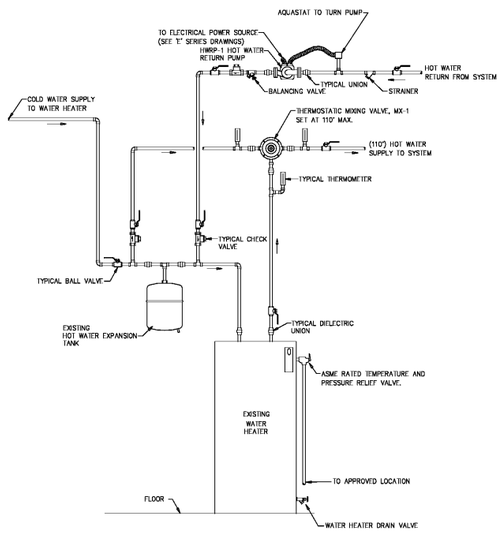
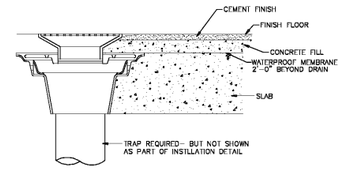
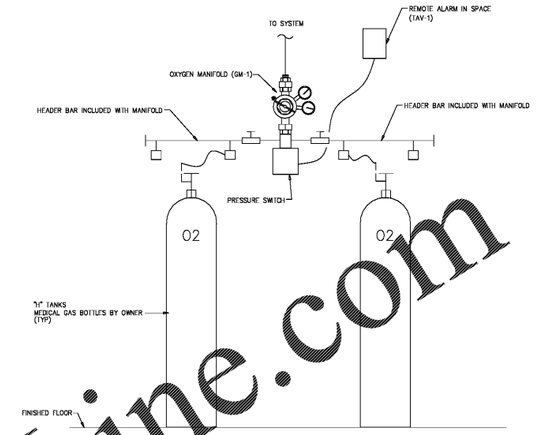


WATER HEATER PIPING DETAIL
NOT TO SCALE



FLOOR DRAIN DETAIL
NOT TO SCALE



OXYGEN SYSTEM PIPING DETAIL
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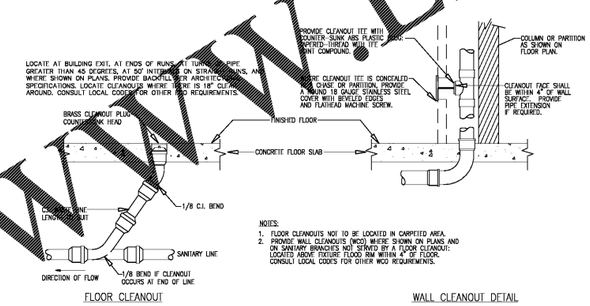
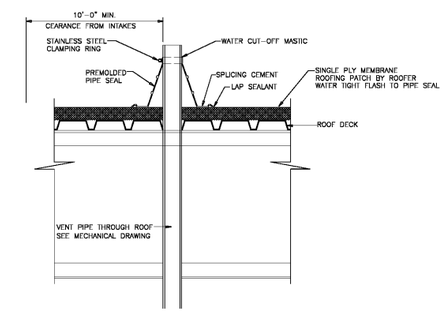
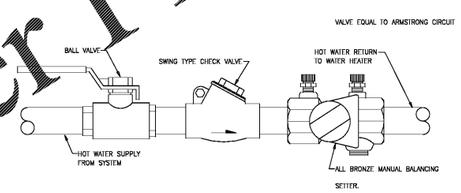


NOTES:
1. FLOOR CLEANOUTS NOT TO BE LOCATED IN CARPETED AREA.
2. PROVIDE WALL CLEANOUTS (WCO) WHERE SHOWN ON PLANS AND ON SANITARY BRANCHES NOT SERVED BY A FLOOR CLEANOUT. LOCATED ABOVE FIXTURE FLOOD RIM WITHIN 4" OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

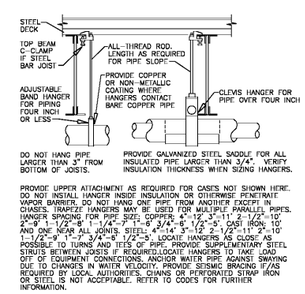
SANITARY CLEANOUT DETAILS
NOT TO SCALE



VENT PIPE THRU ROOF DETAIL
NOT TO SCALE

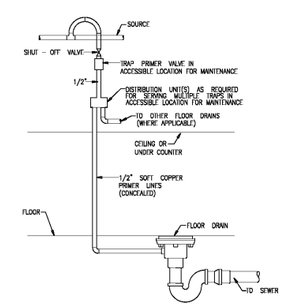


HOT WATER RETURN BALANCING STATION
NOT TO SCALE



PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"-12' 3"-11' 2-1/2"-10' 2"-9' 1-1/2"-8' 1"-1/4"-7' 1"-6' 3/4"-5' 1/2"-5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"-14' 3"-12' 2-1/2"-11' 2"-10' 1-1/2"-9' 1"-7' 3/4"-6' 1/2"-5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEE'S OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

PIPE SUPPORT DETAILS
NOT TO SCALE



TRAP PRIMER DETAIL
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PLUMBING DETAILS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022419 BRIAN J. PENN
09/28/2020

NO.	DESCRIPTION	DATE	BY
1	PLAN REVIEW SET	09/28/2020	

PROJECT DATE: 09/28/2020
PROJECT NUMBER: 19-0111.01.01.FM
SHEET: PLUMBING DETAILS
P5.0

DESIGNED BY: RDP
DRAWN BY: MARP

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