

Attachment A

SHPO 106

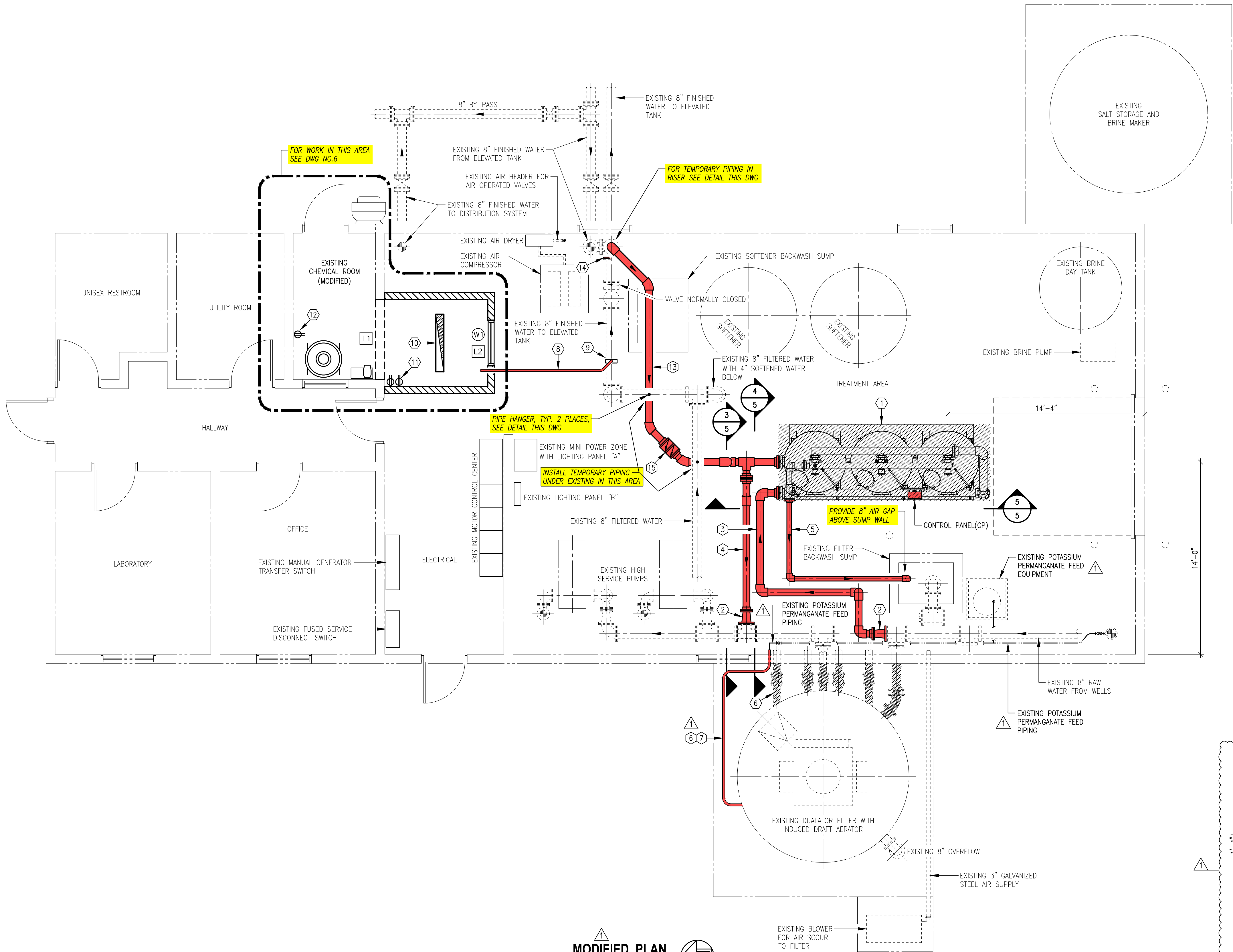
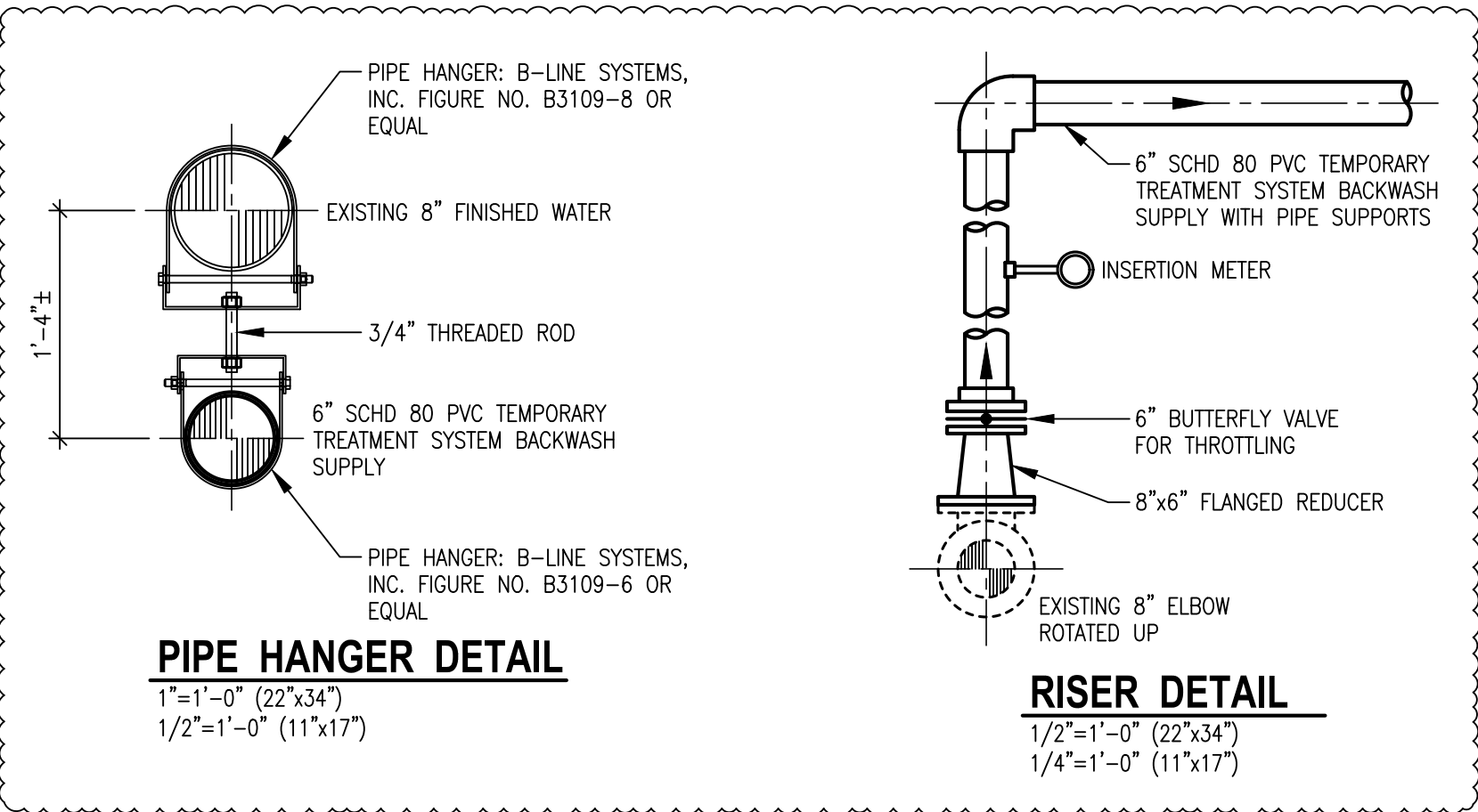
Review Part 3

KEY NOTES THIS DWG:

- ① A. TEMPORARY TREATMENT SYSTEM ON SKID, TRIPLEX 54"x60" FILTER ARRANGEMENT, SEE SPECIFICATIONS.
- B. CP = SYSTEM 120V CONTROL PANEL
- C. RUN 3-12 AWG IN 3/4" CONDUIT FOR TEMPORARY POWER TO CONTROL PANEL FROM EXISTING LIGHTING PANEL "A" SPARE CIRCUIT
- ② 8"x6" FLANGED REDUCER.
- ③ 6" SCHD 80 PVC TEMPORARY TREATMENT SYSTEM INFLUENT WITH PIPE SUPPORTS.
- ④ 6" SCHD 80 PVC TEMPORARY TREATMENT SYSTEM EFFLUENT WITH PIPE SUPPORTS.
- ⑤ 4" SCHD 80 PVC TEMPORARY TREATMENT SYSTEM BACKWASH OUTLET WITH PIPE SUPPORTS.
- ⑥ INSTALL NEW HEAT TRACING AND INSULATION WITH PROTECTIVE JACKETING ON ALL EXTERIOR PIPING BETWEEN FILTER AND WALL AS SHOWN WITH SHADING, TYP. 12 PLACES. RECONNECT NEW HEAT TRACING TO EXISTING ELECTRICAL CIRCUITS.
- ⑦ NEW 1/2" SCHD 80 PVC POTASSIUM PERMANGANATE FEED PIPING, TIE-IN TO EXISTING AT INTERIOR.
- ⑧ 1" SCHD 80 PVC WITH 1/4" I.D. FLEXIBLE TUBING AT CEILING FOR SODIUM HYPOCHLORITE FEED TO FINISHED WATER PIPING TO ELEVATED TANK.
- ⑨ CHEMICAL FEED TAP WITH INJECTION NOZZLE, SEE DETAIL DWG NO.6
- ⑩ PHILIPS DAY-BRITE LIGHTING "DW VAPORLUME LED" MODEL NO. DWAE51L840-4-U OR EQUAL WITH SURFACE TYPE MOUNTING. CONNECT TO EXISTING LIGHTING PANEL "A" CIRCUIT FOR ROOM
- ⑪ DUPLEX GROUND FAULT RECEPTACLE FOR CHEMICAL FEED PUMP - 125V, 20A, 2P, 3W; 5-20R, SPEC. GRADE, HUBBELL GF 5362 OR EQUAL, ACCEPTABLE EQUAL: CROUSE-HINDS. RECEPTACLES TO BE ENERGIZED WHEN WELL AND/OR HIGH SERVICE PUMPS ARE RUNNING, CONNECT TO EXISTING LIGHTING PANEL "A" CIRCUIT FOR ROOM
- ⑫ DUPLEX GROUND FAULT RECEPTACLE FOR DIGITAL SCALE - 125V, 20A, 2P, 3W; 5-20R, SPEC. GRADE, HUBBELL GF 5362 OR EQUAL, ACCEPTABLE EQUAL: CROUSE-HINDS. CONNECT TO EXISTING LIGHTING PANEL "A" CIRCUIT FOR ROOM
- ⑬ 6" SCHD 80 PVC TEMPORARY TREATMENT SYSTEM BACKWASH SUPPLY WITH PIPE SUPPORTS.
- ⑭ BLIND FLANGE
- ⑮ 6" DOUBLE CHECK VALVE ASSEMBLY

GENERAL NOTES:

- 1) L1 DENOTES LINTEL LOCATION AND NUMBER, SEE DETAIL DWG NO.6
- W1 DENOTES WINDOW LOCATION AND NUMBER, SEE DETAIL DWG NO.6
- 2) ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL COMPLY WITH NSF STANDARDS 60 AND 61.
- 3) SCHD 80 PVC FOR FEED LINES SHALL HAVE LONG RADIUS ELBOWS.
- 4) PIPE SUPPORT CLIPS SHALL BE NONMETALLIC AND HAVE STAINLESS STEEL ANCHOR SCREWS. CLIP SPACING SHALL BE AS PER MANUFACTURER SPECIFICATIONS.
- 5) ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70 NEC 2017.
- 6) ALL CONDUITS SHALL BE SCHD 40 PVC WITH SIZE PER NEC 2017 ANNEX C TABLE C.10, ALL BURIED CONDUITS SHALL HAVE MINIMUM 30" COVER AND WARNING TAPE.
- 7) SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC 2017 TABLE 310.15(B)(16)
- 8) CONDUIT SUPPORT CLIPS SHALL BE NONMETALLIC AND HAVE STAINLESS STEEL ANCHOR SCREWS. CLIP SPACING SHALL BE AS PER MANUFACTURER SPECIFICATIONS.
- 9) INTERIOR PAINTING SHALL BE DONE PRIOR TO INSTALLING ELECTRICAL GEAR AND CONDUITS ON WALLS AND CEILING.
- 10) SURFACE MOUNT ALL RECEPTACLE BOXES PLUMB AND LEVEL.



MODIFIED PLAN
1/4"=1'-0" (22"x34")
1/8"=1'-0" (11"x17")



COPYRIGHT © 2022, VAUGHN, COAST & VAUGHN, INC.

NO.	DATE	REVISION
1	5/30/23	REVISED PLAN, KEY NOTES AND ADDED DETAILS
2	10/6/23	REVISED KEY NOTE 15 TO DOUBLE CHECK VALVE ASSEMBLY

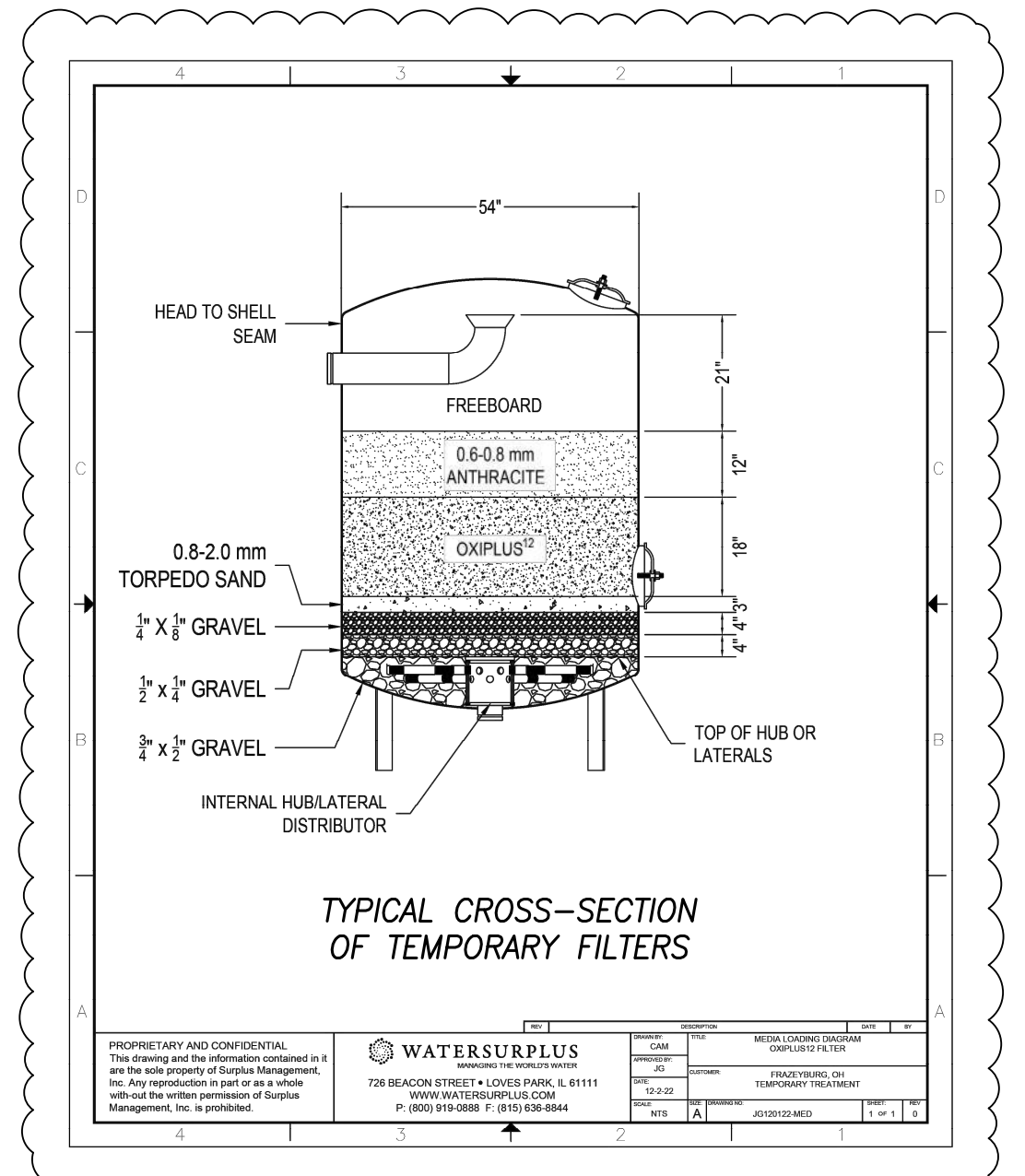
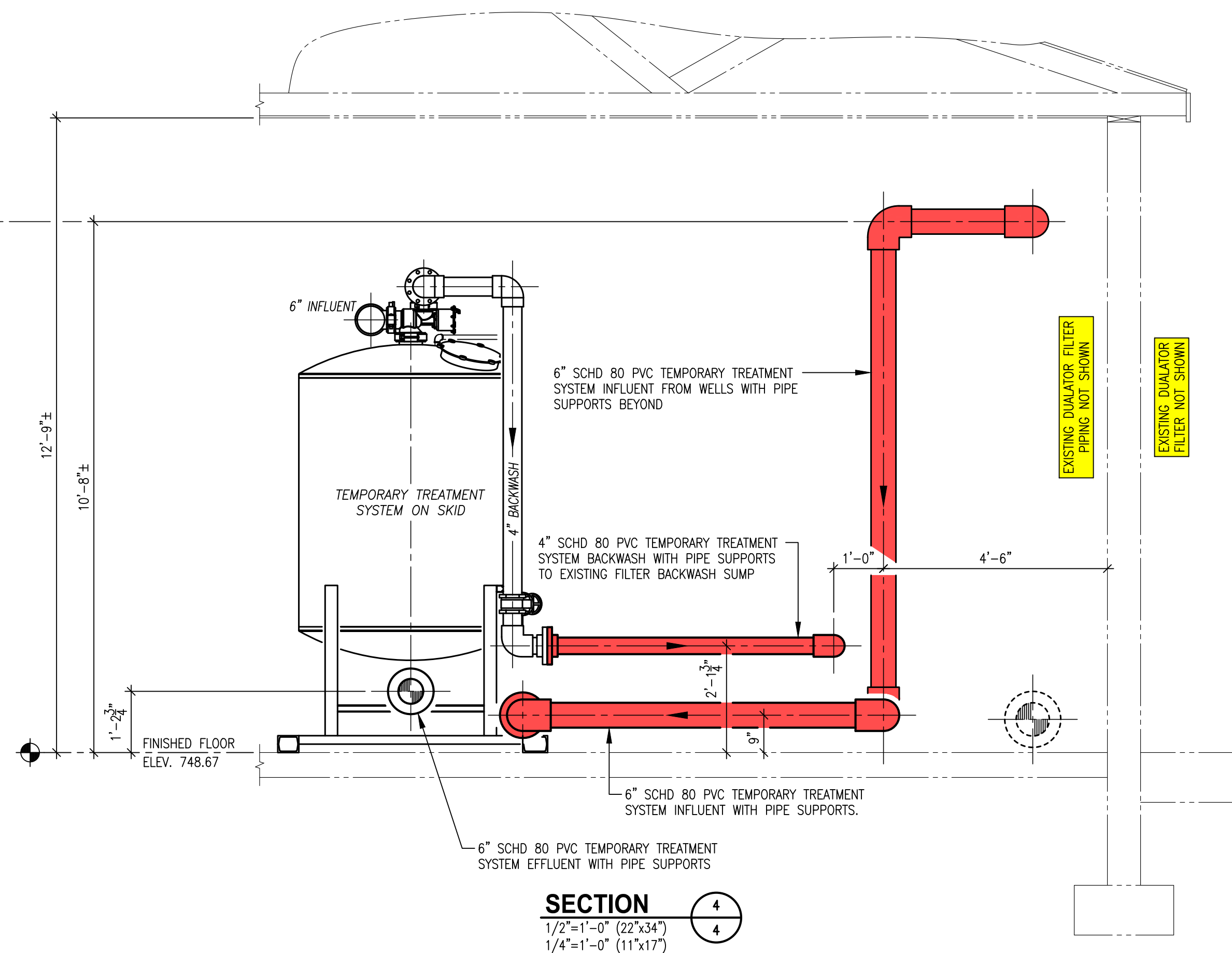
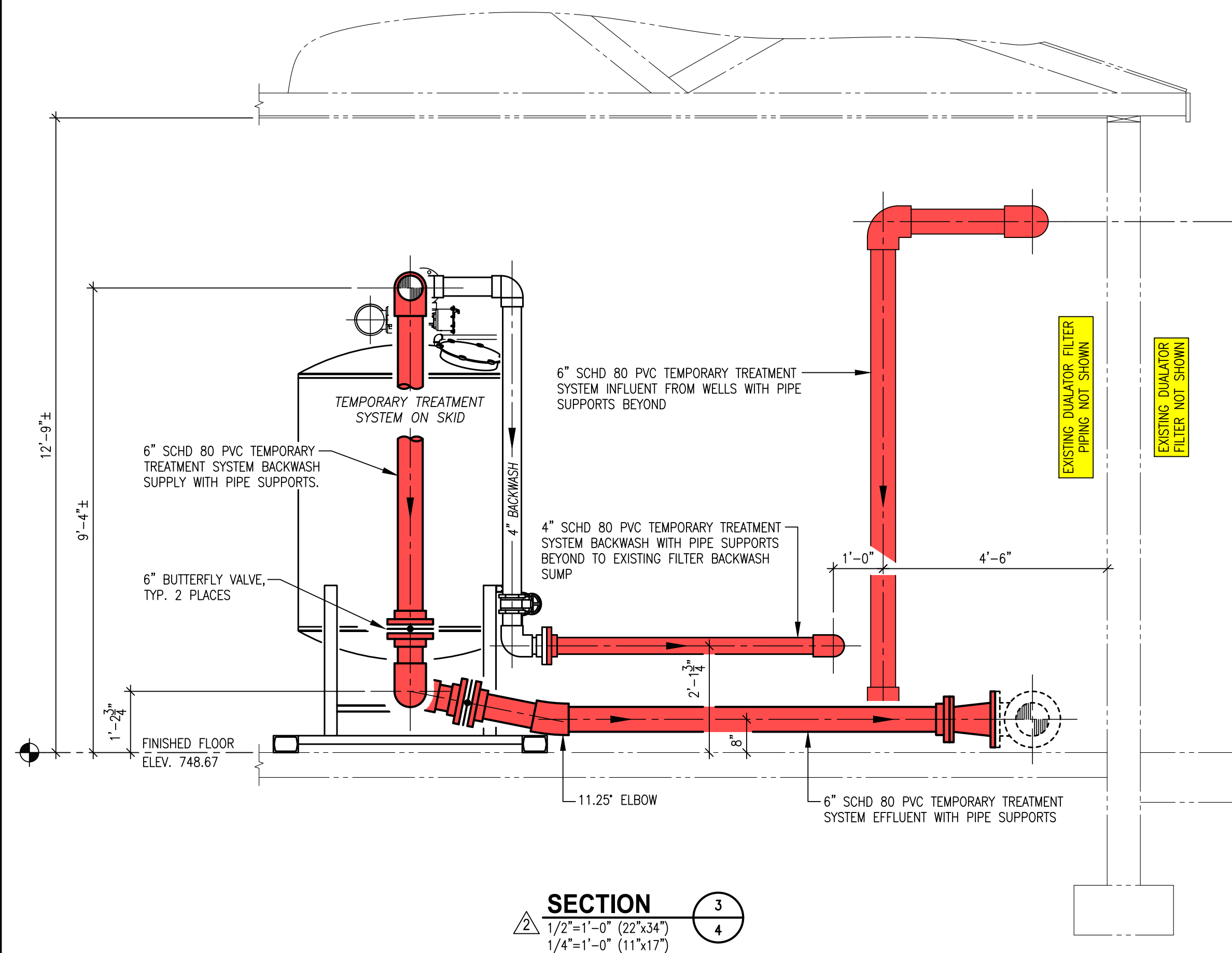
DRAWN BY:	DAVID STEWART
CHECKED BY:	MORGAN K. COAST



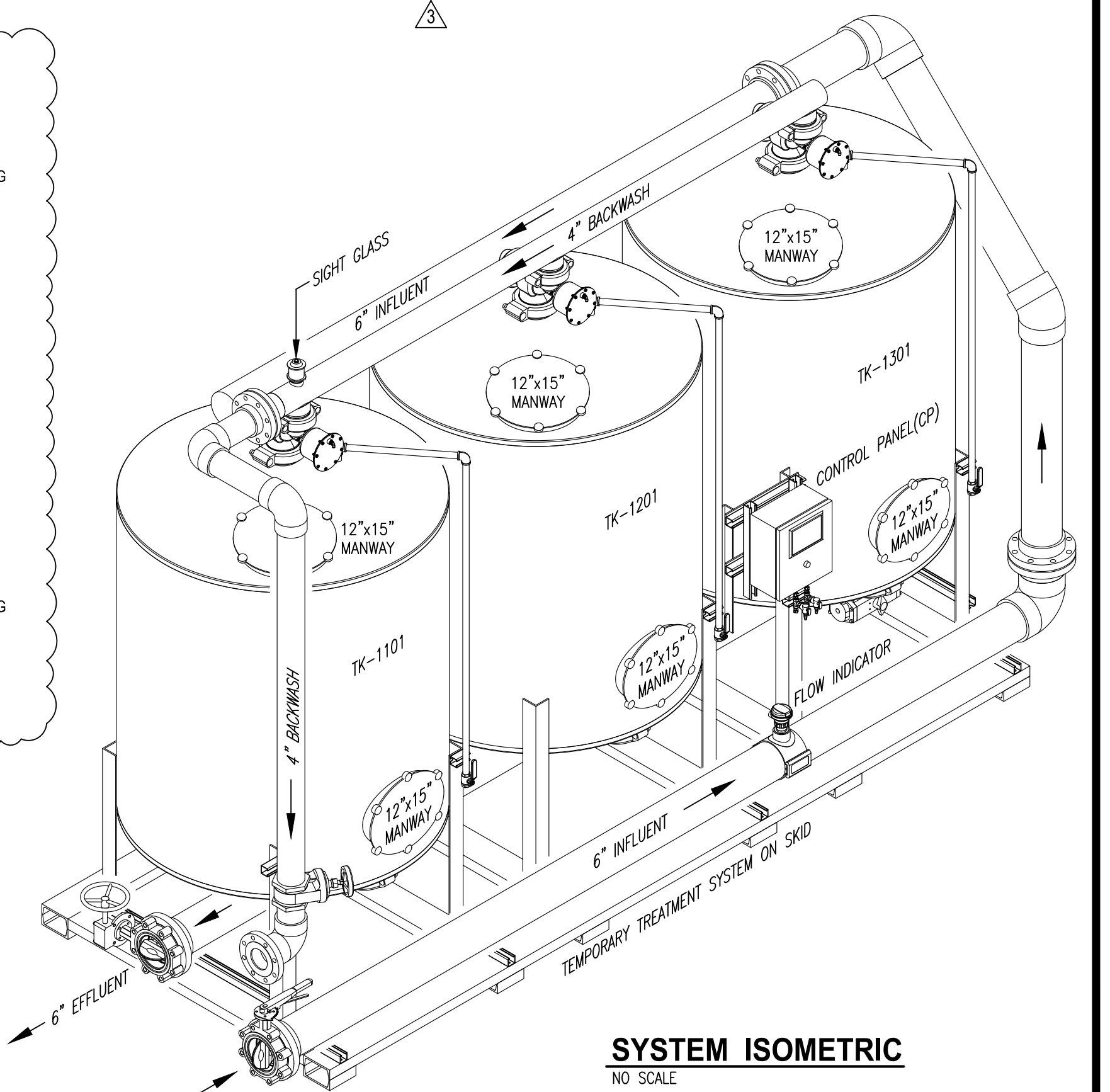
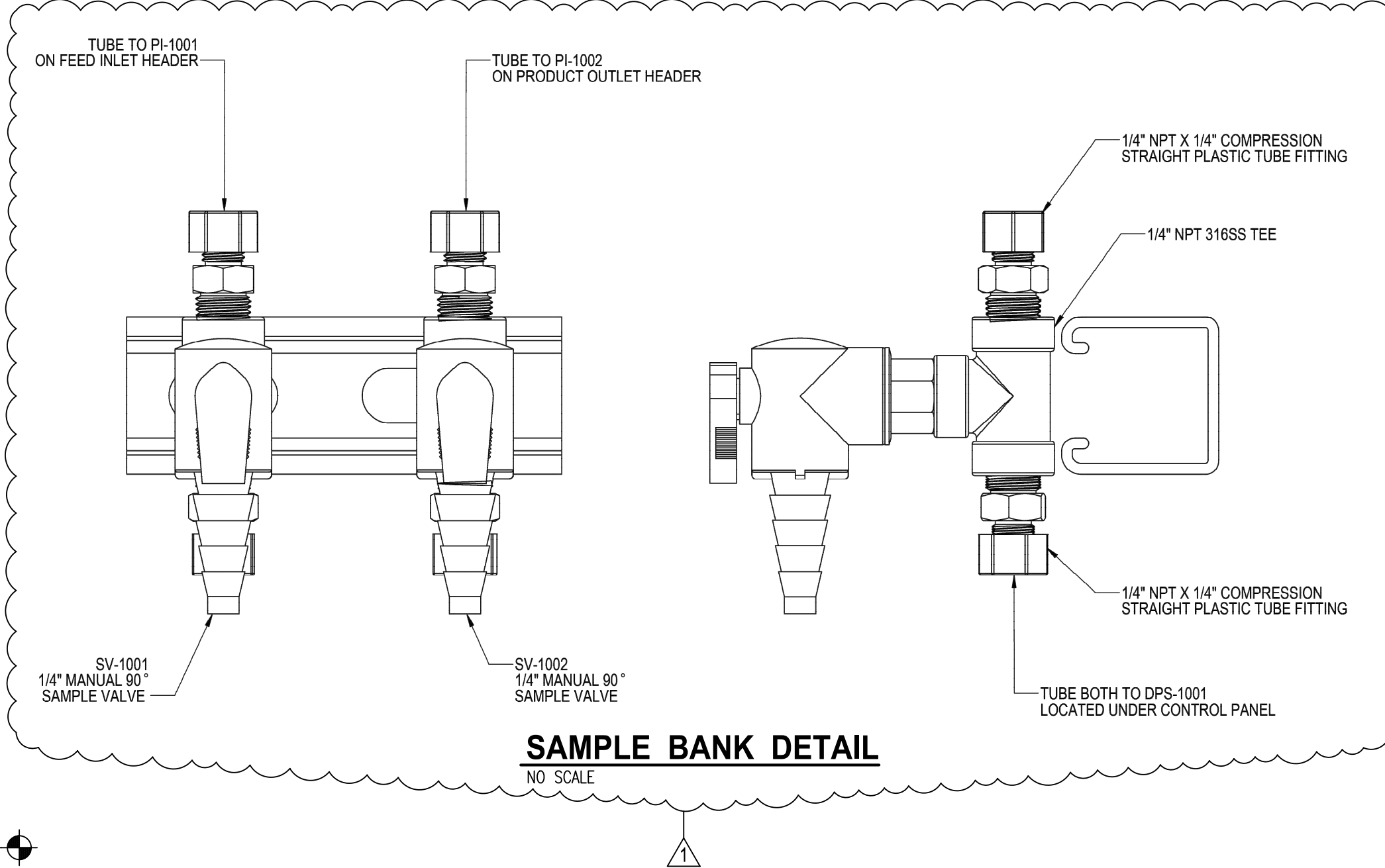
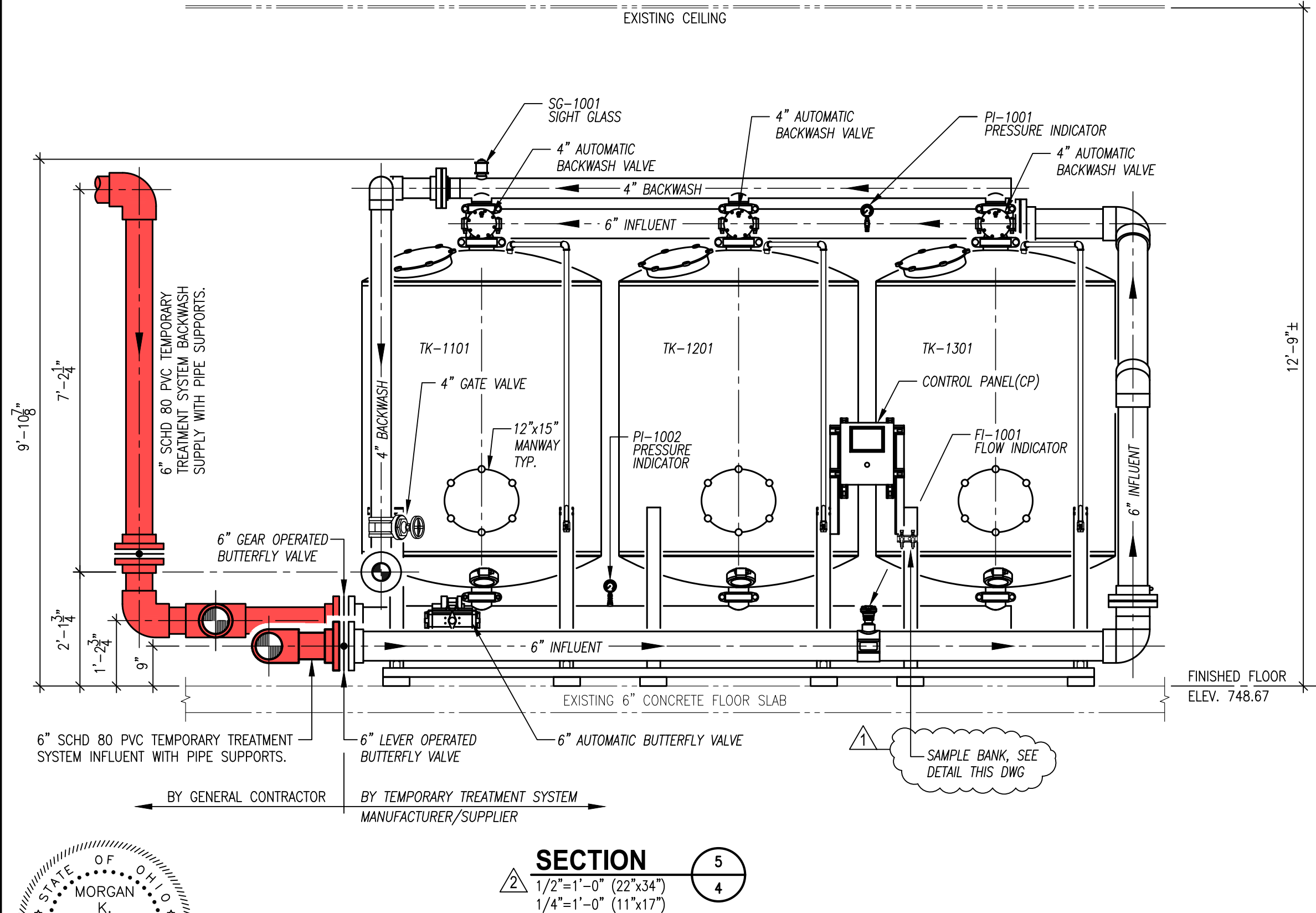
VILLAGE OF FRAZEYSBURG
- Water Treatment Plant Improvements -
Muskingum County, Ohio

MODIFIED PLAN AND DETAILS

SCALE:	AS SHOWN	PROJECT NO.:	-
DATE:	MAY 2022	DRAWING NO.:	4r



- ## MEDIA SPECIFICATIONS
- Temporary Filters
- a. Anthracite, torpedo sand and support gravel to meet AWWA B100 Standards
 - b. Anthracite - filter anthracite be 12 inches in depth with an effective size of 0.6 mm to 0.8 mm with a uniformity coefficient 1.7
 - c. Torpedo Sand - 3-inch layer having an effective size of 0.8 mm to 2.0 mm and a uniformity coefficient of 1.7
 - d. OxPlus 12 filter media, 18" depth, 0.55 mm effective size, uniformity coefficient of less than 1.6.



NO.	DATE	REVISION		DRAWN BY:
1	11/9/22	ADDED SAMPLE BANK LOCATIONS AND TYPICAL FILTER CROSS SECTION	dms	DAVID STEWART
2	5/30/23	REVISED SECTIONS 3 AND 5	dms	CHECKED BY:
3	11/20/23	ADDED MEDIA SPECIFICATIONS	dms	MORGAN K. COAS*

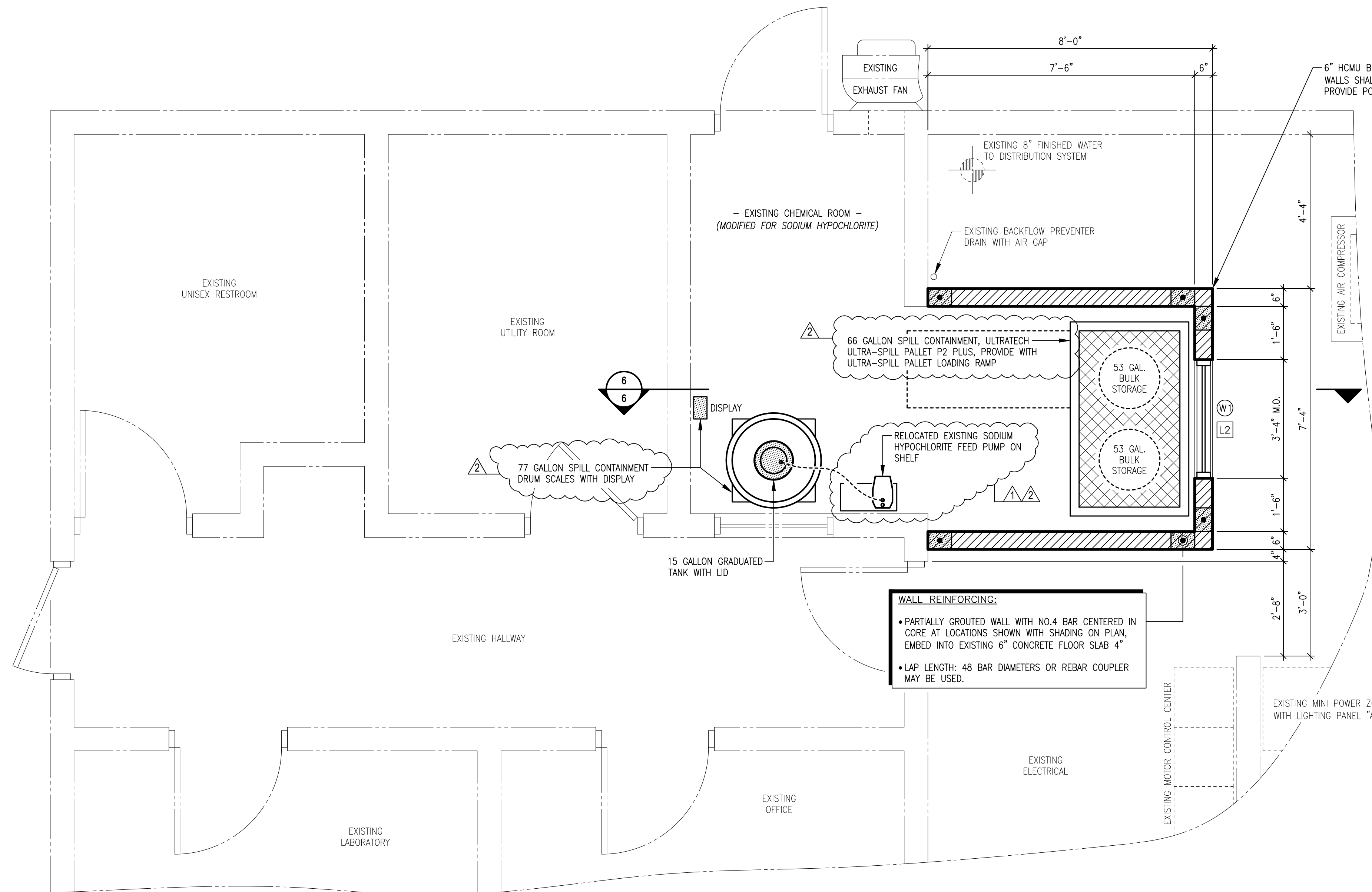


VAUGHN, COAST & VAUGHN, INC.
Engineers
154 South Marietta Street
St. Clairsville, Ohio 43950
740-695-7256 Fax: 740-695-2203

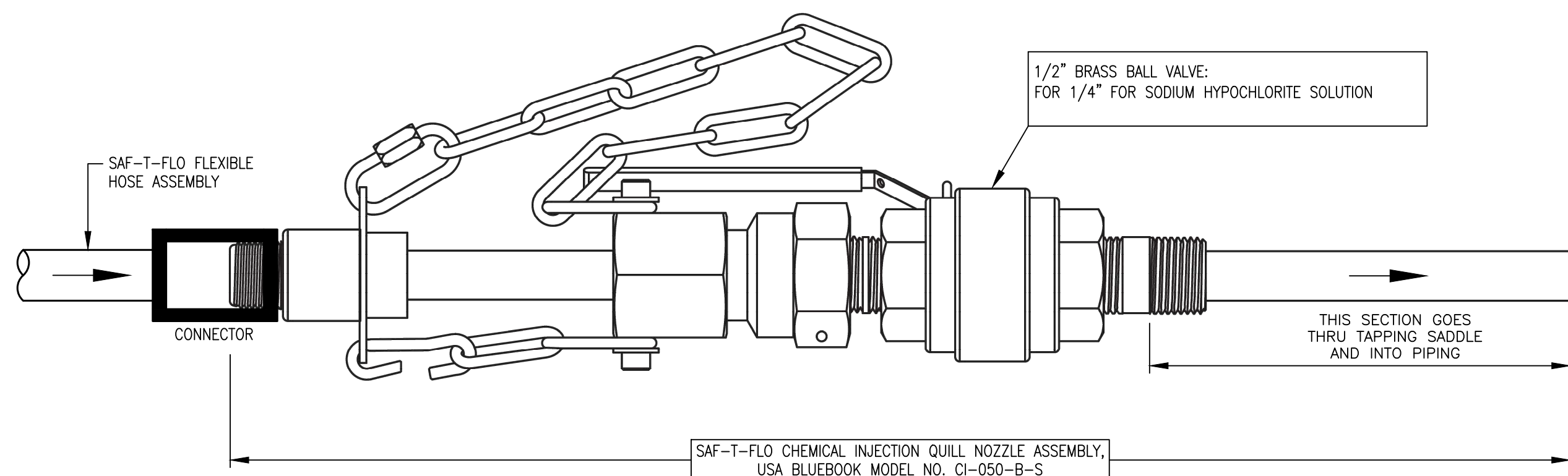
VILLAGE OF FRAZEYSBURG
- Water Treatment Plant Improvements -
Muskingum County, Ohio

TEMPORARY TREATMENT SYSTEM SECTIONS AND ISOMETRIC

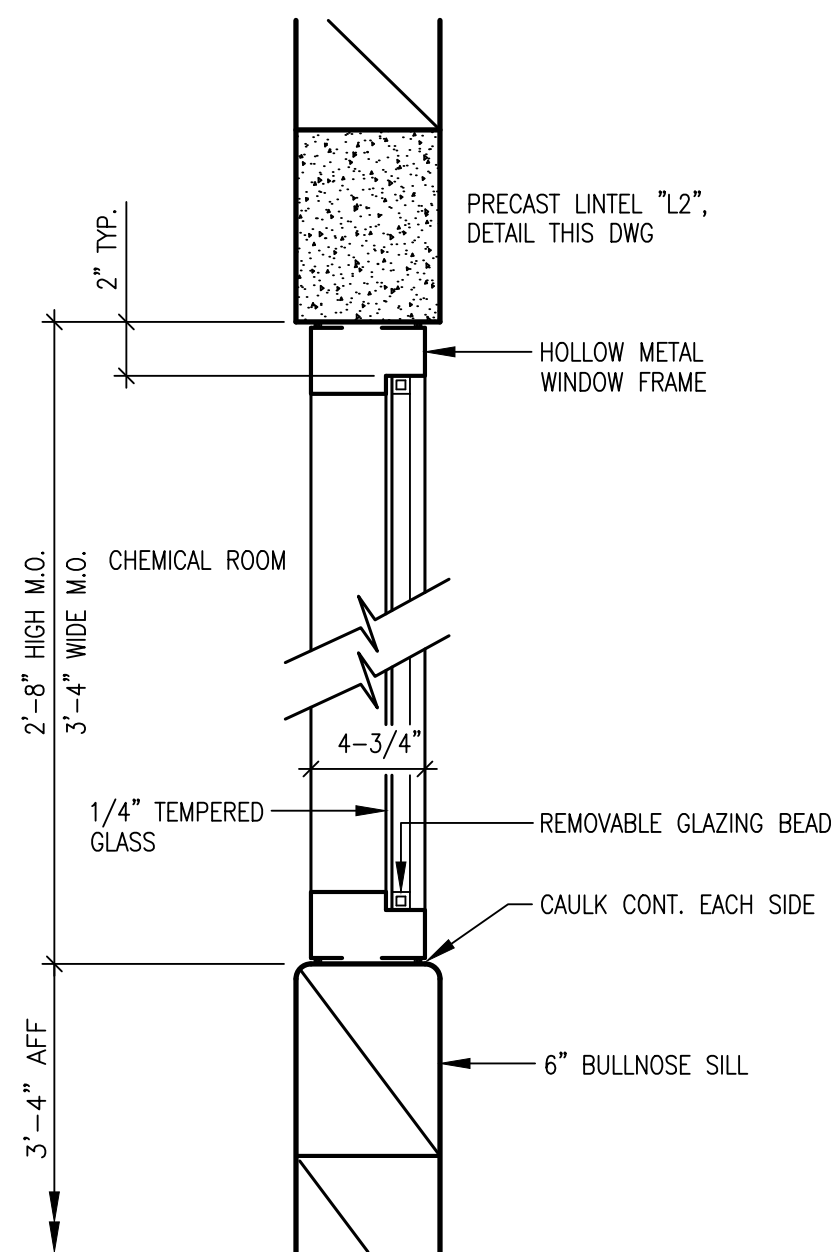
SCALE: AS SHOWN	PROJECT NO. —
DATE: MAY 2022	DRAWING NO. 5r



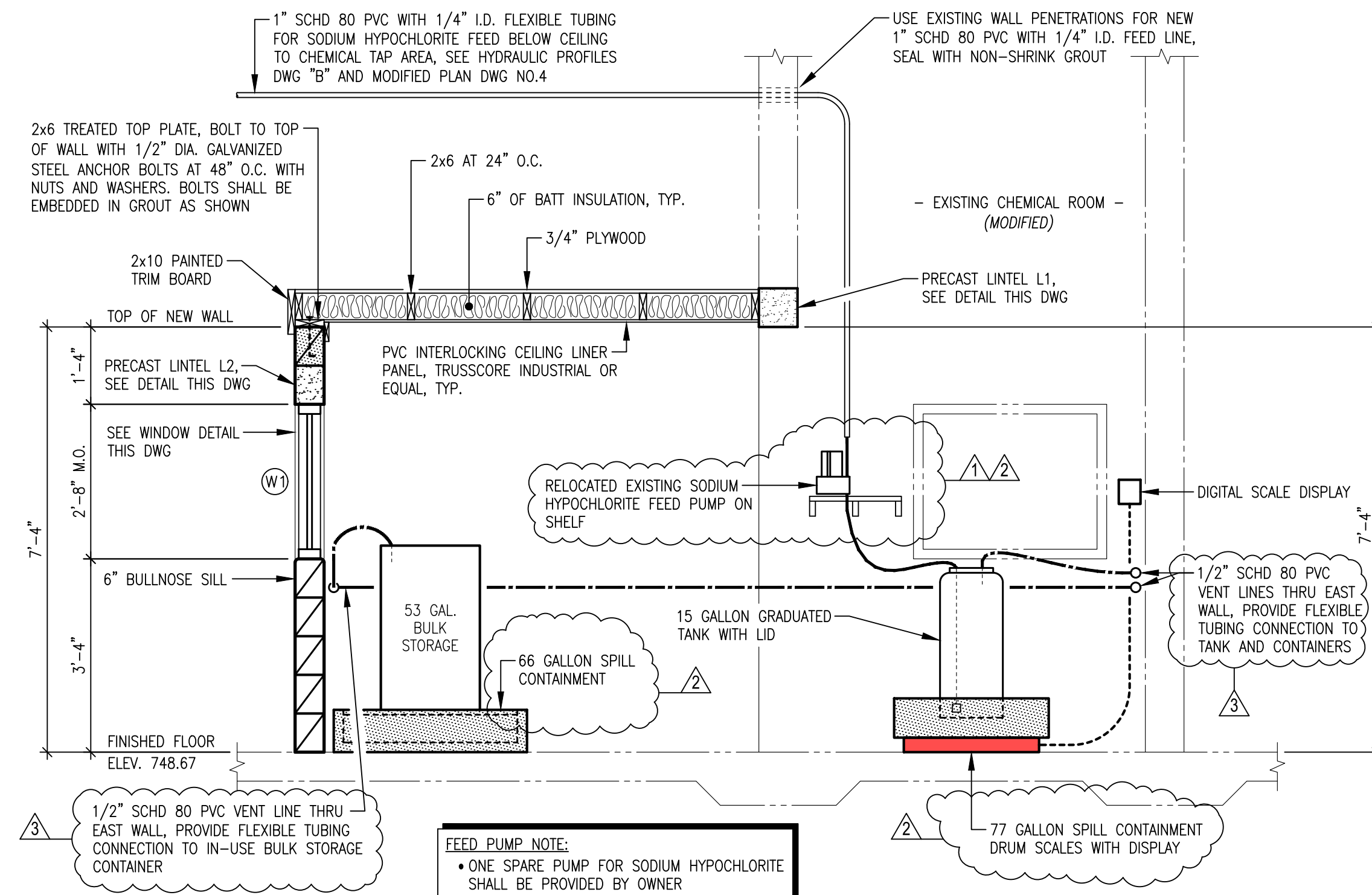
EXISTING CHEMICAL ROOM PLAN
1/2"=1'-0" (22"x34")
1/4"=1'-0" (11"x17")



CHEMICAL SOLUTION NOZZLE ASSEMBLY DETAIL
NO SCALE



WINDOW W1 DETAIL
1-1/2"=1'-0" (22"x34")
3/4"=1'-0" (11"x17")

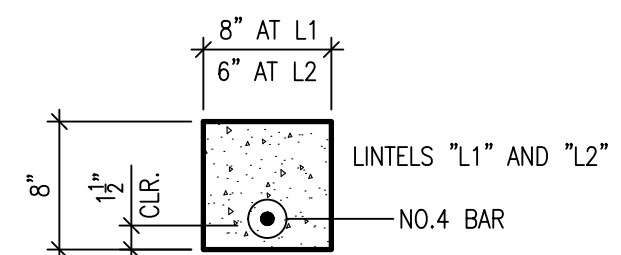


SECTION 6/6
1/2"=1'-0" (22"x34")
1/4"=1'-0" (11"x17")

LINTEL SCHEDULE		
NO.	DESCRIPTION	LENGTH
L1	8" SQ. PRECAST CONCRETE	7'-2"
L2	8" SQ. PRECAST CONCRETE	4'-8"

LINTEL NOTES:

1. PROVIDE 8" MIN. BEARING FOR ALL LINTELS UNLESS OTHERWISE NOTED OR SHOWN.
2. PROVIDE SLIDE BEARING ON ONE SIDE OF EACH LINTEL UNLESS OTHERWISE NOTED OR SHOWN.



LINTEL DETAIL
NO SCALE



COPYRIGHT © 2022, VAUGHN, COAST & VAUGHN, INC.

NO.	DATE	REVISION	
1	5/30/23	REMOVED SODIUM HYPOCHLORITE FEED TO DUALATOR FILTER AND RAW WATER RISER AREAS	dms
2	10/6/23	ADDED CAPACITIES TO SPILL CONTAINMENTS	dms
3	11/20/23	ADDED VENT LINE FOR BULK STORAGE CONTAINER	dms

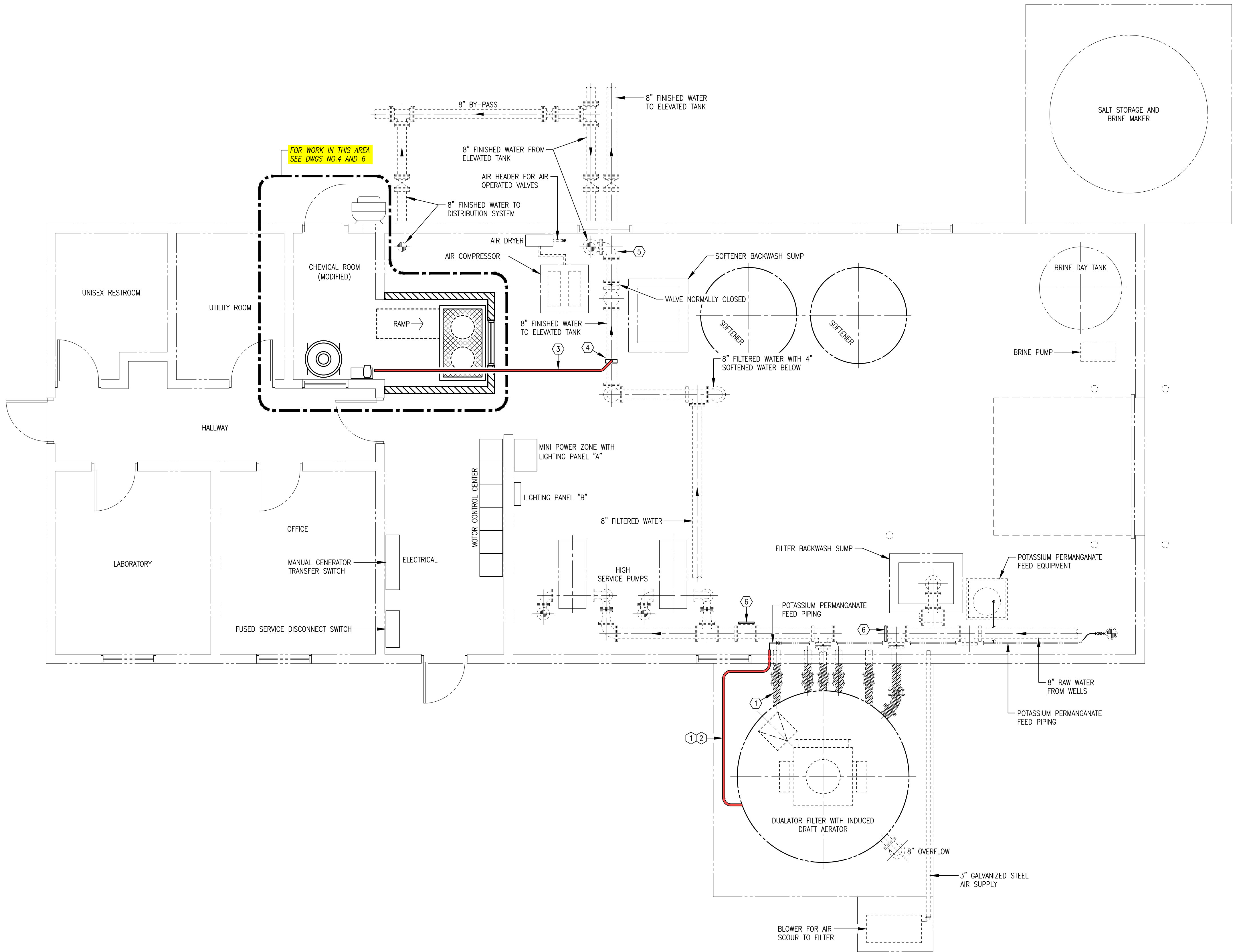
DRAWN BY:	DAVID STEWART
CHECKED BY:	MORGAN K. COAST



VILLAGE OF FRAZEYSBURG
- Water Treatment Plant Improvements -
Muskingum County, Ohio

**EXISTING CHEMICAL ROOM - MODIFIED
PLAN, SECTION AND DETAILS**

SCALE:	AS SHOWN	PROJECT NO.	-
DATE:	MAY 2022	DRAWING NO.	6r

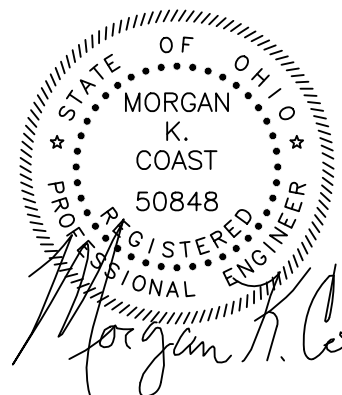


KEY NOTES THIS DWG:

- ① NEW HEAT TRACING AND INSULATION WITH PROTECTIVE JACKETING ON ALL EXTERIOR PIPING BETWEEN FILTER AND WALL AS SHOWN WITH SHADING, TYP. 12 PLACES. RECONNECT NEW HEAT TRACING TO EXISTING ELECTRICAL CIRCUITS.
- ② 1/2" SCHD 80 PVC POTASSIUM PERMANGANATE FEED PIPING, TIE-IN TO EXISTING AT INTERIOR.
- ③ 1" SCHD 80 PVC WITH 1/4" I.D. FLEXIBLE TUBING AT CEILING FOR SODIUM HYPOCHLORITE FEED TO FINISHED WATER PIPING TO ELEVATED TANK.
- ④ CHEMICAL FEED TAP WITH INJECTION NOZZLE, SEE DETAIL DWG NO.6
- ⑤ REINSTALL ELBOW AND FILLER FLANGE TO ORIGINAL POSITION AFTER TEMPORARY PIPING IS REMOVED.
- ⑥ INSTALL BLIND FLANGE AFTER TEMPORARY PIPING IS REMOVED.

FLOOR PLAN AFTER COMPLETED WORK

1/4"=1'-0" (22"x34")
1/8"=1'-0" (11"x17")



COPYRIGHT © 2022, VAUGHN, COAST & VAUGHN, INC.

NO.	DATE	REVISION
1	10/6/23	THIS DRAWING ADDED TO SET

DRAWN BY:
DAVID STEWART
CHECKED BY:
MORGAN K. COAST



VAUGHN, COAST & VAUGHN, INC.
Engineers
154 South Marietta Street
St. Clairsville, Ohio 43950
740-695-7256 Fax: 740-695-2203

VILLAGE OF FRAZEYSBURG
- Water Treatment Plant Improvements -
Muskingum County, Ohio

FLOOR PLAN AFTER COMPLETED WORK

SCALE:	PROJECT NO.
AS SHOWN	-
DATE:	DRAWING NO.
OCTOBER 2023	7

Frazesburg Water Treatment Plant Area of Potential Effect

