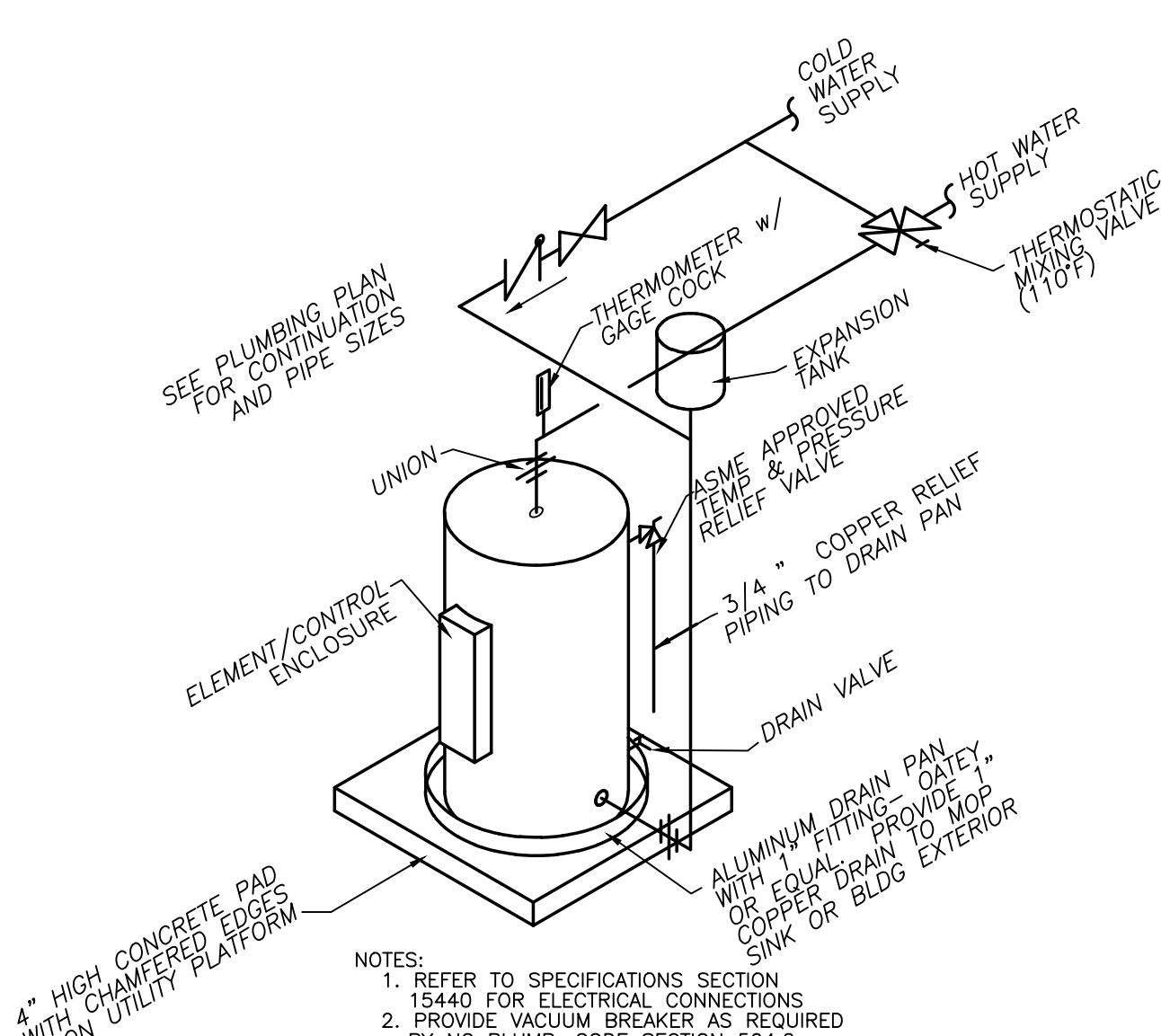
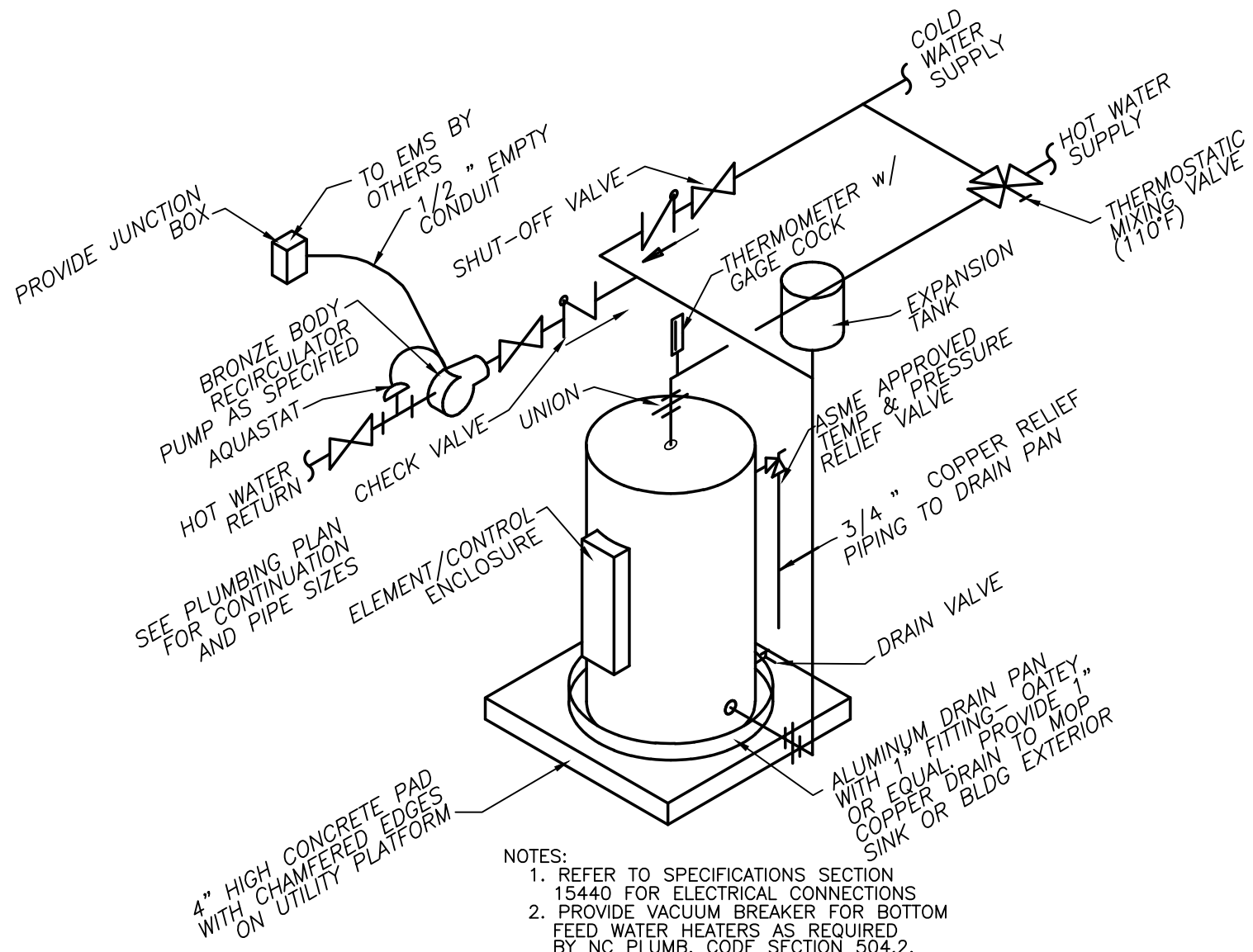


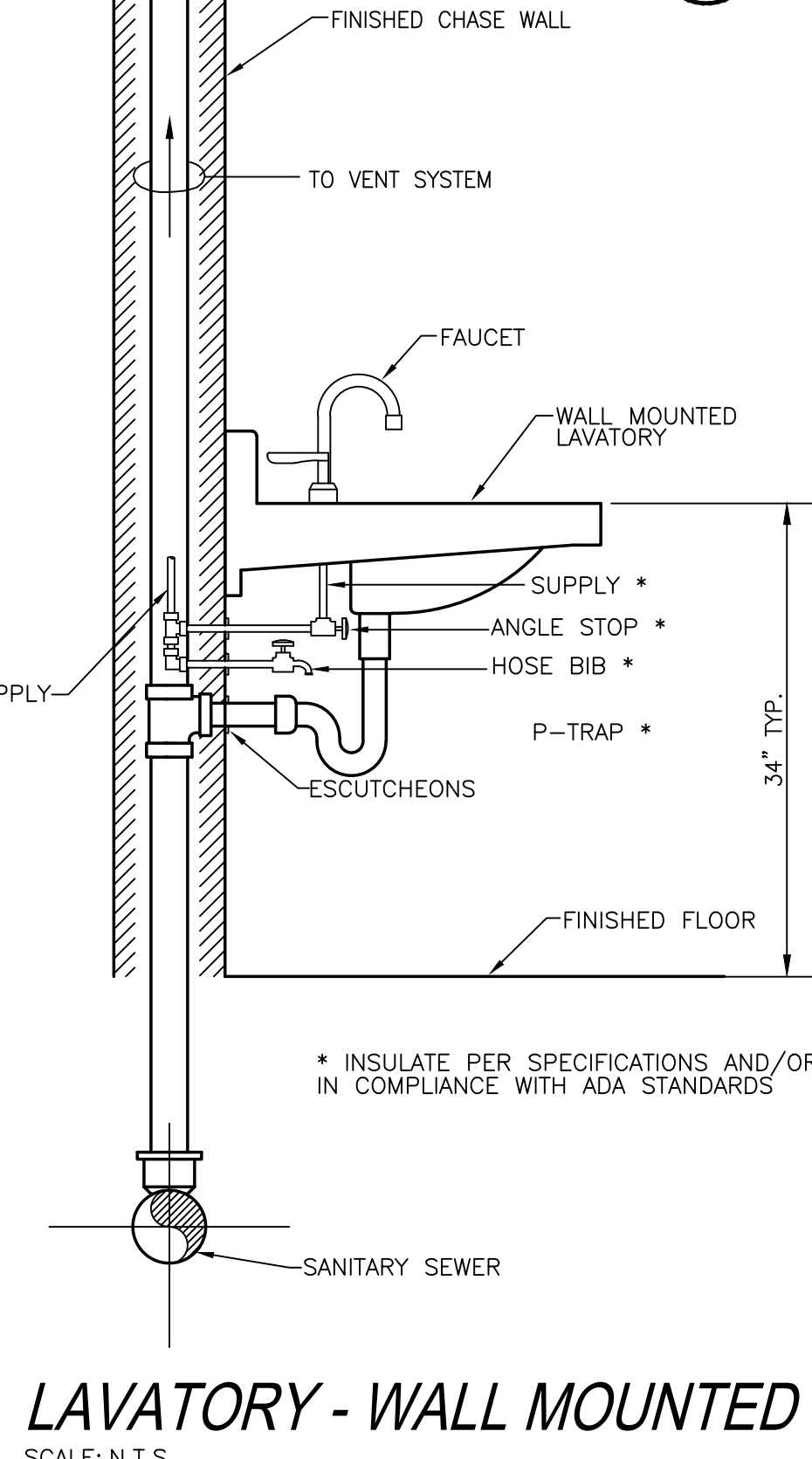
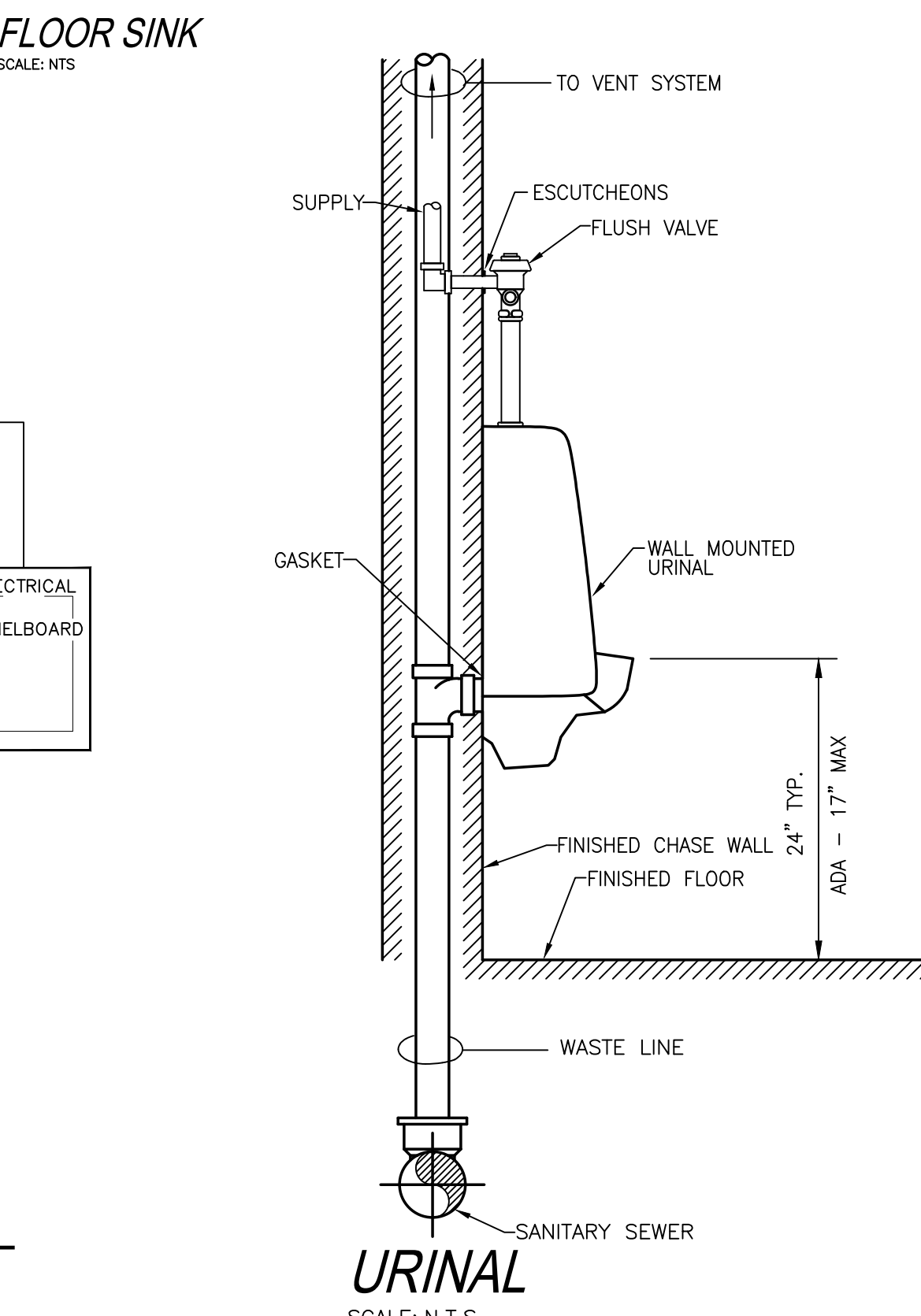
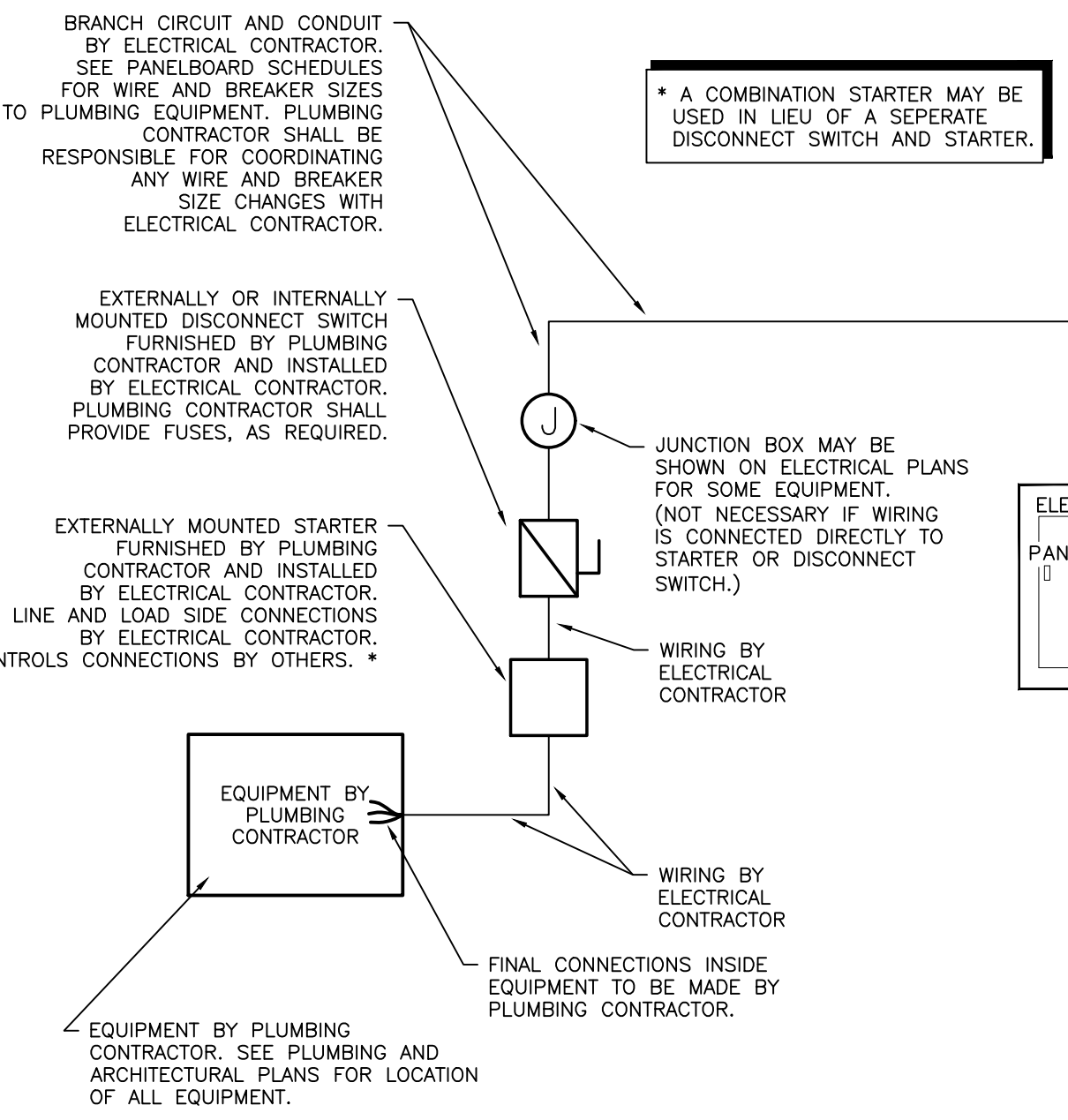
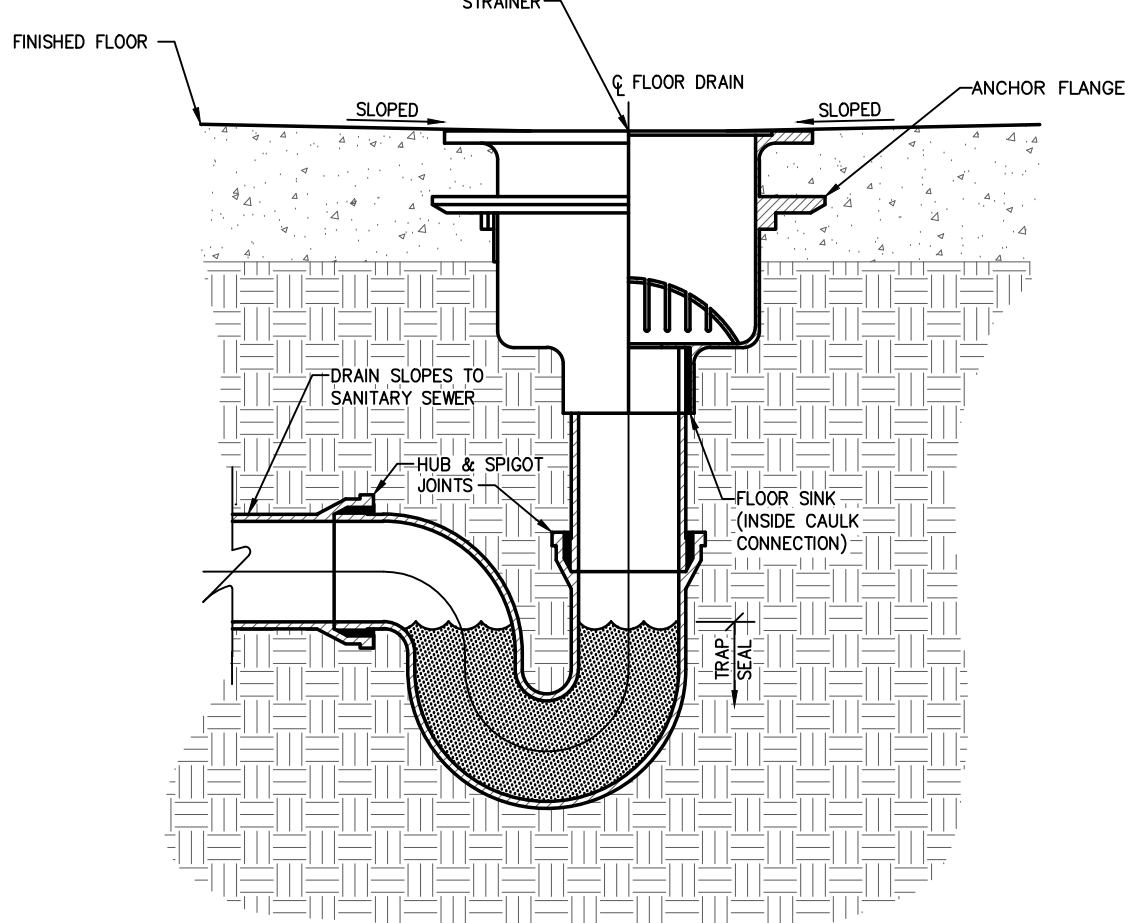
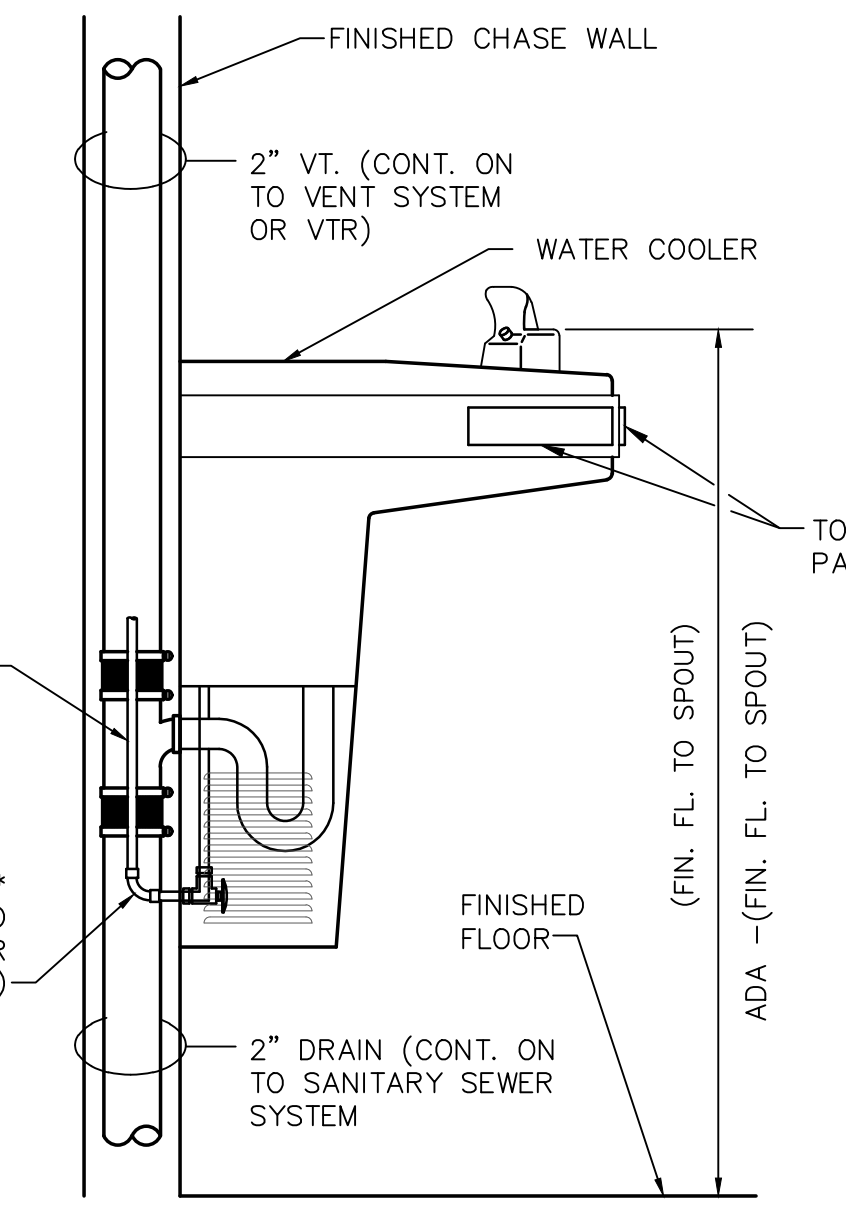
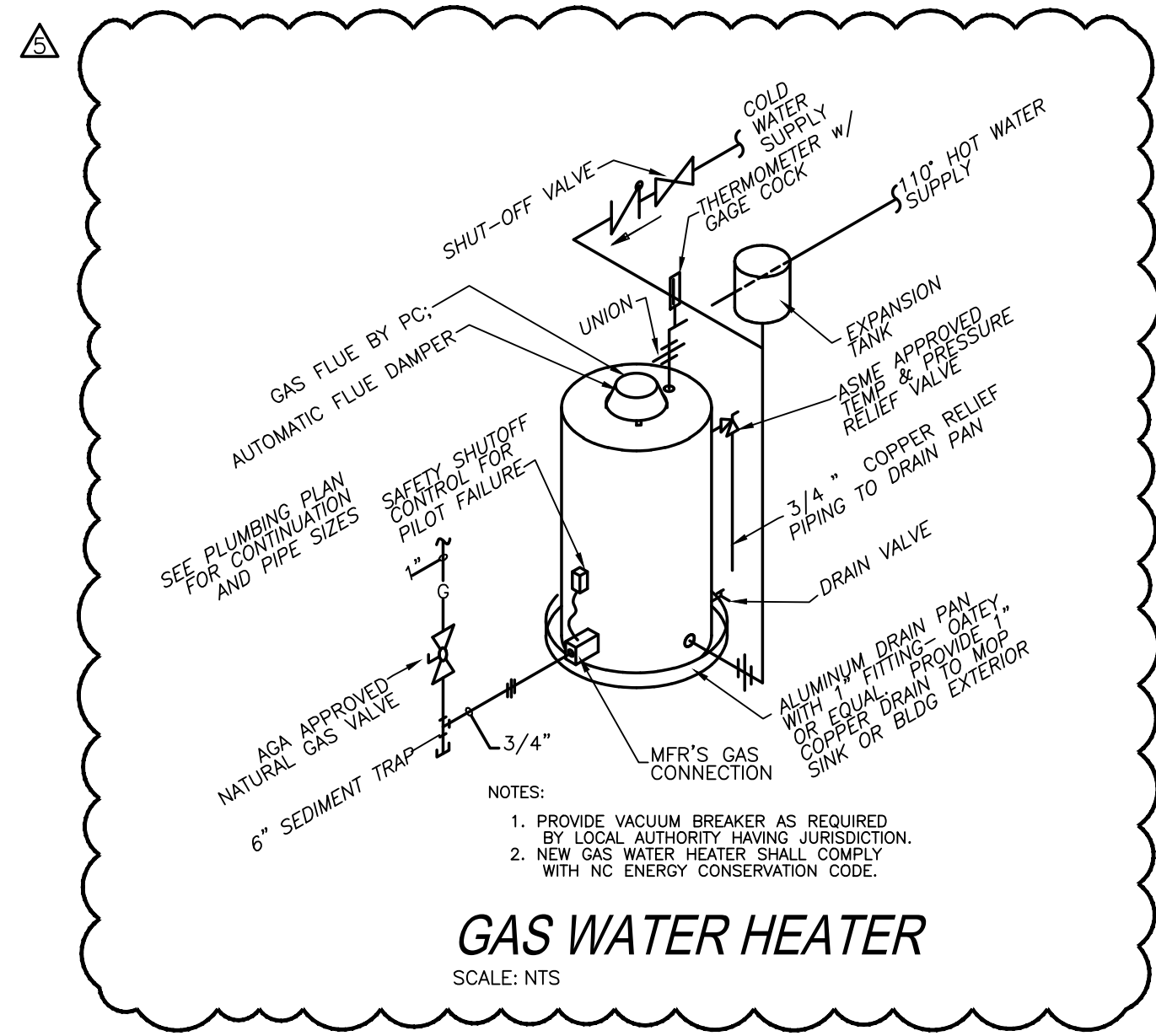
PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).
5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10"-0" MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
8. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADESS AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2, CSA CAN/CSA-B182.4
12. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.
13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.
16. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
17. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
18. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.
19. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
20. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.



ELECTRIC WATER HEATER-RECIRCULATING TYPE
SCALE: NTS

ELECTRIC WATER HEATER
SCALE: NTS



PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC	WATER CLOSET - KOHLER "VEIL" ONE-PIECE WALL-HUNG FLUSH VALVE WC K-6299	WHITE			2"	4"	YES
	SEAT - KOHLER K-4008 ELONGATED QUIET-CLOSE TOILET SEAT	WHITE					YES
	FLUSH VALVE - ZURN TOUCHLESS FLUSHMETER WITH MANUAL OVERRIDE ZER6000AV-TM-WS1-DF OR EQUAL	CHROME	1"				
UR	URINAL - WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K-4989-T-0	WHITE			1-1/2"	2"	YES
	FLUSH VALVE - ZURN TOUCHLESS SENSOR VALVE Z8003AV-WS1 OR EQUAL	CHROME	3/4"				YES
LAV	LAVATORY - KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELED CAST IRON (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"	2"	3"	
SH	SHOWER-ADA COMPLIANT WHITE ACRYLIC SHOWER INSERT WITH INTEGRAL STAINLESS STEEL GRAB BAR AND WITH STAINLESS STEEL, WOOD GRAIN/PHENOLIC FOLDING SEAT, HAND SHOWER-SYMONS 96-500-B30-L-V PRESSURE BALANCING WITH ADJUSTABLE AND STATIONARY SHOWER HEAD (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	BY ARCH.			2"	2"	YES
MB	MOP SINK - MOEN 8414 SINGLE HANDLE FAUCET FAUCET - MOEN MOP SINK FAUCET M# B0108041 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"		3"	
EWC	ELECTRIC WATER COOLER IN HIGH LOW CONFIGURATION W/BOTTLE FILLER- ELKAY #JZSL8WSLC-WSR (WITHOUT FILTER) 8 GPH @ 50 ° F INLET WATER AND 90° F ROOM TEMPERATURE. (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	BY ARCH.	3/4"		1-1/2"	2"	YES
FD	FLOOR DRAIN - ZURN M# ZN415B WITH TYPE "B" STRAINER (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	NICK-BRZ				3"	
FS	FLOOR SINK - PVC CONSTRUCTION WITH FULL GRATE ZURN FD2370-PV4-F PROVIDE ALL FLOOR DRAINS WITH AUTOMATIC TRAP PRIMER	NICK-BRZ				3"	
WCO	WALL-CLEAN-OUT - ZURN M# ZN-1441-BP (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	BRONZE				2"	
CO	CLEAN-OUT IN FLOOR - ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	BRONZE				3"	
LS	LAB SINK AND FAUCET BY GC AS PART OF LAB CASEWORK	CHROME	3/4"				
EEW	EMERGENCY EYE WASH - DRENCH HOSE UNIT, WALL MOUNTED	CHROME	1/2"				
EWS	EMERGENCY EYE WASH/SHOWER COMBO - FLOOR MOUNTED SHOWER/EYE/FACE WASH STATION WITH STAINLESS STEEL ACTIVATION HANDLE AND STAINLESS STEEL BOWL	STAINLESS	1-1/4"			1-1/4"	
HB	HOSE BIB - WOODFORD KEYLESS, NON-FREEZELESS, M # 24-C (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
AFH	WALL HYDRANT - WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS M# B85 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
US	UTILITY SINK - MUSTEE 19F UTALUB SINGLE PIECE MOLDED THERMOPLASTIC UTILITY TUB OR EQUAL FAUCET - ZURN Z-841M1-SH WALL MOUNTED FAUCET WITH RIGID SPOUT AND VACUUM BREAKER WITH 3/4" THREADED OUTLET AND PAIL HOOK		1/2"	1/2"	2"	4"	

*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.

EWB SCHEDULE

TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
EWB 1	OFFICE 839	120	(2) 6000 W	110	41 GAL	A.O. SMITH NO. DEN-120	480V 1F 12.5A	1,2,3,4,5
EWB 2	ROOM 841	40	(2) 4500 W	110	27 GAL	A.O. SMITH NO. DEN-40	480V 1F 9.4A	1,3,4,5
EWB 3	ROOM 5120	50	(2) 4500 W	110	27 GAL	A.O. SMITH NO. DEN-52	480V 1F 9.4A	1,2,3,4,5
EWB 4	ROOM 261	120	(2) 6000 W	110	41 GAL	A.O. SMITH NO. DEN-120	208V 1F 28.8A	1,2,3,4,5
EWB 5	ROOM 261	120	(2) 6000 W	110	41 GAL	A.O. SMITH NO. DEN-120	208V 1F 28.8A	1,2,3,4,5
EWB 6	ROOM BESIDE 147	20	(2) 4500 W	110	27 GAL	A.O. SMITH NO. DEN-20	208V 1F 21.6A	1,2,3,4,5

NOTES:
1) STATE INDUSTRIES, LOCKHART, OR RHEEM/RAUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
2) PROVIDE BRASS BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/2" N.P. 115V, S&G NO. UR-158 OR EQUAL BY TAGS OR DIMENSIONS.
3) PROVIDE EWB WITH NON-SIMULTANEOUS DUAL ELEMENTS SIZES AS SPECIFIED
4) SEE DETAIL FOR ACCESSORIES
5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
CAP = STORAGE CAPACITY (gpl)
ELEMENT = (gpl) WATAGE
TEMP = HW OUTPUT TEMPERATURE (deg F)
RCVY = RECOVERY @ 100 deg F RISE (gph)
POU = POINT OF USE WATER HEATER

GWH SCHEDULE

TAG	LOCATION	CAP	BTUH	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
GWH	LABORATORY 203	100	199,000	140	41 GAL	A.O. SMITH NO. ETH-199	120V 1F 1.5A	1,3,4,5

NOTES:
1) STATE INDUSTRIES, LOCKHART, OR RHEEM/RAUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
2) PROVIDE BRASS BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/2" N.P. 115V, S&G NO. UR-158 OR EQUAL BY TAGS OR DIMENSIONS.
3) PROVIDE GWH WITH FLUE VENT PIPING TO EXTERIOR, COORD. WITH MECH. EQUIP. OR INTAKES
4) SEE DETAIL FOR ACCESSORIES
5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
CAP = STORAGE CAPACITY (gpl)
ELEMENT = (gpl) WATAGE
TEMP = HW OUTPUT TEMPERATURE (deg F)
RCVY = RECOVERY @ 100 deg F RISE (gph)
POU = POINT OF USE WATER HEATER

SCIENCE CLASSROOM FIXTURE CALCULATIONS JUSTIFICATION

OCCUPANCY = EDUCATION

NET AREA FOR OCCUPANT CALC.: CAPACITY OF BUILDING = 180 PEOPLE

MINIMUM PLUMBING FIXTURES FROM TABLE 403.1		TOTAL REQUIRED	TOTAL PROVIDED
MALE	WC LAV 3	WC LAV 3	3
FEMALE	WC LAV 4	WC LAV 3	6
STAFF	WC LAV 1	WC LAV 2	2
DRINKING FOUNTAINS	EWG 2	1 HI-LOW	

DIVISION OF FACILITIES PER SECTION 403.1.1:
MALE: 50%
FEMALE: 50%
180 x .5 = 90 MALE
180 - 90 = 90 FEMALE

GYM ADDITION FIXTURE CALCULATIONS JUSTIFICATION

OCCUPANCY = (A3) ASSEMBLY/EDUCATION (9-12)

NET AREA FOR OCCUPANT CALC.: CAPACITY OF BUILDING = 800 PEOPLE

MINIMUM PLUMBING FIXTURES FROM TABLE 403.1		TOTAL REQUIRED	TOTAL PROVIDED
MALE	WC LAV 2	WC LAV 3	3
FEMALE	WC LAV 2	WC LAV 3	6
STAFF	WC LAV -	WC LAV -	-
DRINKING FOUNTAINS	EWG 2	1 HI-LOW	

DIVISION OF FACILITIES PER SECTION 403.1.1:
MALE: 50%
FEMALE: 50%
800 x .5 = 400 MALE
800 - 400 = 400 FEMALE

EXISTING GYM MEN'S LOCKER ROOM ADDN FIXTURE CALCULATIONS JUSTIFICATION

OCCUPANCY = EDUCATION

NET AREA FOR OCCUPANT CALC.: CAPACITY OF BUILDING = PEOPLE

MINIMUM PLUMBING FIXTURES FROM TABLE 403.1		TOTAL REQUIRED	TOTAL PROVIDED
MALE	WC LAV 3	WC LAV 9	10
FEMALE	WC LAV -	WC LAV -	-
STAFF	WC LAV -	WC LAV -	-
DRINKING FOUNTAINS	EWG 2	1 HI-LOW	

DIVISION OF FACILITIES PER SECTION 403.1.1:
MALE: 50%
FEMALE: 50%
00 x .5 = 00 FEMALE
00 - 0 = 00 MALE

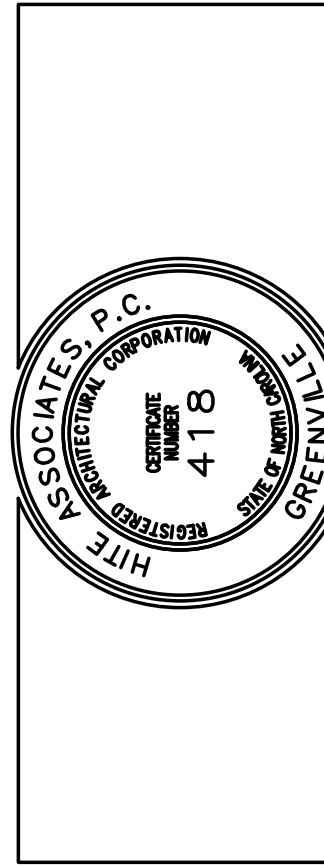
FIXTURE UNIT REQUIREMENTS

POTABLE WATER SUPPLY	67.5 GPM USE 3" SERVICE
WASTE	555 FU USE 8" SERVICE

Revision

Date	Description
11/20/23	ADDRESS # 6
11/27/23	ADDRESS # 4
11/27/23	ADDRESS # 3
11/27/23	ADDRESS # 2
11/27/23	ADDRESS # 1

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2800 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333



New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City NC 28577
Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing no. P 001