerline elevation where the 24"-MLSS-PVC-6, 7 & 8 lines enter the Oxidation Ditches? Do they run level and enter at C/L 490.58 as shown on 80M302?	See response to Question No. 39.
58	What is the pipe centerline at the structures where the 24" Effluent lines exit the Effluent Boxes?	Ref. to 00G010. See Addendum No. 3.
59	Does the 24"-MLSS-DIP-1 line begin at the 24" Tee? See sheet 05C111. Does it tie into an existing 24" line with a DI solid sleeve at the location where the line terminates on 05C111?	The intent is the existing 24"-MLSS-DIP-1 will connect at the new proposed 24x24x24 MJ tee with a new segment of pipe (~20 FT) to eliminate the area that traps air, see Sheet 00GI007.
60	Are the existing clarifiers to be blasted and coated?	No.
61	Drawing Sheet 00D103 Sidewalks – states to remove concrete panels and rubblize. What is the acceptable size to be considered rubblized? Concrete stairs and decking are also called out to be rubblized.	6 to 12 inches (similar to Type 1 Rip Rap), free of reinforcing steel if present.
62	The attached plan sheet shows an existing road at the plant I have clouded. This is an existing asphalt road and has several proposed lines running down it. What will be required after construction for this road? Asphalt in kind? Gravel?	See Addendum No. 3.
63	Confirming discussions with The Owner at the Pre-bid meeting. It will be allowable for the contractor to access the site from the Ponce De Leon Drive access off of Highway 5. In addition the contractor will not be responsible for any potential damage to the POA's roads between the public roadway and the project site.	Confirmed, general wear and tear associated with the roadway will not be the responsibility of the Contractor. However, damage directly attributed to or associated with the Work will be the responsibility of the Contractor.
64	Do you have the weight of the existing generator that is to be relocated to Cedar Creek?	See Section 014000, page 6, 1.13.
65	Please indicate where the office trailers and laydown yard are to be located.	See Addendum No. 3.
66	Drawing Sheet 00D103 Cleaning Photos 16 (Ox Ditch), 39, and 60 (70 Anaerobic Selector), call for the grit, organic rags, grease, etc. to be removed. Please provide a quantity of material to be removed.	See response to Question No. 2.
67	Will the Owner be responsible for dewatering the existing structures prior to the GC occupying them?	See response to Question No. 2.

68	Prior to startup of the new facility will any wastewater have to be pumped to the new structures for organic purposes. Or can flow simply be diverted to the new structures?	Other than removing the biosolids and inorganic solids as identified in Question No. 2, we do not anticipate transfer pumping between oxidation ditches for start-up purposes.
69	Will there be any time required in the new structures for bug growth that effects startup? If so, please state how much, this effects the 600 days.	At this point, we do not anticipate any specific period of time necessary for biosolids growth during start-up.
70	Plan Sheet 00GI003 shows Structure 160 in black, 00G400 shows it as existing. Please confirm that this structure stays " AS IS ".	Confirmed.
71	Plan Sheet 00G400 lists a structure with number 370 as proposed. Please clarify what this structure is and add to Structure Key.	See Addendum No. 3.
72	Plan Sheet 30C502 shows different sizes for the SS Trash Rack. Please clarify if the size is 36" x 36" or 40" x 36" as shown in Detail B.	Nominal rack opening size vs. frame size.
73	Plan Sheets 20-S-102 / 20-S-302 show Grating in the Grit Chamber decks. According to 00-SZ-06 this calls for an Extruded Grating Frame. Can the round section of the frame be replaced with a recess in the concrete wall ?	Yes, an embedded frame can be eliminated in this area only.
74	Plan Sheets 10-S-102 and 20-S-102 show the required Headworks Grating. Based on the Grating Schedule in 00-SZ-06 this would require 1-1/4" and 1-1/2" Grating. Can this Grating be standardized to either thickness ?	Yes, the Contractor may elect to provide the same thickness grating everywhere for simplicity. The grating should also meet the requirements of the specification Section 055000 paragraph 2.8. See Addendum No. 3.
75	Plan Sheets 40-S-102 and 50-M-901 show the required Ladder to the corner Platform at the Dry Weather EQ Basin. Please confirm that this Ladder is as per 05M507 Detail B.	See response to Question No. 77.
76	Plan Sheet 50-S-101 (40M901) shows a 6'-2" x 10'-0" concrete deck. Please confirm that this deck does not require an Access Ladder or Staircase.	See response to Question No. 77.
77	Plan Sheets 50M102 and 50M301 do show an Access Ladder above and below the Access Hatch. 50-S-101 and 50-S-301 do not show this Ladder. Please confirm if this Ladder is required, will it be according to 05M510?	Yes, there is an access ladder, for hatches and platforms, ref. to 05M510, detail F & G, for tank or platform, ref. to 05M507, detail B.
78	Plan Sheet 70-S-102 shows three Staircases to the walkways. Please confirm the elevation for the concrete landing pads.	Ref. to 05C103.
79	Plan Sheet 70-S-103, A / 1, does not show a L3x3x1/4" support angle on the outer concrete wall, the small grating section. Please confirm that this support angle is not needed. Also, please confirm that the grating on the inside only requires one (1) SB-1 Support Bracket.	Yes, a ledger at the concrete wall supporting the small area of grating to the outside of the structure is needed. Alternatively the grating can simply span east-west. Yes, only one (1) SB-1 bracket is needed on the interior area of grating.
80	Plan Sheet 110-S-103 shows a Staircase to the Clarifier. Please confirm that this Staircase is a Type 1 Staircase as per 00-SZ-09 with added support columns as per 110-S-104, Detail B.	Yes, that is correct.
81	Plan Sheet 120-S-301 shows the Aluminum Perimeter Handrail mounted on top of the Aluminum Grating. Please confirm if the mounting is per 00-SZ-05, Detail H and the Grating will need to be notched out and banded as required.	It is preferred that the guardrail be side mounted per the standard details. This will need to be coordinated with the final filter layout and extent. Alternatively, the railing can be top mounted and an additional ledger angle can be added to the platform channels to support the grating thus not requiring the notching.
82	Plan Sheet 180-S-101 shows new Grating using existing embed sections. Please advise of the Grating thickness required.	This shall be field verified.
83	Plan Sheet 195M100 shows two (2) of the Rolling Stairs listed under 05 51 36, 2.1 B. Please indicate where the 3rd Rolling Staircase is located.	Ref. to 00GI039 safety schedule.
84	Plan Sheets 90-S-101 and 90-S105 show Staircases at the new Oxidation Ditches and Splitter Box. Please indicate the elevation for the concrete landing pads.	Ref. to 05C103 and 05C104.
85	Plan Sheet 120-S-301 does not show any Valve Vaults. 120M100, 301 and 302 show two (2) Valve Boxes which are detailed in 05M512 as new, CIP boxes. Please indicate the precise location and elevation of these structures. Also, 05C111, ADD 2, shows the two Vaults without any connected piping. Please clarify.	See note in Section 2, concrete vaults may be ASTM C478 or Cast-In Place Vault. See 120M302.
86	Plan Sheet 180M900 shows an Access Hatch and a small Grating section in the new Pump Deck addition. This Hatch can not be found in 18-S-101. Please clarify if this Hatch is needed.	Ref. to 432313, page 6, Section 2.2. Final layout, penetrations, openings, et al. will need to be coordinated with the manufacturer during submittal process.

87	Plan Sheet 05M512 shows details for Valve Vaults allocated to the existing Clarifiers, #1101 and #1102. 00G400 does not show these Vaults, while 00GI003 shows them attached to the existing Clarifiers. Please clarify with details on location, elevation and piping requirements.	Ref. to 05C316.
88	Plan Sheet 05M512 shows details for a Valve Vault at the Aerated Sludge Storage, Structure 180. 00G400 only calls for the existing Vault to be demolished. Please clarify with details on location, elevation and piping requirements.	Ref. to 05C301.
89	Required attachments of the qualification statement request that audited balance sheets for each of the last 3 years for firm named in section 1. Request is made that these financials be made available to the owner upon request and following the bid opening with the apparent low bidder.	Ref. to C-410 Bid Form, page 4, Section 6.03.
90	Sheet 70M600 Gate Table. Confirm Operators are to be Manual Wheel.	Ref. to 400557 or 00GI013.
91	Sheet 80M600 Gate Schedule Table is incomplete	Ref. to 400557 or 00GI013. See Addendum No. 3.
92	Is the permanent screenings/compacting dumpster to be provided by the contractor or owner?	Owner to provide.
93	083323-4, F. This part of the spec is used for a "Fire" Door. Are these Fire Doors?	No, the overhead doors are not "Fire Doors" and that paragraph is not required and can be eliminated. See response to Question No. 25.
94	Clarify roofing materials. Plan sheets appear to show metal roofing, no callout located on plans. Specs have a section for asphalt shingles (073113), but products call for fiberglass shingles.	The roofing shall be as specified within the 073113 specification.
95	40EMO-1, I assume this is simply the electric for 40BG101.	Ref. to 400557 or 00GI013.
96	80BG101, 102, 103 are shown with dual stems and they are 60x60 which would not need dual stems. Can they be single?	Yes.
97	I don't find 90BG101 OR 102 on the drawings. the schedule on the drawing doesn't match either.	Ref. to 90M104. See Addendum No. 3.
98	On the main schedule 70BG101 to 105 are called out as manual but on drawing 70m600 they are shown to be electric...	Ref. to 400557 or 00GI013. See Addendum No. 3.
99	Some of the gates have a pipe on the back side. I can't find detail SG-20-24, but we would assume that we are supplying wall mounted slide gates with plain end wall pipes to be provided by others. please confirm either way...	Confirmed. PE pipe, wall mounted slide gates.
100	Sheet 00D103 – Demo Notes – Second column, Header Handrailing and Header Handrailing and Grating are not referencing a structure or picture. Please clarify what these headers are to represent.	Clarification: Remove all existing handrailing, grating, where appropriate, to accommodate new equipment, platforms, stairs, components, et al. as shown on structural plan sheets. Otherwise, existing hand railing may remain in place.
101	Sheet 05C507 Detail F Mow Strip at Fence – Does the continuous 2' concrete mow strip (at the fence) get installed at both the existing and new fence or just the new fence.	New fence only.
102	Please provide piping as-builts so we are able to determine if by-pass pumping or conveying of liquid is required.	Provided.
103	Can the removed basin grit be deposited onsite? Or does it need to be hauled to a landfill?	Landfill per Section 010000.
104	Aerated Sludge Storage sheet 180M100 show 6" Telescoping and piping, Mechanical Detail sheet 05M507 and Valve Schedule (00GI018) show 8" TV-telescoping valve. Please clarify.	Ref. 05M507 and 00GI018. See Addendum No. 3.
105	See sheets 80M101 and 05C111. The 24"-MLSS-PVC-8 line is shown with a 90° bend on 80M101 but with two 45° bends on 05C111. Which is correct?	See Addendum No. 3.
106	Pipe specs 331113, 333400 and 400520 call for the pipe supports to be provided as carbon steel with two coats of TNEMEC N69 Epoxy. Would it be acceptable to provide the supports Hot Dipped Galvanized in lieu of the TNEMEC N69 coating?	No.
107	Can 316 stainless steel be provided in place of the fluoropolymer coating on Pipe Support anchors, U-Bolts, Flange accessory sets and general fasteners?	Yes, 316L Stainless steel is approvable in lieu of fluoropolymer coated in all locations identified.
108	The Grit piping shown on drawing sheet 20M101 is shown with only two concrete column type supports on line 4"-GRT-DIGL-1. According to the chart in spec 400520, page 17, there should be at least two additional supports on the 4"-GRT-DIGL-1 line and the 4"-GRT-DIGL-2 line will need at least two. Can the location and details of these supports be provided or is it up to the Contractor to provide something that works? Some supports may be located in the yard and a foundation would be required.	See Addendum No. 3.

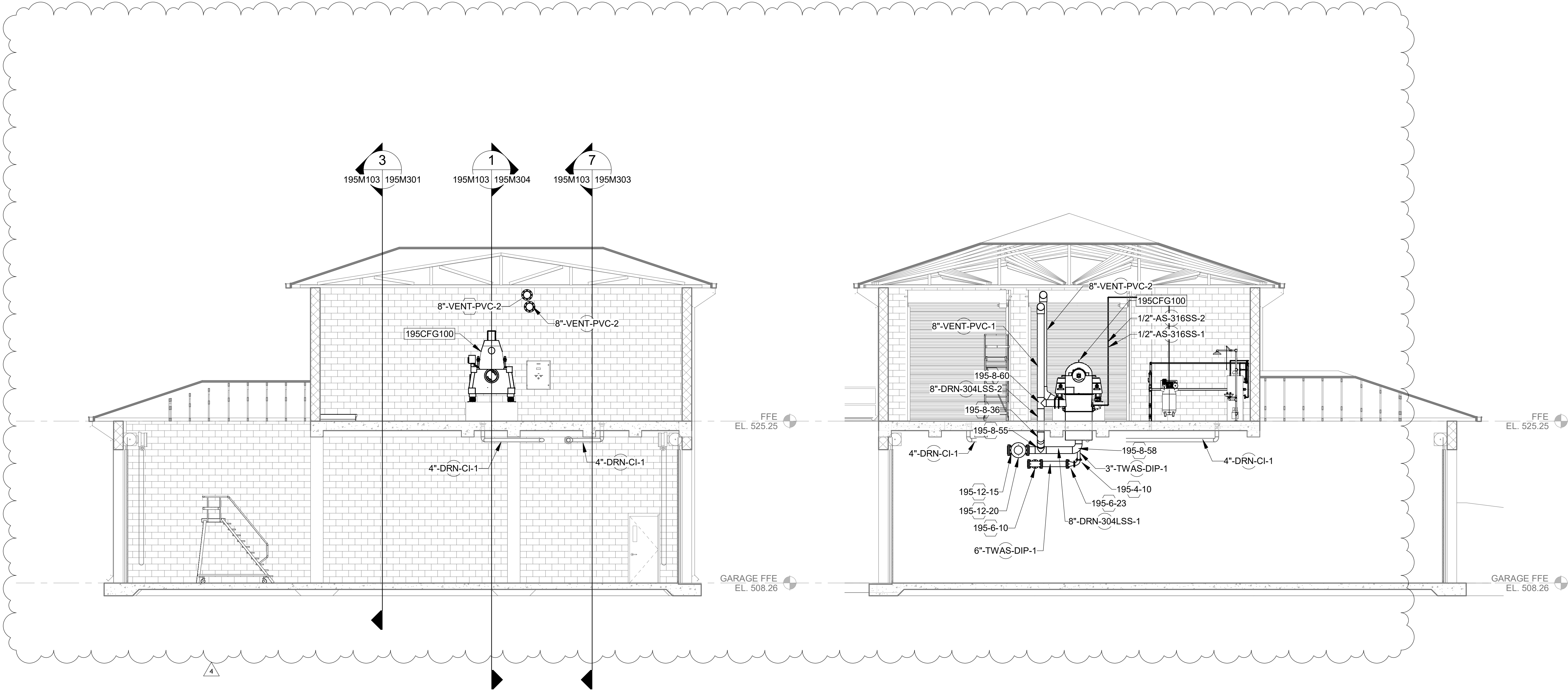
109	See page 20M303. The 6"-DRN-DIP-1 & 2 lines are shown without supports. I would think they would need to be supported. If supports are necessary, can location and details be provided or is it up to the Contractor to provide something that works?	See Addendum No. 3.
110	See sheet 50M101 and 50M301. Please confirm that the 18" valves marked 18"-PV1-RS and 18"-PV2-RS (not in valve schedule) should actually be marked 18"-PV-INF-1 and 18"-PV-INF-2 which are listed in the valve schedule.	Confirmed. See Addendum No. 3.
111	See sheets 50M101 and 50M301. The EMO on the 18" valve (believed to be 18"-PV-INF-2) is marked 40EMO-1 on both sheets. Please confirm that the correct mark number is 50EMO-1 as shown and described on the Valve Schedule sheet 00GI015.	Confirmed. See Addendum No. 3.
112	See sheet 50M101. Two valves are marked 24"-PV-INF-2. Is this correct or should one valve have a different mark number?	See Addendum No. 3.
113	The Valve Schedule, sheet 00GI017 lists 3"-FV-SCUM-1, 2, 3 & 4. I can only see where they are used on Clarifiers 1103 and 1104 assuming they're attached to the floor drain piping that discharges into the scum pit (dwg 110M306). The drains for the new valve pits for Clarifiers 1101 and 1102 open to a ditch. Are Flap Valves 1 & 2 required?	See Addendum No. 3.
114	At the existing UV Structure shown on Sheet 130M300, please clarify the extent of New Grating required. Is the New Grating only required in the area(s) directly impacted by the new equipment, or intended to be replacement for the structure.	Existing grating in acceptable condition may be reused. New grating is only required by areas where necessary to accommodate new equipment but must completely cover the openings per OSHA.
115	Would you happen to have a contact with Entergy power?	Landon Meeks, PE, Mobile: 501-844-1716
116	If you look at the notes under chemical feed pumps (see attached) it says Provide HDPE Wall Mounting Kit. Are the wall mounting kits to be provided by the pump supplier. There is nothing in the Specs that call out wall mounting kits.	Yes, HDPE wall mounting kit is required.
117	The P&IDs appear to show the pumps with no ancillary parts (like a calibration column for instance.) Can you confirm these are just loose pumps with no ancillary components?	Confirmed.
118	Specification 462116, Table 1.8.1 specifies a 4.03ft downstream water level at peak flow due to the downstream Vortex Grit Removal System. However, the hydraulic profile on plan sheet 00G010 lists a downstream water level of 1.71ft. Which downstream water level is correct?	Water surface provided in 00GI010 is shown as a single channel/process at the flow rate identified.
119	Specification 462116, section 1.1-B specifies the materials of construction as 316L bar grid and 304L for the rest of the screen. Section 2.2-B specifies the entire screen be constructed in 316L. Specification 462173 specifies 304L for the entire washer compactor. Please consider accepting a full 304L stainless steel screen and washer compactor as an acceptable alternative.	Not at this time. Materials will be as specified.
120	Plan sheet 10M302 seems to show the concrete dumpster pad 6" lower than the operating deck or top of channel for the screen. Please confirm.	Confirmed, approximate dimension, finished concrete dumpster pad will field located.
121	Plan sheet 10M302 seems to show a 12" gap between the channel wall and concrete dumpster pad. Please confirm.	Confirmed, approximate dimension, finished concrete dumpster pad will field located.
122	Please confirm whether both screenings dumpsters in plan sheet 10M302 shall be placed onto the same concrete pad or not.	Confirmed. See Addendum No. 3.
123	PLANT-PLC-3 Existing Operations Building - Confirm Contractor Scope and I/O Point List	As shown on 00E905, the only Control I/O to PLANT-PLC-3 are from the new simplex lift station control panel at the existing operations bldg. The location of the new simplex lift station control panel is shown on Sheet 00E100 Keyed Notes 3,4, & 6. PLANT-PLC-3 is to be installed in the existing operations bldg. per Keyed Note #1 on 00E103. Yes, PLANT-PLC-3/PLANT-OIT-3 is a new contractor (system integrator) furnished panel. The operator SCADA workstation shown on 00E905 is to be furnished and installed in the existing Operations bldg. and networked to PLANT-PLC-3. As shown on 00E103, contractor to locate and power Plant-PLC-3 in the existing operations building. Keyed Note 2 on sheet 00E950 is not related to Plant-PLC-3. Keyed Note 2 on sheet 00E950 is related to control wiring for 110CP-1 and 110CP-2 from MCC-M2 to Plant-PLC-1. MCC-M2 and Plant-PLC-1 are located in the existing Building 350.

124	90-RIO-1 vs. 90-PLC-1 - Separate Panels or One Combined?	Separate, 90-RIO-1 is located adjacent to oxidation ditch 901, 90-PLC-1 located in structure 350. Per 00GI031, 90-RIO-1 is not provided by the equipment supplier for 465115 - Aspirating Aerator Mixer. Ref. 00GI024 and 00GI025 for list of components and type of communications to 90-RIO-1. Enclosures as shown/ identified on 00E950.
125	120-RIO-1 Physical Location and Scope	120-RIO-1 is to be located in area 120, see Addendum No. 3. Enclosures as shown/ identified on 00E950. 120-RIO-1 does not have hardwired I/O other than the reassigned hardwired I/O described in Addendum No. 1.
126	Server Redundancy - Hardware-Only or Hot-Standby SCADA	See Addendum No. 3.
127	160-RIO-1/ 250-RIO-1 - Composite or Separate Physical Cabinets.	Separate, 160-RIO-1 is located in structure 160. Ref. 00GI027 and 00GI028 for list of components and type of communications to 160-RIO-1. Separate, 250-RIO-1 is located in structure 250. Ref. 00GI029 and 00GI030 for list of components and type of communications to 160-RIO-1. Both of these RIO's are connected via fiber optic cable, see 00E950. Enclosures as shown/ identified on 00E950. See Addendum No. 3.
128	Float Switches in Equipment-Supplier Areas (10, 90, 195) - Package Scope	See 00GI022, 10FS-1 is not provided by the equipment supplier for 462116 - Flexible Rake Bar Screen, see Addendum No. 3. Ref. 00GI024, 90FS-1 thru 90FS-6 are not provided by equipment supplier 465115 - Aspirating Aerator Mixer. Ref. 00GI018, 00GI019 and 00GI030 are not provided by equipment supplier 463333 - Polymer Blending and Feed Equipment.
129	Fiber Optic Cable Type - Multi-Mode vs. Single-Mode	Plant fiber backbone is to be single-mode. Yes, the operator station segment should be single mode.
130	Windows Service 2008 R2/ SQL Server 2016 - Substitute Current Version	Current version acceptable.
131	Dell Precision 7920 Workstation - Substitute Current Version	Current version acceptable.
132	407223 - FMU90 (Ultrasonic Transmitter) Reference in Radar Spec.	Confirmed, see Addendum No. 3.
133	Stilling Well Requirement for Thru-Air Radar	As shown in 140M300 and 407223, stilling wells are only required where identified. Flood protection is not required.
134	407513 - Optical Type Requirement for ORP Analyzers	Confirmed, see Addendum No. 3.
135	195MFM101/ 195SC-1 (Biosolids Mag Flow Meter - Contractor or Equipment Supplier Scope?	195MFM101/ 195SC-1 is not provided by the equipment supplier for 467633 - Dewatering Centrifuges
136	360PIT-1 - Required Calibrated Span Not Listed on Online Process Measurement Schedule	See 00GI030, Row 360-SC-1 (signal convertor for 360PIT-1), notes for span.
137	120-RIO-2 - New Contractor Panel Introduced by Addendum No. 1; Scope, Location and I/O List Undefined	See Addendum No. 3.
138	Sheet 360-S-102 note 1 calls for three layers 5/8" gypsum board. The finish schedule only references gypsum board in chem feed room no. 1. Confirm the three layers of gypsum board are only required in chem feed room #1, and not all ceilings, and all other ceilings to follow the finish schedule.	Yes, a 2-hour fire-rated construction is required above Chemical Feed Room No. 1. This can be achieved by installing an assembly as referenced in the note on sheet 360-S-102. The other rooms do not require the fire-rated assembly and shall be finished as indicated in the Finish Schedule.
139	Plan Page 05C326 shows qty 1 12" Butterfly Valve at STA 0+12 and qty 1 12" Butterfly Valve at STA 4+14 which cannot be located in the schedule. Please advise if needed and provide details on connection type (MJ?)	See Addendum No. 4. See 05C326, ref. profile. Ref. sections 331419, 333400 and 400520.

140	As shown on revised 05C314 in add 2, should 4"-PV-TWAS-1 and 6"-PV-TWAS-5 have flanged connection with manual operator Nut? Are these valves buried?	See 05C013, ref. profile. Ref. section 331419, 333400 and 400520.
141	Are valves 18"-PV1-RS and 18"-PV2-RS seen on 50M301,50M103 same valves as seen in 18"-PV-INF-1 and 18"-PV-INF-2?	See response to Questions No. 34, 35 and 110.
142	40M100 shows the tag 24"-PV-INF-2 for two valves. Confirm if these two valves should have the same tag or different?	See response to Questions No. 34 and 35.
143	24"-PV-INF-1 is shown on 40M100 , however does not appear in the schedule. Confirm if the valve is existing or new install? If new , confirm connection type MJ with operator nut?	See response to Question No. 112.
144	Confirm connection type for 6"-GV-NPW-5, 4"-GV-NPW-6, 4"-GV-NPW-3 ,4"-GV-NPW-4, 4"-GV-NPW-5, 6"-GV-NPW-6, 4"-GV-NPW-3, 6"-GV-NPW-1 ,4"-GV-NPW-1 found in 00GI043-00GI048 and are extension stems needed?	Ref. 00GI061 for valves located on the interior of the building (i.e. above grade). Ref. Sections 331418 and 331419.
145	On Plan Page 05C345 , it shows a gate valve tag 6"-GV-PW-1, is it existing or new install?	New. Ref. 00GI061 for valves located on the exterior of the building (i.e. below grade). Ref. Sections 331418 and 331419.
146	Will you allow DeZURIK CVS 6000D as an approved option for swing check valves in Section 331419?	See Addendum No. 4.
147	Can you please confirm if valve 4"-CK-WAS-1 is existing?	Confirmed.
148	Please confirm if the coating for the above ground butterfly valves 16"-BFV-EFF-1 & 2 are to be Tnemec N69 (two coats).	Confirmed.
149	Are there any valves that need to be 250# service class?	Ref. Section 331419. Ref. 00GI004 to 00GI012 and Section 331400 for HTP.
150	The table in specification section 462116-1.1.B outlines the PLC, OIU, VFD and motor starters as being shipped loose and installed by the contractor. But the table in section 2.2.B outlines a main control panel that includes a PLC and VFD. Please confirm that a main control panel with preinstalled PLC, OIU, VFD, and motor starters is the intention and not a collection of ship loose items for the contractor to install.	Confirmed.
151	The table in specification section 462116-2.2.b under the "Control System" section stated the main control panel can be either relay or PLC based. The drawings and the requirements in 2.5/2.6 outline the control panel including a PLC, OIU, and Ethernet switch. Please confirm the screen/press control panels are to be PLC based and not relay based.	Confirmed.
152	Specification section 462116-2.7.A outlines a NEMA 12 control panel but section 2.5.D states that the PLC is to be suitable for use in a C1D2 hazardous environment. Drawing 00E901 appears to show the main control panel in a non-hazardous area. Please confirm the screen/ control panel is to be mounted in a non-hazardous environment and a C1D2 rating for the PLC is not needed.	Confirmed.
153	The drawings show the screen/press control panels mounted in an electrical room that is not near where the screen and press equipment is located. Can you please confirm what are the approximate lengths are of the motor leads to determine the type of VFD output filters that are required.	Ref. 05C101 and 00E101.
154	Specification section 462116 and 462173 do not appear to reference section Div 25. Div 25 appears to be SCADA level controls. Please confirm the screen/press controls do not need to include requirements outlined in Div 25 sections.	The screen/ press controls are identified in Part 2 of the specification.
155	Valves 4"-GV-BWW-1 & 2, shown on 120M100, do not appear on the Valve Schedule.	Ref. 00GI035.
156	Please confirm that the valves listed as 20PNV1 and 20PNV2, shown on 20M301, are the same valves marked 4"-PNV-GRT-1 and 4"-PNV-GRT-2 as shown on sheet 00GI015 (valve schedule).	Confirmed. See Addendum No. 4.
157	3"-BV-BWW-1 and 3"-BV-BWW-2, shown on sheet 120M100 are not listed in the Valve Schedule.	Ref. 00GI035.

158	See sheet 195M305. Please confirm the flanged fitting marked 195-12-15 is a 12" X 8" Cross.	Confirmed.
159	Sheet 195M305, the 8" lines that come off of the 12" X 8" Cross referenced above, are marked as 12"-DRN-DIP-1 until they transition to being marked 8"-VENT-PVC-1 above the floor. The piping schedule lists 304 stainless steel drain piping in this area. Is the line connecting to the cross actually 8" Sch 10 304 SST piping routed to the centrate discharge flex connection? Where does the branch labeled 8"-VENT-PVC-1 transition to PVC?	See Addendum No. 4.
160	See sheet 50M101. Please confirm that the valve marked 24"-PV-INF-2 (located on line 24"-INF-DIP-5) should be marked 24"-PV-INF-5. There are two valves with the mark number 24"-PV-INF-2 on this drawing.	See response to Questions No. 34 and 35.
161	Please see spec 010000 page 6, paragraph T. Will filling the abandoned lines completely, end to end, be required on this project? If not, will filling the end of the abandoned lines with a plug of concrete about 2' in length, to prevent soil intrusion, satisfy what's required to abandon a pipe line in place?	See response to Question No. 46.
162	See spec 333400, page 14, paragraph H. Are EBAA Seal Improvement MJ gaskets required at DIP MJ fittings or are standard profiles acceptable?	No, seal improvement will be at the Contractor's discretion. Ref. Section 331419. Ref. 00GI004 to 00GI012 and Section 331400 for HTP.
163	Section 46 23 23 - 1.1.B A FRP enclosure is not required for self-priming pump type system. Please confirm that a self-priming pump with casing heater and no FRP enclosure will be acceptable ?	FRP enclosure with heater identified in Part 2 is to be provided as specified.
164	Section 46 23 23 - 1.1.B: The self priming pump design do not require any air supply or vacuum priming control panel. Please confirm that these are to be supplied only if applicable to the manufacturer's design?	Confirmed.
165	Section 46 23 23 - Item 1.1.B : Please confirm that a 7.5HP self-priming pump (as described in Section 2.2.B) will be acceptable instead of the 15HP vacuum primed pump described in 1.1.B ?	Confirmed.
166	Section 46 23 23 - 1.1.B, Electrical section: A VFD is not required for the self-priming pump type design, please confirm that this will be acceptable ?	Confirmed. Ref. 00GI021.
167	Section 46 23 23 - 1.1.B, Electrical section: Please confirm that the sealing kits for each motor will be provided by the electrical contractor ?	Per 1.1.B cable/ wiring sealing kit at each motor shall be provided by the equipment supplier as specified.
168	Section 46 23 23 - 1.1.B - Instrumentation section: Please confirm that the standard built-in temperature switch from motor manufacturer is acceptable instead of a separate external thermal switch ?	Confirmed, if this reference is specific to the motor thermal switch. However, an ambient air temperature monitor/ sensor as described in Section 407463 shall be provided by the Contractor as specified.
169	Section 46 23 23, 1.1.B - Level Control: Considering that the amount of grit inside the grit hopper has no influence on the water level, please confirm what it the intended purpose of the two float switches included in the Grit Removal System Control Panel ?	Ref. 00GI022 and 00GI041.
170	Section 46 23 23 - 1.1.B - Controls: Please confirm that the programmable logic controllers (PLC's) and operator interphase terminals (OIT's) should be fully assembled when shipped on site as described as section 1.2.b.3 and will not be shipped loose ?	Confirmed.
171	Section 46 23 23 - 1.1.H: Please confirm that the one (1) trip of five (5) field service days (8 hours each day) described in this paragraph includes the trips for installation (3.2.B), for commissioning and testing (3.3.A, F & I) and for training (1.6.1) or if these are to be separated/added to?	Ref. Part 3 of Section 462323.
172	Section 46 23 23 - 2.2B - Material of Construction & Operational System: The stainless steel material for the grit chamber in this section is specified in SS316 whereas the grit classifier stainless steel material is specified in SS304. Please confirm and harmonize the grade of stainless steel required for all equipment ?	Not at this time. Materials will be as specified.
173	Section 46 23 23 - 2.2B - Control System. On plan 00E200 (electrical headworks plan), the control systems seem to be outdoors. Consequently, please confirm that an enclosure NEMA4x 304SS with air conditioning and sunshield is required for the 20-PLC-1 panel ?	Ref. 00E200 identified disconnect switch locations and local control panel. Enclosure rating as shown. See Addendum No. 4.
174	Section 46 23 23 - 2.2B: Please confirm that the control panel will be installed in a non-classified zone ?	Confirmed.
175	Section 46 23 23 - 2.2B - Enclosure: Please confirm that the FRP enclosure is not required for self-priming grit pump design, considering the pump will be provided with casing heater and be rated for outdoor, exposed service conditions ?	FRP enclosure with heater identified in Part 2 is to be provided as specified.
176	Section 46 23 23, 2.2.B: Please confirm if local NEMA7 stations are required to locally operate each equipment of the Grit Removal System ?	See response to Question No. 173.
177	Section 46 23 23, 2.7.C: Please confirm that the piping heat tracing (by Contractor) is not to be controlled by the Grit Removal Control Panel ?	Confirmed.

178	Section 46 23 23, 3.1 - Shop Assembly and inspection: Please confirm that the customer and Contractor's trip to witness the shop assembly, if applicable, will not be covered by the Equipment Supplier ?	Confirmed.
179	Section 46 23 23, 3.3F & 3.3. I: Please confirm that the days mentioned in F. System Demonstration Testing and I. Initial Performance Testing are included in the "Five (5) field service days (8 hours each day) during one (1) trip" mentioned in 1.1.H	Ref. Part 3 of Section 462323.
180	Section 46 23 23, 3.3.I.1: Visual indications are not enough to estimate grit capture performance without doing full scale sampling and performance tests, please confirm that the equipment supplier will not have to estimate the grit removal and organics capture performance visually ?	Ref. 1.8 of Section 462323.
181	24022 HSV Cedar Creek Volume 1 Drawings for BID, 00GI033: Please confirm that no heat tracing is required on the Grit Classifier ?	Confirmed.
182	24022 HSV Cedar Creek Volume 2 Drawings for BID, 20M303: Please confirm that 10' auger through length will be acceptable for the Grit Classifier, as described in Section 2.2.B ?	Ref. 20M303, Section 4. Approximate length of auger as measured is 15 ft.
183	2.5.C - Vibration isolators - non-spring type not used, rubber spring isolation will dampen in all directions.	Confirmed.
184	2.3.A - Discharge chute, standard gaskets are neoprene, rubber spacer N/A due to floor mounted and expansion boot design.	Confirmed.
185	2.3.B - Sampling device will be standard pipe sampling device.	Confirmed.
186	The specs require pipe to be Domestic made in USA, nothing about fittings, restraints, valves, etc. – are import fittings, restraints, flanges and valves allowed	See response to Question No. 20.
187	Please confirm if the contractor is responsible for all PLC programming required for the project.	Ref. 462116, 462173, 462323, 465115, 466146, 467633, 406196, 00GI031, 00GI032 for responsibilities related to PLC programming.
188	Is the area where the fence is located going to be cleared for construction? Do you have a geo report on the site?	Ref. 05C108. Yes, geotechnical report is provided in the Contract Documents.
189	The current design indicates that electrical power for MCC 5 is to be fed from SWBD 1 using three runs of 500 MCM conductors. However, the distance between these two locations is substantial, and installing multiple long runs of large format cable will be extremely costly from both a material and labor standpoint. Given these conditions, we would like to evaluate whether an alternative power source for MCC 5 is feasible. One potential option may be to supply MCC 5 directly from the new pad mount transformer being provided by Entergy, assuming capacity, fault ratings, and coordination requirements can be met. This approach could significantly reduce installation costs and simplify the overall feeder routing. Please advise whether revisiting the power source for MCC 5 is acceptable, or if the design intent requires the connection to remain with SWBD 1. If alternative configurations are permissible, we would appreciate guidance on the preferred approach so we can proceed with accurate pricing and planning.	Not at this time. Configuration will be as specified.
190	180M301 shows 6"-TV- DEC-1 which is not included in the valve schedule. Please provide details for this valve.	See response to Question No. 104. See Addendum No. 4.



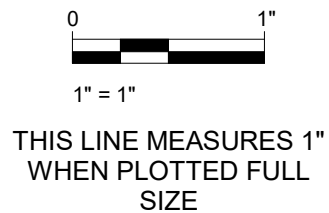
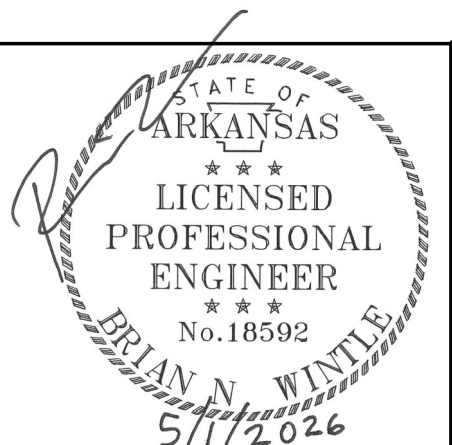
5
195M302

NORTH INTERIOR WALL BASIC
SCALE: 3/16" = 1'-0"

6
195M302

SOUTH INTERIOR WALL
SCALE: 3/16" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
4	5/29/26	MAB	BNW	REVISED PIPING CALLOUTS AND MATERIAL



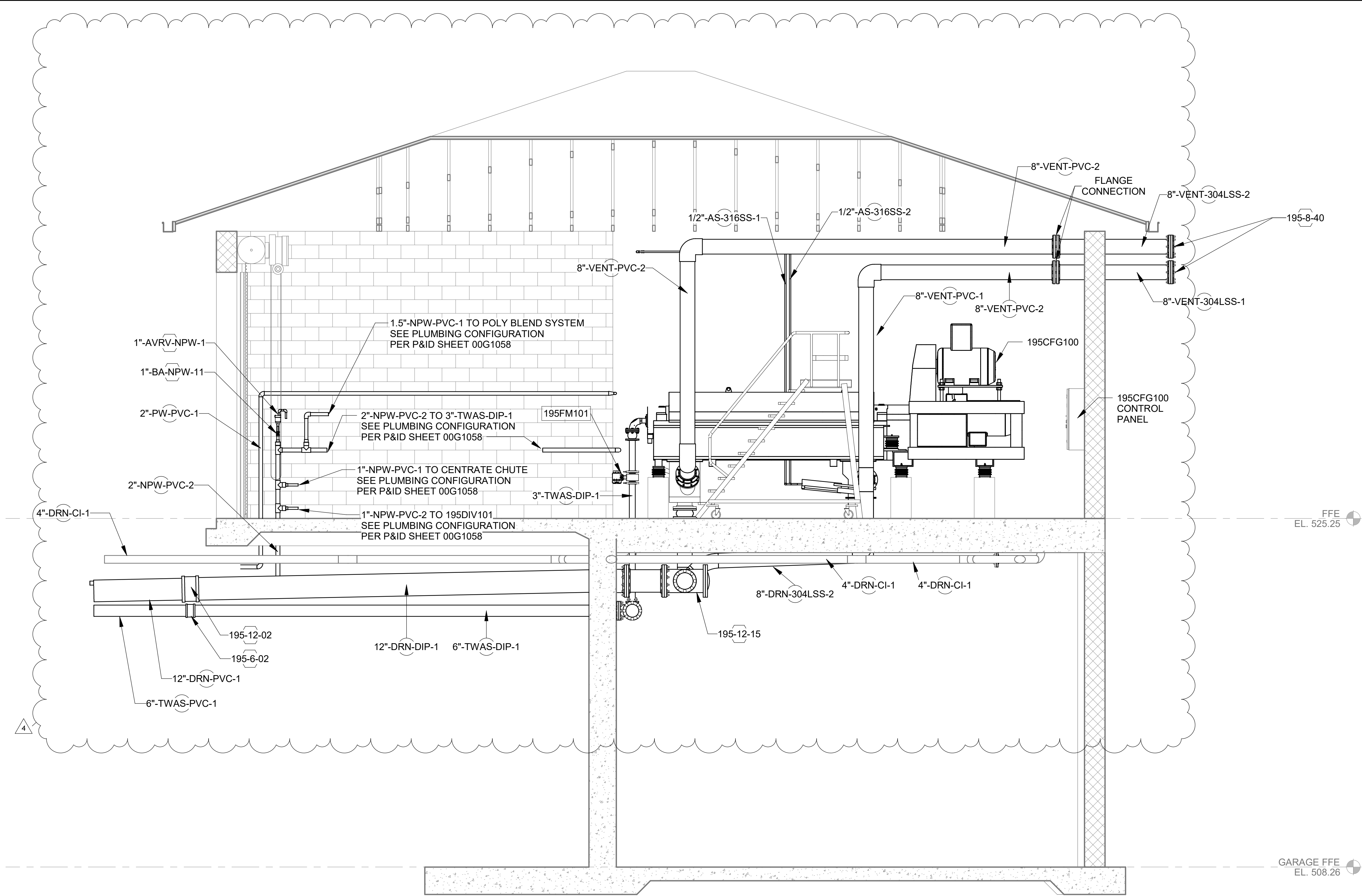
DESIGNED:	BNW
DRAFTED:	MAB
CHECKED:	JS
DATE:	MAY 2026



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HOT SPRINGS VILLAGE, ARKANSAS
**HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS**
BID SET
EQUIPMENT AND PIPING SECTIONS II

JOB NO:
24022
SHEET NO:
195M302

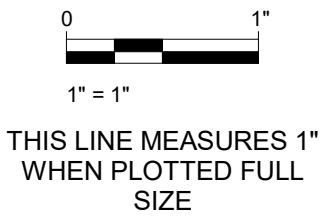
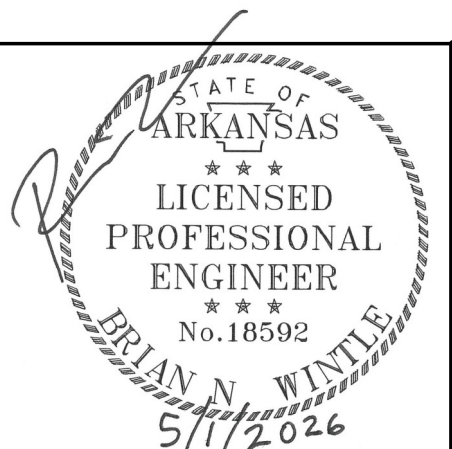


7
195M303

CL CENTRIFUGE LOOKING WEST1

SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
4	5/29/26	MAB	BNW	REVISED PIPING CALLOUTS AND MATERIAL



THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

DESIGNED:	BNW
DRAFTED:	MAB
CHECKED:	JS
DATE:	MAY 2026



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HOT SPRINGS VILLAGE, ARKANSAS
HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS

BID SET

EQUIPMENT AND PIPING SECTIONS III

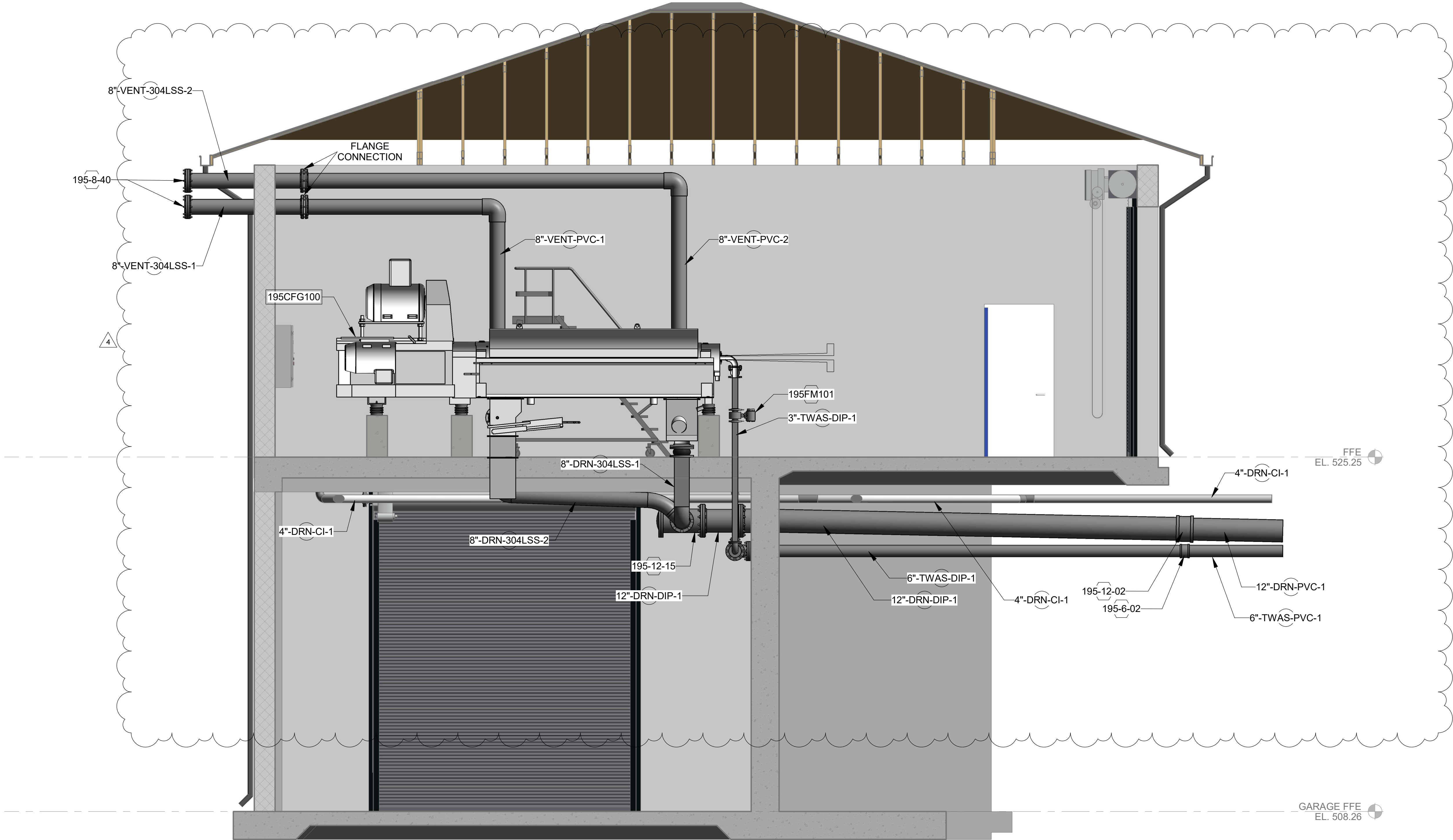
JOB NO:
24022

SHEET NO:

195M303

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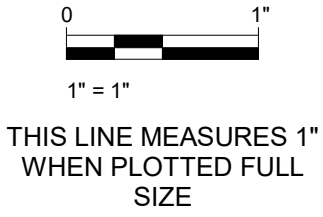
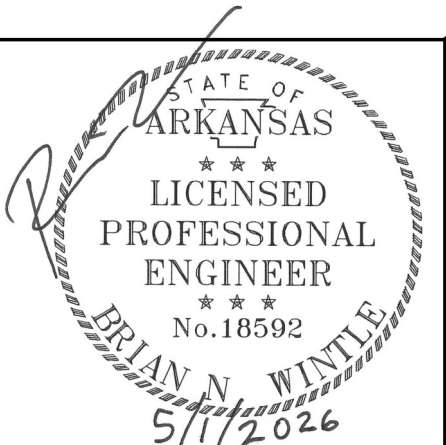
Autodesk Docs://2022- HSY/POA- Cedar Creek WWTP Improvements/195-M DEWATERING BUILDING.rvt



1
195M304

CL CENTRIFUGE LOOKING EAST
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
4	5/29/26	MAB	BNW	REVISED PIPING CALLOUTS AND MATERIAL



THIS LINE MEASURES 1" WHEN PLOTTED FULL SIZE

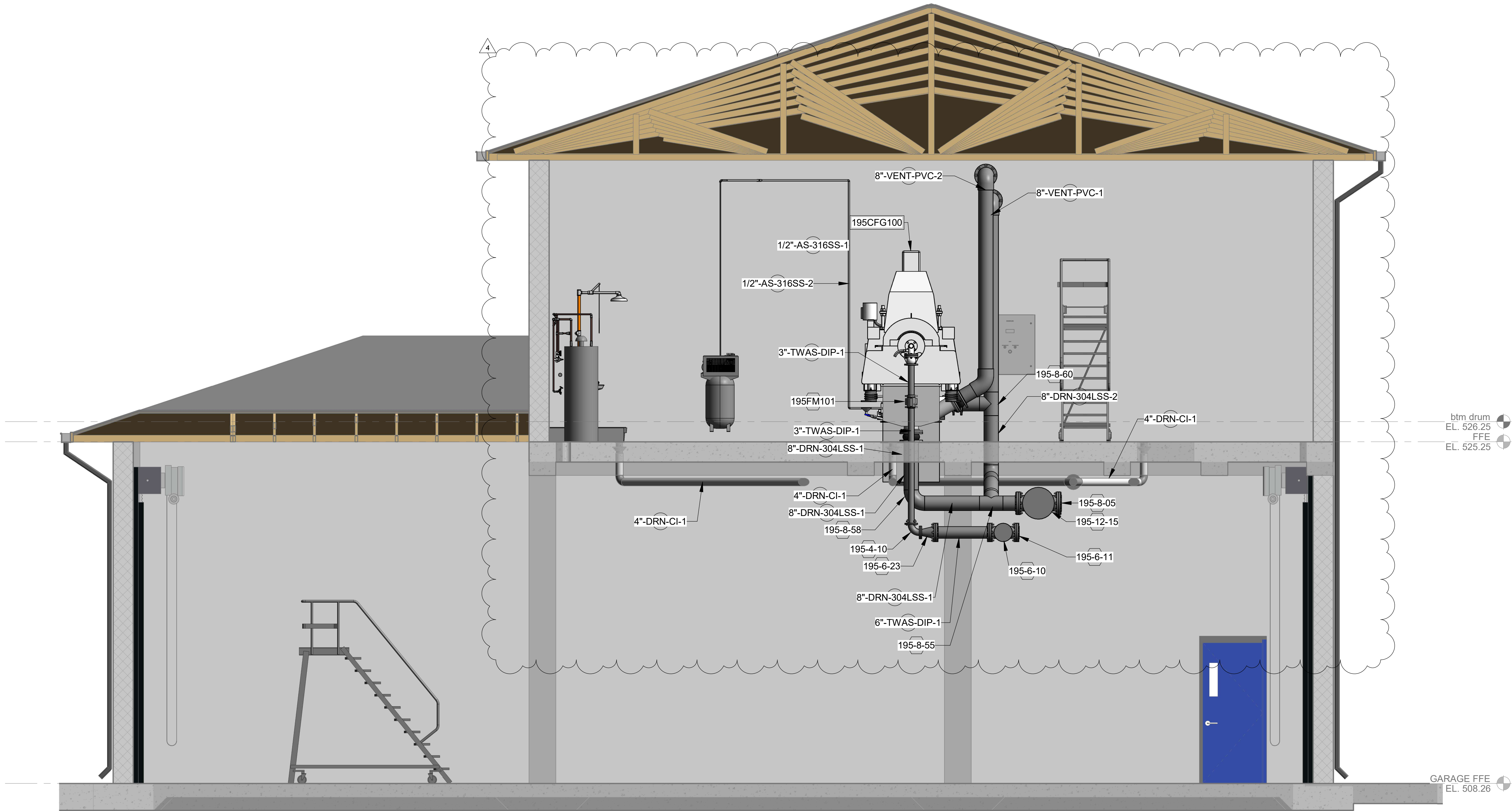
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DRAFTED:	MAB
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DATE:	MAY 2026



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HOT SPRINGS VILLAGE, ARKANSAS
**HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS**
BID SET
EQUIPMENT AND PIPING SECTIONS IV

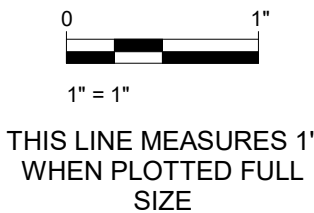
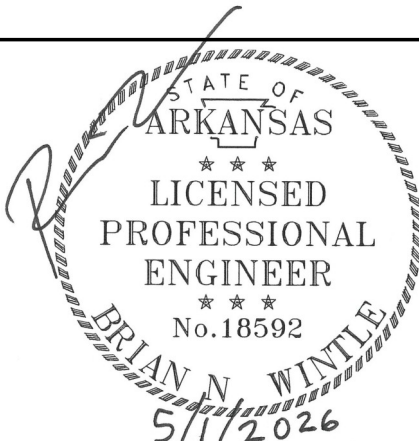
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24022
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1
195M305

NORTH INTERIOR WALL
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
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HOT SPRINGS VILLAGE, ARKANSAS
**HOT SPRINGS VILLAGE POA
CEDAR CREEK WWTP IMPROVEMENTS**
BID SET
EQUIPMENT AND PIPING SECTIONS V

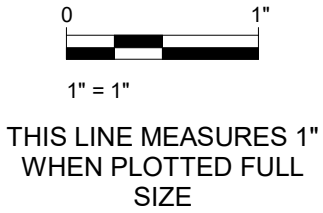
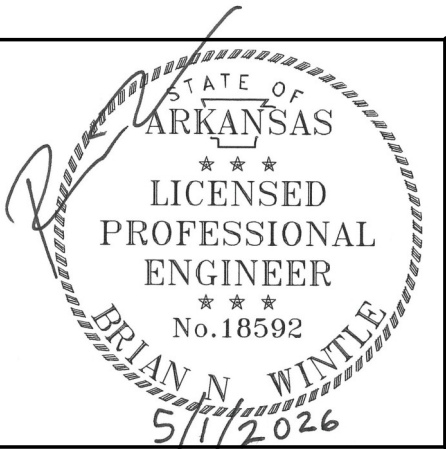
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24022
SHEET NO:
195M305

195-FITTING SCHEDULE					
MARK	COUNT	SIZE (IN.)	CONNECTION	DESCRIPTION	COMMENTS
195-4-10	1	4"	FL x FL	4" FL 90° BEND	3"-TWAS-DIP-1
195-6-02	1	6"	MJ	6" MJ SLEEVE	SEE SPECIFICATIONS FOR ACCEPTABLE TRANSITION SLEEVE
195-6-10	1	6" x 6"	FL x FL	6" FL TEE	6"-TWAS-DIP-1
195-6-11	1	6"	FL x FL	6" BLIND FLANGE	6"-TWAS-DIP-1
195-6-23	1	6" x 3"	FL x FL	6" x 3" FL REDUCER	6"-TWAS-DIP-1
195-8-05	1	8"	FL x FL	8" BLING FLANGE	12"-DRN-DIP-1
195-8-36	1	8"	WLD x WLD	8" SS 45° BEND	8"-DRN-304LSS-2
195-8-40	2	8	FL x FL	8" FLANGE RING WITH SS BIRD SCREEN	SEE SPECIFICATIONS FOR SCREEN
195-8-55	1	8"	WLD x WLD	8" SS TEE	8"-DRN-304LSS-1
195-8-58	1	8"	WLD x WLD	8" SS 90° BEND	8"-DRN-304LSS-1
195-8-60	1	8"	FL x FL	8" SS TEE	FLANGE CONNECTION WHERE REQUIRED
195-12-02	1	12"	MJ	12" MJ SLEEVE	SEE SPECIFICATIONS FOR ACCEPTABLE TRANSITION SLEEVE
195-12-15	1	12" x 8"	FL x FL	12" x 8" FL CROSS	12"-DRN-DIP-1
195-12-20	1	12"	FL x FL	12" BLING FLANGE	12"-DRN-DIP-1

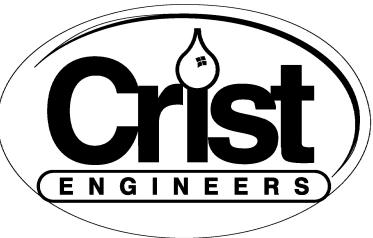
195-PROCESS MECHANICAL EQUIPMENT SCHEDULE			
MARK	QTY	DESCRIPTION	COMMENTS
1"-AVRV-NPW-1	1	1" AIR RELEASE VALVE	SEE SPECIFICATIONS
1"-BA-NPW-11	1	1" BALL VALVE	SEE SPECIFICATIONS
195CFG100	1	CENTIFUGE	SEE SPECIFICATIONS
195FM101	1	MAGNETIC METER	SEE SPECIFICATIONS

195-PIPING SCHEDULE				
MARK	SIZE (IN.)	CONNECTION	NOTE	COMMENTS
1/2"-AS-316SS-1	1/2"	WLD		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
1/2"-AS-316SS-2	1/2"	WLD		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
2"-NPW-PVC-2	2"	SW		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
2"-NPW-PVC-21	2"	SW		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
2"-PW-PVC-1	2"	SW		SEE PLUMBING PLAN FOR DETAILS
3"-TWAS-DIP-1	3"	FL x FL & B&S		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
4"-DRN-CI-1	4"	B&S		SEE PLUMBING PLAN FOR DETAILS
6"-TWAS-DIP-1	6"	B&S		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
6"-TWAS-PVC-1	6"	B&S		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-DRN-304LSS-1	8"	FL x WLD		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-DRN-304LSS-2	8"	FL x WLD		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-VENT-304LSS-1	8"	FL	PROVIDE FL x FL W/ 24 MESH 304L SS SCREEN	SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-VENT-304LSS-2	8"	FL	PROVIDE FL x FL W/ 24 MESH 304L SS SCREEN	SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-VENT-PVC-1	8"	FL x SW		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
8"-VENT-PVC-2	8"	FL x SW		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
12"-DRN-DIP-1	12"	FL & B&S		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS
12"-DRN-PVC-1	12"	B&S		SEE SCHEDULE SHEETS 00GI003 - 00GI022 FOR DETAILS

4	5/29/26	MAB	BNW	REVISED PIPING CALLOUTS AND MATERIAL
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BID SET

DEWATERING SCHEDULES

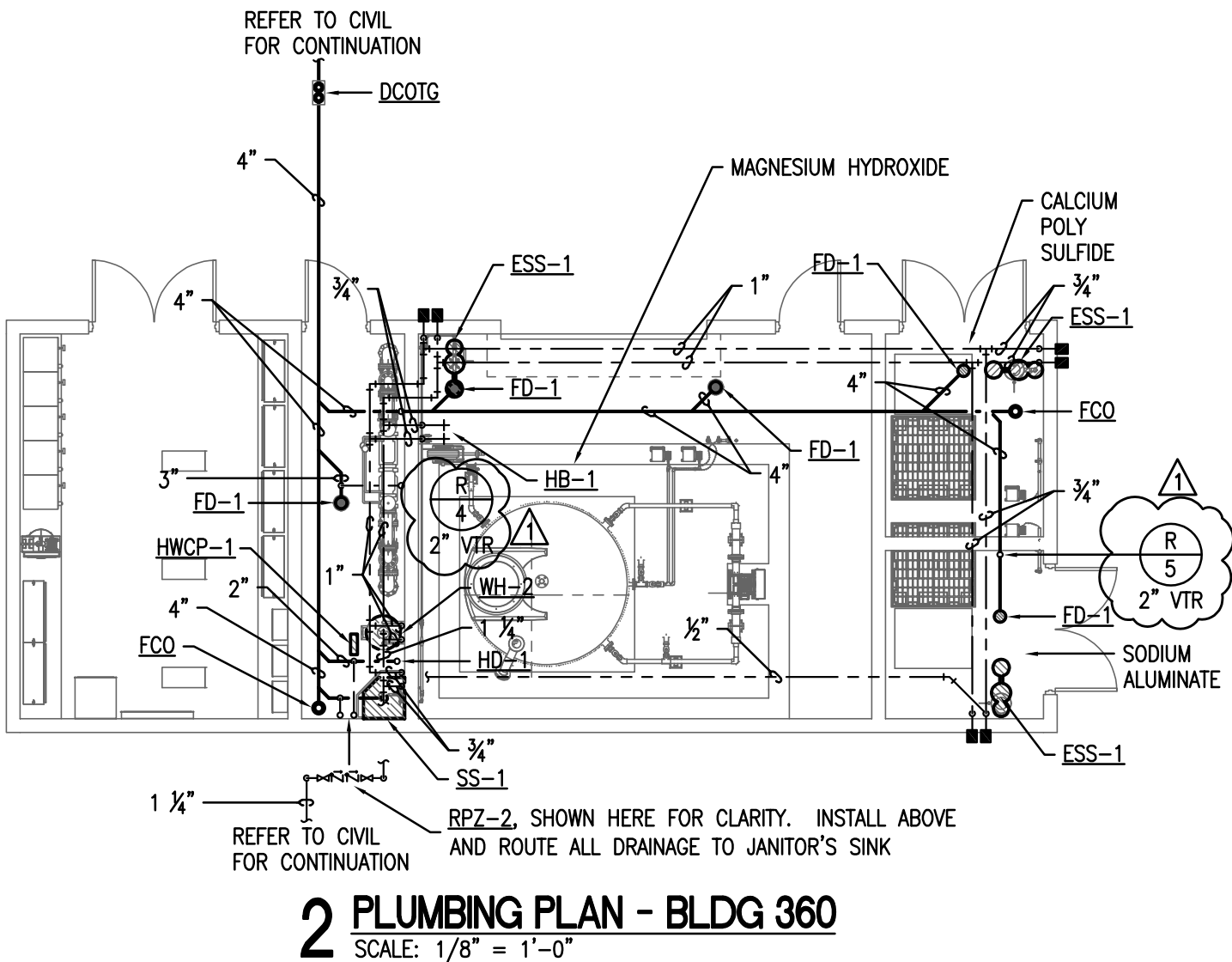
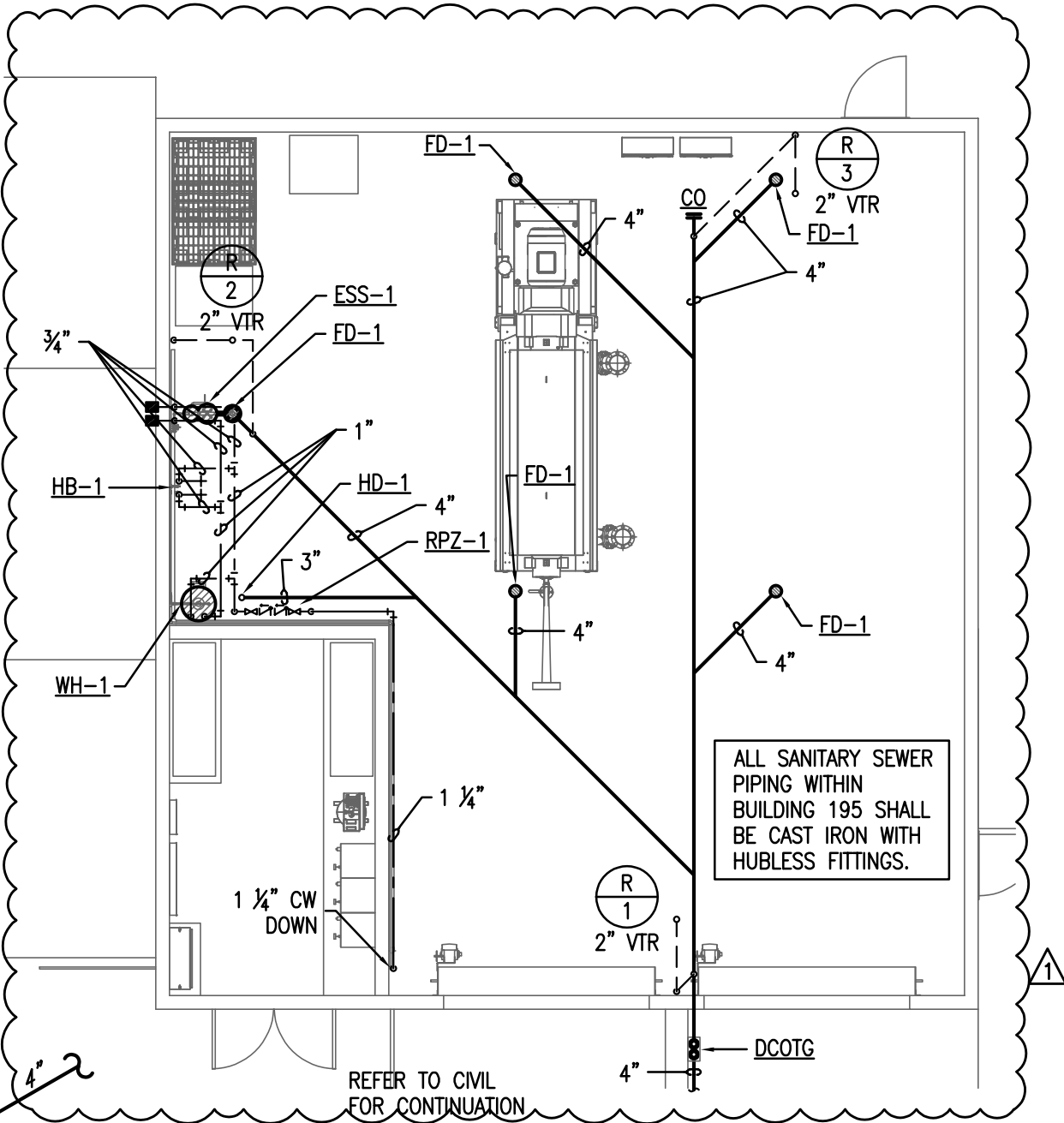
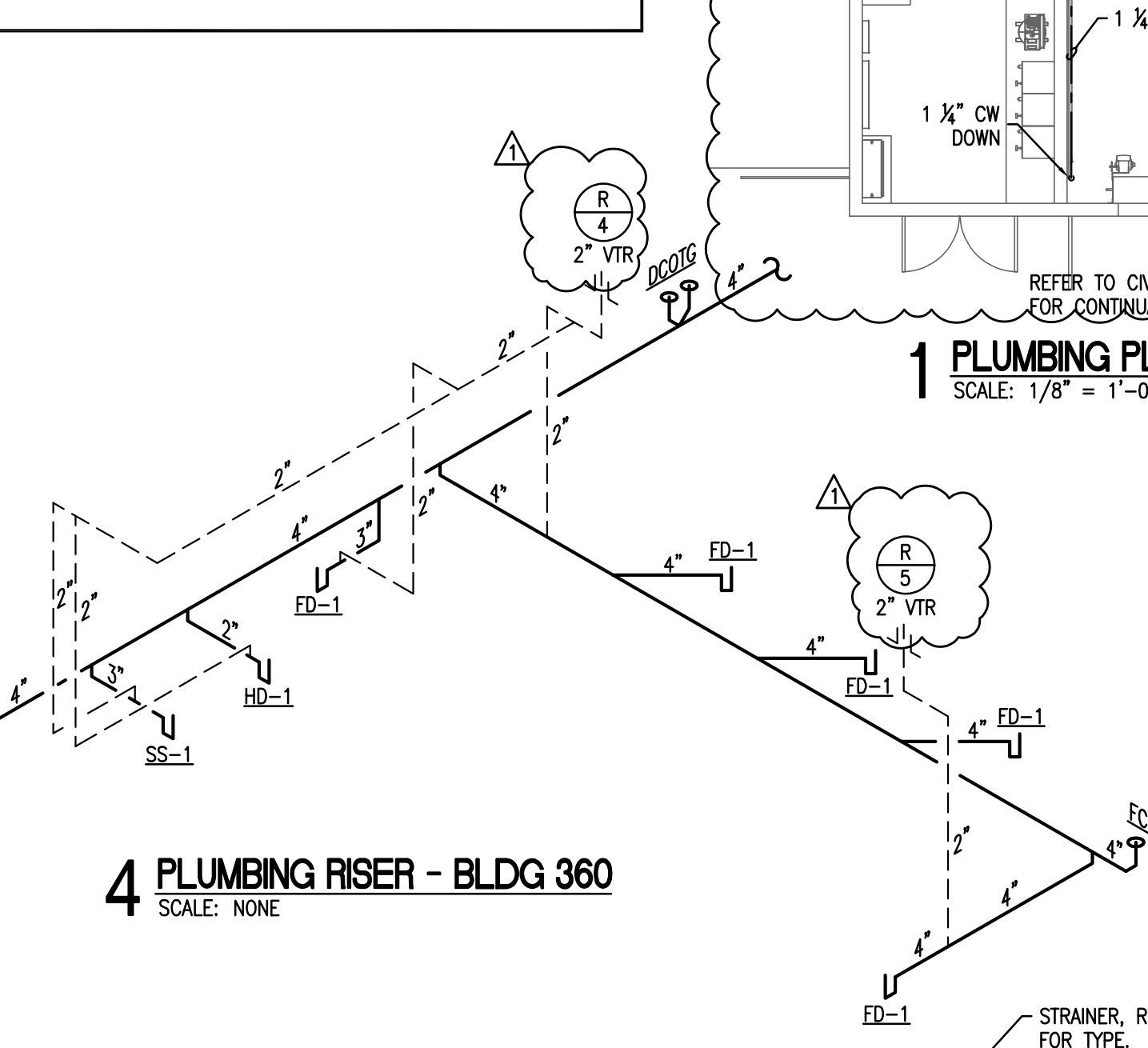
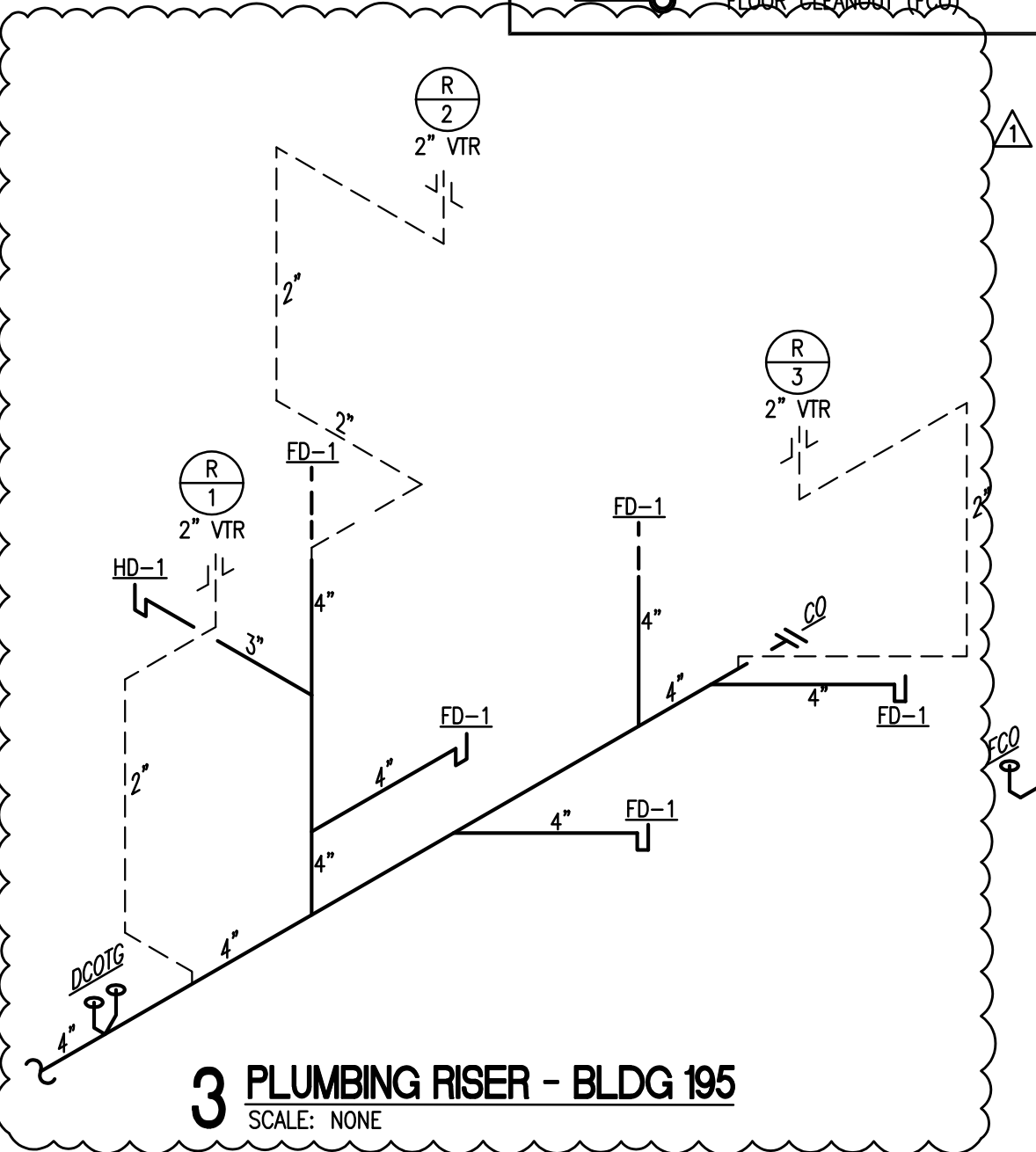
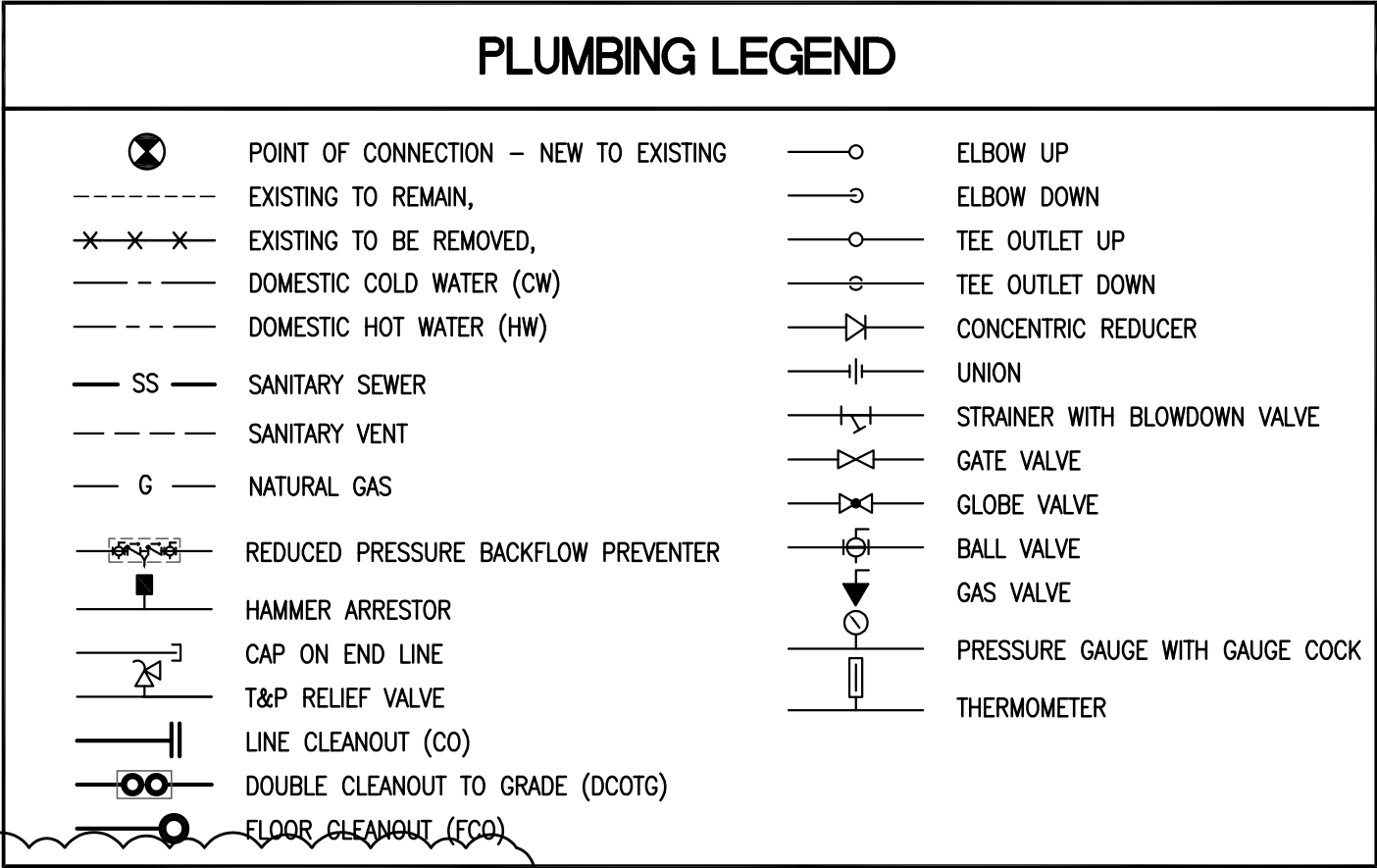
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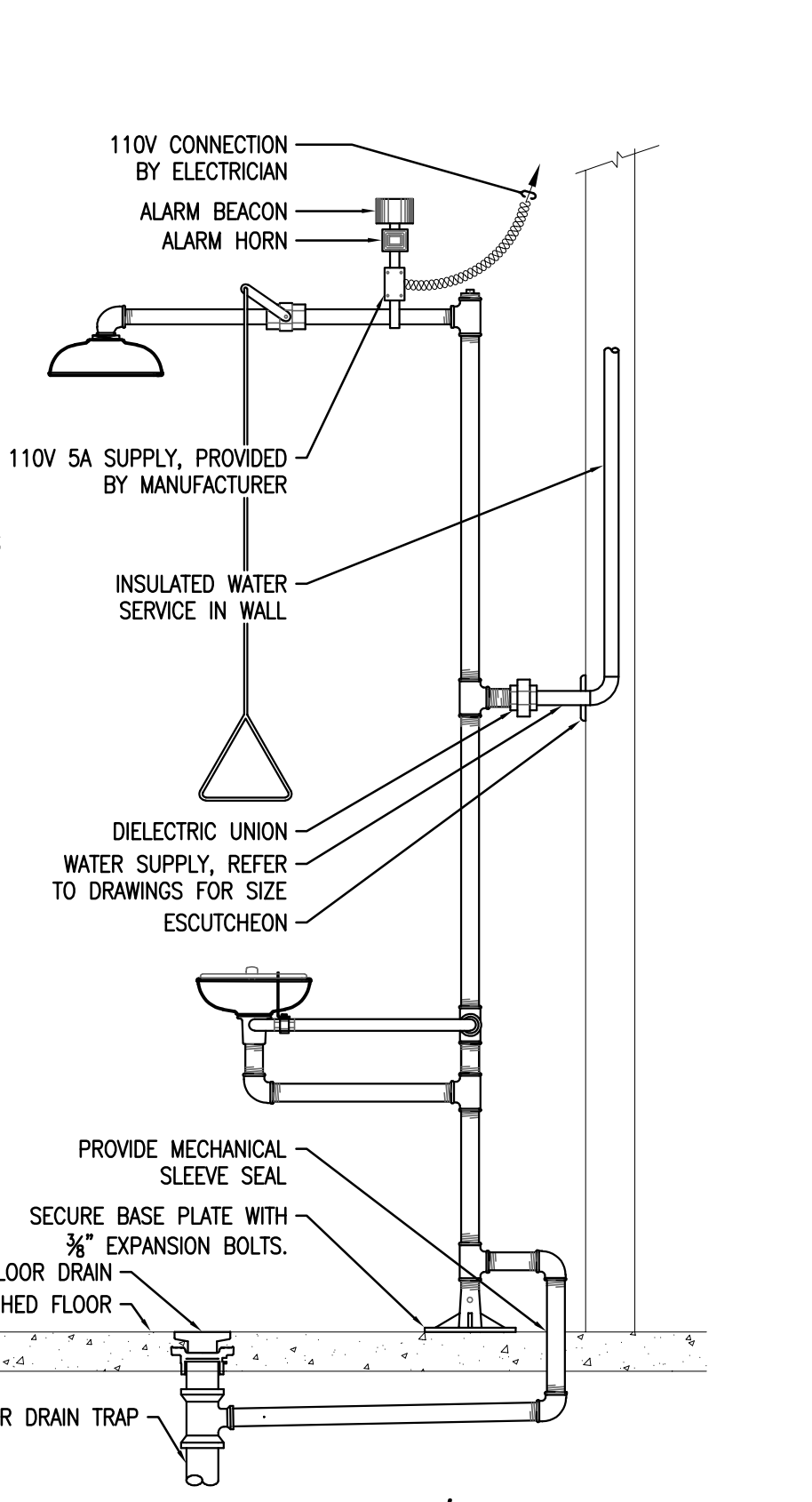
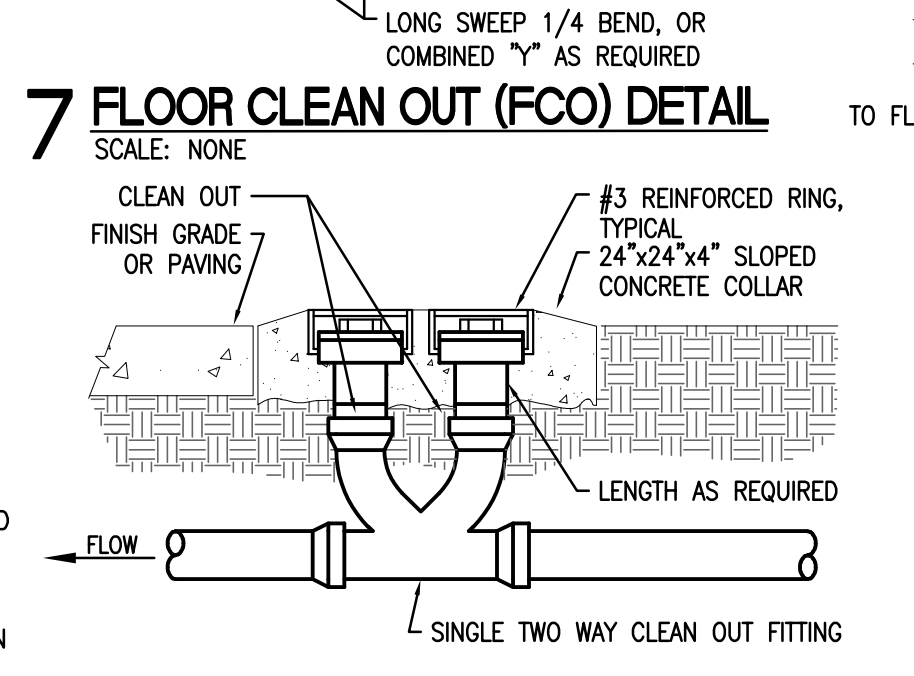
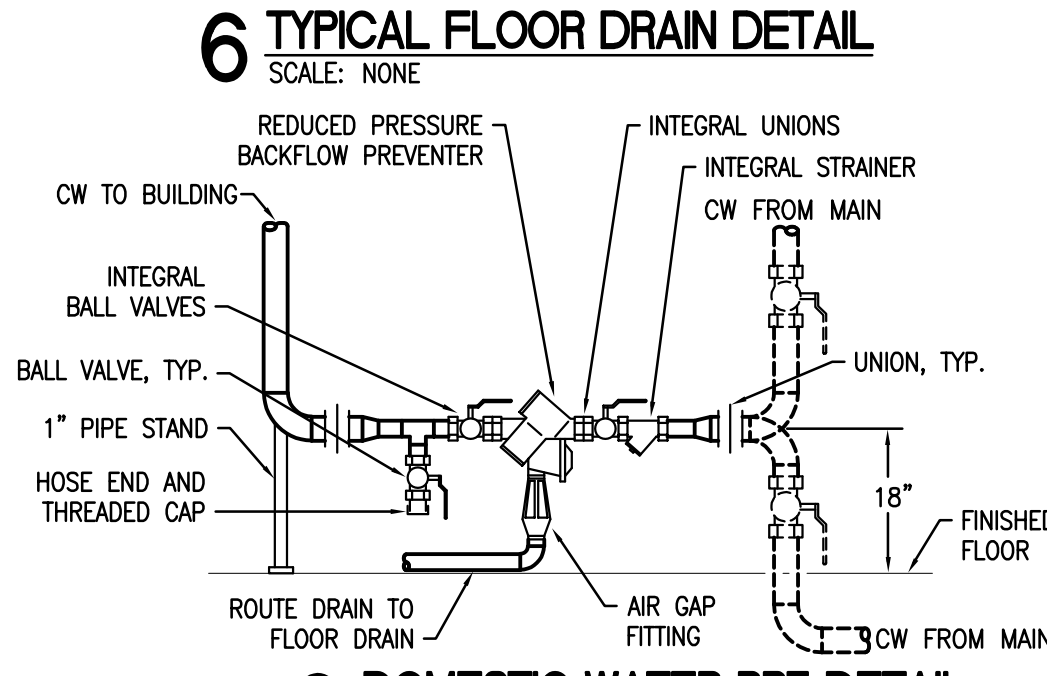
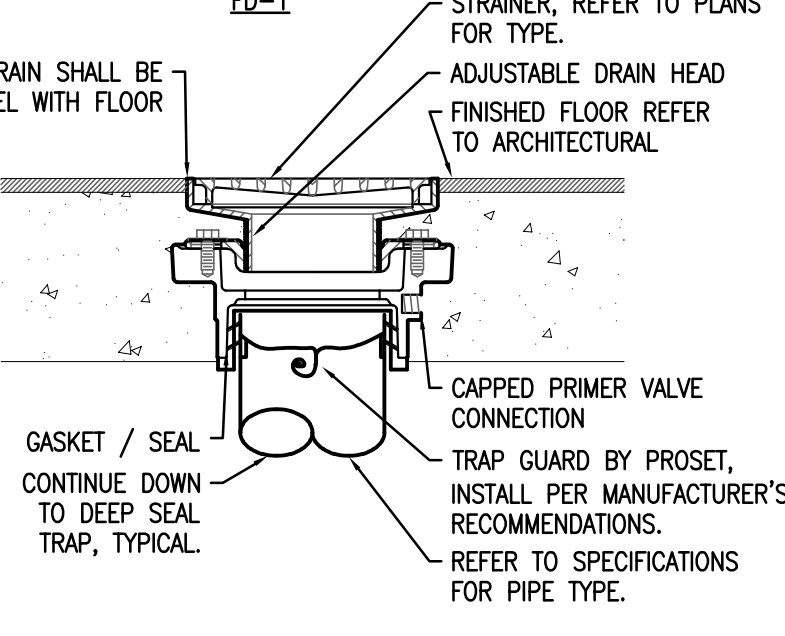
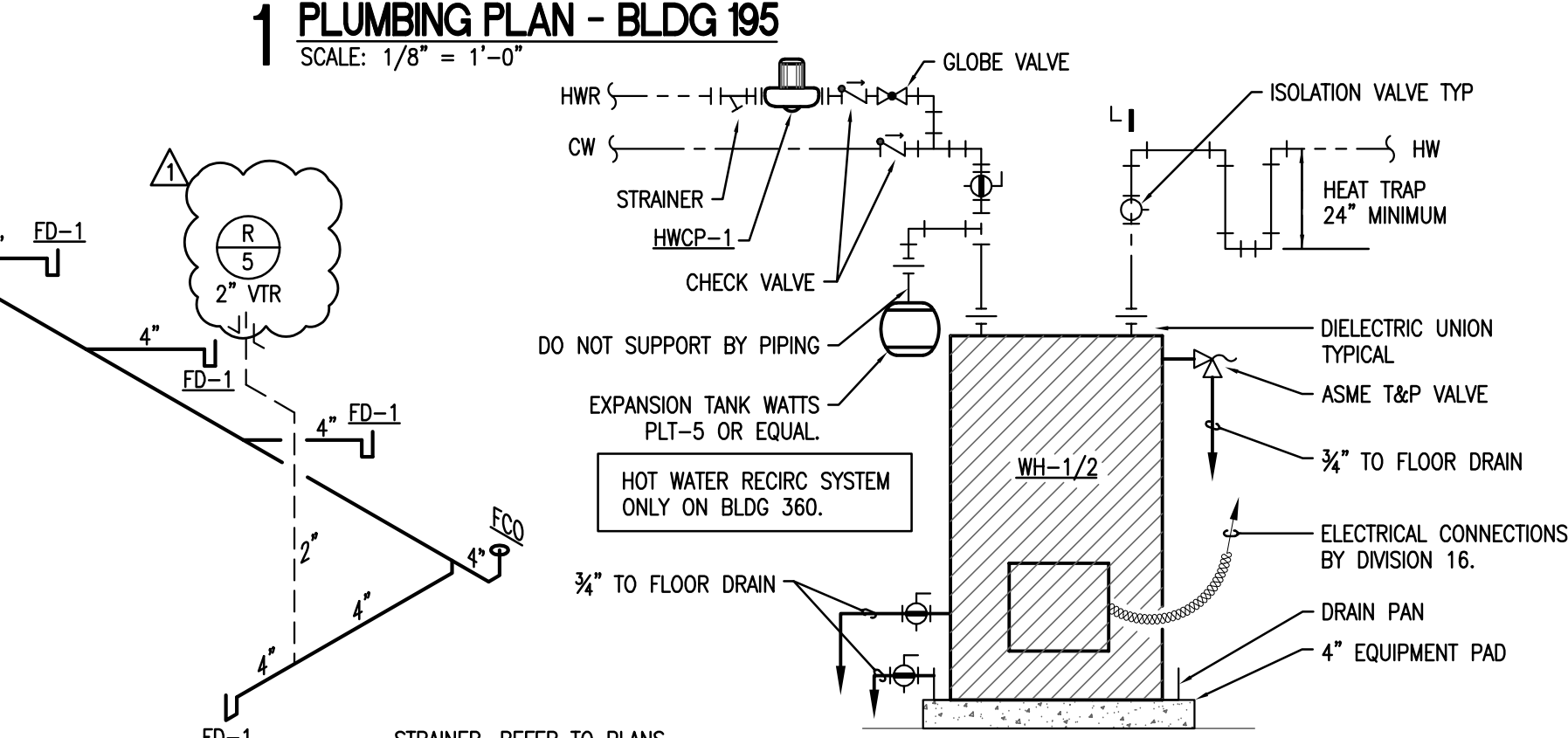
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GENERAL NOTES

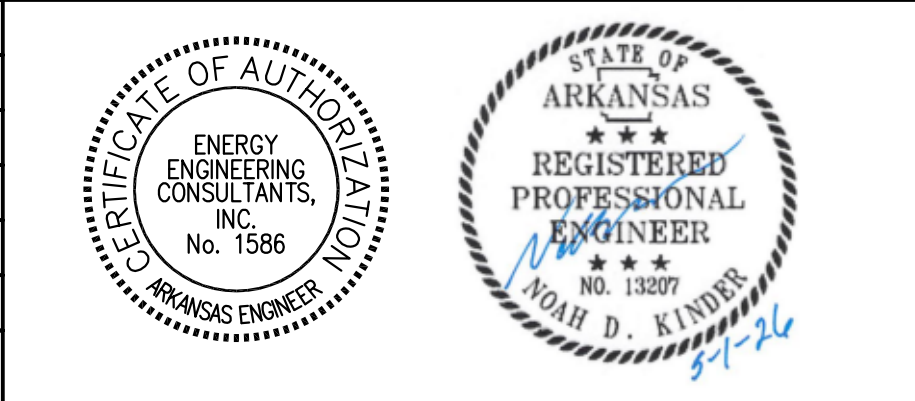
- A. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES, AMENDMENTS AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
- B. ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
- C. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- D. ALL SYSTEMS INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE W/ARCHITECTURAL PLANS AND GC.
- E. REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF THE ROOFING MANUFACTURER.
- F. SEAL ALL ROOF AND WALL PENETRATIONS WATERTIGHT. FLASH AND COUNTER-FLASH ALL ROOF PENETRATIONS. MINIMUM ACCEPTABLE HEIGHT OF FLASHING IS TWELVE (12) INCHES ABOVE ROOF.
- G. PROVIDE PRESSURE REDUCERS IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 60 PSI AT ALL OUTLETS. MINIMUM PRESSURE ACCEPTABLE AT WATER OUTLETS IS 25 PSI AT DIRECT SUPPLY FLUSH VALVES, AND 8 PSI AT ALL OTHER OUTLETS. PROVIDE PRESSURE REDUCING VALVE (REDULATOR) AT DOMESTIC WATER SERVICE ENTRANCE, AS REQUIRED.
- H. ALL PLUMBING WORK MUST BE INSTALLED HIGH AS POSSIBLE SO AS TO MAINTAIN THE MAXIMUM POSSIBLE CLEARANCE ABOVE FINISHED FLOOR.
- I. CONTRACTOR MUST VERIFY UTILITIES LOCATIONS AND INVERTS WITH EXISTING PRIOR TO PLACEMENT OF SERVICES. ALL SYSTEMS MUST BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
- J. WHEN PIPING FIVE (5) INCH DIAMETER AND OVER IS SUPPORTED FROM BAR JOISTS, EACH HANGER IS TO BE SUPPORTED BY AT LEAST TWO JOISTS BY MEANS OF SUPPLEMENTAL STEEL TO SPAN BETWEEN ADJACENT JOISTS. PIPING SIX (6) INCH DIAMETER AND OVER MUST ADDITIONALLY BE SUPPORTED FROM TOP CHORD OF STRUCTURE. KEEP PIPING THIS SIZE WITHIN 5' OF COLUMN LINES UNLESS OTHERWISE INDICATED.
- K. ALL PIPE DROPS FROM ABOVE TO BELOW FLOOR MUST BE MADE IN FURR-OUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
- L. PROVIDE SHUT-OFF VALVES AT ALL BRANCH WATER LINES, AND AT ALL BRANCHES IN WATER LINES TO INDIVIDUAL FIXTURES, GROUPS OF FIXTURES OR HOSE BIB. PROVIDE VALVE ABOVE CEILING IN BRANCH SERVING EACH WALL HYDRANT (IF APPLICABLE). INSTALL VALVES IN ACCESSIBLE LOCATIONS.
- M. PROVIDE WATER HAMMER ARRESTORS (WHA) AT END OF CW LINE RUNS. PROVIDE ACCESS TO ARRESTORS VIA ACCESS PANELS, ETC.
- N. PROVIDE STOP VALVES AT EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC. MUST BE CHROMIUM PLATED. WHERE EXPOSED IN FINISHED AREAS, CHROME PLATED PIPE IS TO BE USED.
- O. PROVIDE CLEANOUTS IN ALL SANITARY, STORM DRAINAGE & OVERFLOW LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE IN DIRECTION OF 45 DEGREES AND GREATER, AND ON ALL VERTICAL RISERS AT A HEIGHT OF 30" ABOVE FINISHED FLOOR AT THE BASE OF EACH STACK.
- P. ALL EXPOSED OR ACCESSIBLE P-TRAPS MUST BE PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- Q. MAINTAIN A MINIMUM OF 15'-0" BETWEEN ALL KNOWN FRESH AIR INTAKES AND PLUMBING VENTS FLUES, ETC. OFFSET PLUMBING VENTS BELOW ROOF AS REQUIRED TO MAINTAIN MINIMUM CLEARANCES. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
- R. ALL SANITARY SEWER LINES 3" DIA AND LESS ARE TO BE RUN AT 1/4"/FT. MINIMUM. ALL OTHERS SLOPE AT 1/8"/FT MINIMUM. UNLESS OTHERWISE INDICATED.
- S. INSULATE ALL WATER LINES ABOVE FLOOR. INSULATE ALL WATER LINES CARRYING HVAC CONDENSATE OR DRAINS FROM ICE MACHINES AND OTHER "REFRIGERATION EQUIPMENT".



PLUMBING FIXTURE ROUGH-IN SCHEDULE / SPECIFICATIONS								
DESIGNATION	DESCRIPTION	SAN.	VENT	C.W.	H.W.	MOUNTING	REFERENCE PRODUCT	COMMENTS
SS-1	JANITOR'S SINK	3"	2"	3/4"	3/4"	FLOOR	ACORN TNC-24-SH-SSC, 24"x24"x12", WITH STAINLESS STEEL CAP, CAST BRASS DRAIN BODY, STAINLESS STEEL STRAINER, AND LINT BASKET. CHICAGO FAUCETS 445-897SRXKCCP WALL MOUNTED 3 3/8" BODY, ADJUSTABLE ARMS 3" - 8 3/8" HOT AND COLD WATER SINK FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION. RIGID SPOUT AND MALE HOSE THREAD, PAIL HOOK, AND WALL BRACE. LEVER HANDLES, CERAMIC CARTRIDGE WITH INTEGRATED CHECK VALVE 1/4 TURN OPERATING CARTRIDGES, AND ATMOSPHERIC VACUUM BREAKER.	PROVIDE WITH STAINLESS STEEL SPLASH PANELS. PROVIDE WITH FIAT 30" FLEX HOSE AND HOSE HOOK. PROVIDE WITH MOP HANGER W/ 3 RUBBER GRIPS.
MV-1	MIXING VALVE	---	---	1/2"	1/2"	SUSPENDED	LEONARD MODEL TA-300, 4 GPM FLOW AT 10 PSI PRESSURE DROP, SOLID BI-METAL THERMOSTAT, COLOR-CODED DIALS, LOCKING TEMPERATURE REGULATOR HANDLES, ADJUSTABLE LIMIT STOPS, INTEGRAL HOT AND COLD SUPPLY CHECKSTOPS, OUTLET BALL VALVE SHUTOFFS, COLOR-CODED DIAL THERMOMETER, INLET PIPING MANIFOLD, ROUGH BRONZE FINISH, ASSE 1017 LISTED.	FACTORY PRE-ASSEMBLED AND TESTED. SET TO 75°F DISCHARGE. MOUNT ABOVE CEILING IN ACCESSIBLE LOCATION.
ESS-1	EMERGENCY EYEWASH / DRENCH SHOWER	---	---	1 1/4"	---	FLOOR	GUARDIAN MODEL G1902 SAFETY STATION WITH EYEWASH. PROVIDE WITH STAINLESS STEEL BOWL, HAND CONTROLS, INTERNAL FLOW CONTROL, AND OVERHEAD SHOWER WITH PULL CHAIN.	FURNISH WITH ANSI-COMPLIANT IDENTIFICATION SIGN. PROVIDE AP 275-100 ALARM SYSTEM INCLUDING LIGHT, HORN, AUXILIARY ALARM CONTACTS, AND FLOW SWITCH. PROVIDE WITH MIXING VALVE MV-1.
FD-1	FLOOR DRAIN	3"	2"	---	---	FLOOR	PROSET MODEL T35630-F-P FLOOR DRAIN, 3" OUTLET, 5" DIAMETER NICKEL BRONZE TOP, WITH INTEGRAL TRAP GUARD, AND ADJ. COLLAR.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.
HD-1	HUB DRAIN	2"	2"	---	---	FLOOR	WATTS MODEL FD-100-DD, 2" FLOOR DRAIN WITH HUB FUNNEL. EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE CAST IRON HUB FUNNEL, AND NO HUB (STANDARD) OUTLET.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.
HWCP-1	HOT WATER CIRCULATOR PUMP	---	---	---	3/4"	SUSPENDED	TACO MODEL 007-SF5 CIRCULATING PUMP, STAINLESS STEEL VOLUTE, 120V, 1/25 HP, 3/4" FLANGED CONNECTIONS. 2 GPM AT 5 FEET HEAD.	INSTALL VERTICALLY IN PIPING RISER. PROVIDE ISOLATION VALVES, PLUG SET, TIMER, AND AQUASTAT PACKAGE.
SS-1	JANITOR'S SINK	3"	2"	3/4"	3/4"	FLOOR	ACORN TNC-24-SH-SSC, 24"x24"x12", WITH STAINLESS STEEL CAP, CAST BRASS DRAIN BODY, STAINLESS STEEL STRAINER, AND LINT BASKET. CHICAGO FAUCETS 445-897SRXKCCP WALL MOUNTED 3 3/8" BODY, ADJUSTABLE ARMS 3" - 8 3/8" HOT AND COLD WATER SINK FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION. RIGID SPOUT AND MALE HOSE THREAD, PAIL HOOK, AND WALL BRACE. LEVER HANDLES, CERAMIC CARTRIDGE WITH INTEGRATED CHECK VALVE 1/4 TURN OPERATING CARTRIDGES, AND ATMOSPHERIC VACUUM BREAKER.	PROVIDE WITH STAINLESS STEEL SPLASH PANELS. PROVIDE WITH FIAT 30" FLEX HOSE AND HOSE HOOK. PROVIDE WITH MOP HANGER W/ 3 RUBBER GRIPS.
HB-1	HOT/COLD HOSE BIB	---	---	3/4"	3/4"	WALL	CHICAGO FAUCETS 445-897SRXKCCP WALL MOUNTED 3 3/8" BODY, ADJUSTABLE ARMS 3" - 8 3/8" HOT AND COLD WATER SINK FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION. RIGID SPOUT AND MALE HOSE THREAD, PAIL HOOK, AND WALL BRACE. LEVER HANDLES, CERAMIC CARTRIDGE WITH INTEGRATED CHECK VALVE 1/4 TURN OPERATING CARTRIDGES, AND ATMOSPHERIC VACUUM BREAKER.	INSTALL OUTLET AT 24" AFF.
WH-1 WH-2	ELECTRIC WATER HEATER	---	---	1"	1"	FLOOR	A.O. SMITH MODEL DRE-52, 50 GALLON, 12.3 KW ELEMENTS, 480 VOLT / 3Ø. 63 GPH RECOVERY AT 80°F RISE. ROUTE FULL SIZE T&P DISCHARGE TO JAN. SINK / DRAIN.	INSTALL ON CONCRETE HOUSEKEEPING PAD / WATER HEATER PLATFORM. PROVIDE CATCH PAN. ROUTE CATCH PAN DRAIN FULL SIZE (3/4" MINIMUM) TO BUILDING EXTERIOR.



REV. NO.	DATE	DRWN	CHKD	REMARKS



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DRAFTED:	ES
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HOT SPRINGS VILLAGE, ARKANSAS HOT SPRINGS VILLAGE POA CEDAR CREEK WWTP IMPROVEMENTS BID SET PLUMBING PLAN	JOB NO. 24022 SHEET NO. P-1
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