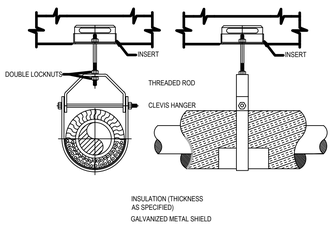
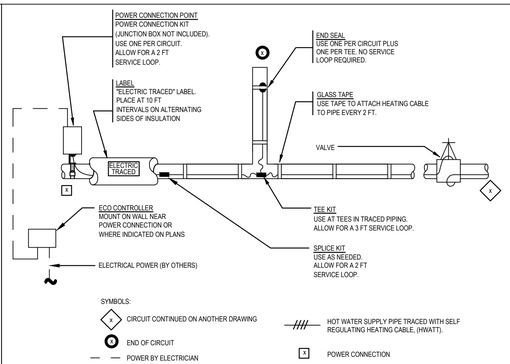


WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
1/8" TO 3"	6"	18
4" TO 6"	9"	16
8" & LARGER	12"	16

WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
1/8" TO 3"	12"	18
4"	15"	16
5"	18"	16
6"	21"	16
8" & LARGER	24"	14

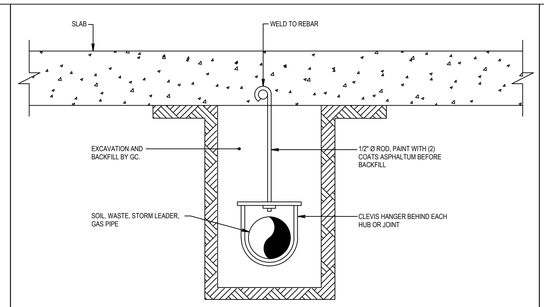
TYPICAL PIPE INSULATION DETAIL

NOT TO SCALE



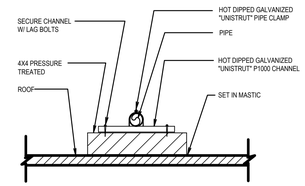
ELECTRIC TEMPERATURE MAINTENANCE TRACE SYSTEM

NOT TO SCALE



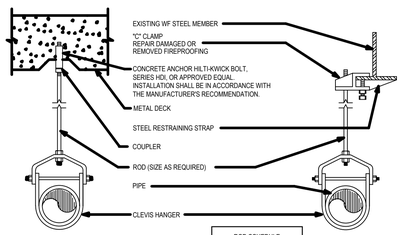
TYPICAL UNDERGROUND PIPE SUPPORT

NOT TO SCALE



PIPE SUPPORT ON ROOF DETAIL

NOT TO SCALE



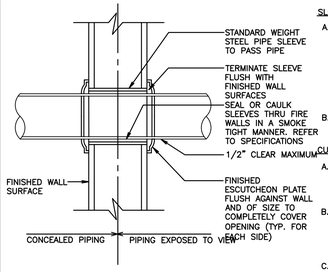
NOTES:

1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"
2. ANY DAMAGED OR MISSING FIREPROOFING TO BE REPAIRED/REPLACED.
2. HANGER, ROD, SLEEVE, & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.

ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2" TO 4"	3/8"
5" TO 8"	1/2"
10" TO 12"	5/8"

TYPICAL HANGER DETAILS

NOT TO SCALE



SLEEVES AND ESCUTCHEONS

A. SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.

B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

CUTTING OF HOLES

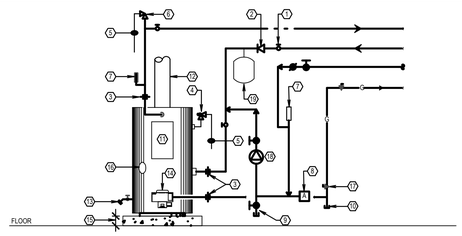
A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.

B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH.

C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.

TYPICAL DETAIL OF PIPE INSTALLATION THRU RATED WALL

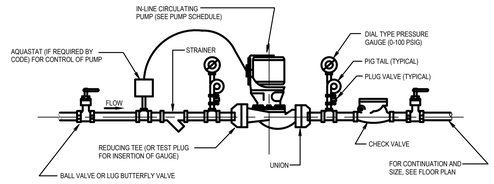
NOT TO SCALE



1. GATE VALVE
2. CHECK VALVE
3. UNION
4. TEMPERATURE & PRESSURE RELIEF VALVE
5. BLOW-OFF SPILL TO SAFE WASTE
6. AIR VENT
7. THERMOMETER
8. AQUASTAT
9. HOSE END DRAIN VALVE
10. DRIP LEG
11. CONTROL COMPARTMENT
12. EXHAUST FLUE
13. TANK DRAIN
14. GAS BURNER
15. 4" HIGH CONCRETE HOUSE KEEPING PAD
16. TANK INSPECTION OPENING
17. GAS PLUG VALVE
18. CIRCULATOR W/ AQUASTAT CONTROL
19. AMTROL 'THERM-X-TROL' EXPANSION TANK-ST-12

GAS FIRED DOMESTIC WATER HEATER

NOT TO SCALE

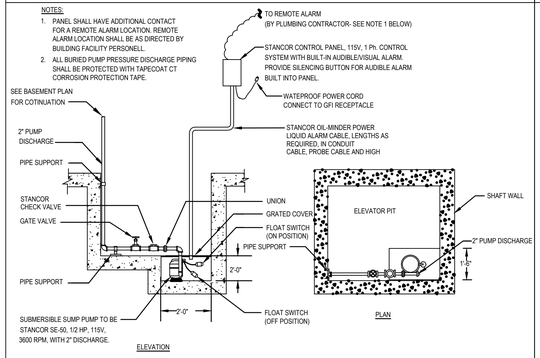


IN-LINE CIRCULATING PUMP DETAIL

NOT TO SCALE

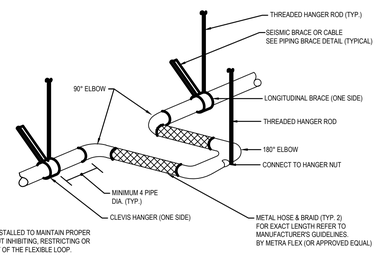
NOTES:

1. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. REMOTE ALARM LOCATION SHALL BE AS DIRECTED BY BUILDING FACILITY PERSONELL.
2. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.



ELEVATOR SUMP PUMP DETAIL

NOT TO SCALE

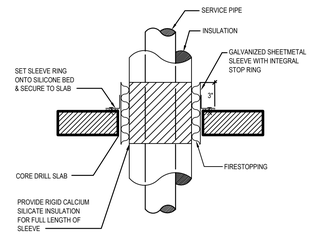


NOTES :

1. INSULATION SHALL BE INSTALLED TO MAINTAIN PROPER VAPOR BARRIER WITHOUT INHIBITING, RESTRICTING OR PREVENTING MOVEMENT OF THE FLEXIBLE LOOP.
2. SEISMIC BRACING SHALL NOT PASS THROUGH BUILDING SEISMIC AND/OR EXPANSIN AND CONTRACTION JOINTS. SEISMIC BRACING SHALL NOT CONNECT OR TIE TOGETHER DIFFERENT SIDES OR PARTS OF THE BUILDING STRUCTURE.

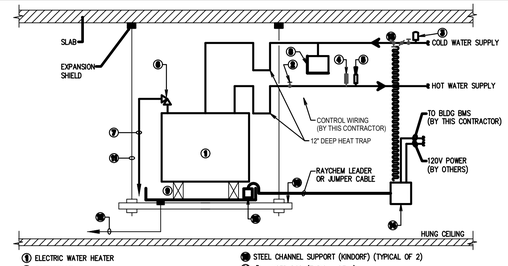
PIPING FLEXIBLE LOOP WITH HANGER SUPPORT AND SEISMIC BRACING DETAIL

NOT TO SCALE



INSULATED PIPE PENETRATION THROUGH FLOOR DETAIL

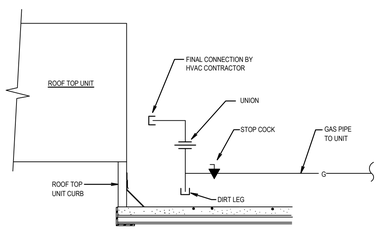
NOT TO SCALE



1. ELECTRIC WATER HEATER
2. GATE VALVE
3. VACUUM RELIEF VALVE WATTS # N36
4. THERMOMETER
5. AUTOMATIC AIR RELEASE VALVE WATTS # VF-#"
6. COMBINATION TEMPERATURE & PRESSURE RELIEF VALVE
7. BLOW-OFF PIPE EXTENDED TO SPILL OVER SAFE WASTE
8. AMTROL THERM-X-TROL EXPANSION TANK
9. BLOCKING
10. STEEL CHANNEL SUPPORT (KINDORF) (TYPICAL OF 2)
11. #" HANGER ROD (TYPICAL OF 4)
12. RUN DRAIN PAN DRAIN LINE TO SAFE WASTE
13. ELECTRIC 2-WAY SOLENOID VALVE TO BE NORMALLY CLOSE. ALCON MODEL #ACD, 24V.
14. LEAK DETECTION SYSTEM: ALL CONTROL WIRING BY PLUMBING CONTRACTOR'S ELECTRICIAN, PROVIDE CONNECTION TO BUILDINGS BMS PANEL. PROVIDE WIRE & CONDUIT AS REQUIRED. RAYCHEM "TRACETEK" LEAK DETECTION SYSTEM, MODEL #TTC-ENC-1 CONTROL PANEL
15. TRACETEK WATER SENSING PROBE IN PAN, MODEL #TT-PROBE AC.

SCHEMATIC PIPING DETAIL FOR ELECTRIC WATER HEATER (W/DETECTION)

NOT TO SCALE



TYPICAL GAS CONNECTION TO ROOFTOP EQUIPMENT

NOT TO SCALE

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022
	ISSUED FOR BID	08/30/2022

DRAWN BY :	M.ESPINAL
CHECKED BY :	J.CLARK
APPROVED BY :	J.MIZRAHI
DATE :	04/16/21
SCALE :	NOT TO SCALE

DRAWING TITLE :

PLUMBING DETAILS

DWG NUMBER :

P-501