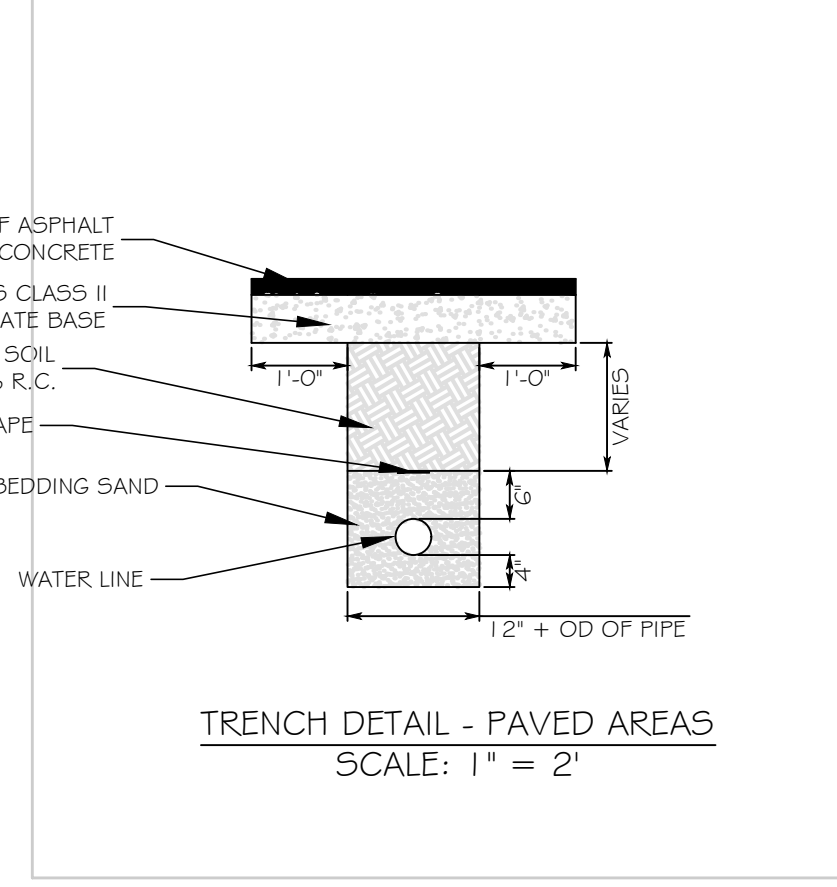
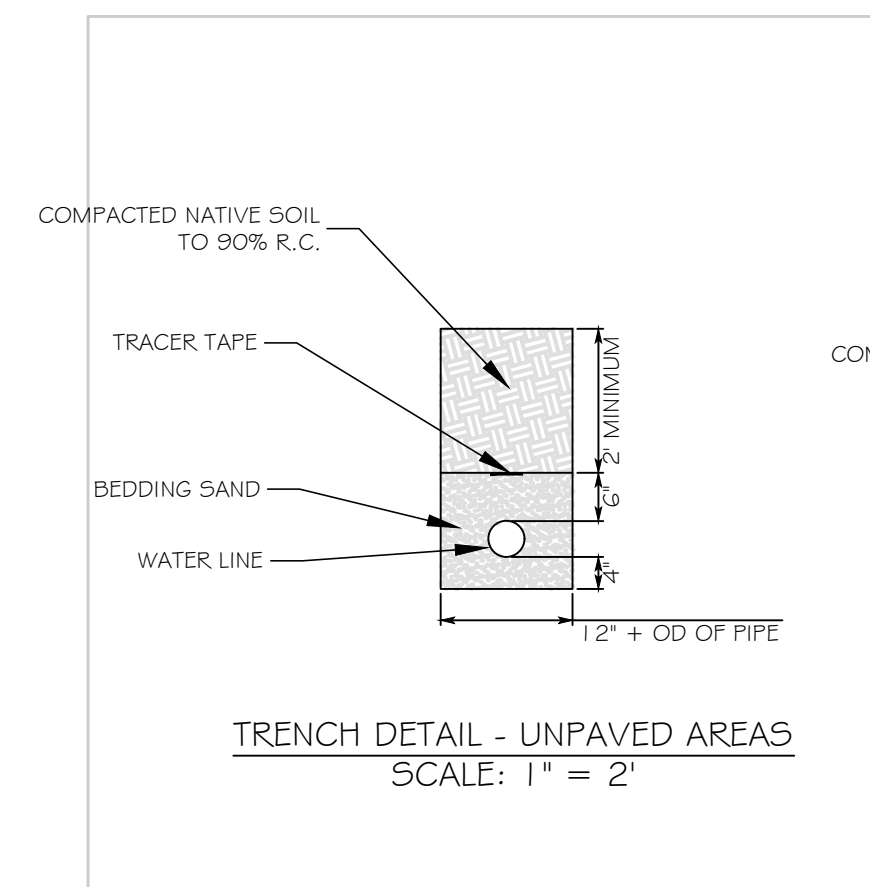
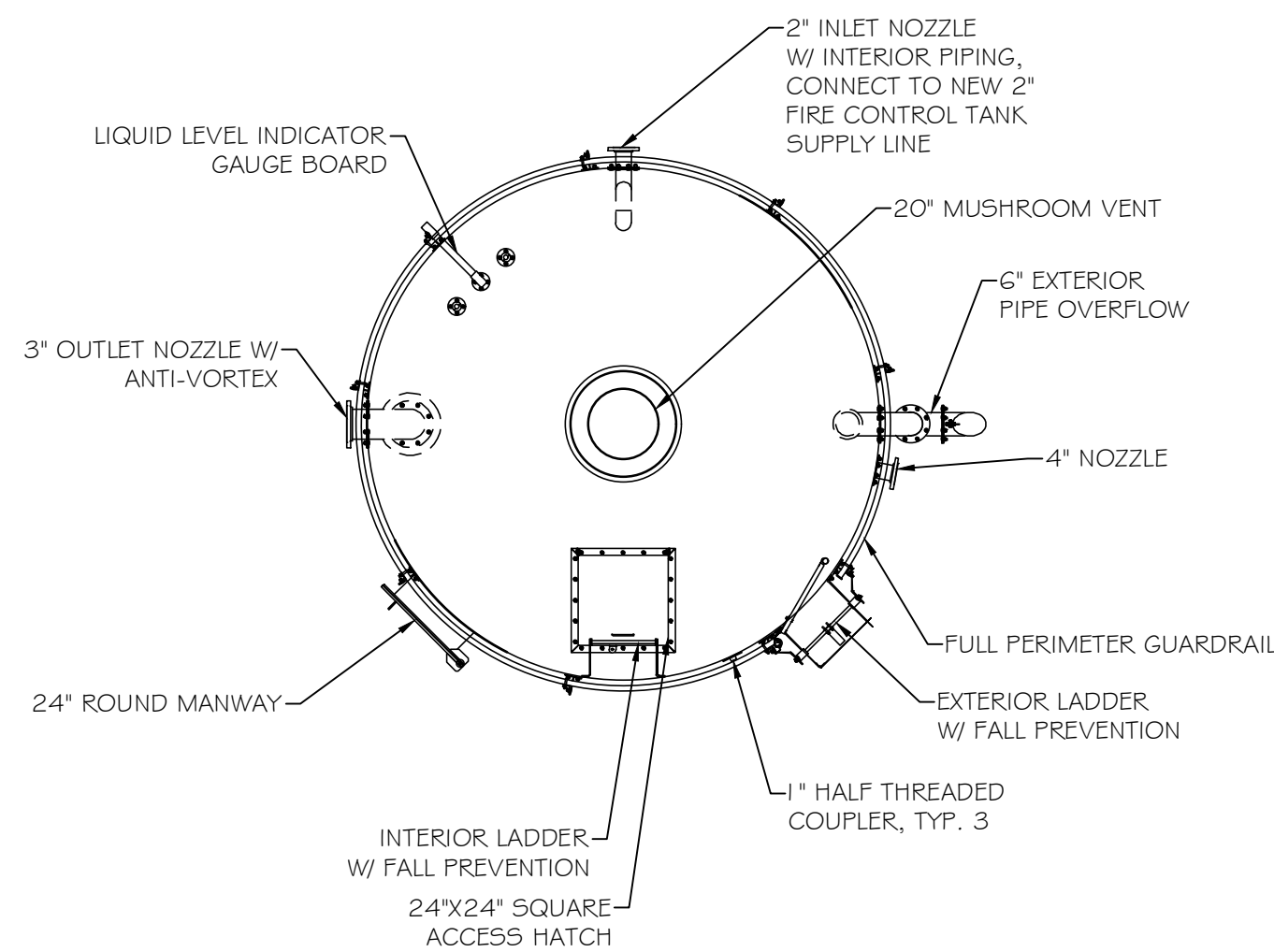




1. CONTRACTOR SHALL CONSTRUCT ONE FIRE CONTROL TANK AT LOCATION SHOWN ON PLANS MINIMUM 6,000 GALLONS OF WATER.
2. TANK MUST MEET ALL NFPA 22 STANDARDS
3. TANK SHALL BE GALVANIZED CORRUGATED STEEL.
4. FIRE CONTROL TANK DETAILS ARE TO SHOW REQUIRED TANK PENETRATIONS AND FEATURES, ACTUAL TANK WILL APPEAR DIFFERENT AND BE GALVANIZED CORRUGATED STEEL.
5. DIMENSIONS AND LOCATIONS OF TANK FEATURES SHALL BE DETERMINED BY MANUFACTURER/SUPPLIER.
6. CONCRETE SLAB AND ANCHORING SHALL BE DETERMINED BY TANK MANUFACTURER/SUPPLIER.
7. CONTRACTOR SHALL PROVIDE STAMPED DRAWINGS/SPECS BY A LICENSED STRUCTURAL/CIVIL ENGINEER IN THE STATE OF CALIFORNIA FOR THE TANK, FOUNDATION, AND ANCHORING.
8. PROVIDE 2" GATE VALVE FOR FIRE CONTROL TANK SUPPLY LINE
9. PROVIDE SIGN ABOVE FIRE CONNECTION THAT STATES "FIRE DEPARTMENT USE ONLY"
10. THE WATER SUPPLY FROM THE WELL SHALL FILL TANKS TO MINIMUM REQUIRED FIRE PROTECTION VOLUME WITHIN 8 HOURS
11. FIRE CONTROL TANK SHALL BE 250 GALLONS OF WATER FROM 250 GALLON WATER TANK WITH FIRE CONNECTION ON FIRE CONTROL TANKS.
12. FOR BIDDING PURPOSES, THE CONTRACTOR MAY ASSUME THE FIRE CONTROL TANK FOUNDATIONS WILL CONSIST OF A 10" DEEP CONCRETE SLAB WITH 2" WIDE FOOTING AROUND THE SLAB THAT IS 2' IN DEPTH. ADDITIONALLY, REBAR SHALL BE #4 @ 12" O.C. E.W. IF FOUNDATION IS LARGER THAN THESE DIMENSIONS, ADDITIONAL TIME AND MATERIALS SHALL BE PAID OUT OF CONTINGENCY AS AN UNFORESEEN CIRCUMSTANCE. TANK MANUFACTURER/ENGINEER SHALL PROVIDE ACTUAL FOUNDATION DETAILS.

FIRE CONTROL TANK - PLAN VIEW
SCALE: NTS

STATE OF CALIFORNIA – NATURAL RESOURCES AGENCY

Gavin Newsom, Governor



DEPARTMENT OF FORESTRY AND FIRE PROTECTION
Office of the State Fire Marshal
 P.O. Box 94240 SACRAMENTO, CA 95824-2400 (916) 558-2903
 Website: www.cdfm.fire.ca.gov



LOCAL FIRE AUTHORITY – ACCESS APPROVAL

Agency & Project Name: Merced River Fish Hatchery - New Manufactured Home

Address: 4998 Robinson Road, Snelling, CA 95369

GovMots Control Number: 23-N-0747-C-RJ

Pursuant to CCR Title 19 §3.00 and §3.05, the California State Fire Marshal is requesting certification from the local fire authority that the above sections are met to their satisfaction.

This form shall be scanned to the accompanying fire access plan reflecting all items under consideration, and wet signed by the local fire authority. Please complete all applicable items based on scope. California State Fire Marshal project approval may be delayed until this form is completed and returned. If you have any questions, please contact the California State Fire Marshal Plan Review Section at (916) 568-2993.

Approved	Yes	No
Fire Department Access	x	
Fire Department Connection	x	
Fire Hydrant		
Fire Alarm Annunciator		
Fire Alarm Control Panel		
Knox Box		
Emergency Responder Radio Coverage	x	
Medical Emergency Service Elevator		
Fire Service Access Elevator		
Bi-Directional Amplification (BDA) Systems		

Local Fire Authority: Merced County Fire Station 65

Address: 15974 CA-99

City/State/ZIP: Snelling, CA 95369

Approval issued by: John Slatte

Rank/Title: Battalion Chief

Phone Number: (916) 761-1976

Signature: 

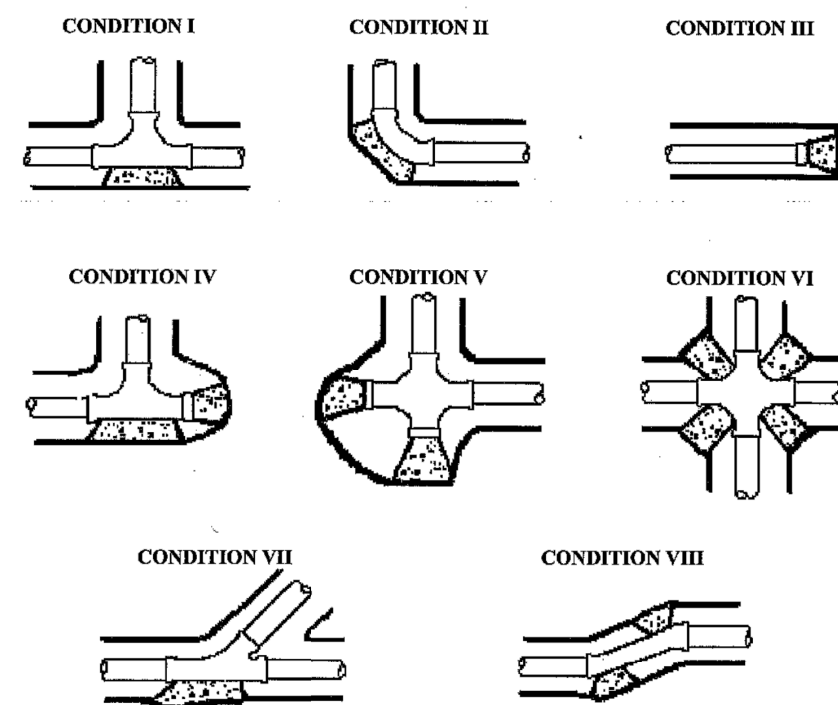
Date: 4/3/2023

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"The Department of Forestry and Fire Protection serves and safeguards the people and protects the property and resources of California."

Office of the State Fire Marshal
NOTES FOR THRUST BLOCK RESTRAINTS

PLACE THE FOLLOWING NOTES, VERBATIM, ON THE PLAN:



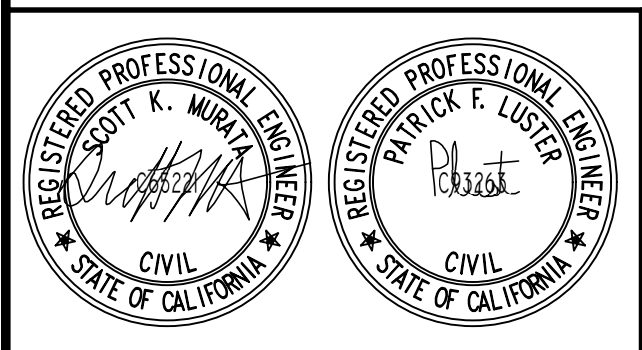
THRUST BLOCK BEARING AREA IN SQUARE FEET								
Pipe Size	CONDITION							
	I	II	III	IV	V	VI	VII	VIII
<6"	2.0	2.9	2.0	2@2.0	2@ 2.0	4@ 1.6	2.0	2@ 1.6
6"	4.3	4.0	4.3	2@ 4.3	2@ 4.3	4@ 3.3	4.3	2@ 3.3
8"	7.4	10.6	7.4	2@ 7.4	2@ 7.4	4@ 5.7	7.4	2@ 5.7
10"	12.1	17.1	12.1	2@ 12.1	2@ 12.1	4@ 9.3	12.1	2@ 9.3
12"	17.2	24.1	17.2	2@ 17.2	2@ 17.2	4@ 13.2	17.2	2@ 13.2

NOTES

1. Thrust block areas based on 225 PSI and 2, 000 PSF soil pressure with 2 ½ feet of cover minimum.
2. Thrust block bearing faces shall be placed against undisturbed soil, approved compacted backfill, or Class 100-E-10 slurry.
3. Thrust blocks shall be Class 560-C-3250 concrete, unless specified otherwise.
4. To facilitate future removal of thrust blocks and line extension use cardboard separators between blocks, if needed.
5. After installation, rods, nuts, bolts, washers, clamps, and other restraining devices shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion-retarding material.

Office of the State Fire Marshal
NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS & SPRINKLERS
PLACE THE FOLLOWING NOTES, VERBATIM, ON THE PLAN:

1. Prior to installation, all plans and specifications shall be approved by the Office of the State Fire Marshal.
2. Installations are required: 1) prior to pouring thrust blocks, 2) for hydrostatic testing, and 3) for final. Schedule all inspections 72 hours in advance. Call the local Deputy State Fire Marshal for inspection scheduling.
3. Installation, inspection, and testing shall conform to the NFPA 13, NFPA 24 with California Amendments.
4. All fire hydrants shall be of an approved type with a minimum pressure of 2 1/2" and 4" outlets. The 4" outlets shall face the fire department access road. All outlets shall be provided with National Standard Threads (NST).
5. Fire hydrant supply piping shall be a minimum of 6" in diameter. The minimum operating nut shall be 18" above grade and the hydrant flange shall be a minimum of 27" above grade.
6. Fire hydrants shall be a minimum of 40 feet from all structures. A keyed gate valve shall be provided for each hydrant in an accessible location within 20 feet of hydrants. Valves shall not be located in parking stalls.
7. All pipe shall be approved for use in fire service systems, complying with NFPA 24.
8. All buried fittings shall be of an approved type with joints and pressure class ratings compatible with the pipe used.
9. All ferrous pipe and fittings shall be protected with a loose 8-mil polyethylene tube. The ends of the tube and any splices made for "T"s or other piping connections shall be sealed with "2" tape, approved for underground use. All bolted joints shall be cleaned and thoroughly coated with asphalt or other corrosion retarding material. After assembly and prior to concrete installation, all joints shall be inspected.
10. Backfill shall consist of clean fill sand or pea gravel to a minimum of 6" below and to a minimum of 12" above the pipe (total 18") and shall contain NO ashes, cinders, refuse, organic matter or corrosive materials.
11. All bolts used for underground connections shall be approved materials and tightness of bolted joints shall be verified by bolt torque or by the method described in the listing information or the manufacturer's installation instructions.
12. A minimum of 30" of cover, from finish grade to the top of the pipe, shall be provided. When surface loads are expected, a minimum of 36" cover shall be provided.
13. In thrust blocks, or other approved method of thrust restraint, shall be provided wherever pipe changes direction. (All tees, plugs, corner bends, reducers, valves, and hydrant branches shall be restrained against movement in accordance with NFPA 24).
14. The trench shall be excavated for thrust blocks and inspected *prior* to pour. All corrosion protection shall be in place. Thrust blocks shall be placed between undisturbed earth and the fitting to be restrained. Thrust block shall be capable of resisting the calculated thrust forces. Thrust blocks shall be placed so that the joints are accessible for repair.
15. A hydrostatic test (200 psi for two hours or 50 psi over maximum static pressure, whichever is greater) shall be witnessed by a Deputy State Fire Marshal. The trench shall be back-filled between the joints to prevent movement of the pipe.
16. All thrust blocks shall be thoroughly flushed before connection is made to overhead piping. Flow shall be through a minimum of a 4" hose or pipe unless otherwise approved by the Deputy State Fire Marshal. A Deputy State Fire Marshal shall witness the flush.
17. Private hydrants, sprinkler control valves, detector check assemblies, post indicating valves and fire department connections shall be painted OSHA red.
18. All control valves shall be locked in the open position. Valves shall be monitored in accordance with CBC/CFC and NFPA with California Amendments.
19. Hydrants shall be protected from mechanical damage. The means of protection shall not interfere with connection to or operation of hydrants.
20. Subject to additional requirements not reflected in this list, per NFPA 13, CBC, CFC, and NFPA 24 with California Amendments.



02/04/26

REVISIONS:

NO	DATE	APPROVED BY	DESCRIPTION/SHEET NUMBERS

STATE OF CALIFORNIA
THE NATURAL RESOURCES AGENCY
**California Department of
Fish and Wildlife**
FACILITIES ENGINEERING

MERCED RIVER HATCHERY
MERCED COUNTY
CENTRAL REGION

P2699003

C26-03

SHEET 2 OF 2

DRAWING NUMBER:

H16-2025-001