



Butler County
Water System

March 30, 2016

Ms. Linda Faulkner
Filings Director
Kentucky Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, KY 40602-0615

RECEIVED

APR 01 2016

PUBLIC SERVICE
COMMISSION

**Re: PSC Case No. 2014-00353
Butler County Water System, Inc.**

Dear Ms. Faulkner:

Thank you for your inquiry regarding the referenced project. This is to certify that work on this project was completed as of February 1, 2016 and is in service. The project was constructed in accordance with the plans and specifications. The total cost of the project is detailed as follows:

Project Construction	\$618,686.00
Engineering	44,014.87
Easement Acquisition	1,848.45
Legal	3,757.75
Administrative Costs	1,096.98
Construction Supervision & Inspection	<u>43,825.08</u>
 Total Project Cost	 \$713,229.13

We are also enclosing as-built drawings of the project for your records. If you need any additional information, please let me know.

Sincerely,

Ryan J. Leisey, P.E.
Manager of Engineering & Construction

Enclosures

Providing high quality
water services to
families and businesses
throughout
Butler County.

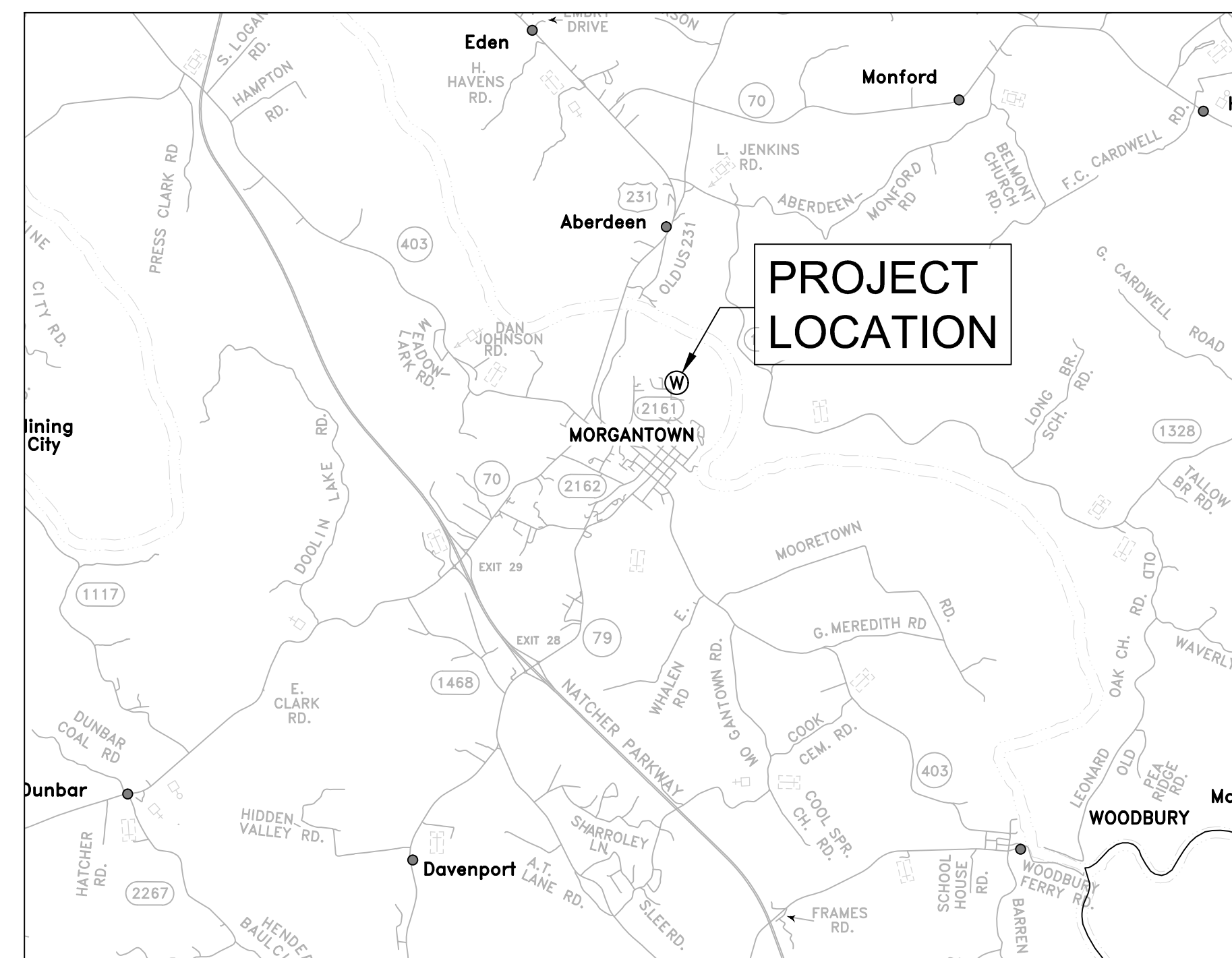


523 US HWY 31-W By Pass • P.O. Box 10108 • Bowling Green, KY 42102-4780 • 270-842-0052 • warrenwater.com
104 S. Tyler Street • Suite B P.O. Box 1488 • Morgantown, KY 42261 • 270-526-4656

EQUAL OPPORTUNITY PROVIDER AND EMPLOYER

WTP ENHANCEMENT PROJECT

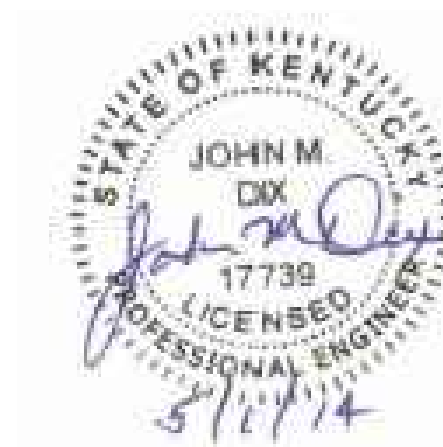
AS BUILT



VICINITY MAP
Scale: 1" = 1 Mile



Butler County
Water System



May 1, 2014

INDEX OF DRAWINGS

SHEET #	DESCRIPTION
1	PROPOSED FINISHED WATER LINE STA. 0+00 TO STA. 7+40 PROPOSED RAW WATER LINE STA. 0+00 TO STA. 13+80
2	SITE PIPING PLAN & DETAILS
3	FINISHED WATER LINE PROFILE
4	HIGH SERVICE PIPING PLAN & SECTIONS
5	BUILDING INTERIOR MODIFICATION PLAN, PROPOSED WALL INSTALLATION PLAN & SECTION
6	BUILDING INTERIOR MODIFICATION PERMANENT EQUIPMENT & ACCESSORY REMOVAL
7	PROPOSED TUBE SETTLER REPLACEMENT
8	ELECTRICAL UPGRADES AT RAW WATER BUILDING ELECTRICAL UPGRADES AT ELECTRICAL BUILDING - ALT #1

523 US Hwy 31-W Bypass / P.O. Box 10180
Bowling Green, KY 42102-4780
TEL 270.842.0052
FAX 270.842.8360
www.butlerwater.com

SET # _____



AS BUILT - WTP ENHANCEMENT PROJECT
PROPOSED FINISHED WATER LINE - STA. 0+00 TO STA. 7+40
PROPOSED RAW WATER LINE - STA. 0+00 TO STA. 13+80

SCALE: 1" = 50'
 DATE: 5-1-14
 PROJECT #: 288095
 DESIGNED: JMD
 DRAWN: JT
 CHECKED: RJL

REVISIONS:

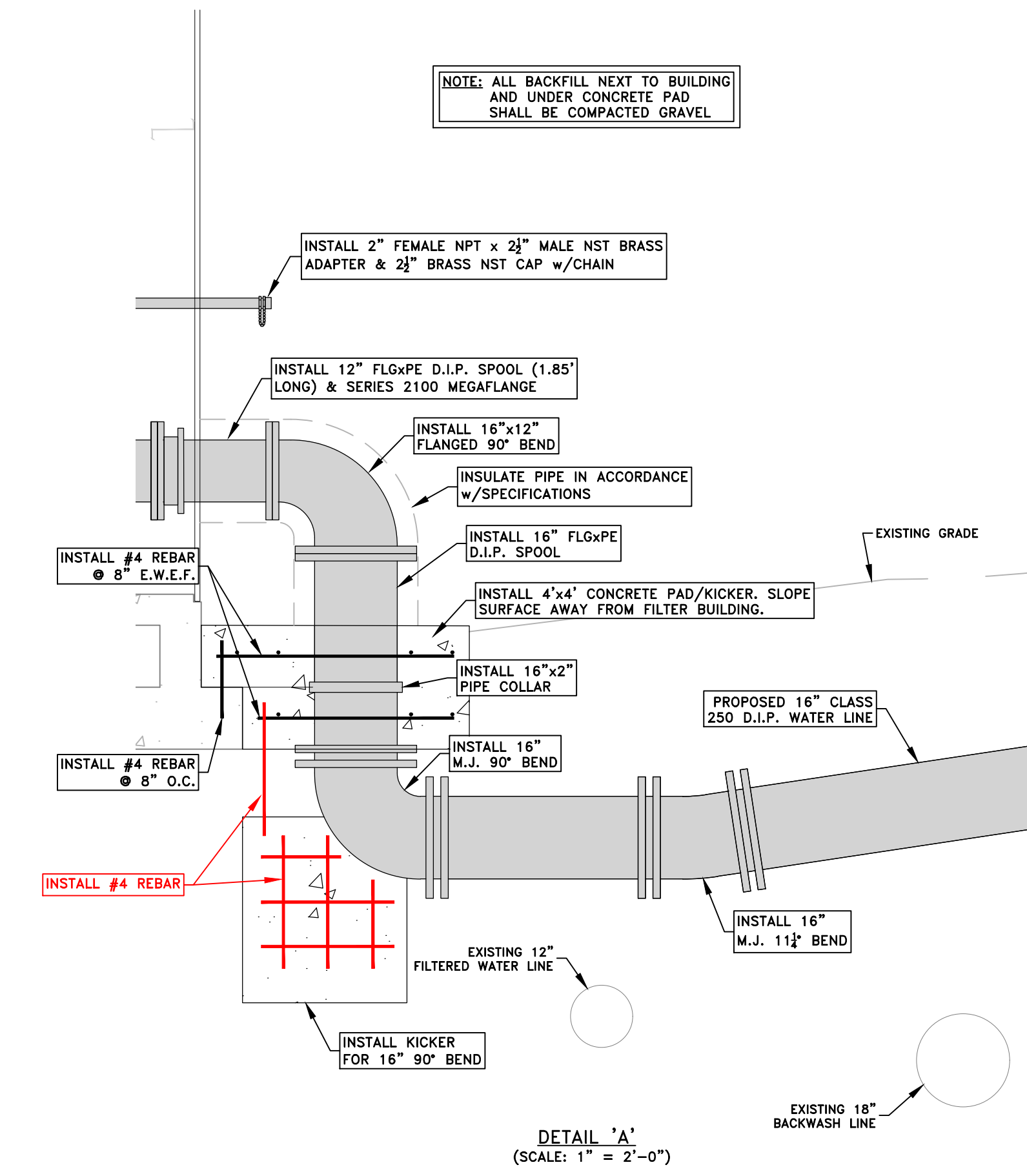
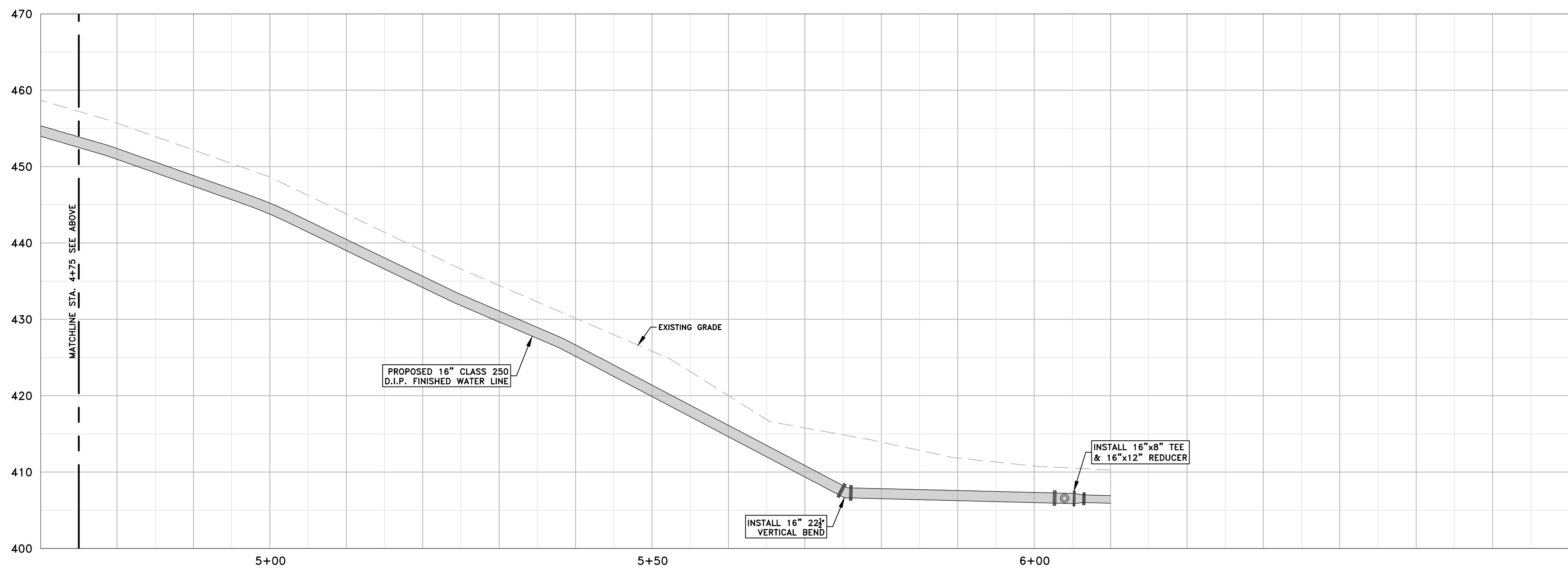
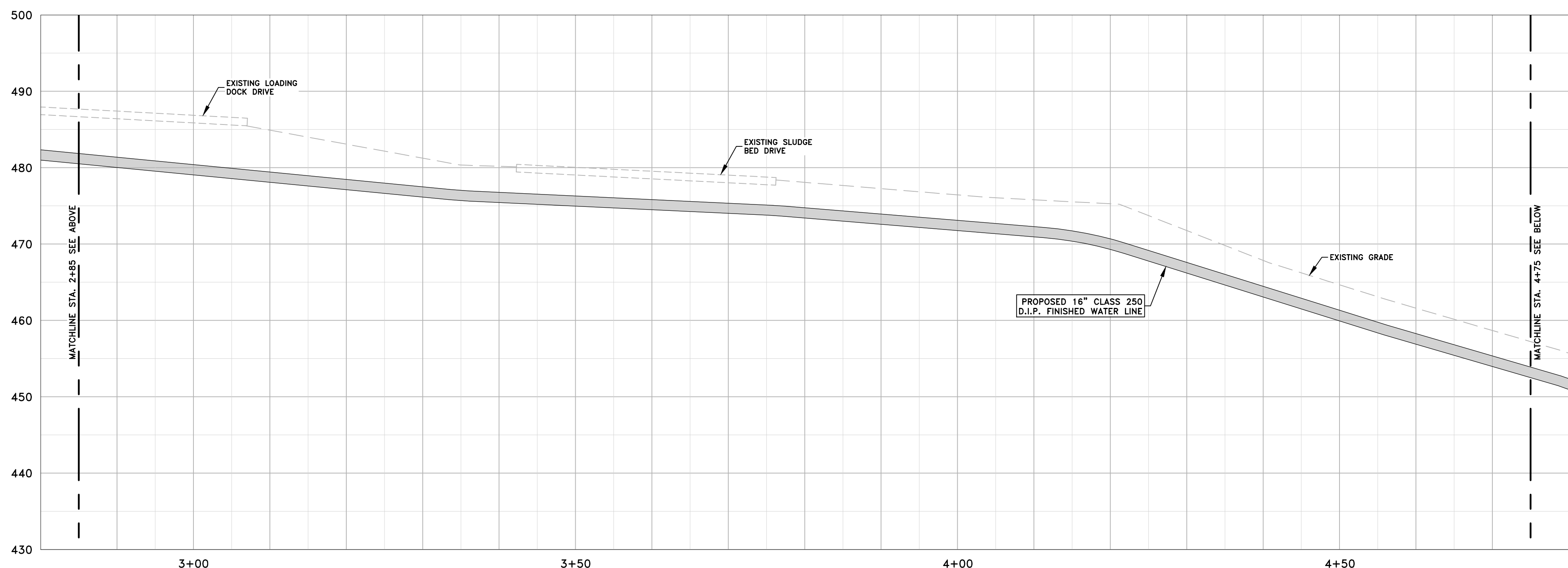
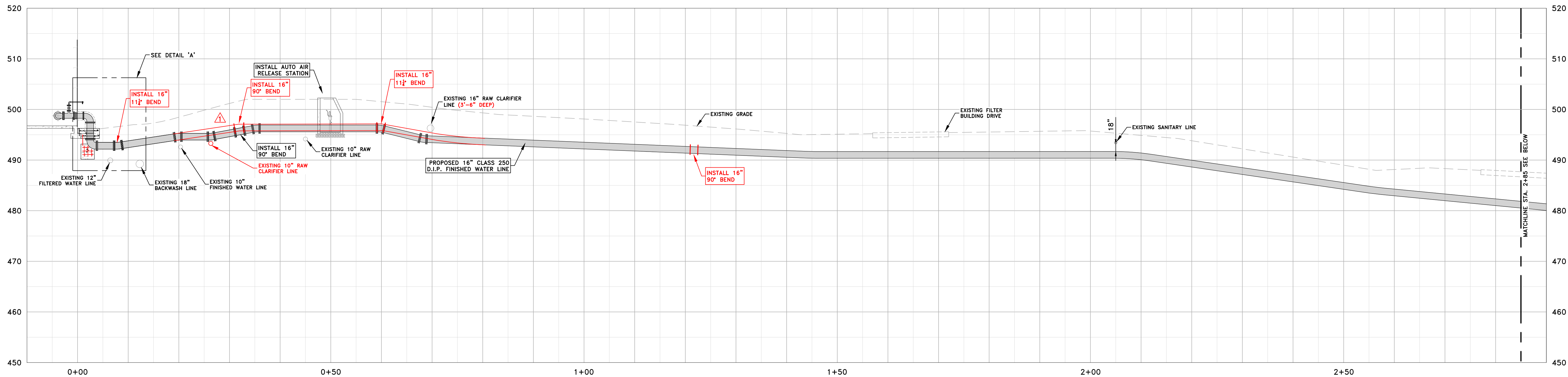
NO.:	DATE:
1	5-1-14



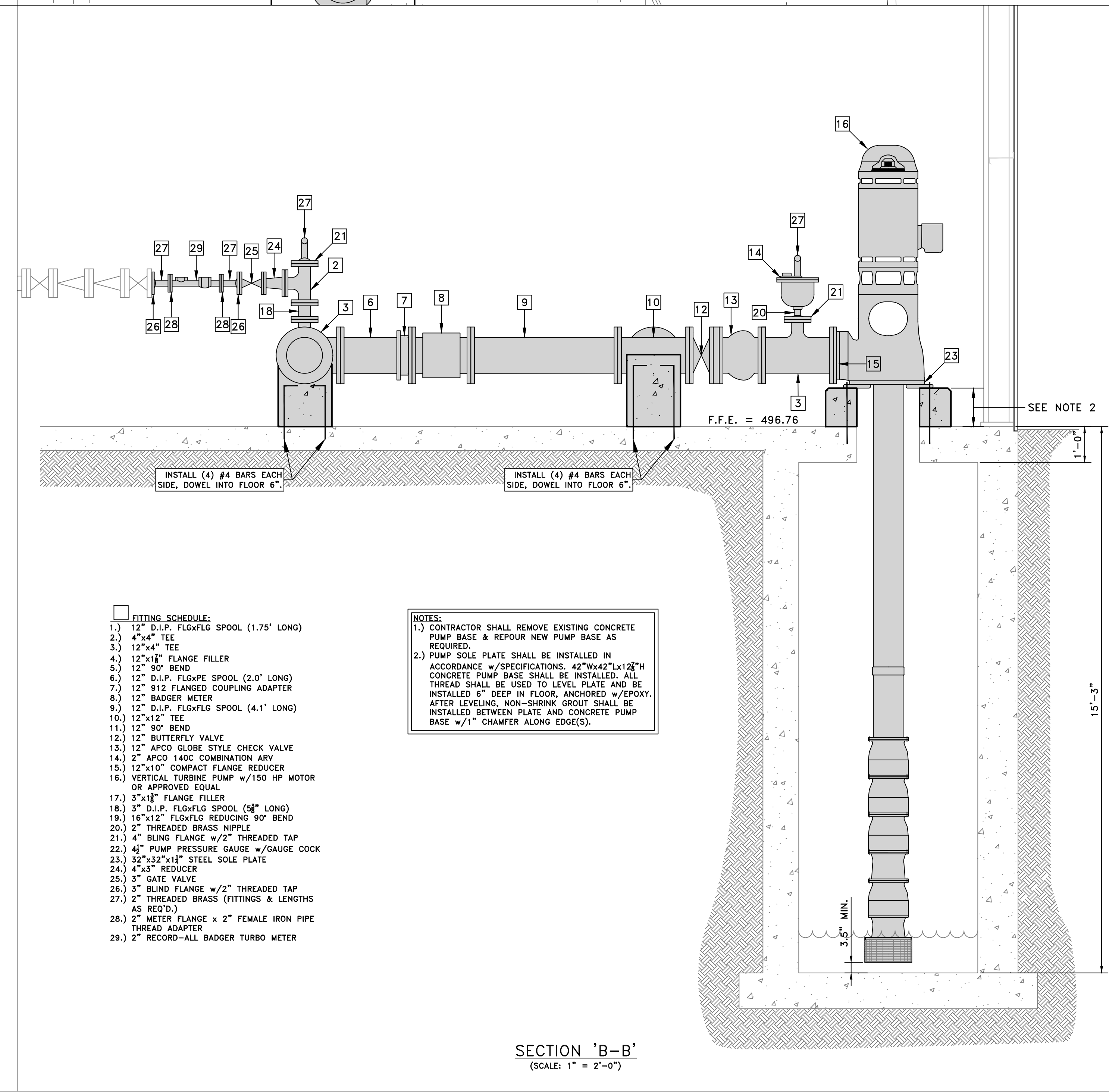
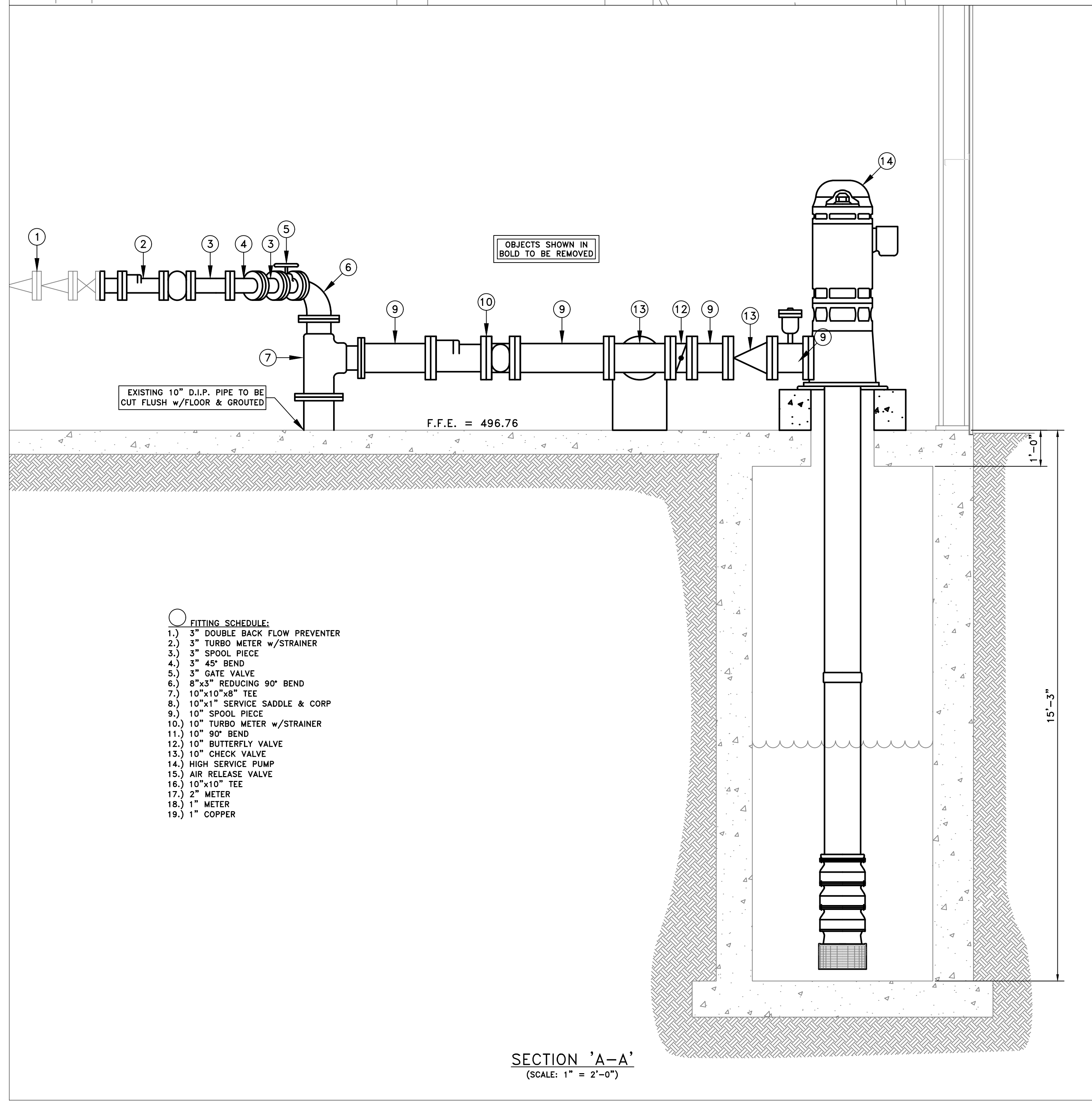
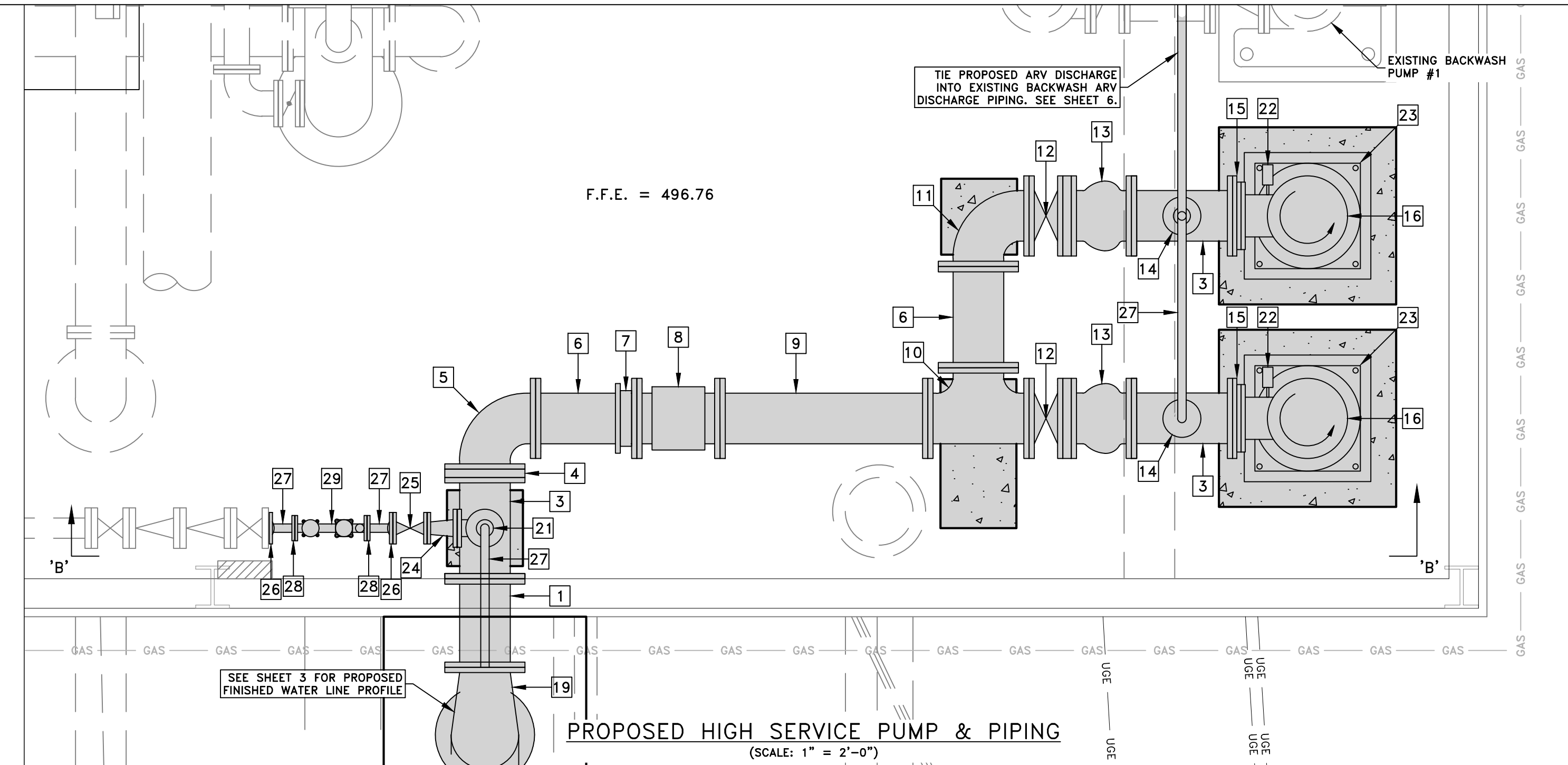
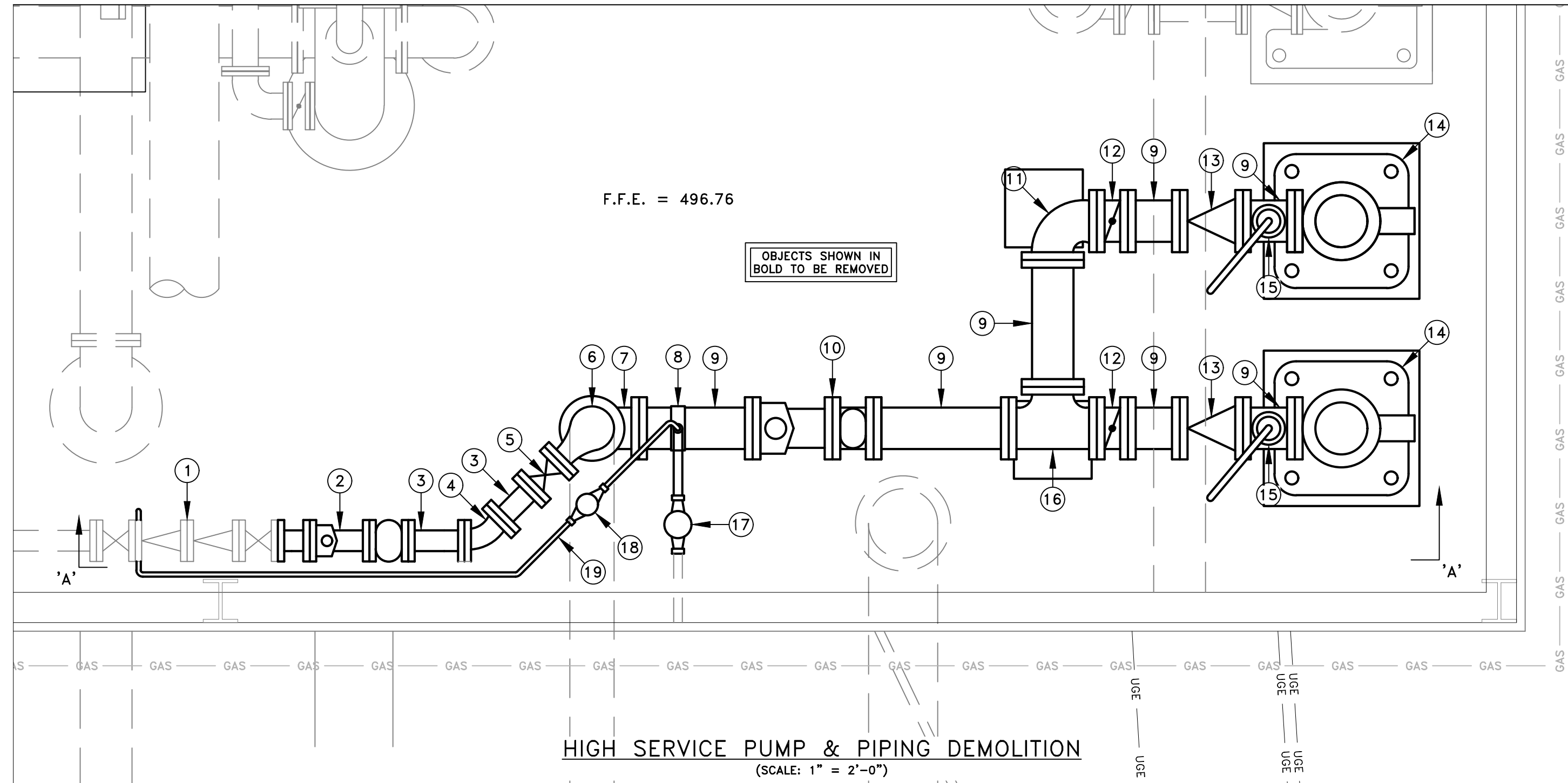
WTP ENHANCEMENT PROJECT
PROPOSED 16" FINISHED WATER LINE PROFILE

SCALE: 1" = 10'-0"
DATE: 5-1-14
PROJECT #: 288095
DESIGNED: JMD
DRAWN: JT
CHECKED: RJL

REVISIONS:	
NO.:	DATE:
1	4-7-15



DETAIL 'A'
(SCALE: 1" = 2'-0")



- FITTING SCHEDULE:**
- 3" DOUBLE BACK FLOW PREVENTER
 - 3" TURBO METER w/STRAINER
 - 3" SPOOL PIECE
 - 3" 45° BEND
 - 3" GATE VALVE
 - 8"x3" REDUCING 90° BEND
 - 10"x10"x8" TEE
 - 10"x1" SERVICE SADDLE & CORP
 - 10" SPOOL PIECE
 - 10" TURBO METER w/STRAINER
 - 10" 90° BEND
 - 10" BUTTERFLY VALVE
 - 10" CHECK VALVE
 - HIGH SERVICE PUMP
 - AIR RELEASE VALVE
 - 10"x10" TEE
 - 2" METER
 - 1" METER
 - 1" COPPER

- FITTING SCHEDULE:**
- 12" D.I.P. FLGxFLG SPOOL (1.75' LONG)
 - 4"x4" TEE
 - 12"x4" TEE
 - 12"x1 1/2" FLANGE FILLER
 - 12" 90° BEND
 - D.I.P. FLGxPE SPOOL (2.0' LONG)
 - 12" 912 FLANGED COUPLING ADAPTER
 - 12" BADGER METER
 - D.I.P. FLGxFLG SPOOL (4.1' LONG)
 - 12"x12" TEE
 - 12" 90° BEND
 - 12" BUTTERFLY VALVE
 - 12" APCO GLOBE STYLE CHECK VALVE
 - 2" APCO 140C COMBINATION ARV
 - 12"x10" COMPACT FLANGE REDUCER
 - VERTICAL TURBINE PUMP w/150 HP MOTOR OR APPROVED EQUAL
 - 3"x1 1/2" FLANGE FILLER
 - 3" D.I.P. FLGxFLG SPOOL (58" LONG)
 - 16"x12" FLGxFLG REDUCING 90° BEND
 - 2" THREADED BRASS NIPPLE
 - 4" BLING FLANGE w/2" THREADED TAP
 - 4" PUMP PRESSURE GAUGE w/GAUGE COCK
 - 32"x32"x1 1/2" STEEL SOLE PLATE
 - 4"x3" REDUCER
 - 3" GATE VALVE
 - 3" BLIND FLANGE w/2" THREADED TAP
 - 2" THREADED BRASS (FITTINGS & LENGTHS AS REQ'D.)
 - 2" METER FLANGE x 2" FEMALE IRON PIPE THREAD ADAPTER
 - 2" RECORD-ALL BADGER TURBO METER

NOTES:

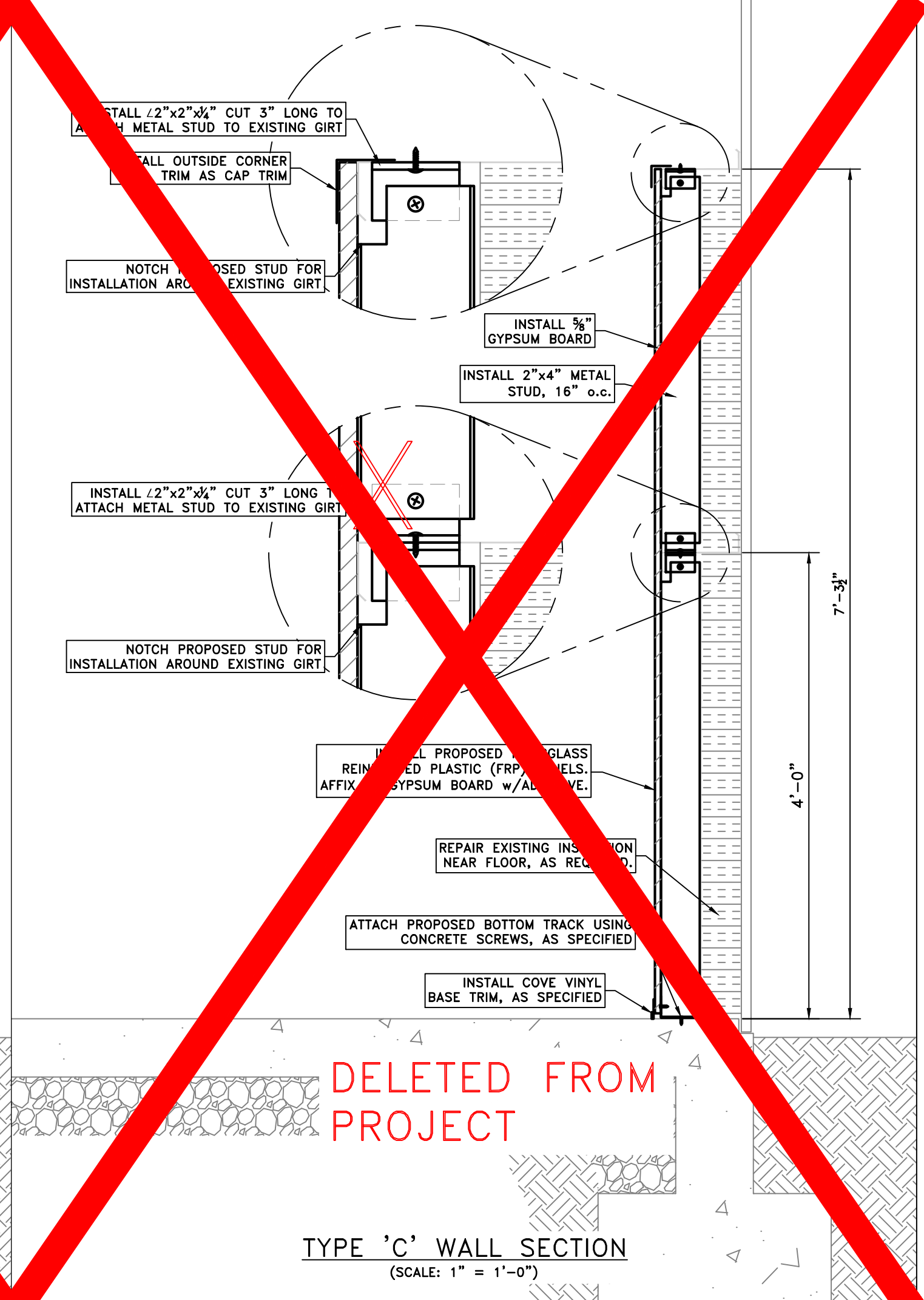
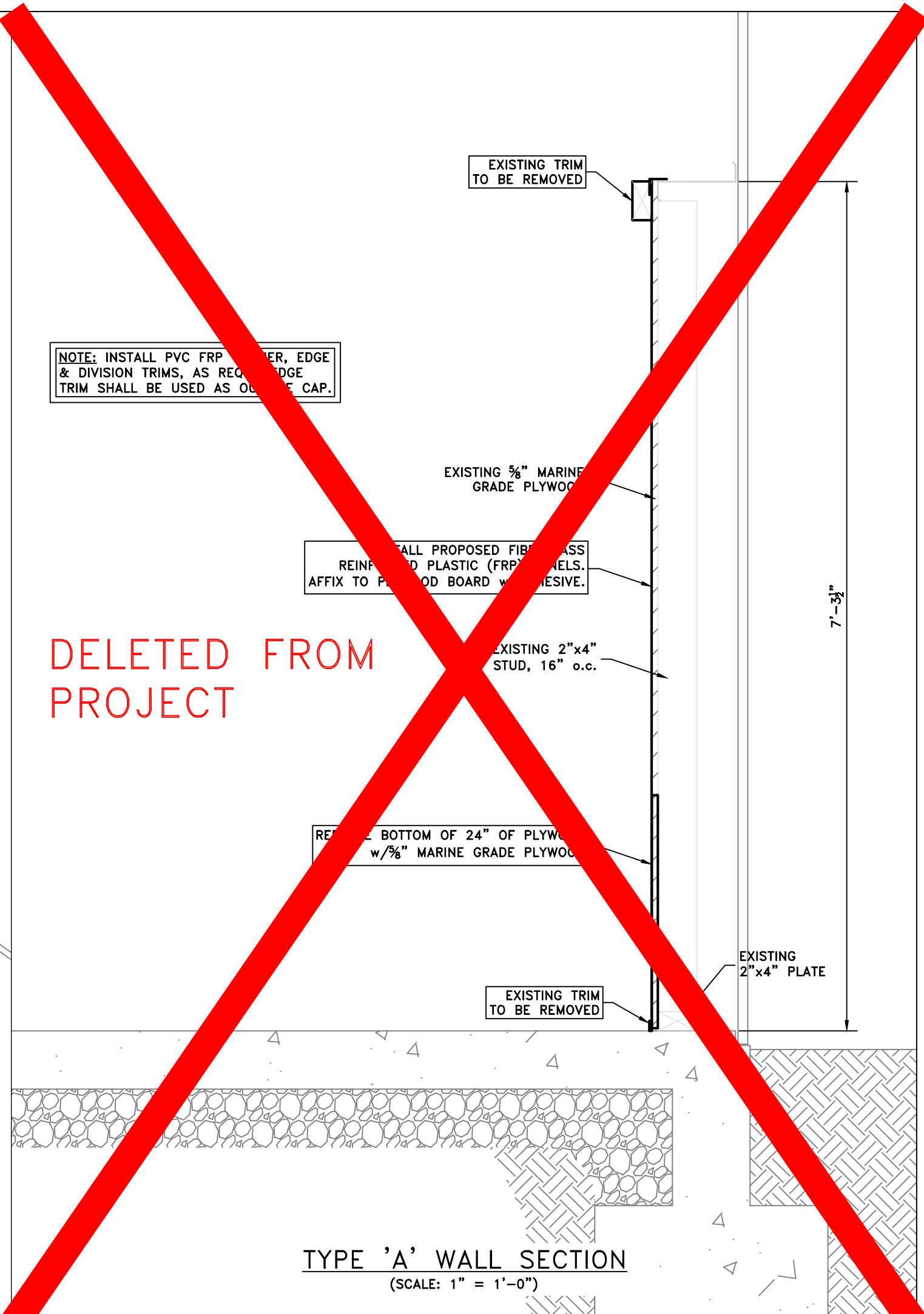
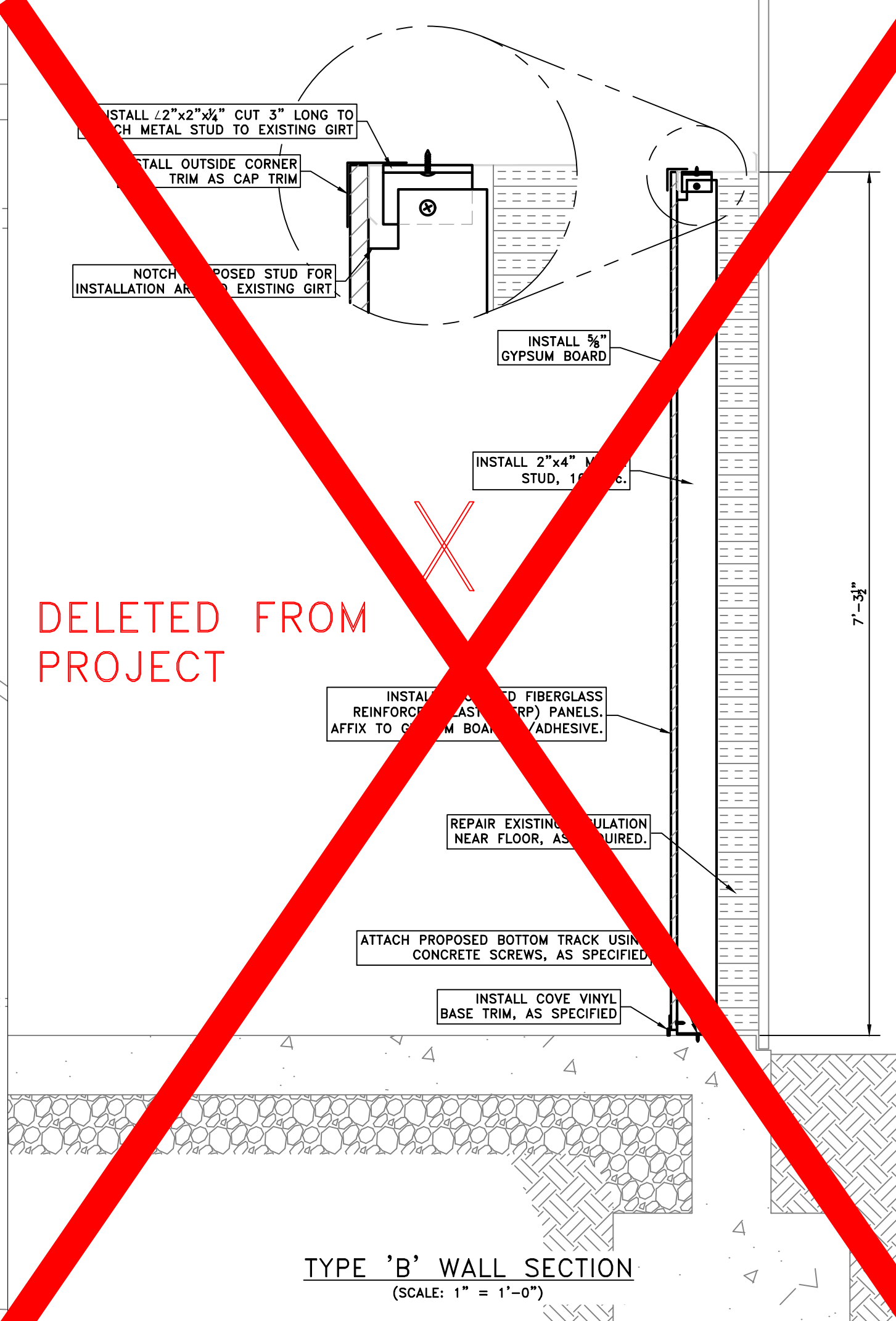
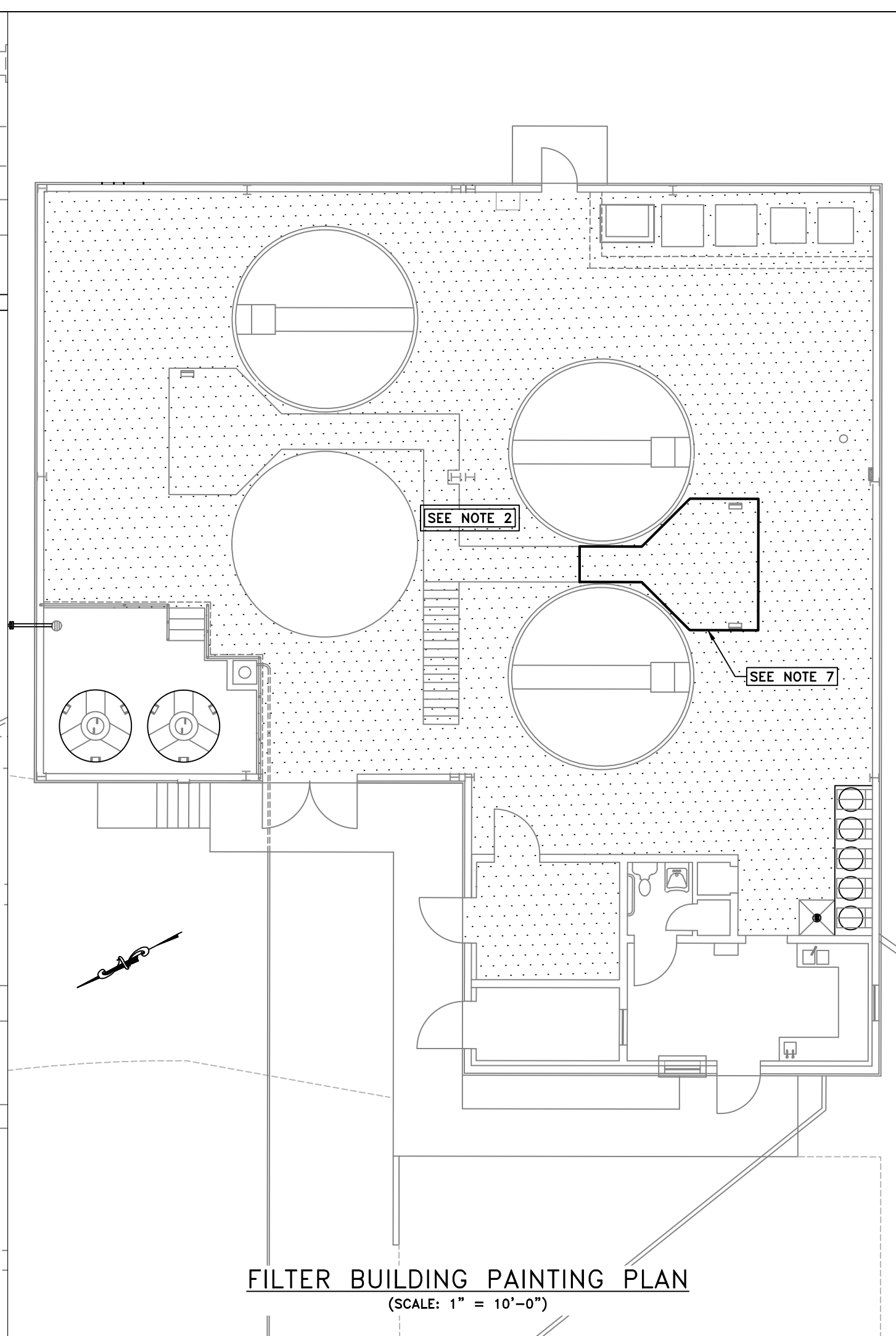
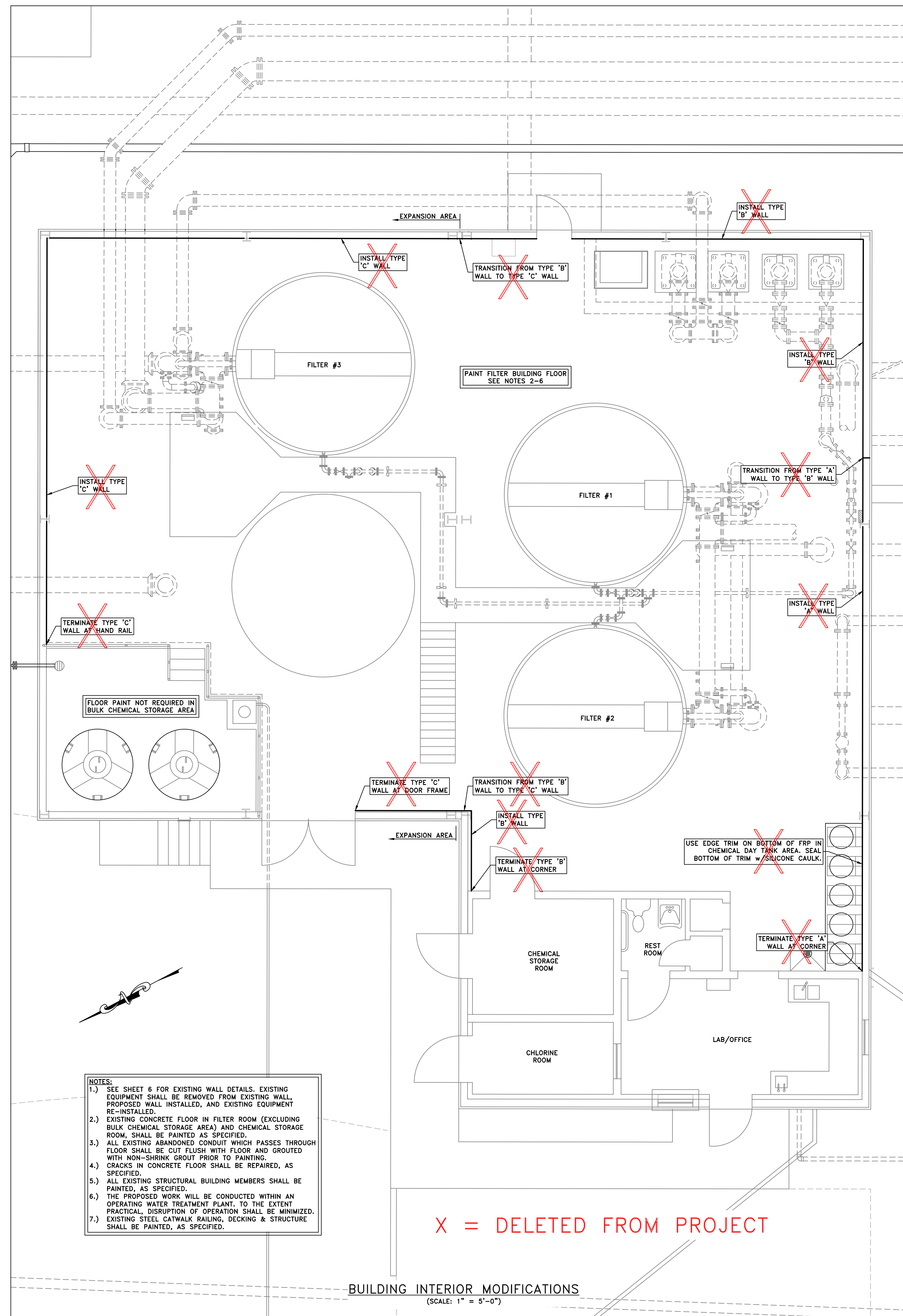
- CONTRACTOR SHALL REMOVE EXISTING CONCRETE PUMP BASE & REPOUR NEW PUMP BASE AS REQUIRED.
- PUMP SOLE PLATE SHALL BE INSTALLED IN ACCORDANCE w/SPECIFICATIONS. 42"x42"x12"H CONCRETE PUMP BASE SHALL BE INSTALLED. ALL THREAD SHALL BE USED TO LEVEL PLATE AND BE INSTALLED 6" DEEP IN FLOOR, ANCHORED w/EPOXY. AFTER LEVELING, NON-SHRINK GROUT SHALL BE INSTALLED BETWEEN PLATE AND CONCRETE PUMP BASE w/1" CHAMFER ALONG EDGE(S).

SCALE: 1" = 2'-0"
DATE: 5-1-14
PROJECT #: 288095
DESIGNED: JMD
DRAWN: JT
CHECKED: RJL

REVISIONS:

NO.:	DATE:





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- NOTES:
- EXISTING EQUIPMENT SHALL BE REMOVED FROM EXISTING WALL, PROPOSED WALL INSTALLED, AND EXISTING EQUIPMENT RE-INSTALLED, SHOWN IN RED.
 - EXISTING CONCRETE FLOOR IN FILTER ROOM (EXCLUDING BULK CHEMICAL STORAGE AREA) AND CHEMICAL STORAGE ROOM, SHALL BE PAINTED AS SPECIFIED.
 - ALL EXISTING ABANDONED CONDUIT WHICH PASSES THROUGH FLOOR SHALL BE CUT FLUSH WITH FLOOR AND GROUTED WITH NON-SHRINK GROUT PRIOR TO PAINTING.
 - CRACKS IN CONCRETE FLOOR SHALL BE REPAIRED, AS SPECIFIED.
 - ALL EXISTING STRUCTURAL BUILDING MEMBERS SHALL BE PAINTED, AS SPECIFIED.
 - THE PROPOSED WORK WILL BE CONDUCTED WITHIN AN OPERATING WATER TREATMENT PLANT, TO THE EXTENT PRACTICAL, DISRUPTION OF OPERATION SHALL BE MINIMIZED.

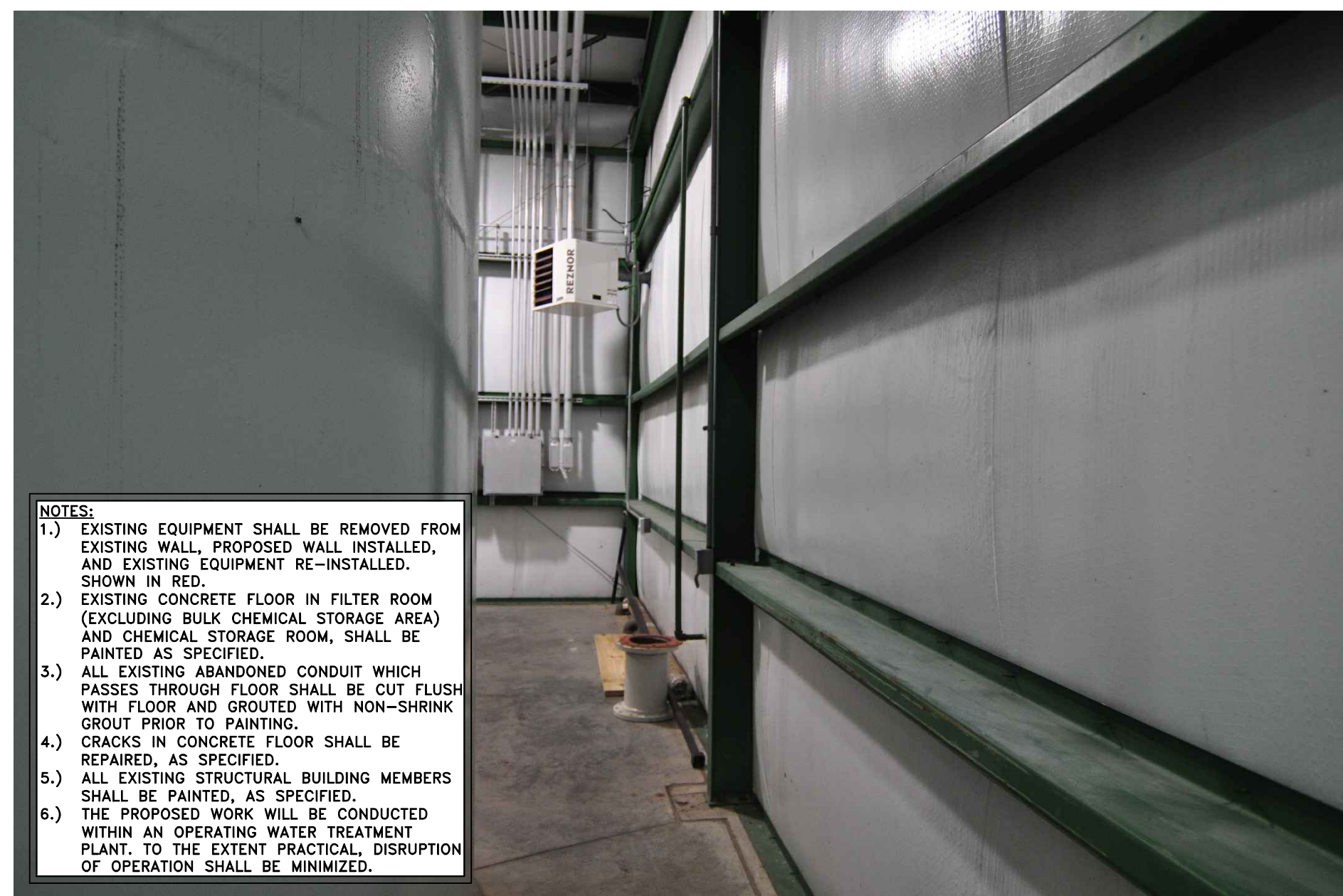


IMAGE 1

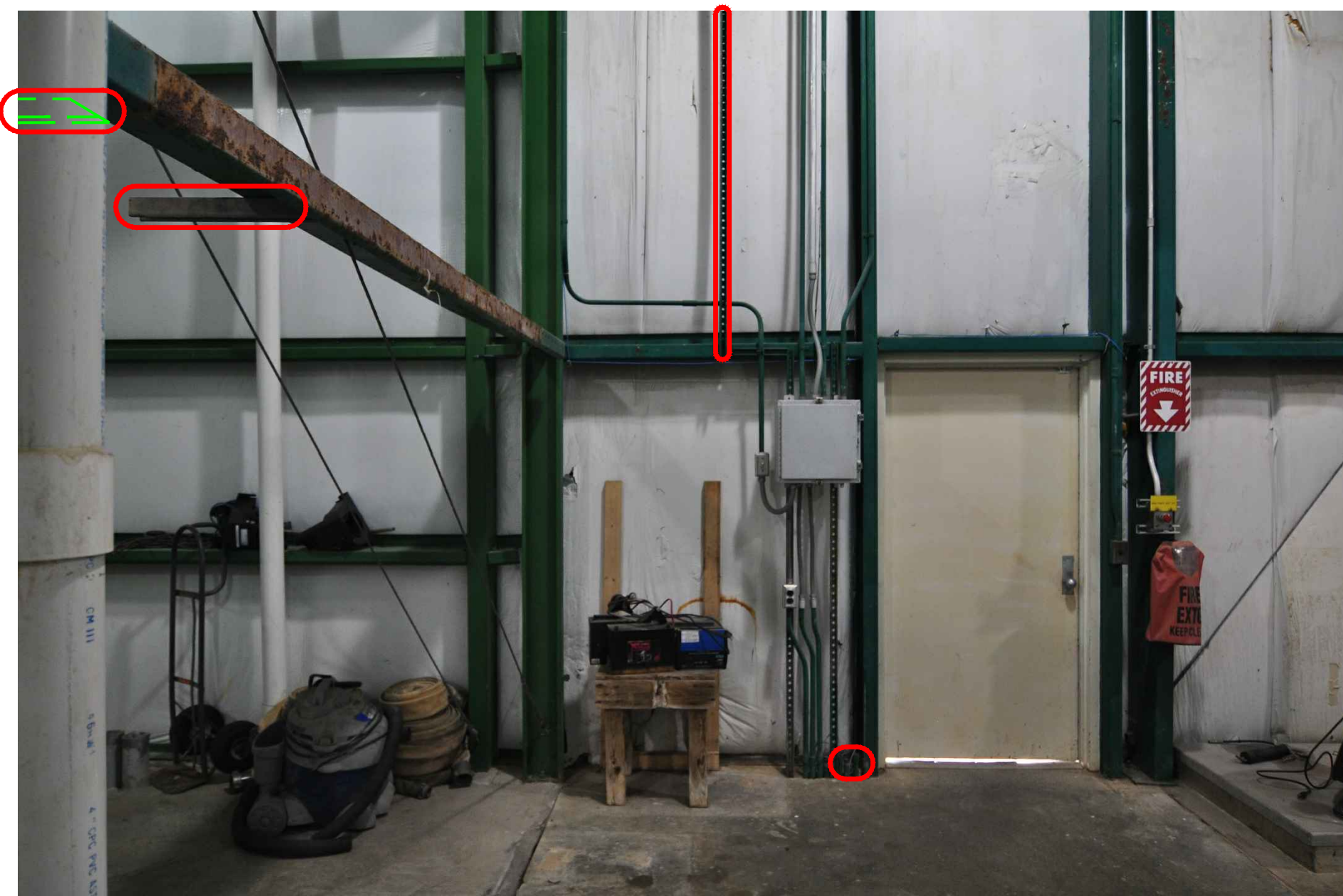


IMAGE 2

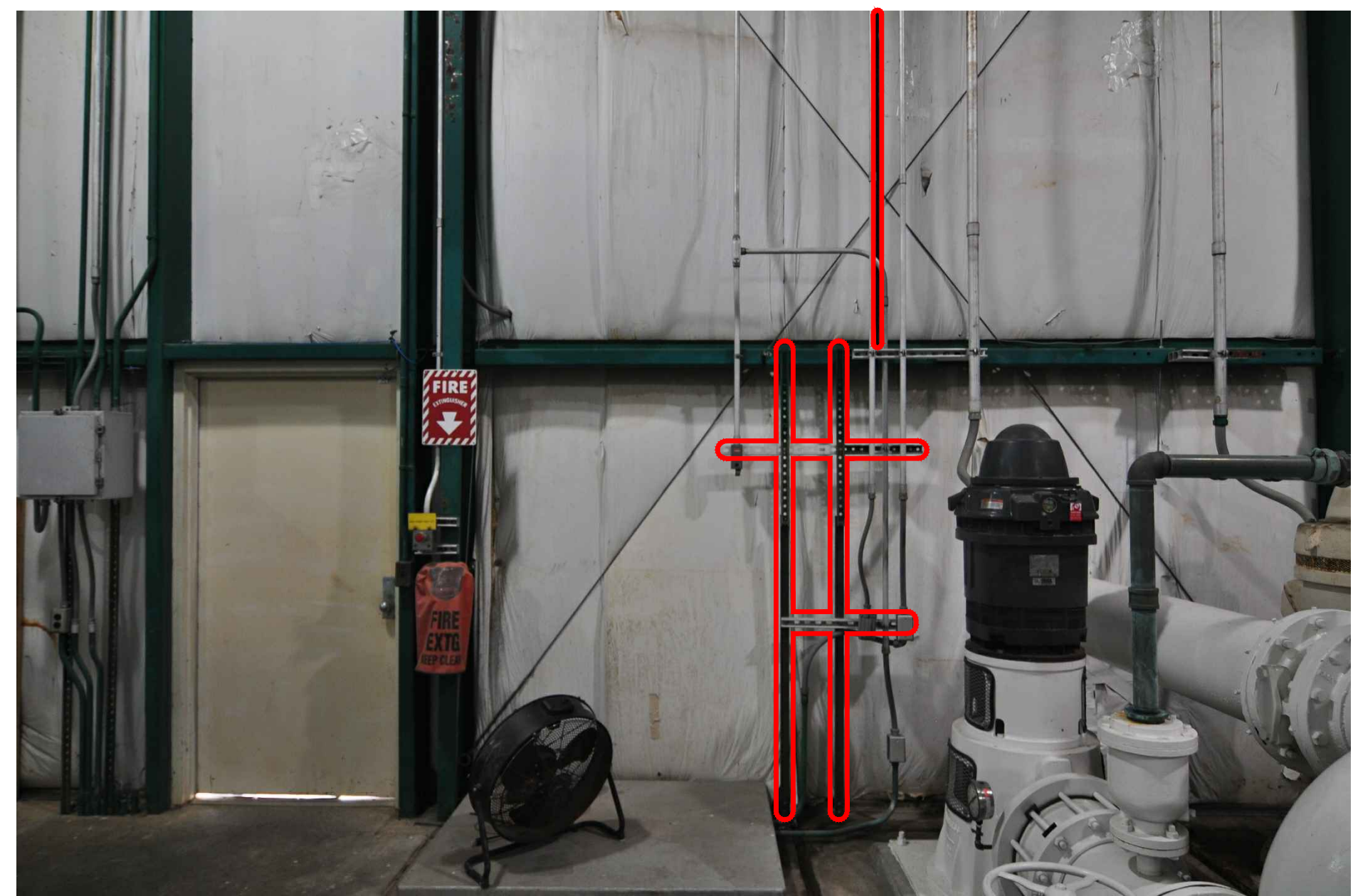


IMAGE 3

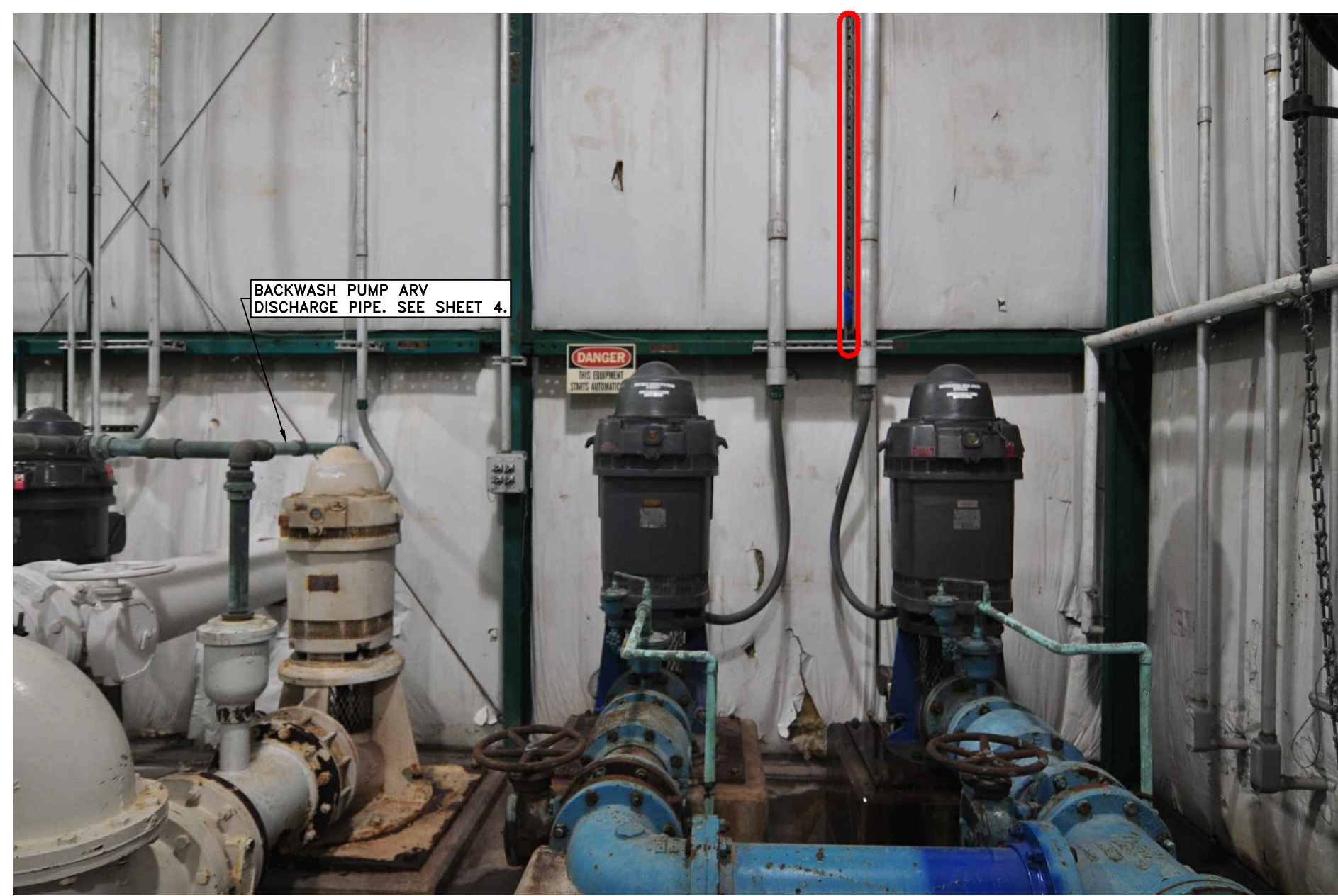


IMAGE 4

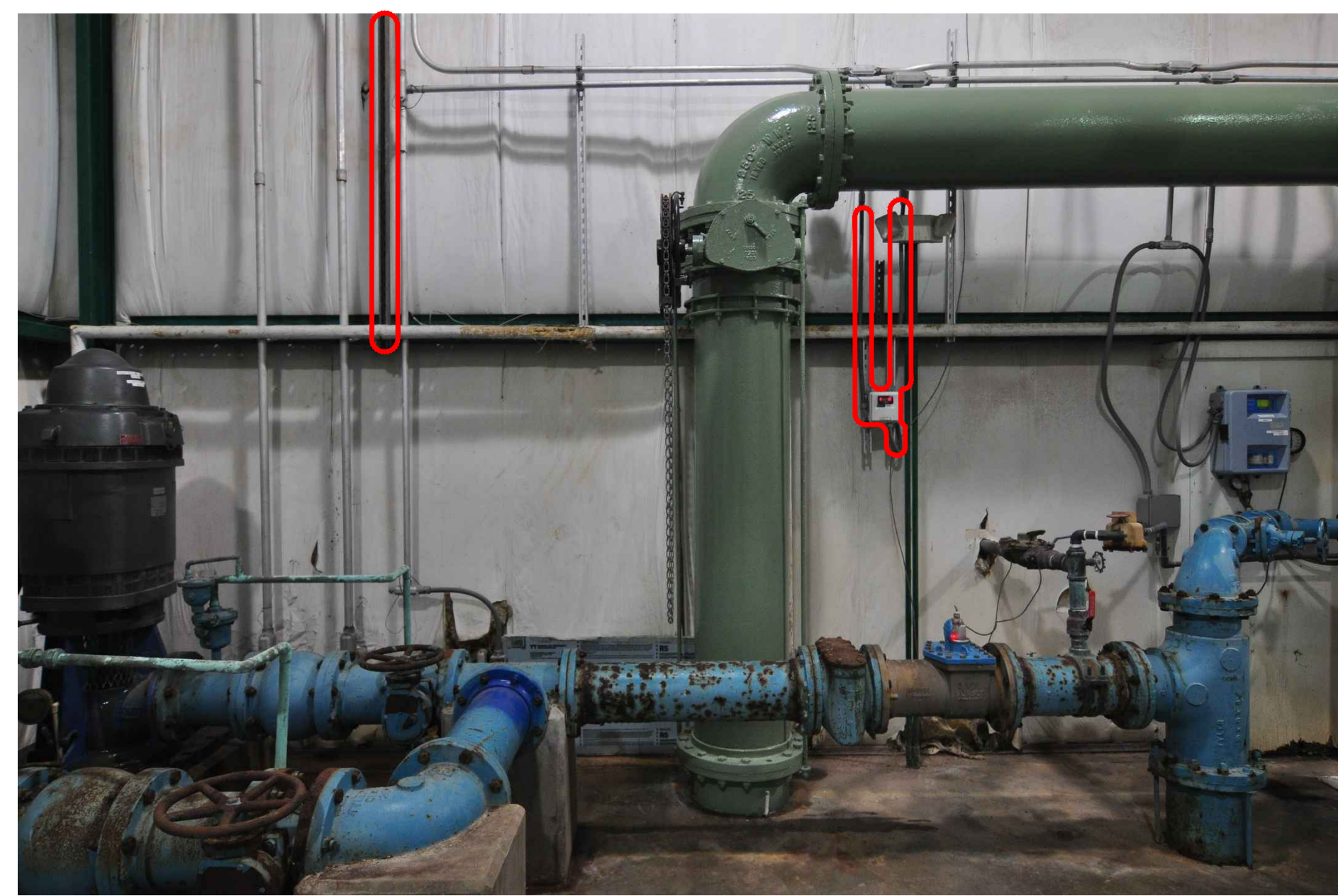


IMAGE 5



IMAGE 6



IMAGE 7

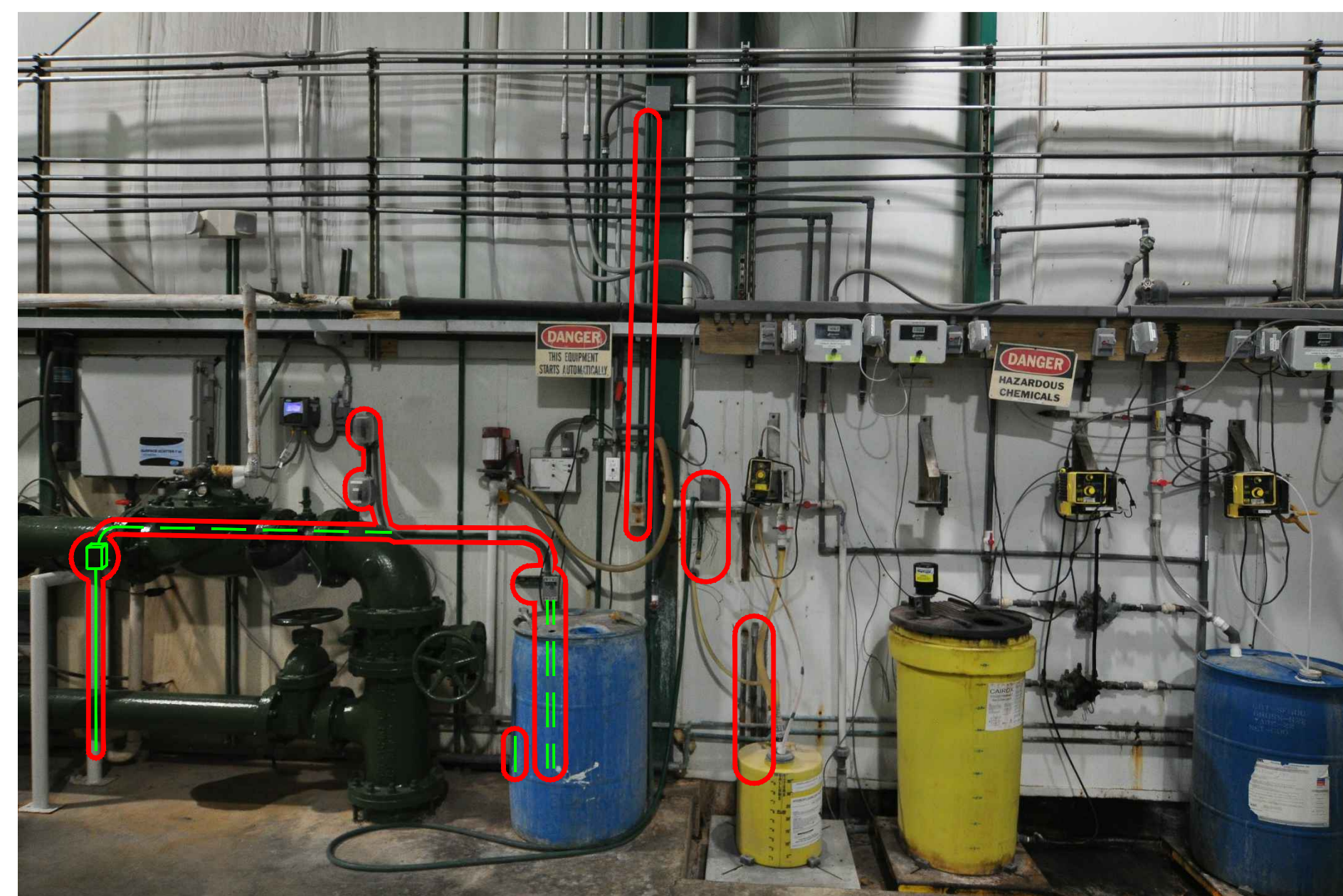
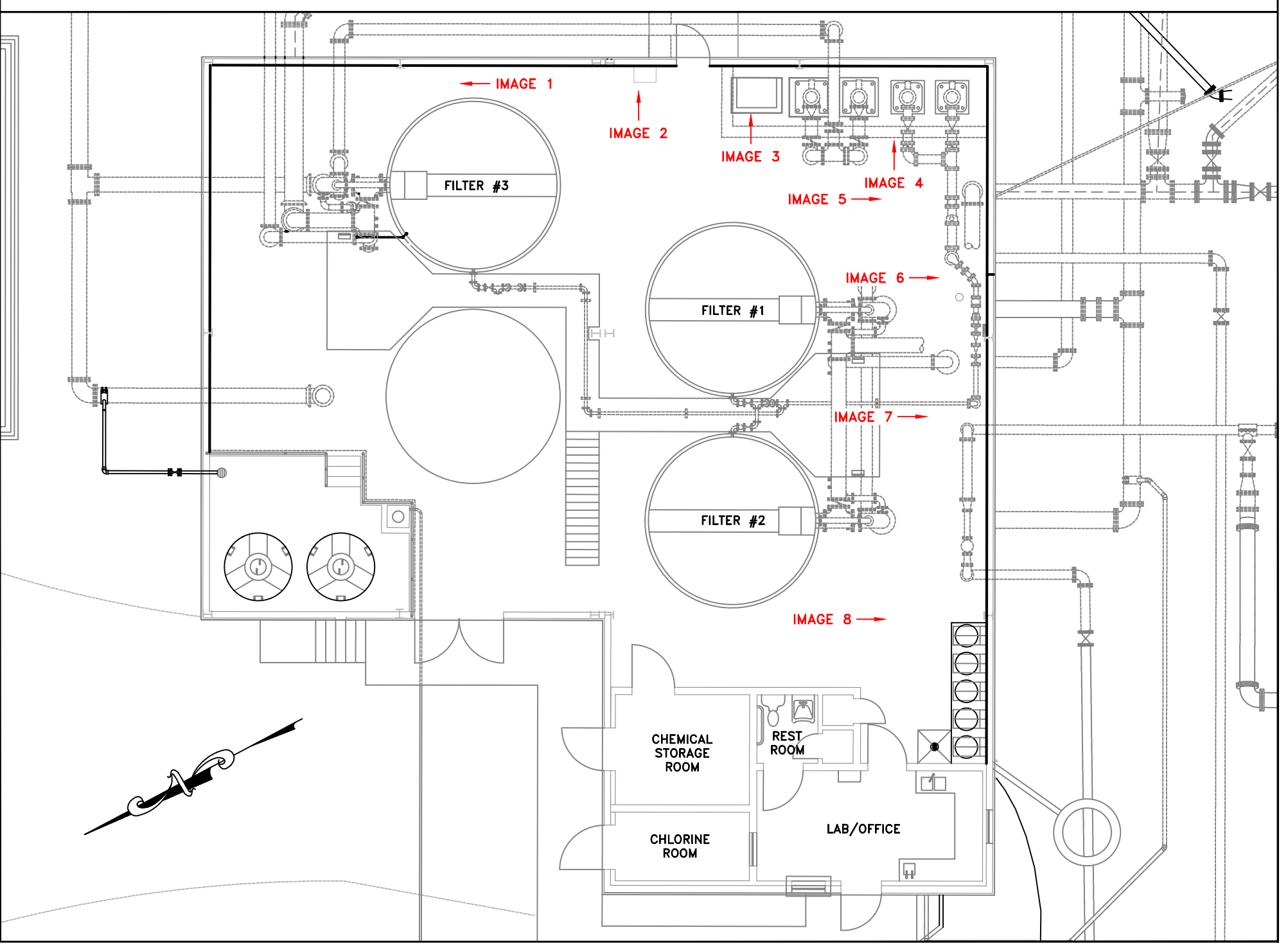


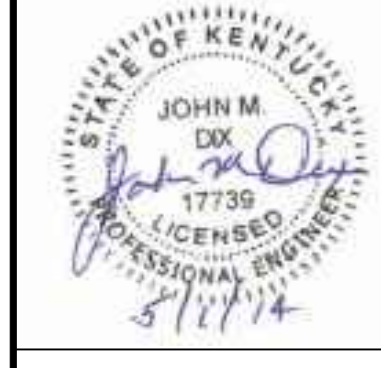
IMAGE 8

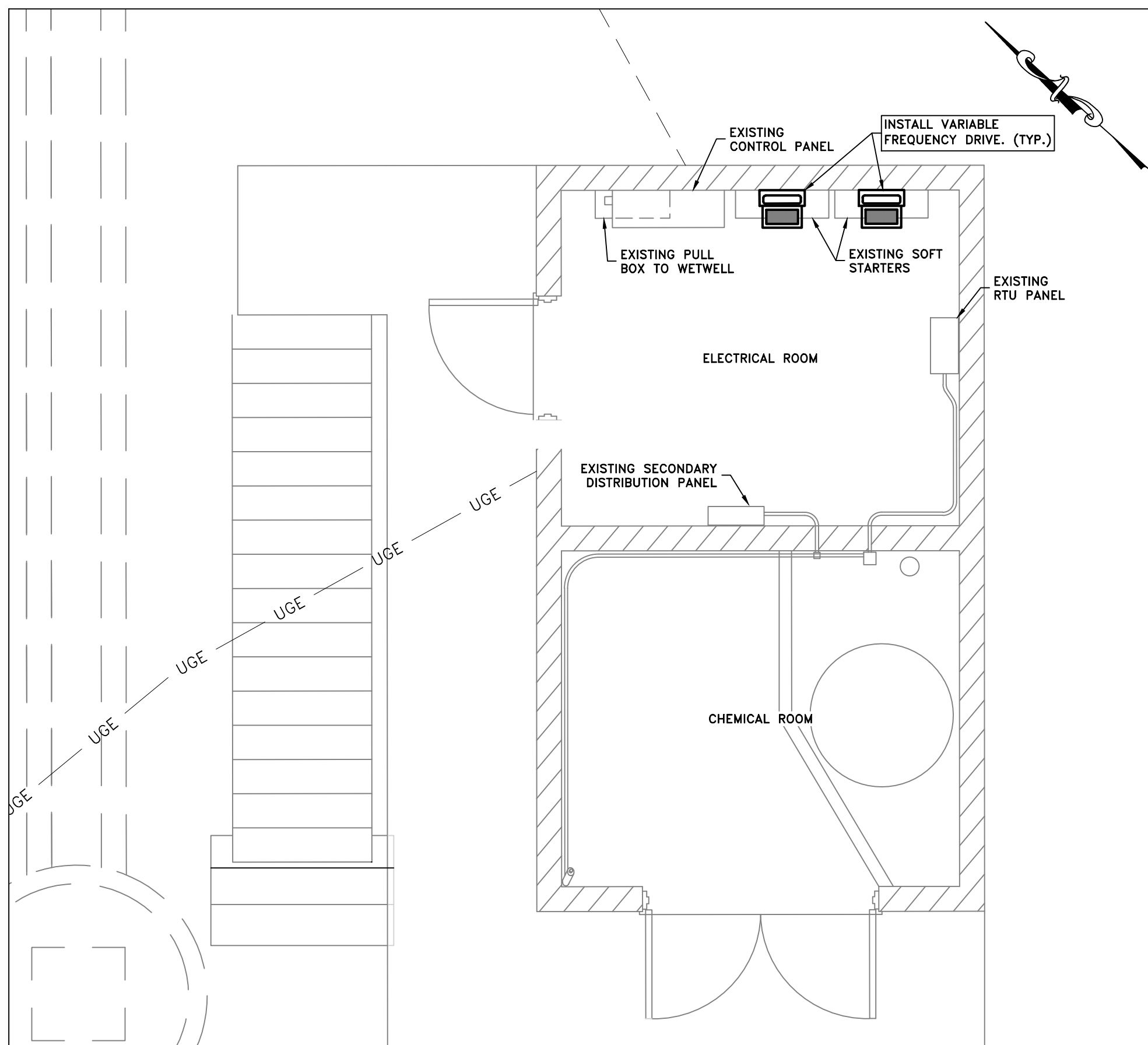


SCALE: N.T.S.
DATE: 5-1-14
PROJECT #: 288095
DESIGNED: JMD
DRAWN: JT
CHECKED: RJL

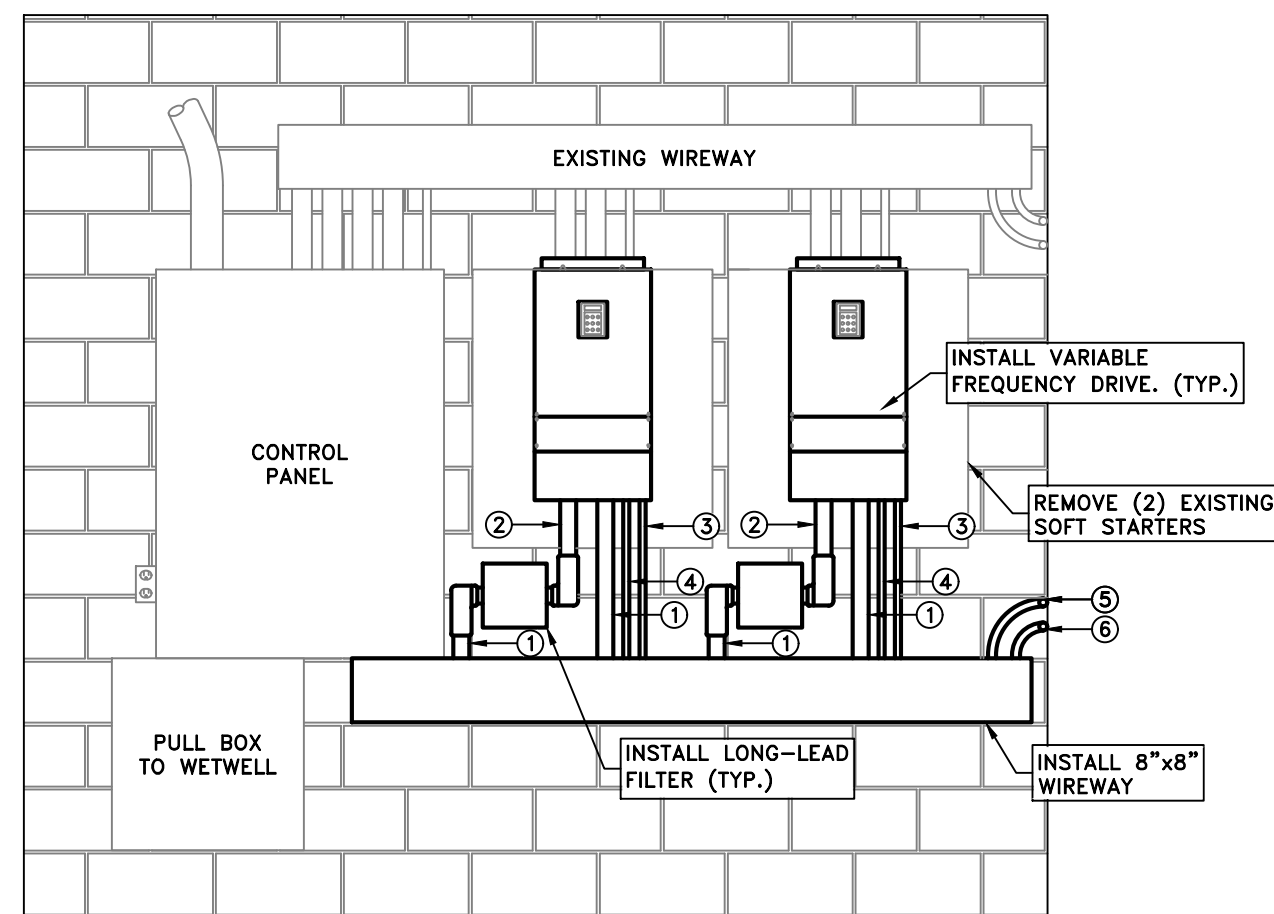
REVISIONS:

NO.:	DATE:





RAW WATER INTAKE BUILDING
(SCALE: 1" = 3'-0")



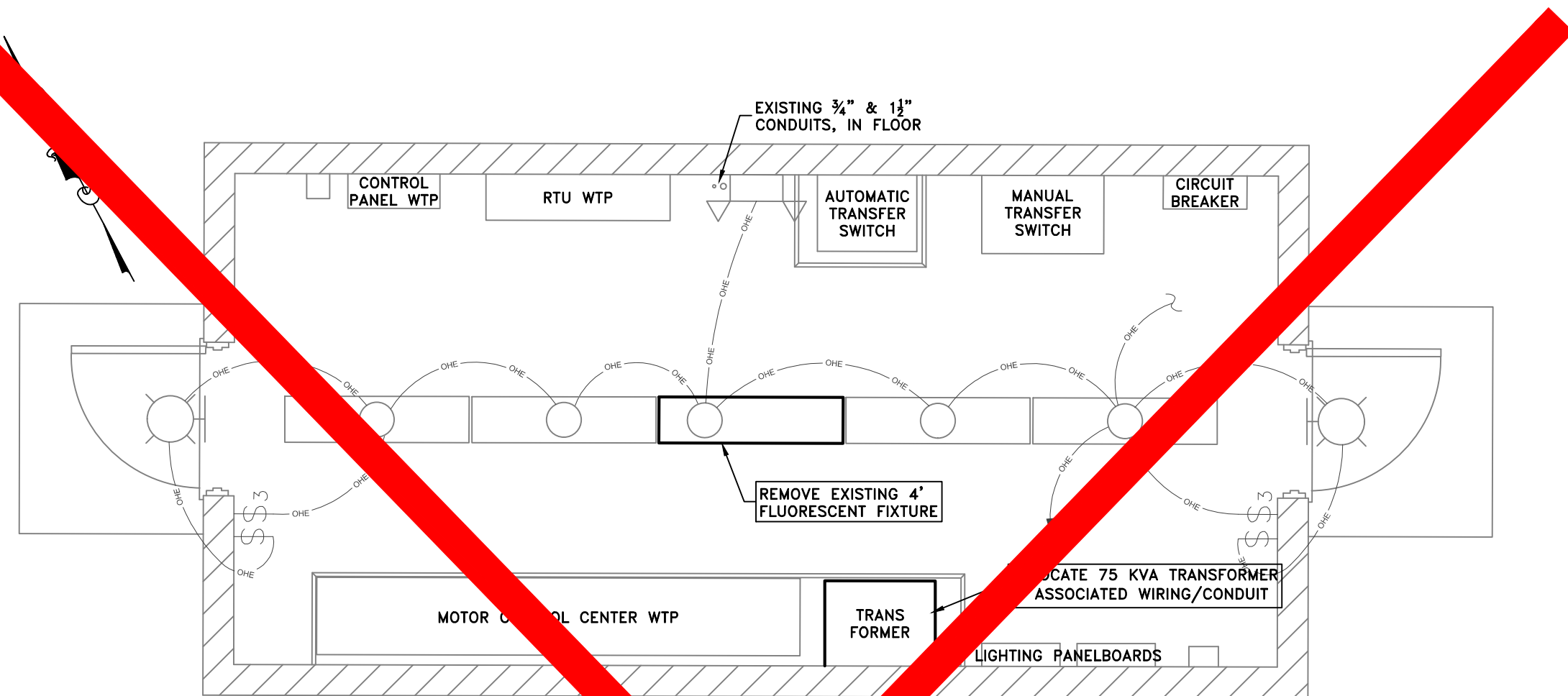
RAW WATER INTAKE
NORTHEAST WALL
(SCALE: 1" = 2'-0")

- CONDUIT SCHEDULE
- 1 - 2" CONDUIT, (3) 1/0 AWG, (1) 6 AWG GROUND
 - 2 - 2" CONDUIT, (3) 1/0 AWG
 - 3 - 3/4" CONDUIT, (6) 12 AWG
 - 4 - 3/4" CONDUIT, (1) BELDON #8770
 - 5 - 3/4" FLEX, (12) 12 AWG TO RTU ON ADJACENT WALL
 - 6 - 3/4" FLEX, (2) BELDON #8770 TO RTU ON ADJACENT WALL

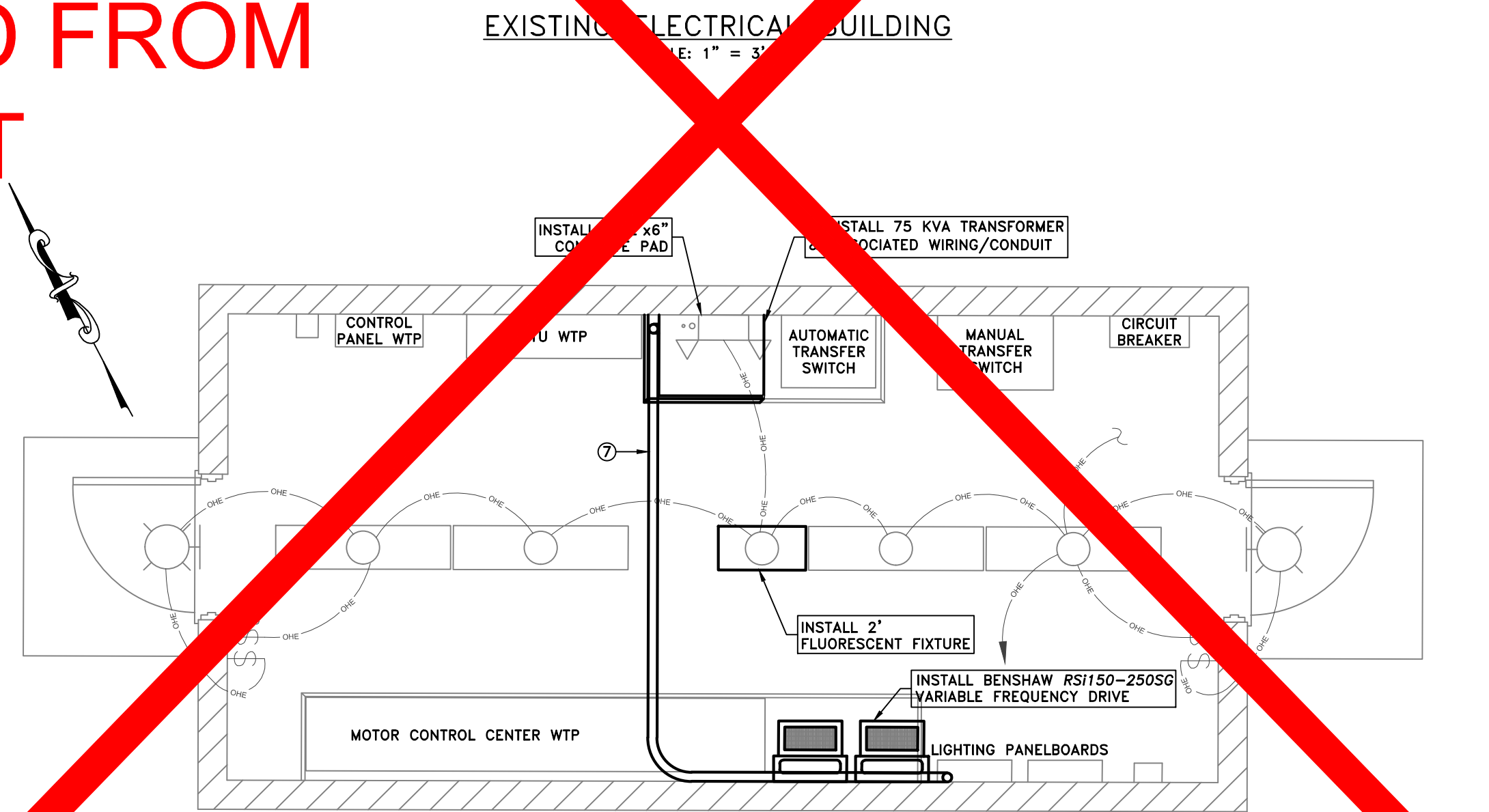
- RAW WATER SITE NOTES:
- 1.) CONNECT LINE SIDE OF VFDs FILTERS TO EXISTING ISOLATION CONTACTORS WITHIN CONTROL PANEL. REMOVE OVERLOAD RELAYS.
 - 2.) CONNECT LOAD SIDE OF VFD/LONG LEAD FILTERS TO EXISTING LUGS WITHIN CONTROL PANEL.
 - 3.) REMOVE ALL UNUSED CONDUIT & INSTALL BLANK-OFFS ON WIREWAY AND/OR PANELS.
 - 4.) CONTROL FOR VFDs SHALL BE REQUIRED BY SYSTEM INTEGRATOR.

- CONDUIT SCHEDULE
- 7 - 2 1/2" CONDUIT, (4) 4/0 AWG, (1) #6 AWG GROUND
 - 8 - 2" CONDUIT, (3) 2/0 AWG, (1) #4 AWG GROUND AS REQ'D.
 - 9 - 3/4" CONDUIT, (6) 12 AWG CONTROL
 - 10 - 3/4" CONDUIT, (2) BELDON 8770

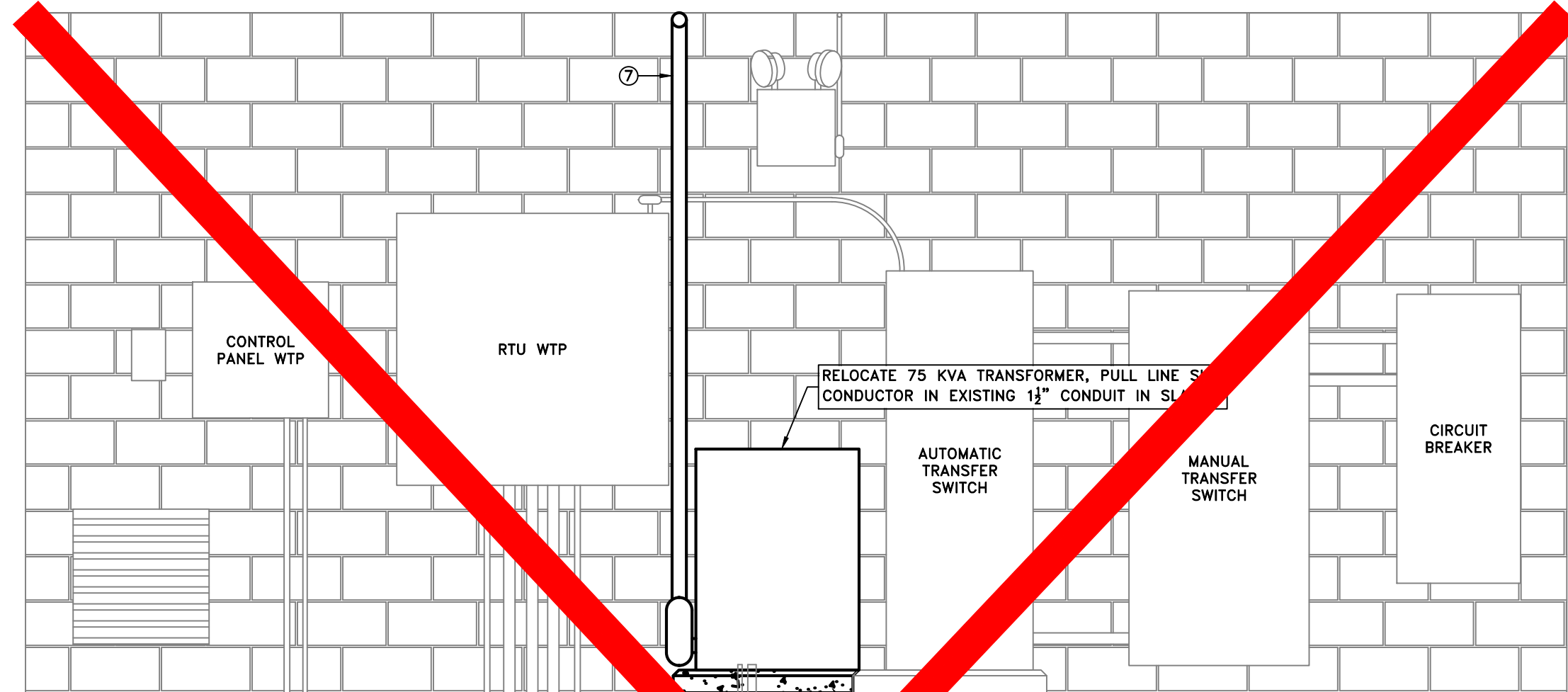
- ELECTRICAL BUILDING NOTES:
- 1.) CONNECT LINE SIDE OF VFDs FILTERS TO EXISTING ISOLATION CONTACTORS WITHIN EXISTING MCC.
 - 2.) CONNECT LOAD SIDE OF VFD/LONG LEAD FILTERS TO EXISTING LUGS WITHIN EXISTING MCC.
 - 3.) REMOVE ALL UNUSED CONDUIT & INSTALL BLANK-OFFS ON WIREWAY AND/OR PANELS.
 - 4.) CONTROL FOR VFDs SHALL BE REQUIRED BY SYSTEM INTEGRATOR.



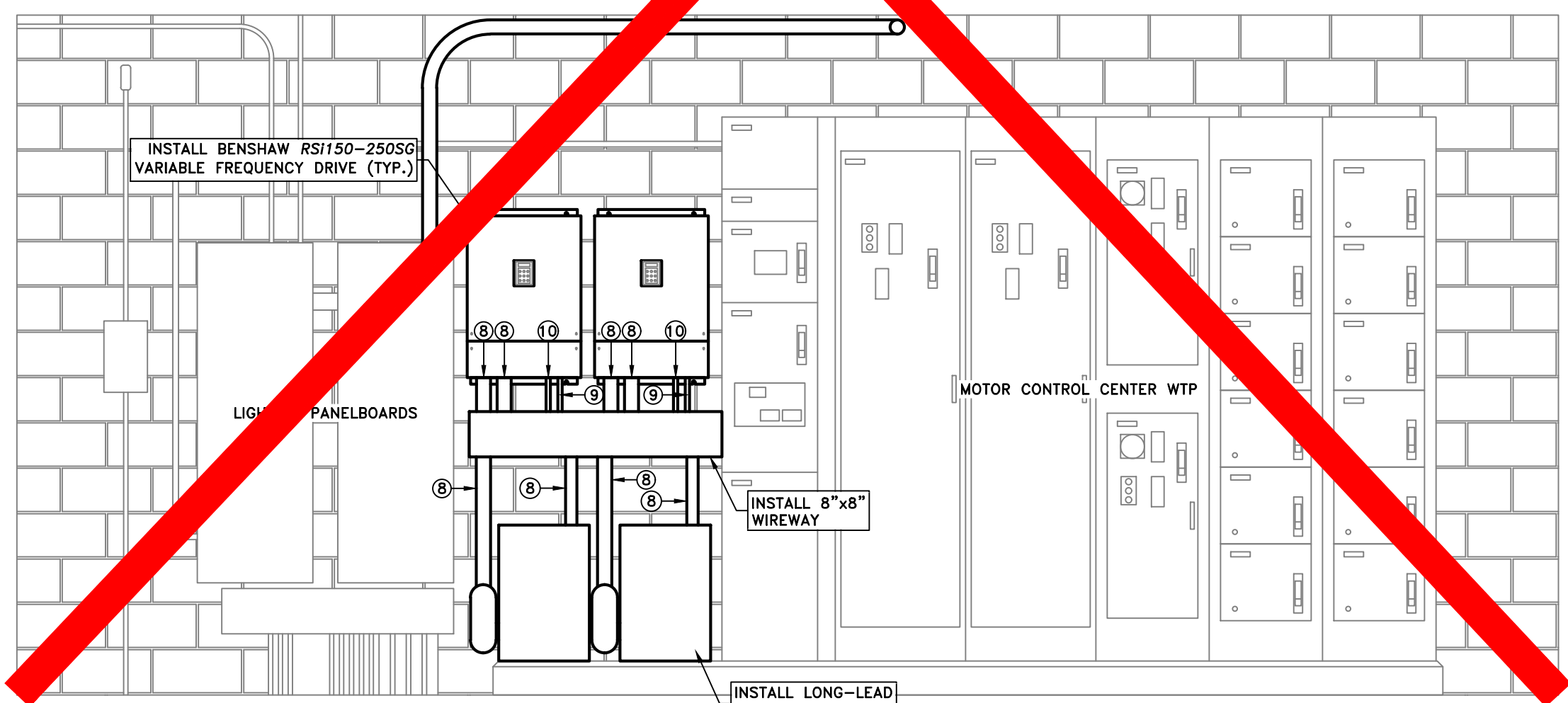
EXISTING ELECTRICAL BUILDING
(SCALE: 1" = 3'-0")



PROPOSED ELECTRICAL BUILDING
(SCALE: 1" = 3'-0")



ELECTRICAL BUILDING INTERIOR
NORTH WALL
(SCALE: 1" = 3'-0")



ELECTRICAL BUILDING INTERIOR
SOUTH WALL
(SCALE: 1" = 3'-0")

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