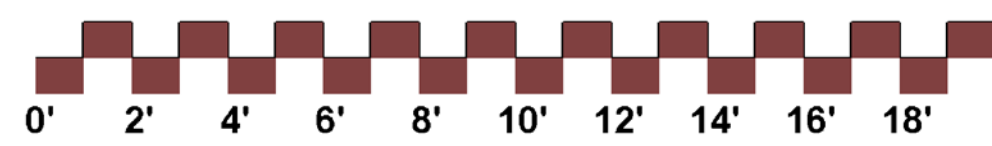


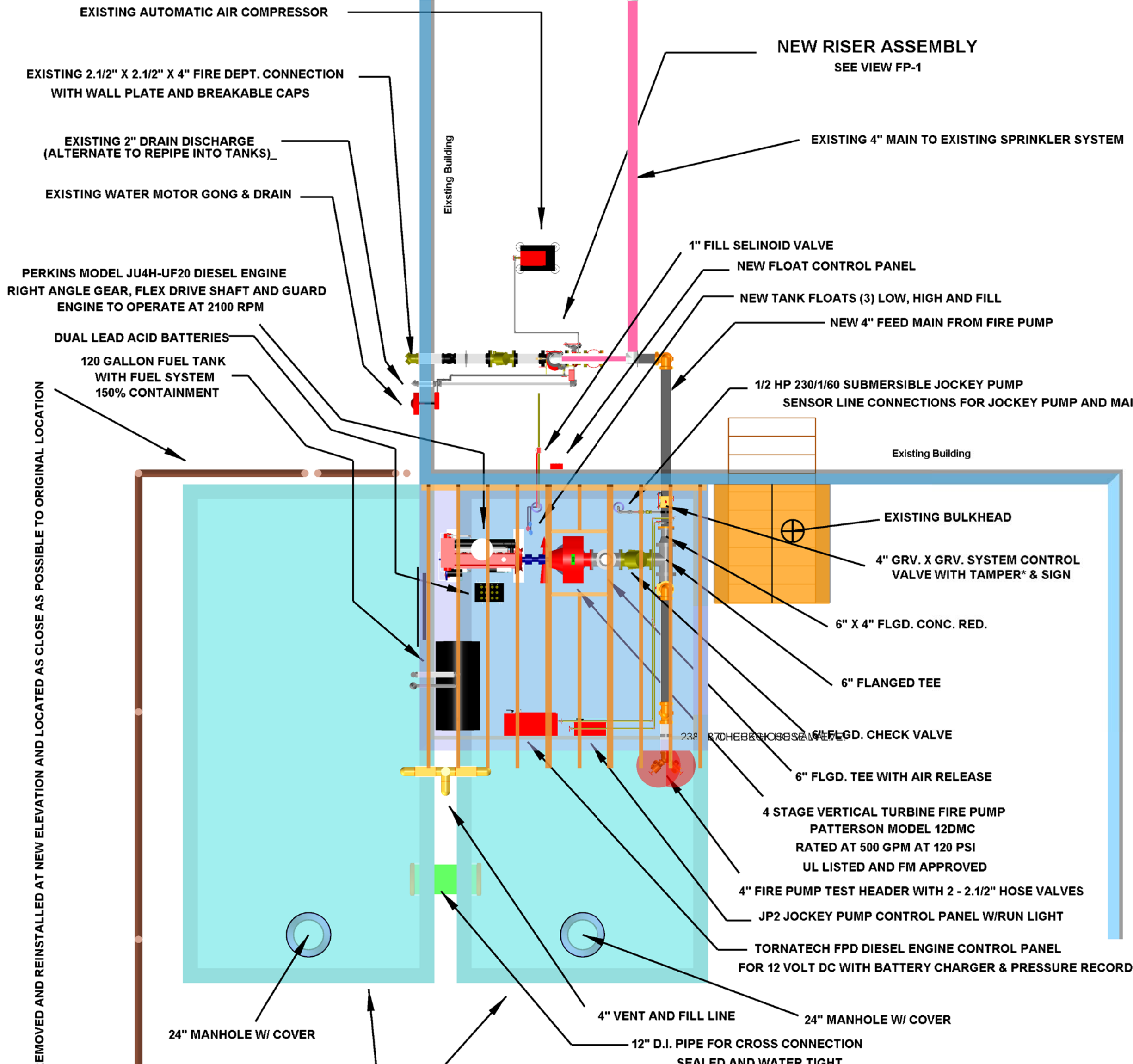
Tank, Pump house & Sprinkler Room Plan

1/4" = 1'-0"



PUMP HOUSE TO BE SPRINKLED PER CODE
SEE FP-3 FOR SPRINKLER LAYOUT

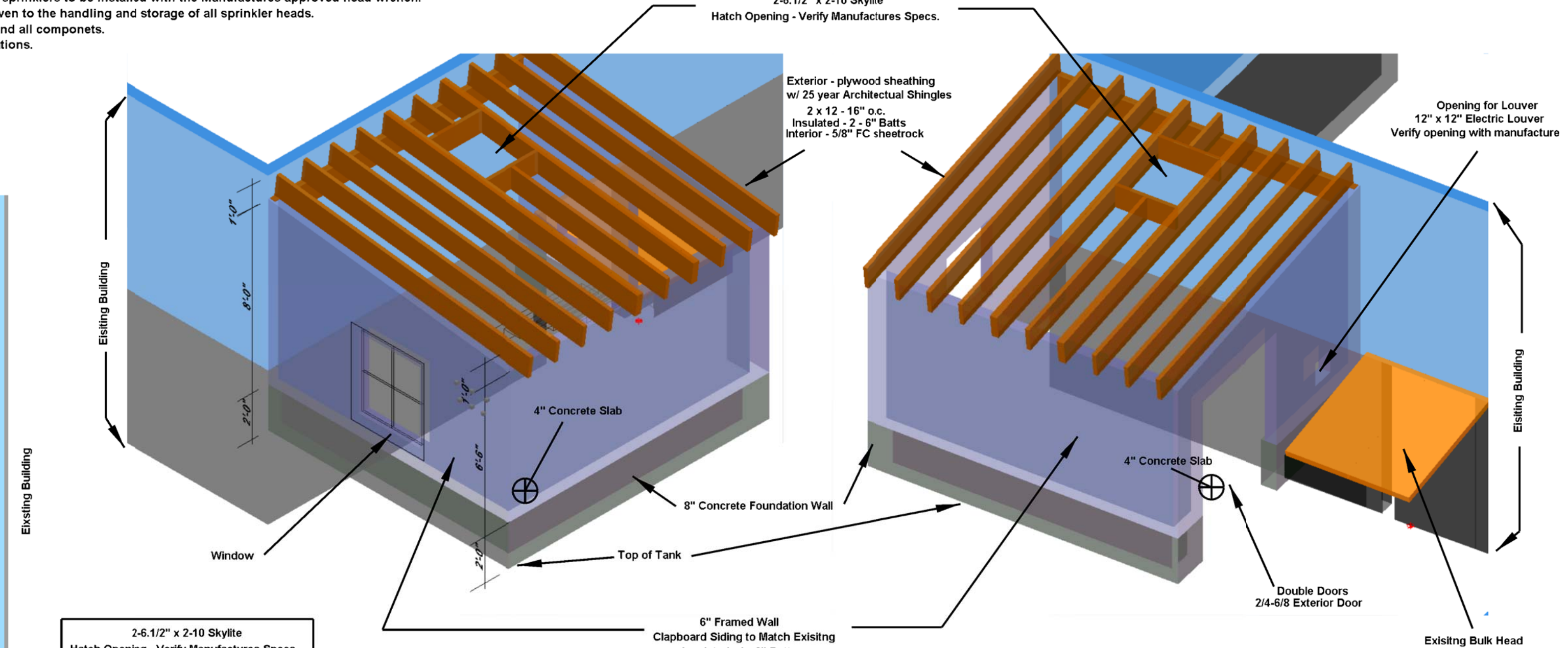
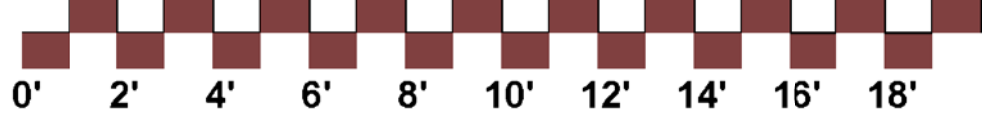
REFER TO FP-2 FOR EXTERIOR VIEW INFORMATION OF PUMP HOUSE AND TANK INFORMATION
REFER TO FP-3 FOR INTERIOR OF FIRE PUMP ROOM AND COMPONENTS



Project North

Pump House Plan

1/4" = 1'-0"



- Specifications:**
- 1.) Scope of work - Sprinkler Contractor is to install in accordance with all applicable Codes, Standards, and Specifications.
 - 2.) Work is to be performed in a workmanship like manner by persons trained in similar type installations and licensed, where required by the AHJ.
 - 3.) Hydraulic Information to be provided on the Sprinkler Riser.
 - 4.) Earthquake bracing to be provided per code and/or AHJ.
 - 5.) All Inspector's Test Connections and Low Point Drains to be installed per Codes and Standards.
 - 6.) All Hangers to be installed per NFPA and other applicable Codes, refer to details for additional information.
 - 7.) Piping to be pitched:
Wet Pipe Systems - Level or slight pitch to drain.
 - 8.) Main and X-main piping to be Sch. 40 Black Steel Pipe - Cut, Threaded and Reamed.
 - 9.) Branchline piping to be Sch. 40 black Steel Pipe - Cut, Reamed and Threaded.
 - 10.) Pipe Joint Compound Applied to Male Threads only.
 - 11.) Others to Provide: Painting, Electric Wiring, Control Wiring, Fire Extinguishers and any other work not shown or specified.
 - 12.) All System Components and Materials to be installed per NFPA 13 and Manufacture's Listing.
 - 13.) All grooved couplings on low pressure piping to be "Victaulic" #005 Zero-Flex couplings, except where required by NFPA # 13 and F.M. - "Victaulic" #75 couplings to be used as flexible. Earthquake bracing to be installed within 24" of all flexible couplings.
 - 14.) All grooved couplings on high pressure piping to be "Victaulic" #75 couplings. Earthquake bracing to be installed within 24" of all flexible couplings.

Special Notes:
All information and design is based on plans and information provided by Owner, SVSSI and information gathered during site visit.
Purpose of design is for replacement of the water supply system of the sprinkler system.
This drawing has not been field verified should be checked for accuracy and routing of the sprinkler system prior to fabrication and installation.

SPRINKLER VALVE ROOM DISCRPTION:

- 1.) NEW 4" FEED LINE FROM FIRE PUMP
- 2.) RELOCATED FLGD. 4" OSY VALVE WITH TAMPER SWITCH AND SIGN
- 3.) RELOCATED FLGD. 4" CHECK VALVE
- 4.) RELOCATED 4" FLGD TEE
- 5.) EXISTING 4" CHECK VALVE
- 6.) EXISTING AUTO. BALL DRIP
- 7.) EXISTING FIRE DEPT. CONNECTION WITH PLATE & CAP
- 8.) EXISTING 4" FLGD. DRY PIPE VALVE - RELIABLE MODEL G - WITH TRIM
- 9.) EXISTING 4" FEED TO EXISTING SPRINKLER SYSTEM
- 10.) EXISTING AUTOMATIC AIR COMPRESSOR
- 11.) 2" DRAIN TO EXTERIOR - WITH AUX. DRAIN (ALTERNATE TO RE-PIPE INTO HOLDING TANKS).
- 12.) NEW PIPE STAND
- 13.) NEW SELINOID VALVE FOR WATER FILL
- 14.) NEW FLOAT CONTROL PANEL FOR LOW, HIGH AND FILL FOR TANKS
- 15.) NEW FLOATS AND FILL LINES TO TANK
- 16.) EXISTING WATER MOTOR GONG WITH DRAIN TO EXTERIOR
- 17.) 2" DRAIN DISCHARGE (ALTERNATE - RUN INTO TANKS)
- 18.) EXISTING FLOW SWITCH FOR SPRINKLER SYSTEM
- 19.) EXISTING LOW AIR ALARM FOR SPRINKLER SYSTEM

New water fill feed line to be connected to the existing 1" line formally used to fill pressure tank - an air gap to be maintained between the end of the fill pipe and the top of the fill line of the tank.

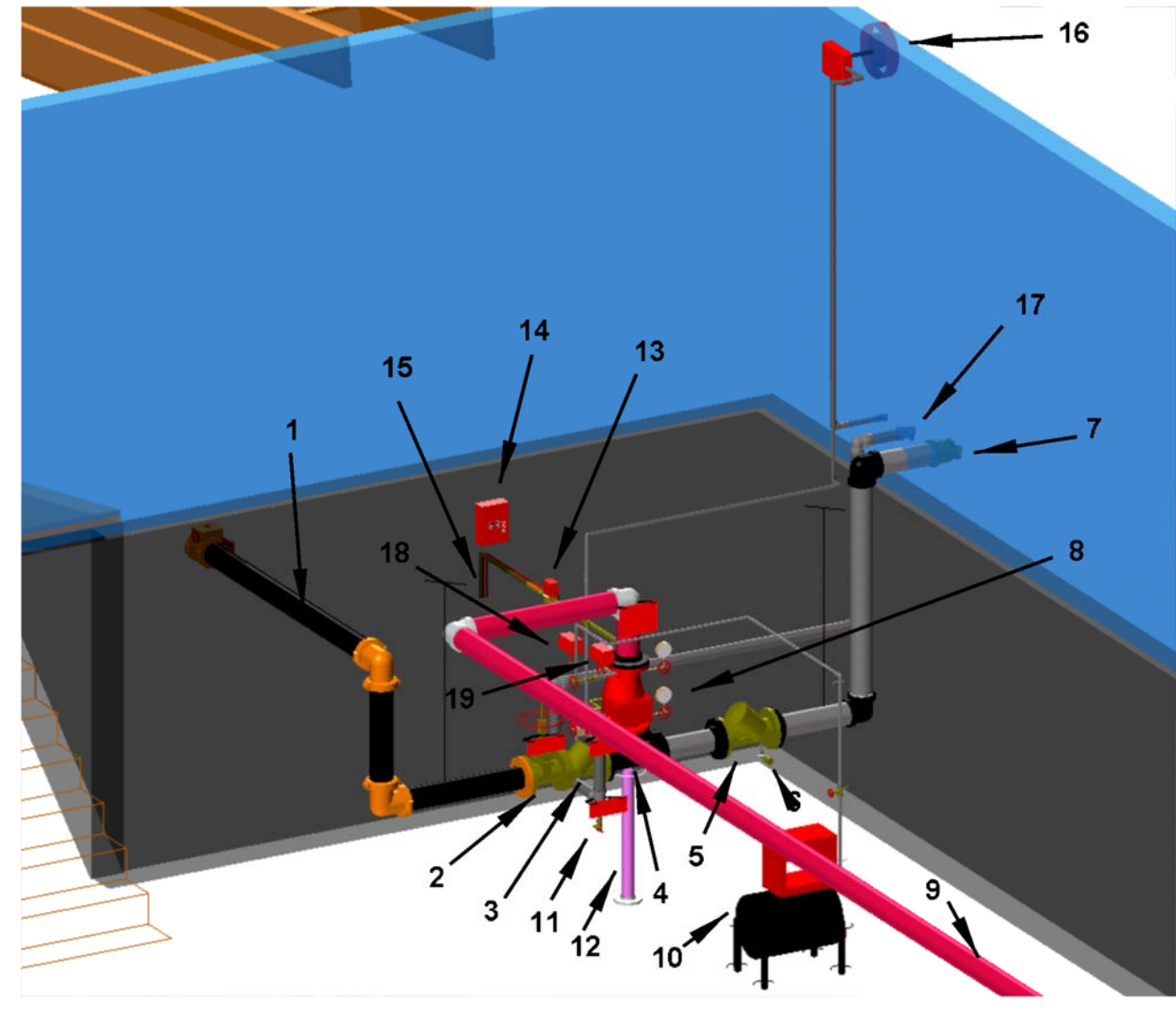
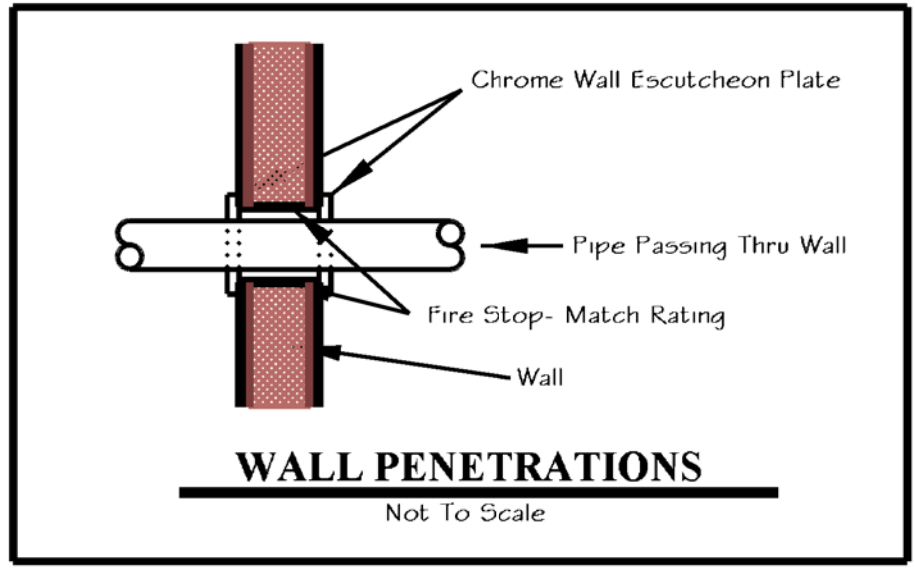
Existing sprinkler head box to be maintained and with a spare wrench.

Existing alarm system and wiring to be maintained and wiring to be relocated to new location made necessary by valve relocations.

All valving to have signs to identify usage and purpose.

During change over from the old pressure tank system and the new fire pump system a 24 hour fire watch to be maintained.

- General Notes:**
- The Sprinkler System is designed in accordance with the requirements of NFPA 13 & 20.
 - All material shall be U.L. listed.
 - All work to be tested at 200 PSI for 2 hours. Test to be witnessed and signed by the owner or Superintendent.
 - For further information concerning Structural, Mechanical, Architectural and Electrical see the plans.
 - Sprinkler Heads to be as shown on legend below.
 - Sprinkler piping to be run as shown on plan.
 - All work to be coordinated with the other trades prior to fabrication and Approvals. Whenever possible attempts have been made to Coordinate with other trades via shop drawings. If no shop drawings are available, bid drawing will be used.
 - See submittal data of manufacturers details on items of equipment being used.
 - All control valves will have tamper switches installed. Operation of switch will not affect the operation of the sprinkler flow switch. (Wiring by others)
 - Flow switches shall be connected to fire alarm system as an automatic indicating device. (Wiring by others)
 - All electrical control and/or alarm systems wiring to be provided and installed by others.
 - The owner is responsible for providing adequate heat to protect All types of fire protection sprinkler systems from freezing.
 - The owner is responsible for maintaining the proper operating condition of his/her system(s) and devices.
 - Spare sprinkler heads shall be provided and stored in a cabinet on the premises are follows:
 - (1) 1 to 300 Sprinklers 6 Heads
 - (2) 301 to 1000 Sprinklers 12 Heads
 - (3) Over 1000 Sprinklers 24 Heads



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Fire Protection Plans:
FP1 Pump House Floor, Details, Specifications & Views
FP2 Views & Details.
FP3 Views & Details.

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CHAPIN CONSULTING & DESIGN
311 WEST RIVER ROAD BRATTLEBORO, VT 05301
802-257-0889 Fax 802-257-0121 SINCE 69 email: chapin_design@gmail.com

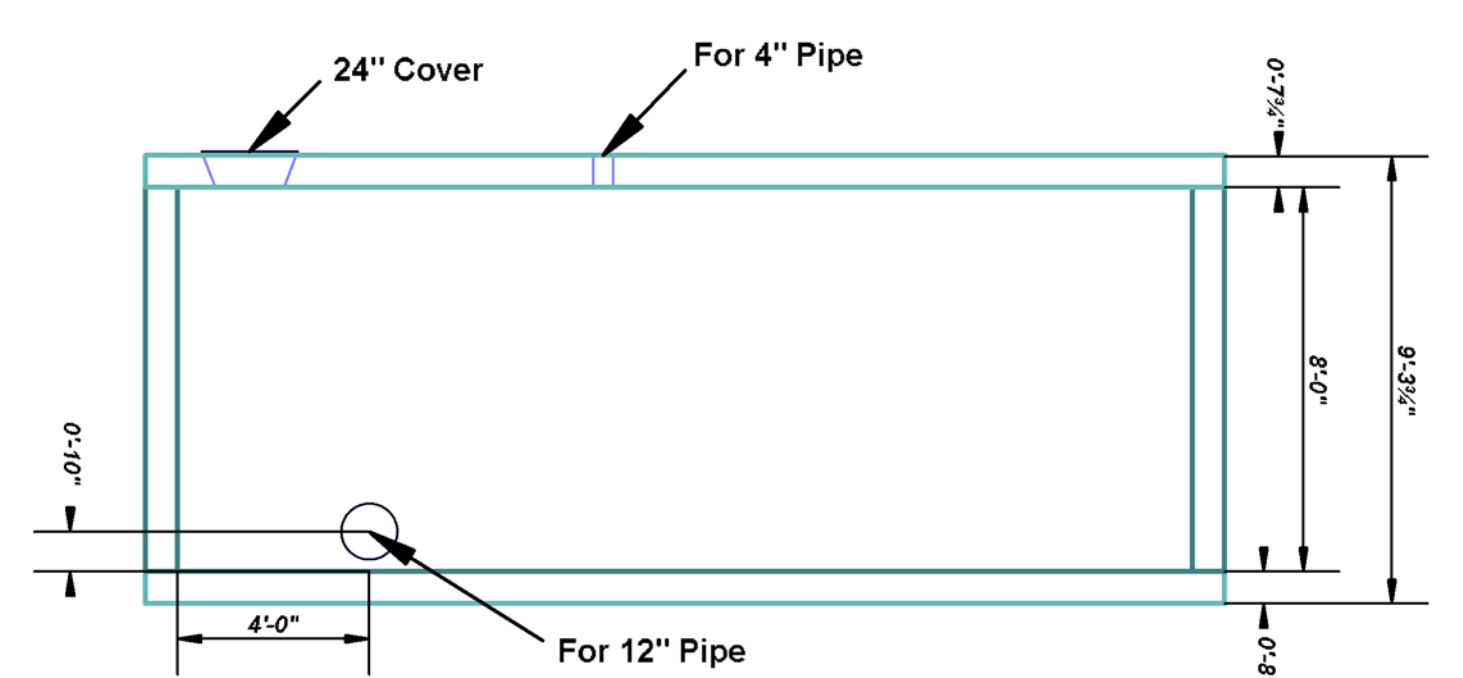
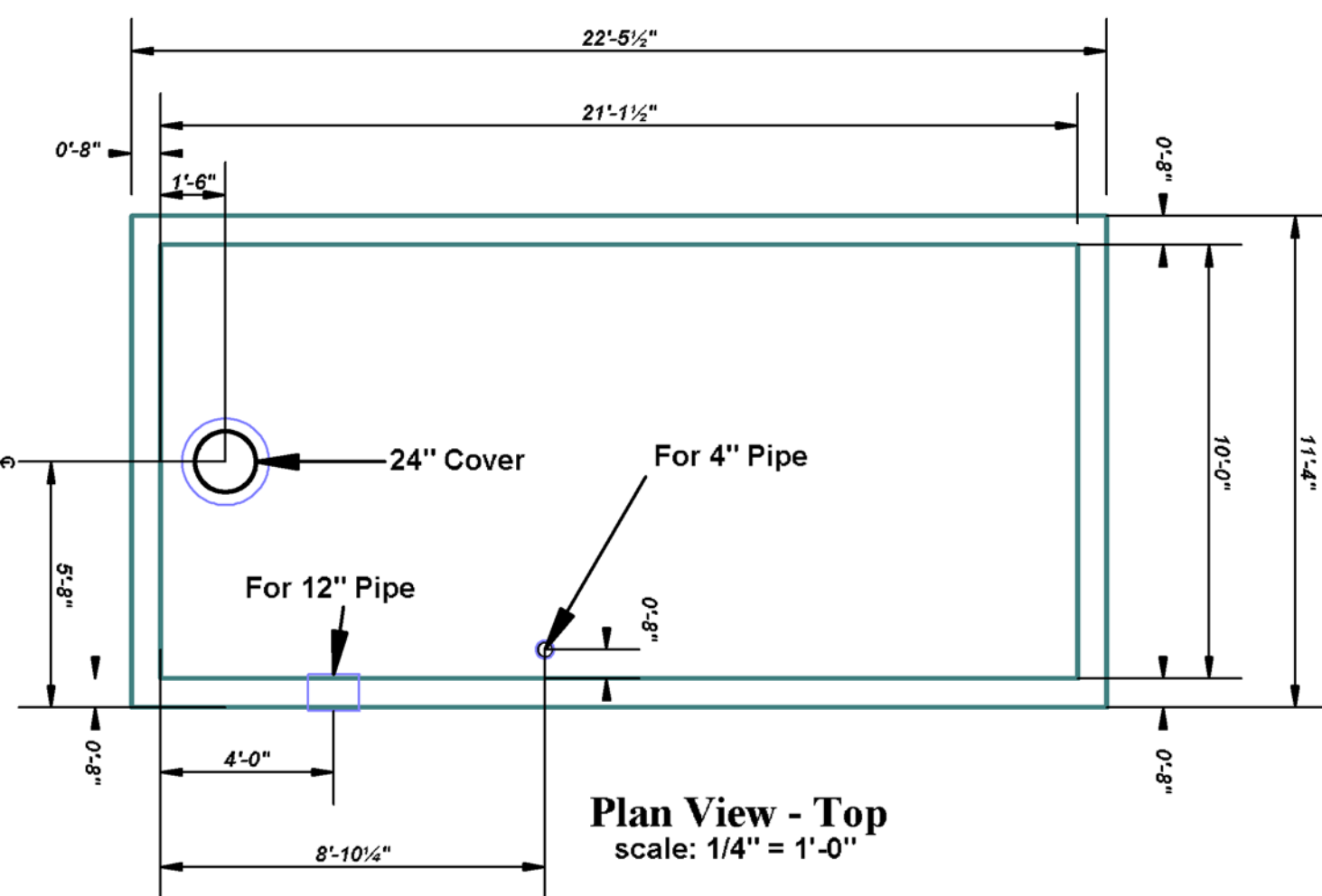
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Jim Crozier- Facility Manager

SPRINKLER CONTRACTOR
Southern Vermont Sprinkler Services Inc.
Design Installation Service
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802-254-2242 Fax 802-257-0670

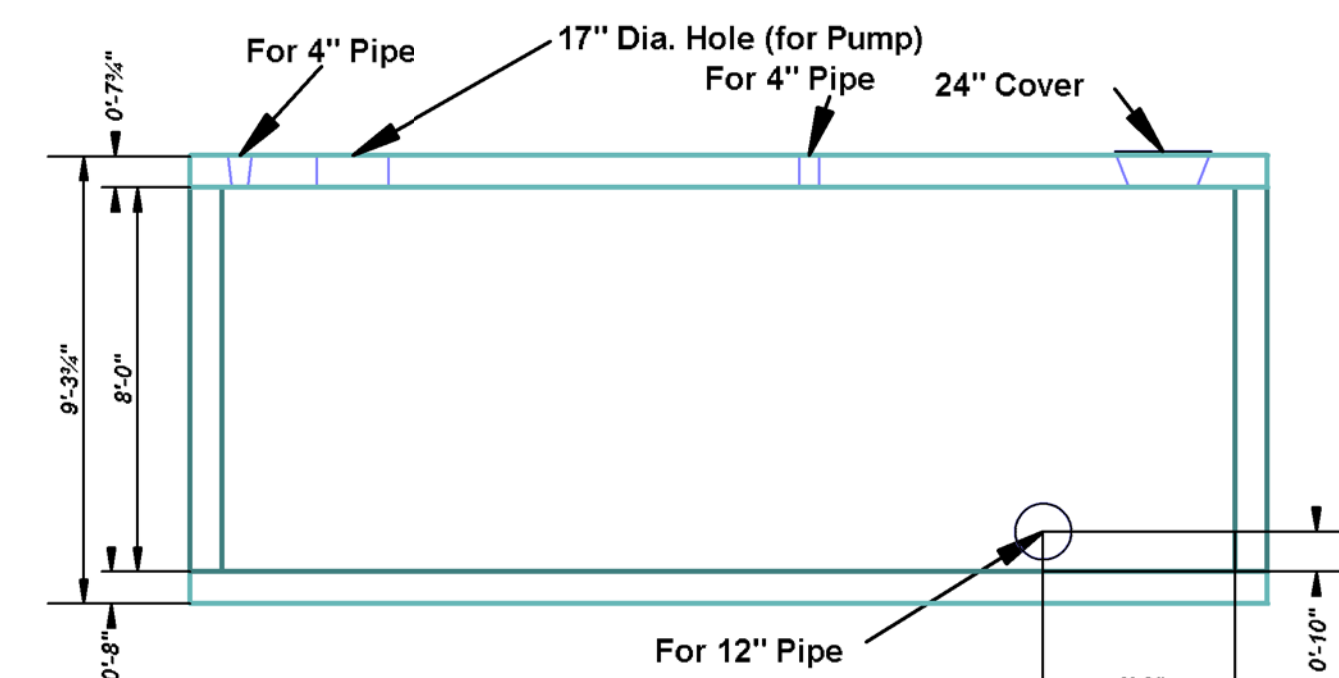
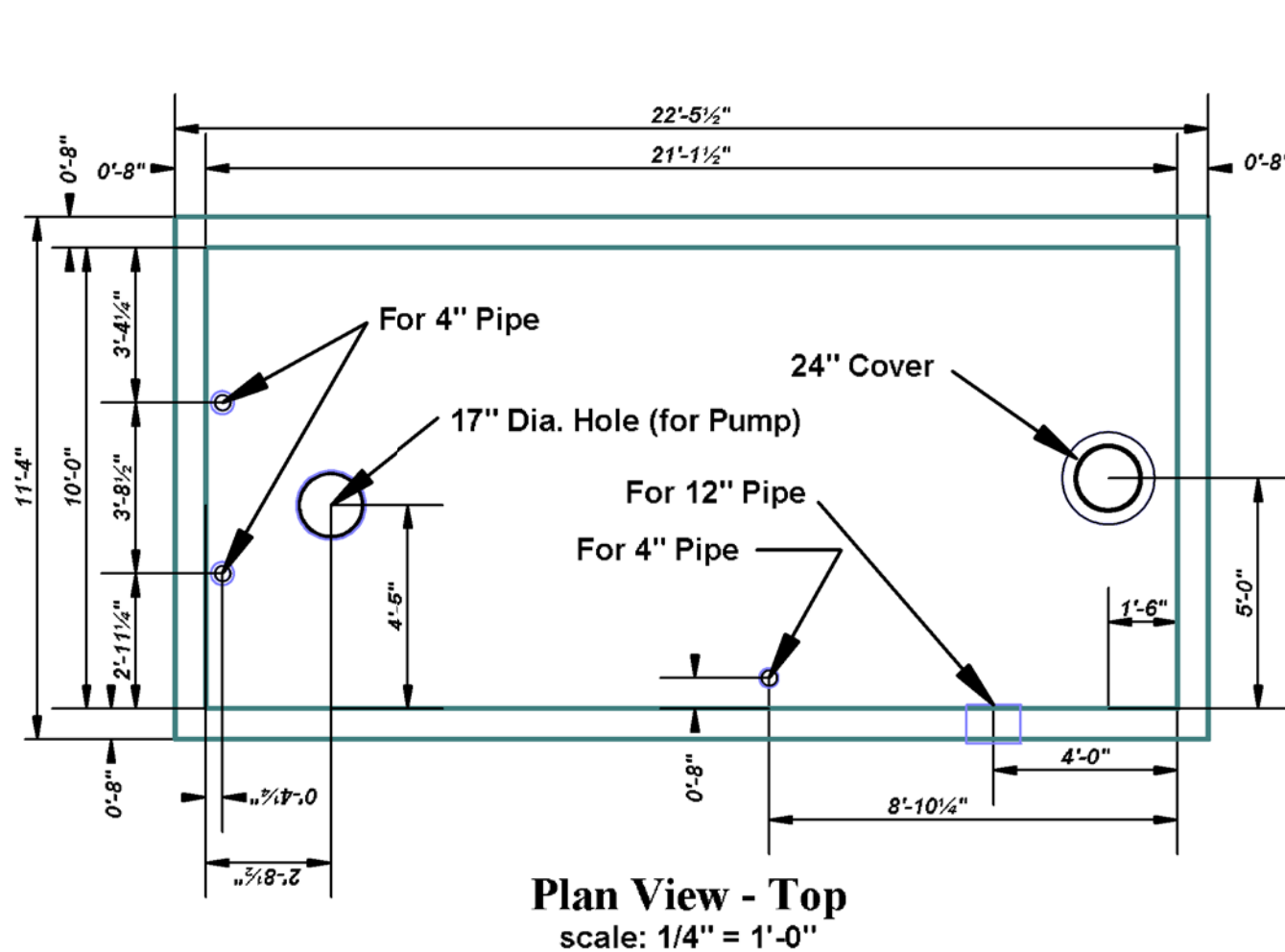
Otis health care center
Grace Cottage Hospital
P.O. Box 216
Townshend, Vermont 05353

SPRINKLER PIPING
Fire Pump & Building
PERMIT NO.
CONTRACT NO. GCH-11-02
APPROVAL VT. Dept. L & I
DESIGNER T.E. Chapin, SET
SCALE 1/4" = 1'-0"
DATE 12/23/2002
GCH-11-02-FP-1
PLOTTED

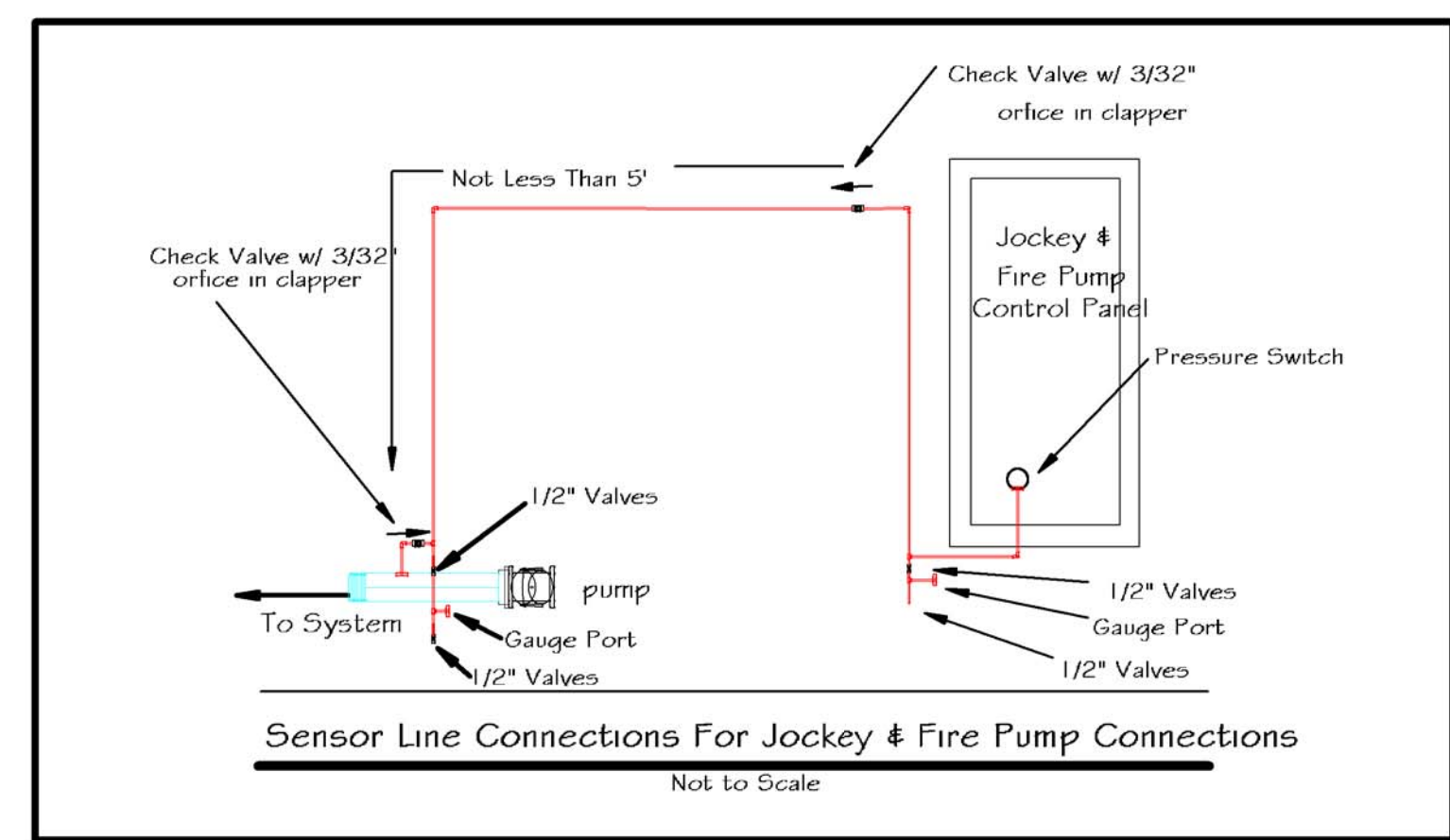
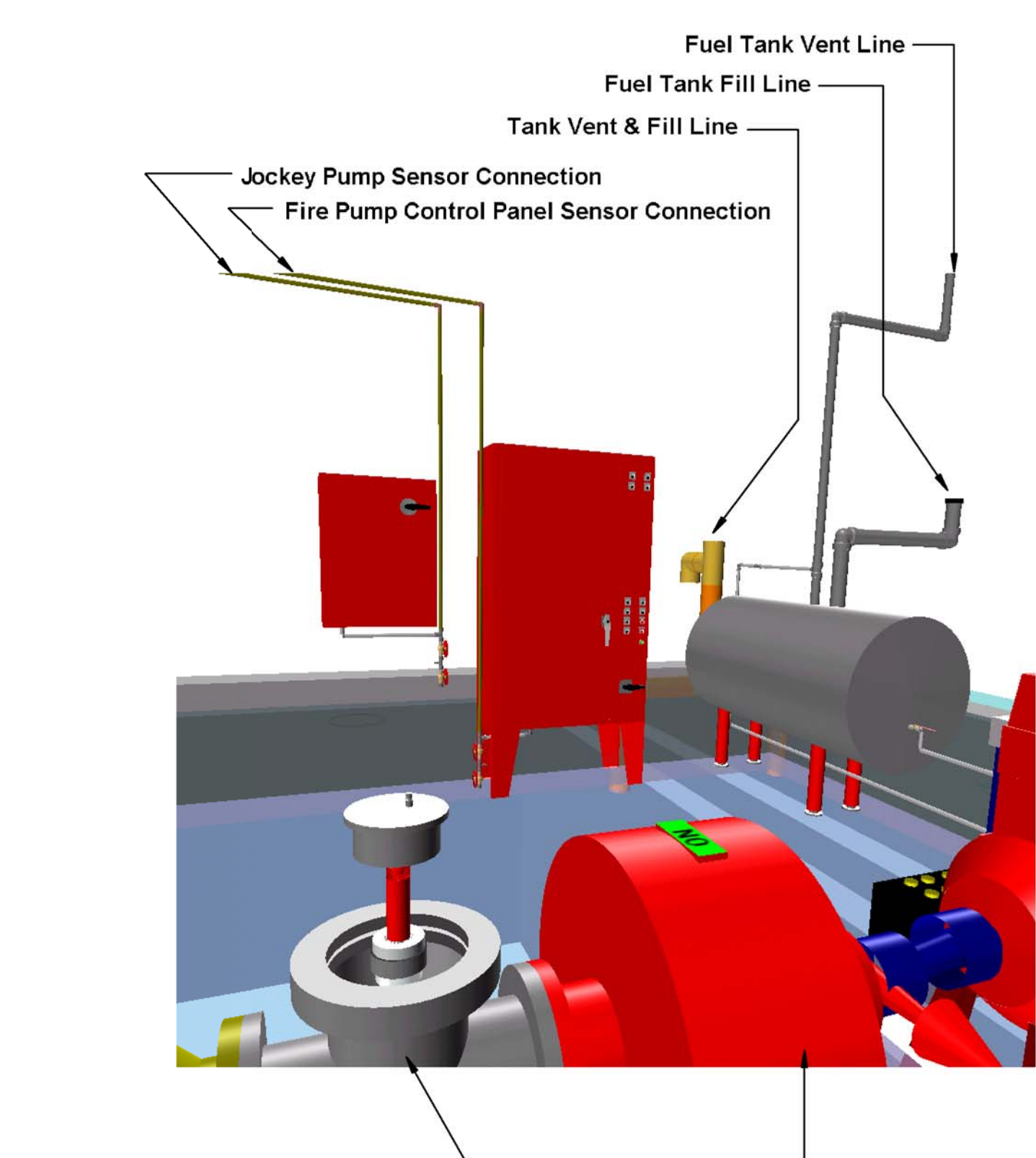
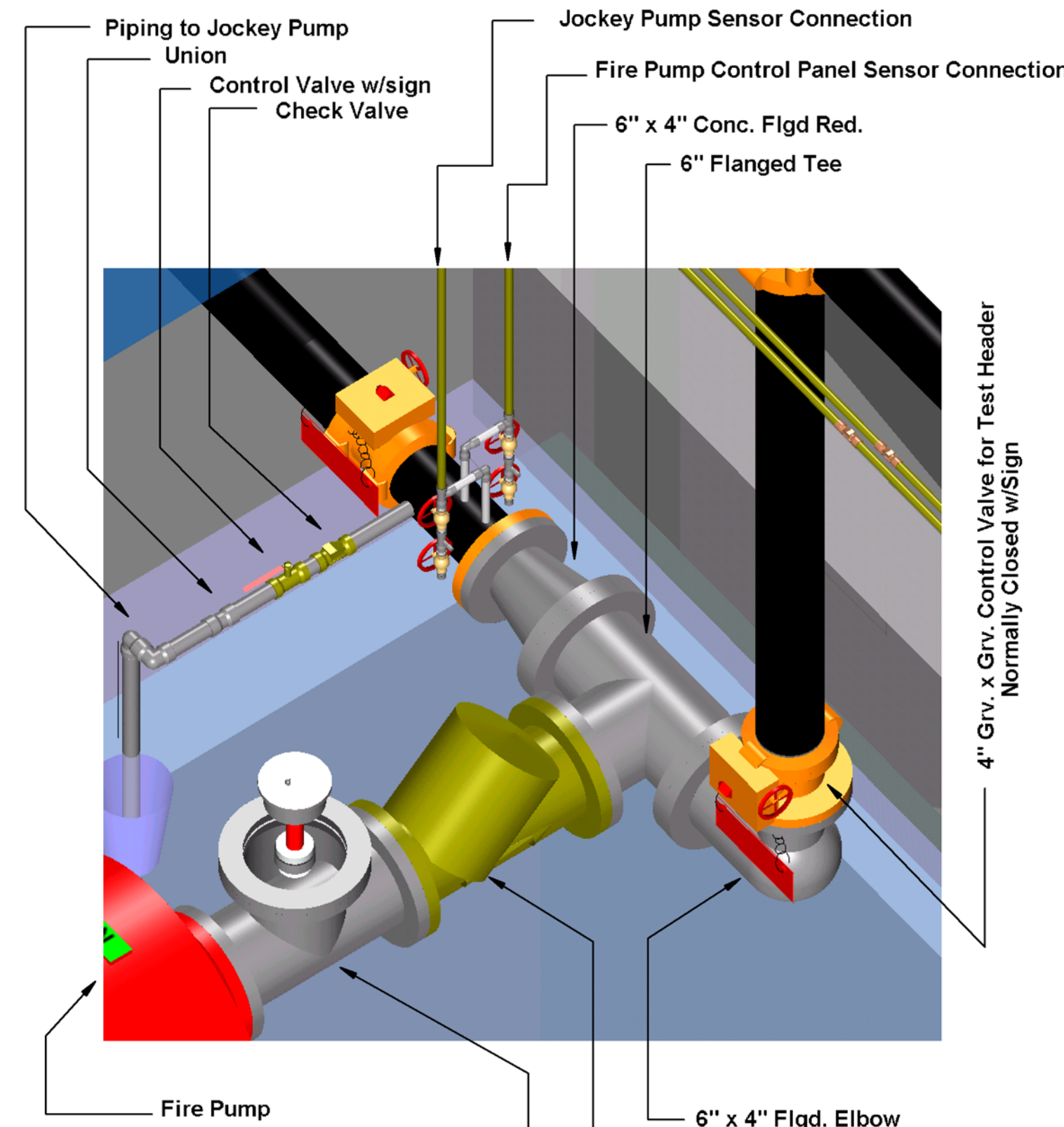
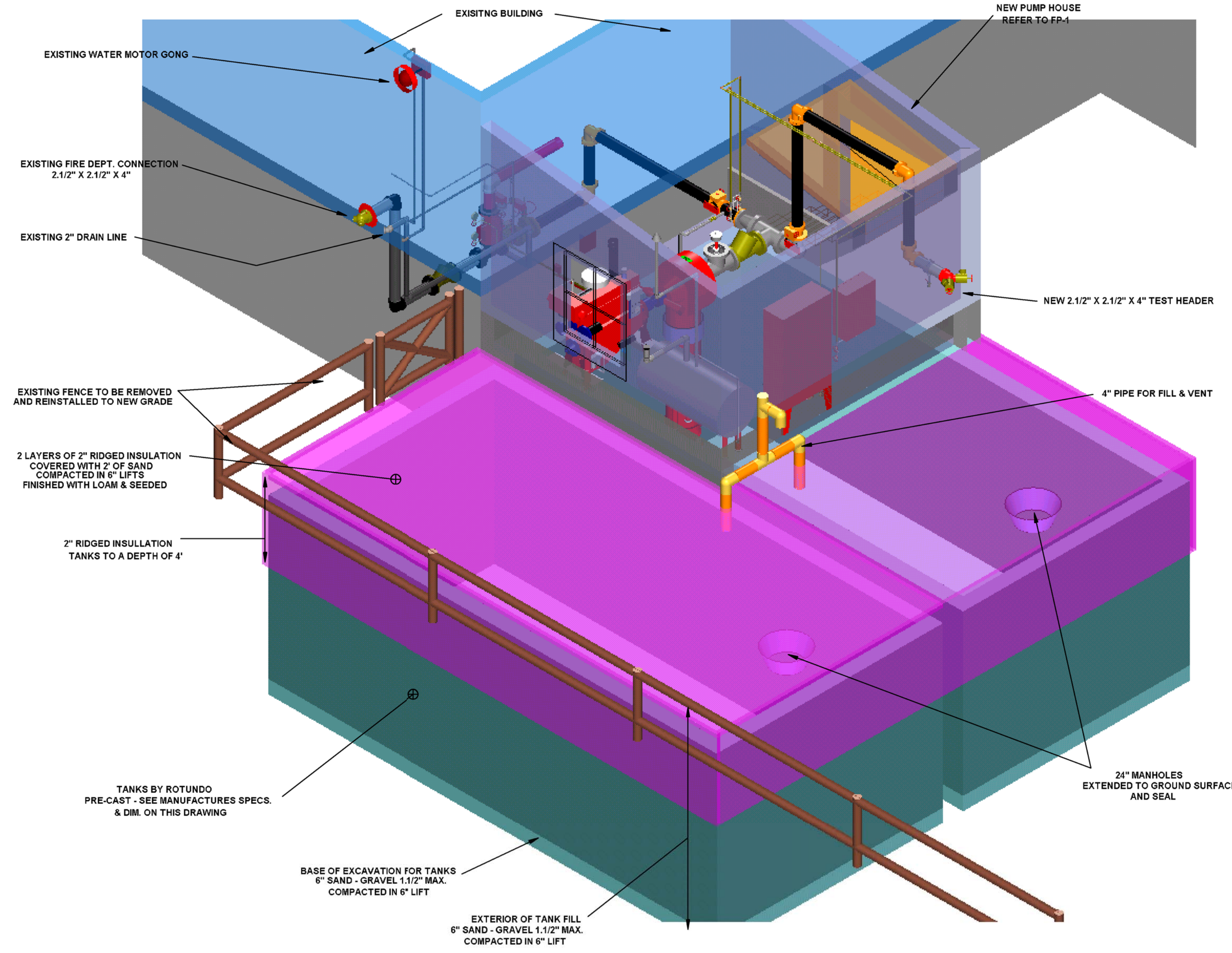
FP 1 of 3



TANK #1



TANK #2



Fire Protection Plans:
 FP1 Pump House Floor, Details, Specifications & Views
 FP2 Views & Details.
 FP3 Views & Details.

SPRINKLER DESIGN BY:

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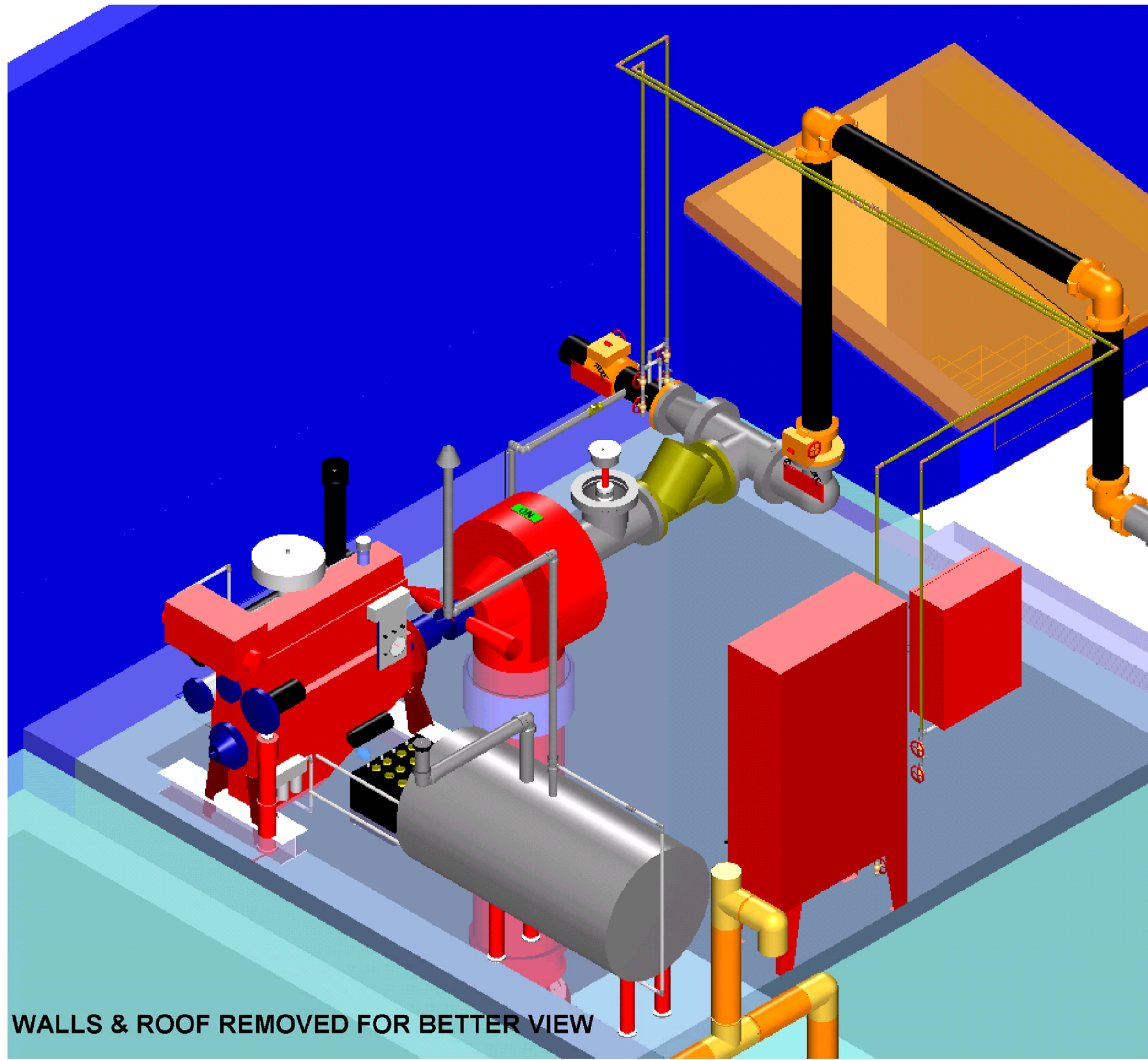
 Design Installation Service
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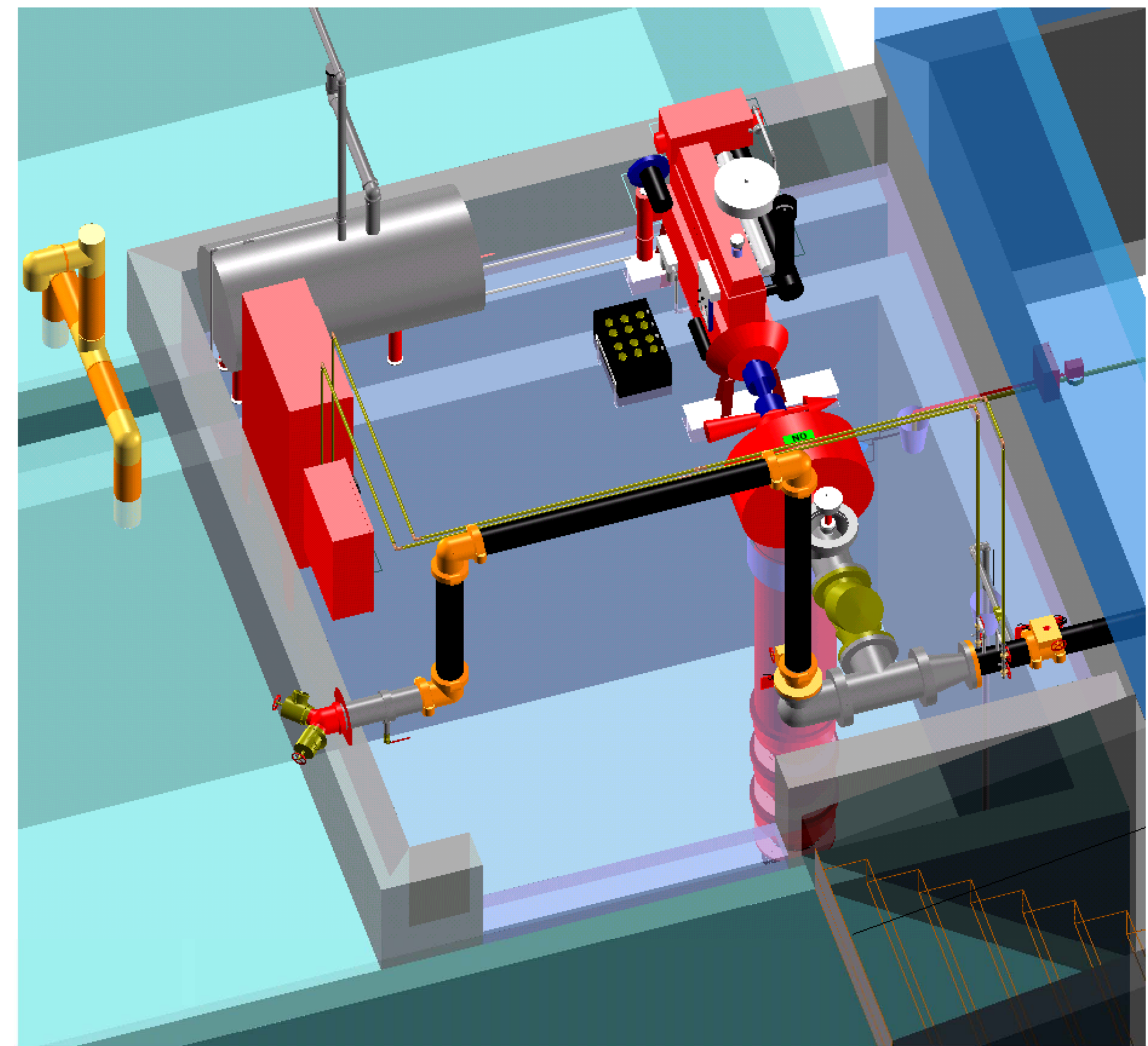
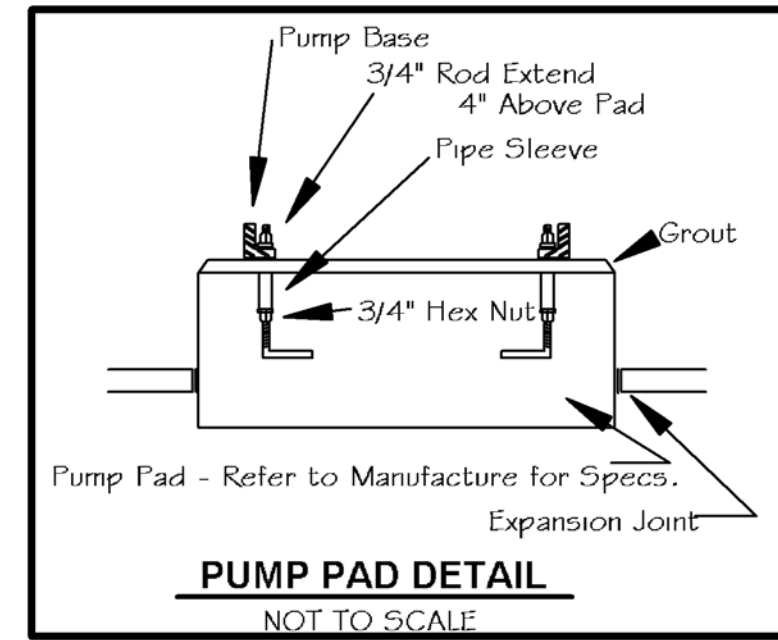
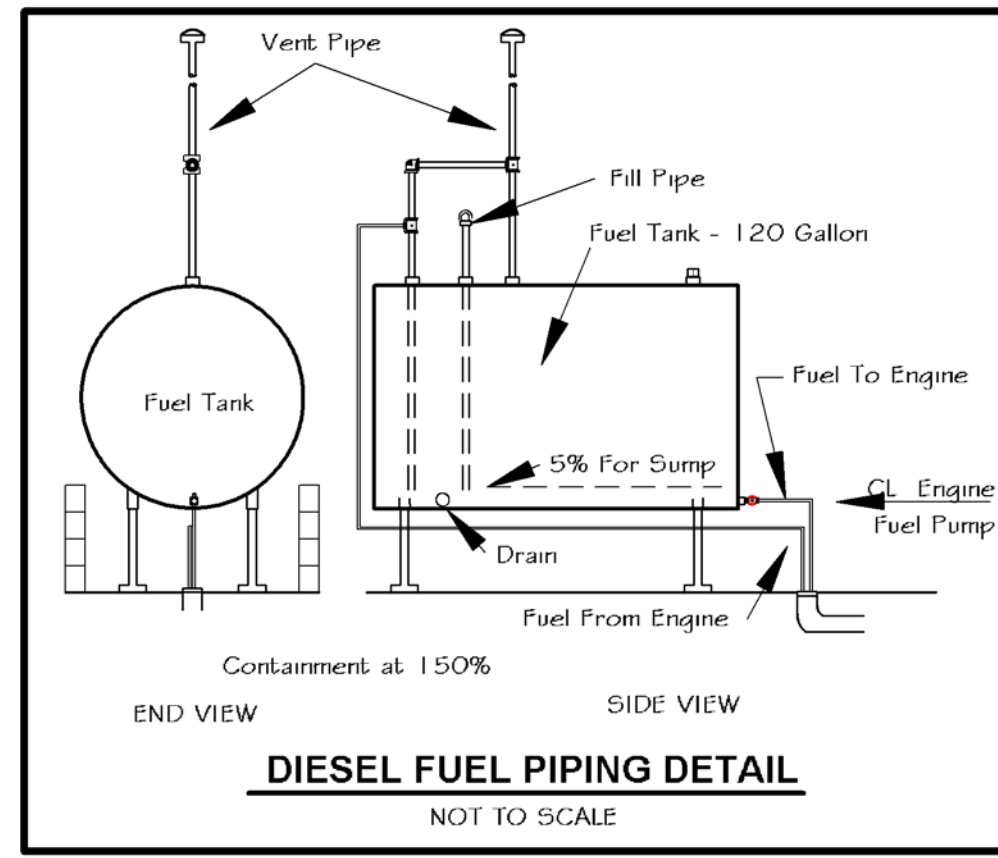
SPRINKLER PIPING
Fire Pump & Details
PERMIT NO.
CONTRACT NO. GCH-11-02
APPROVAL VT. Dept. L & I
DESIGNER T.E. Chapin, SET
SCALE 1/4" = 1'-0"
DATE 12/23/2002
PLOTTED
FP 2 of 3

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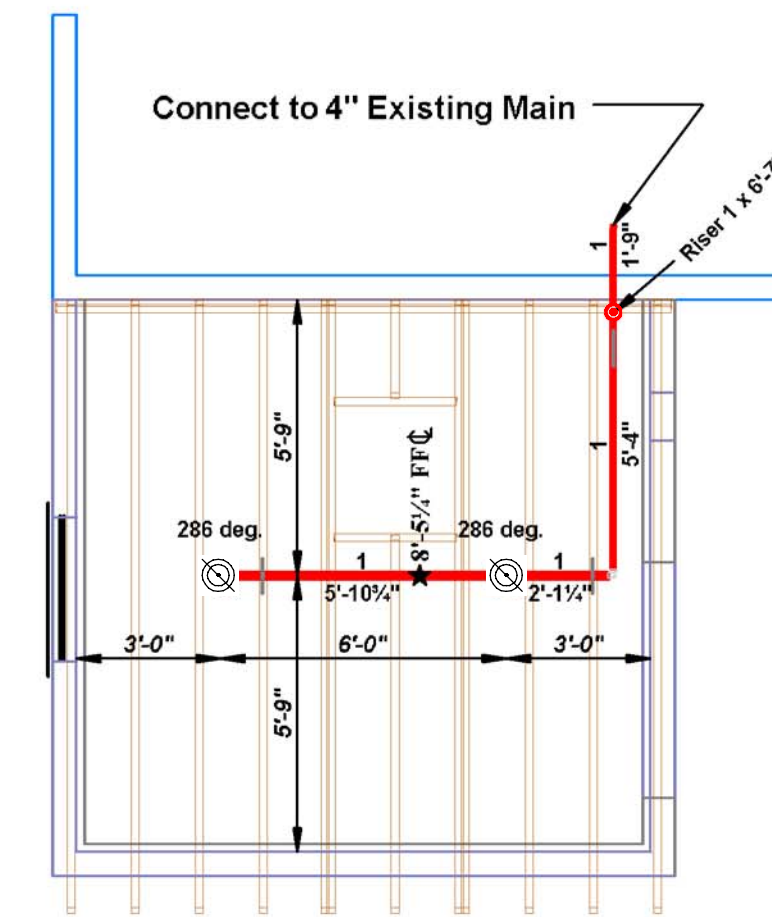
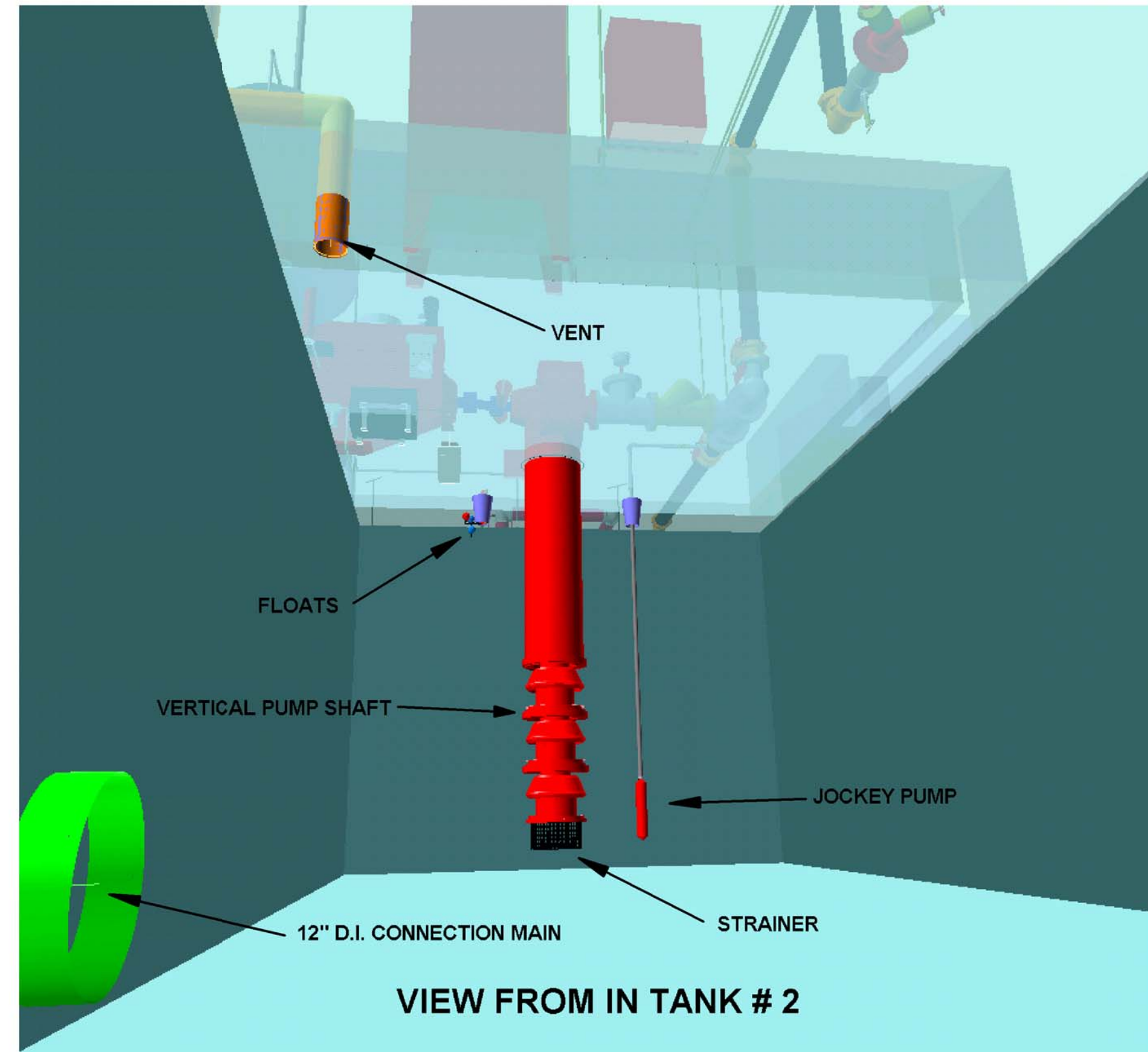
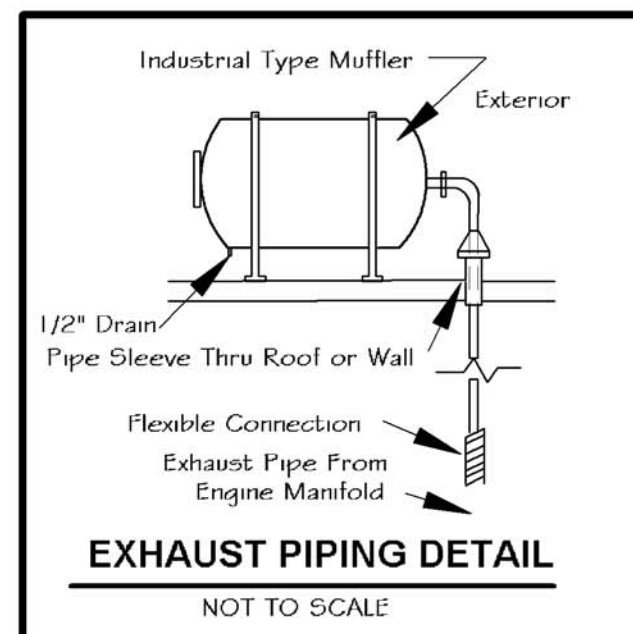
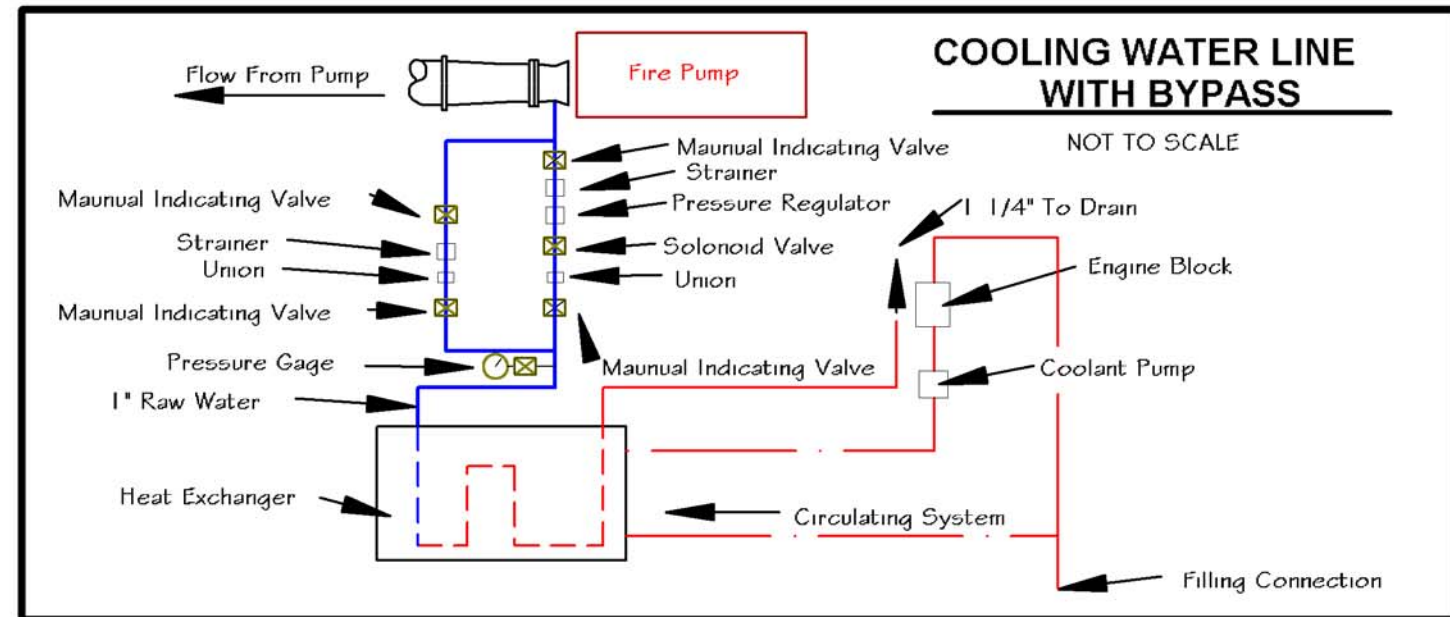
Refer to Manufactures specifications and listing for all installation of sprinkler heads. All sprinklers to be installed with the Manufactures approved head wrench.
 Pipe Joint Compound and teflon tape to be applied to male threads only. Care is to be given to the handling and storage of all sprinkler heads.
 Refer to specifications and details for the installation of the Automatic Sprinkler System and all components.
 All equipment to be UL & FM Listed and installed per Manufactures Listing and Specifications.



WALLS & ROOF REMOVED FOR BETTER VIEW



WALLS & ROOF REMOVED FOR BETTER VIEW



Fire Protection Plans:
 FP1 Pump House Floor, Details, Specifications & Views
 FP2 Views & Details.
 FP3 Views & Details.

SPRINKLER DESIGN BY:

 Fire Protection Design, Consulting & Training
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SPRINKLER PIPING	
Fire Pump & Details	
PERMIT NO.	
CONTRACT NO.	GCH-11-02
APPROVAL	VT, Dept. L & I
DESIGNER	T.E. Chapin, SET
SCALE	As Shown
DATE	12/23/2002
PLOTTED	FP3 of 3

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