

SITE KEY DEMO NOTES:

- 1 APPROX. LOC. OF EXIST. POLE LIGHT TO BE RELOCATED. REMOVE LIGHT AND ASSOCIATED POLE FOR REUSE. DEMOLISH EXISTING POLE BASE. SEE SITE PLAN FOR NEW LOCATION. REWORK EXTERIOR LIT. O.K.T. AS INDICATED.

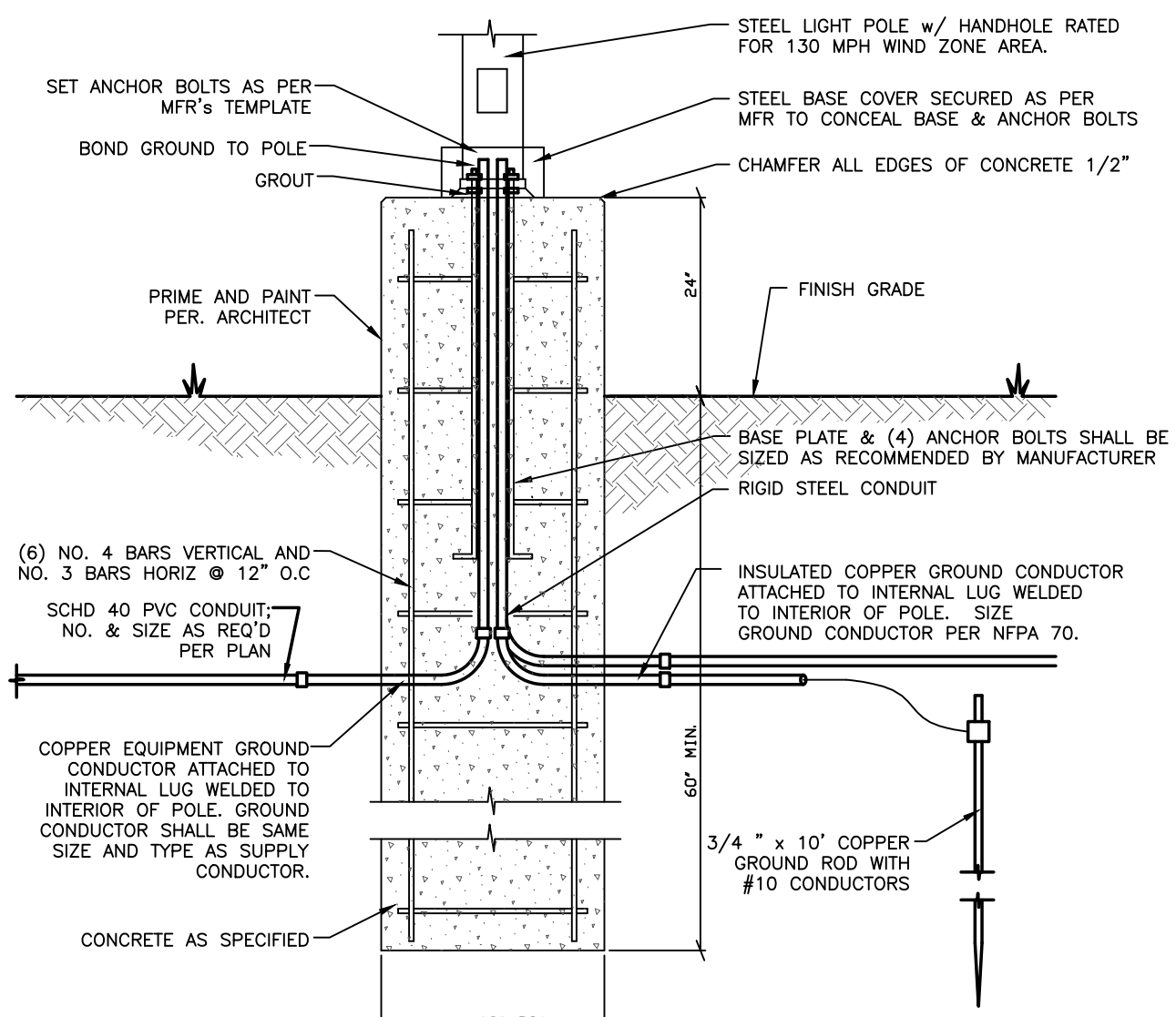
SITE KEY NOTES:

- A PROVIDE AND INSTALL NEW POLE LIGHT IN THIS LOCATION. THE NEW LIGHTS BACK TO EXISTING POLE LIGHT POWER O.K.T. "3LB-21" (SEE PANEL SCHEDULES).
- B LOCATION OF RELOCATED 30' POLE LIGHT. THE IN RELOCATED LIGHTS TO NEW OR LOCAL LIGHTING CIRCUIT AS INDICATED.
- C PROVIDE AND INSTALL A 24" x 24" JUNCTION BOX (QUARTER OR EQUAL) IN THIS APPROXIMATE LOCATION AND AS NEEDED FOR PULING FEEDERS.
- D INSTALL EMPTY 3" CONDUIT WITH PULLSTRING UNDER BUILDING AND ROAD AS INDICATED FOR FUTURE GREENHOUSE POWER. CAP BOTH ENDS OF EMPTY CONDUIT. SEE "NOTES" FOR CIRCUIT BREAKER PROVIDED FOR FUTURE.
- E PROVIDE NEW PUMP CONTROL/ALARM PANEL & COORDINATE LOCATION WITH OWNER AS REQUIRED BY S.C. (E.G. TO PROVIDE POWER).
- F INSTALL 120" UNDER BUILDING AND ROAD AS INDICATED FOR LIFT STATION CONTROL/ALARM PANEL. DISCONNECT SWITCH/MP RECEPT CIRCUIT.

SITE LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.	CATALOG NUMBER
D2	SINGLE HEAD 30' POLE LIGHT	LED	MVOLT	185	-	POLE MOUNTED D-SERIES SIZE 2 SITE LIGHT WITH ARM AND LED HEAD ON 30'-0" ROUND POLE. FIXTURE BY LITHONIA #P2-50K-T2M-MVOLT-RPA (D2A) SELECTED COLOR OR APPROVED EQUAL BY WILLIAMS, PHILIPS, OR HUBBELL

- NOTES: 1) REFERENCE SPECIFICATION SECTION 16000
2) PROVIDE SUBMITTALS FOR PRE-BID APPROVAL AS SPECIFIED IN "INSTRUCTIONS TO BIDDERS", ARTICLE 3.3.2
3) WATTS = INPUT WATTS, B.F. = BALLAST FACTOR
4) ALL INTERIOR LAMPS TO HAVE A COLOR RENDERING TEMPERATURE INDEX OF 3500K TO 4000K
5) CATALOG NUMBERS MAY NOT BE COMPLETE; CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBER



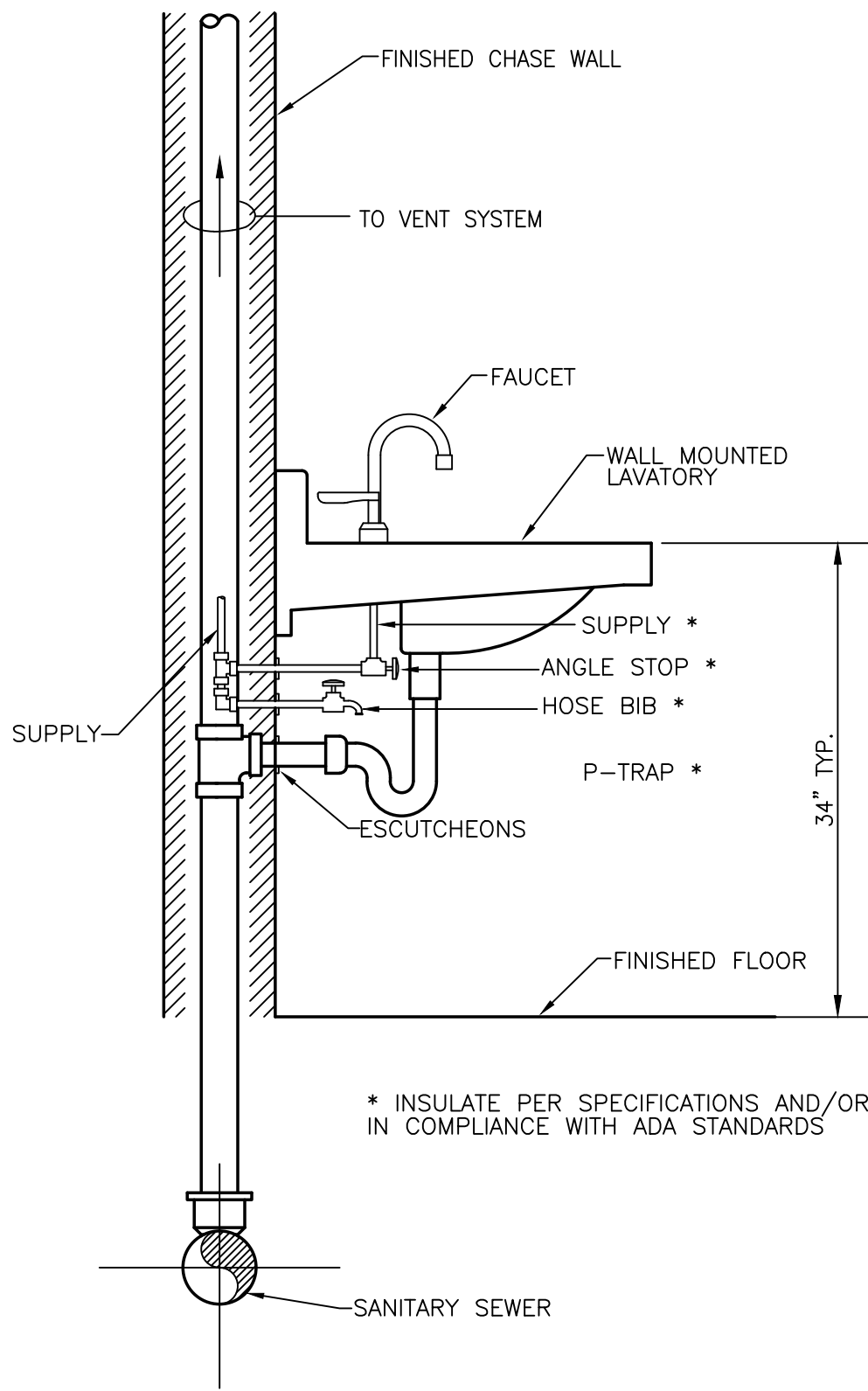
100.2 POLE BASE DTL
SCALE: NONE

CIRCUIT "BRH-1"	
SEGMENT	WIRE & CONDUIT SIZE
A1	2-#12 & 1-#12G IN 1" C
A2	2-#12 & 1-#12G IN 1" C
A3	2-#12 & 1-#12G IN 1" C
A4	2-#12 & 1-#12G IN 1" C
A5	2-#12 & 1-#12G IN 1" C

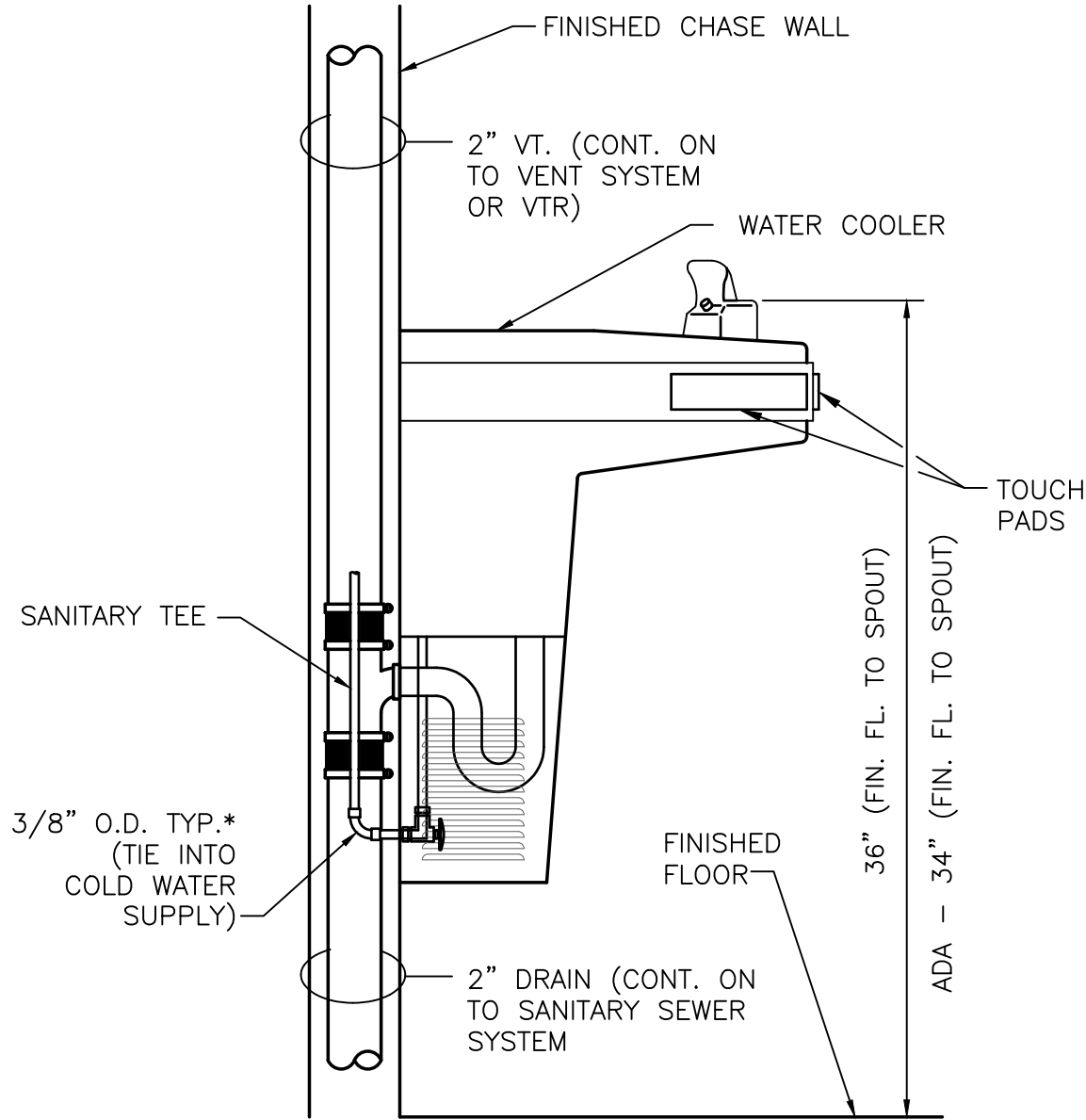
100.1 SITE PLAN
SCALE: 1"=40'

PLUMBING GENERAL NOTES:

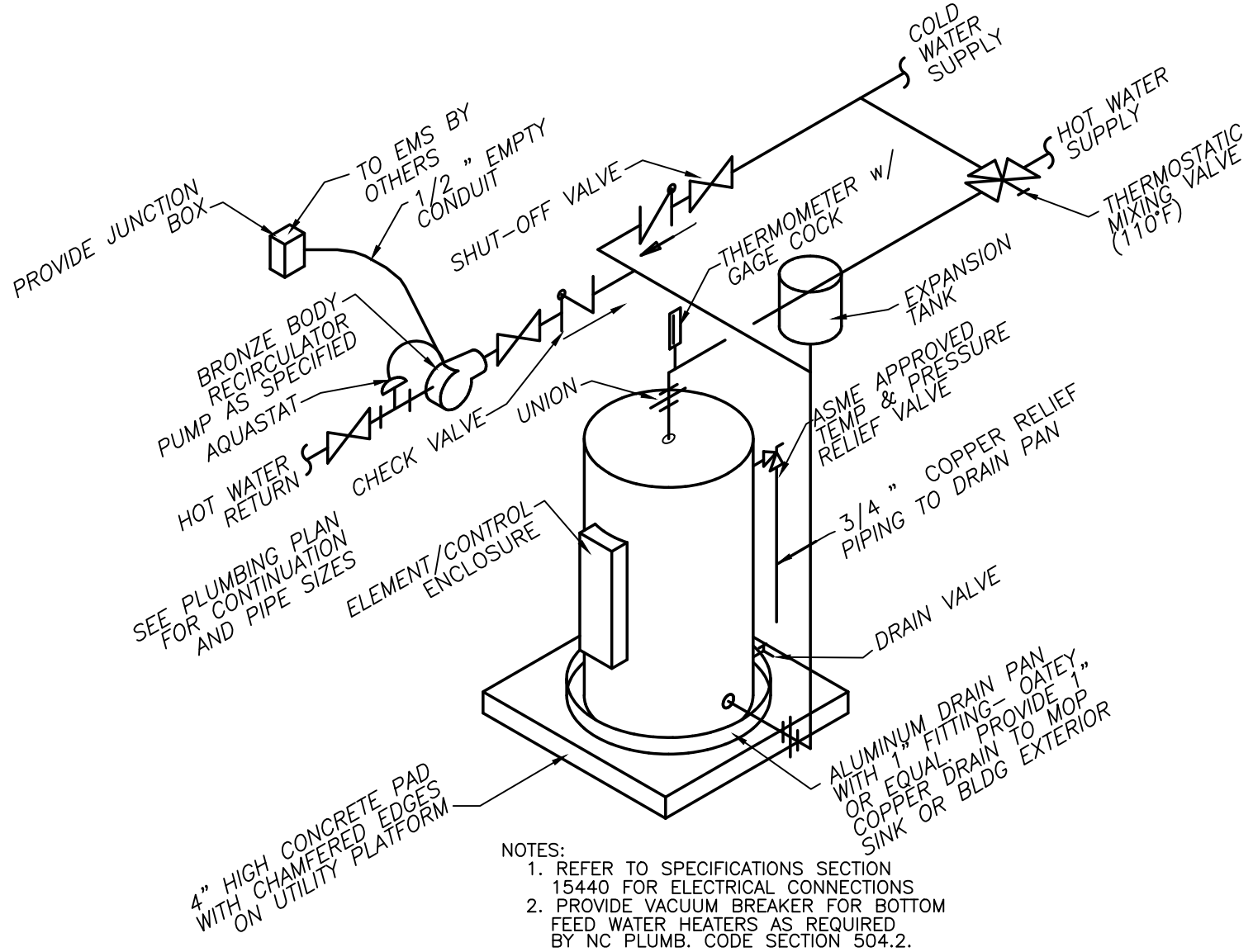
1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3. THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING FIXTURES & EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
4. THE LOCATIONS OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. CALL UTILITY LOCATOR SERVICE 48 HOURS BEFORE EXCAVATION (1-800-632-4949). ALSO CONTACT SCHOOL MAINTENANCE DEPARTMENT AND USE PRIVATE UTILITY LOCATOR SERVICE AS NEEDED TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES.
5. THESE PLANS ARE DIAGRAMMATIC. DO NOT SCALE THESE DRAWINGS. REFER TO LARGEST SCALE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
6. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
7. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
8. HVAC DUCTWORK HAS RIGHT-OF-WAY OVER PLUMBING PIPES; COORDINATE AS REQUIRED. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, ETC., PER NEC ARTICLE 110.
9. ALL SUPPLY, DRAIN, AND VENT PIPING SHALL BE CONCEALED (EXCEPT AT FIXTURES) UNLESS OTHERWISE NOTED. ALL PIPE CONTAINING LIQUIDS INSIDE BUILDING ARE TO BE LOCATED WITHIN THE "INSULATION ENVELOPE".
10. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE, BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
11. ALL DOMESTIC WATER PIPING SHALL BE TYPE K HARD DRAWN COPPER ABOVE GRADE, SOFT ANNEALED TYPE K BELOW WITH NO JOINTS UNDER SLAB. INSULATE HOT AND COLD WATER PIPING AS SPECIFIED. PRESSURE TEST SYSTEM AT 100 PSIG FOR 24 HOURS OR 150 PSIG FOR 4 HOURS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
12. ALL WATER PIPING SHALL BE INSULATED WITH PRE-FORMED FIBERGLASS 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 SADDLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
13. 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.
14. 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.
15. 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
16. VENT LINES SHALL SLOPE UP TO VTR.
17. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.
18. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
19. PROVIDE CHROME-PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, CEILINGS, OR FLOORS.
20. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
21. 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.
22. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES INSTALLED TO MEET LATEST NCSCB AND ADA REQUIREMENTS.
23. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
24. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
25. WATER HEATERS SHALL COMPLY WITH N.C. ENERGY CODE SECTION 504 OF THE NC BUILDING CODE.
26. WATER CLOSETS SHALL BE MOUNTED ON CAST IRON FLANGES.
27. CLEANOUPS & FLOOR DRAIN STRAINERS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR ELEVATION. FLOOR DRAINS SHALL BE INSTALLED TO PROVIDE PROPER DRAINAGE OF SPACE.
28. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBBS, INSTALLED AS SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6.
29. 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 110°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.
30. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUPS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED
31. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.
32. ALL PLUMBING CONSTRUCTION PENETRATING FIRE-RATED SURFACES AND NON-RATED PARTITIONS SHALL BE SEALED PER FIRE STOPPING DETAIL ON SHEET FP-001 OR THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY, VOLUME 2.
33. "PROVIDE" IS DEFINED AS FURNISH AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
34. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL EXTERNAL DISCONNECTS THAT ARE REQUIRED FOR EQUIPMENT PROVIDED UNDER THIS CONTRACT. PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES FOR ALL FUSED DISCONNECT SWITCHES. COORDINATE AND FUSE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISCONNECT SWITCHES AND FUSES. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE SIDE WIRING AND CONDUIT TO EXTERNALLY OR INTERNALLY MOUNTED DISCONNECTS AND SHALL PROVIDE AND INSTALL LOAD SIDE WIRING AND CONDUIT FROM EXTERNALLY MOUNTED DISCONNECT SWITCHES TO PLUMBING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS TO PLUMBING EQUIPMENT. SEE "PLUMBING EQUIPMENT ELECTRICAL CONNECTION DETAIL".
35. PLUMBING CONTRACTOR SHALL PROVIDE MARKING TAPE AND TRACER WIRE FOR ALL NONE METALLIC PIPING BELOW GRADE. TAPE SHALL BE AT LEAST 3" WIDE AND SHALL BE LABELED FOR THE SPECIFIC TYPE PIPE. TAPE SHALL BE 24" BELOW GRADE. TRACER WIRE SHALL BE INSTALLED ON NON-METALLIC SEWER PIPE AND SHALL MEET REQUIREMENTS OF SECTION 306.2.4. TRACER WIRE SHALL BE MINIMUM 14 AWG AND RATED FOR DIRECT BURIAL.
36. DISCONNECT SWITCHES INDICATED TO BE PROVIDED BY PLUMBING CONTRACTOR SHALL BE HEAVY DUTY NEMA-1 FOR INTERIOR APPLICATIONS AND HEAVY DUTY NEMA-3R FOR EXTERIOR INSTALLATIONS. SEE ALSO DIVISION 16 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
37. COMPRESSED AIR PIPING SHALL BE TYPE "K" SEAMLESS HARD DRAWN ANNEALED COPPER OR RIGID ALUMINUM ALLOY. COMPRESSED AIR PIPING SHALL BE PAINTED BLUE IN COLOR AND SHALL HAVE BLUE LABELS WITH WHITE LETTERING AFFIXED THAT READ "COMPRESSED AIR". COMPRESSED AIR PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE CURRENT NC PLUMBING CODE AND MANUFACTURER'S RECOMMENDATIONS.



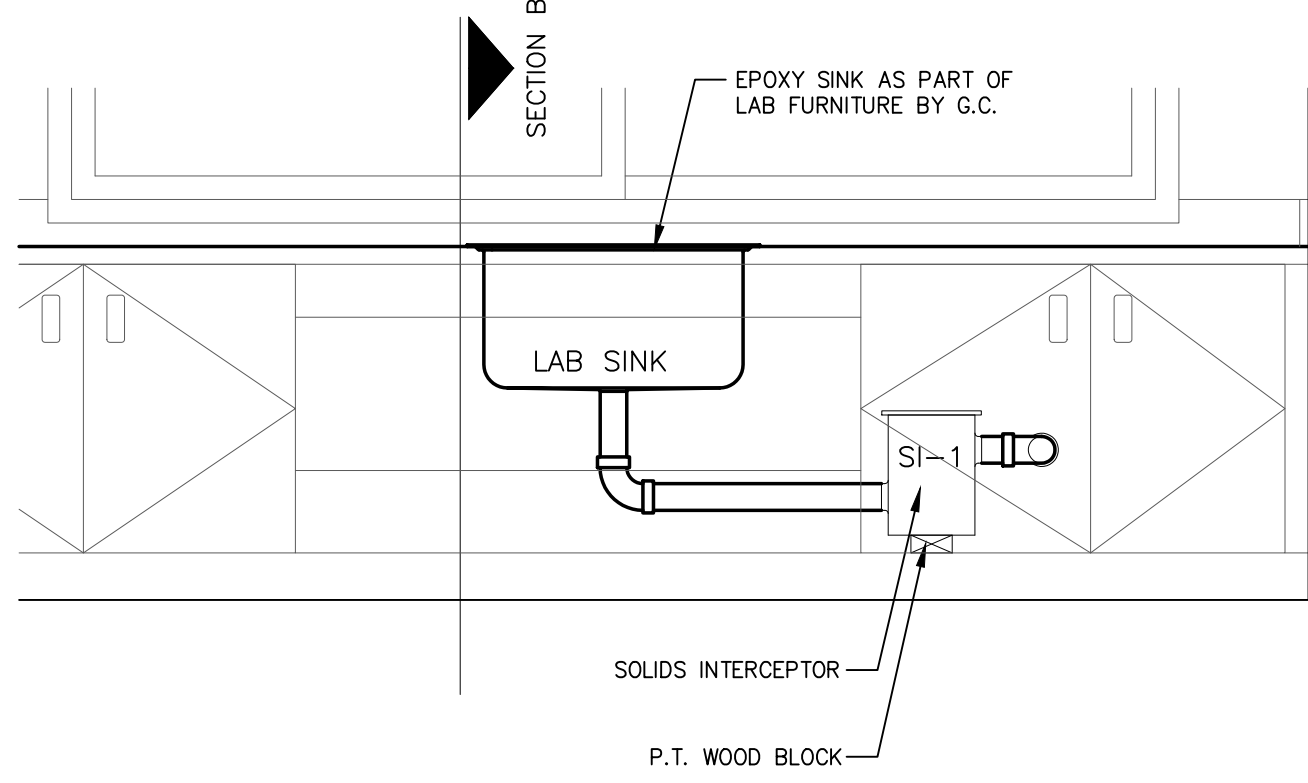
001.5 WALL MOUNTED LAV
SCALE: N.T.S.



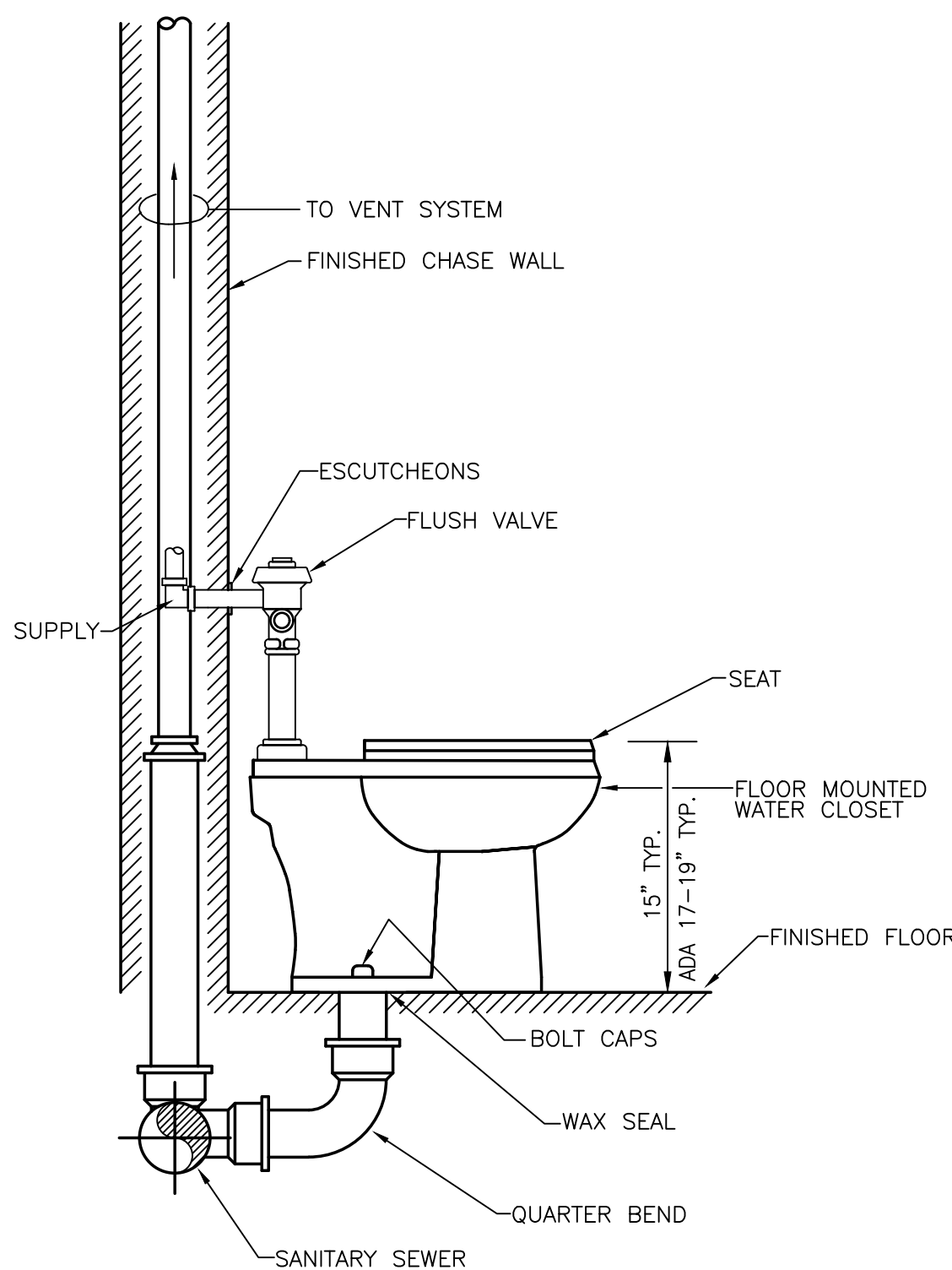
001.3 ELECTRIC WATER COOLER
SCALE: N.T.S.



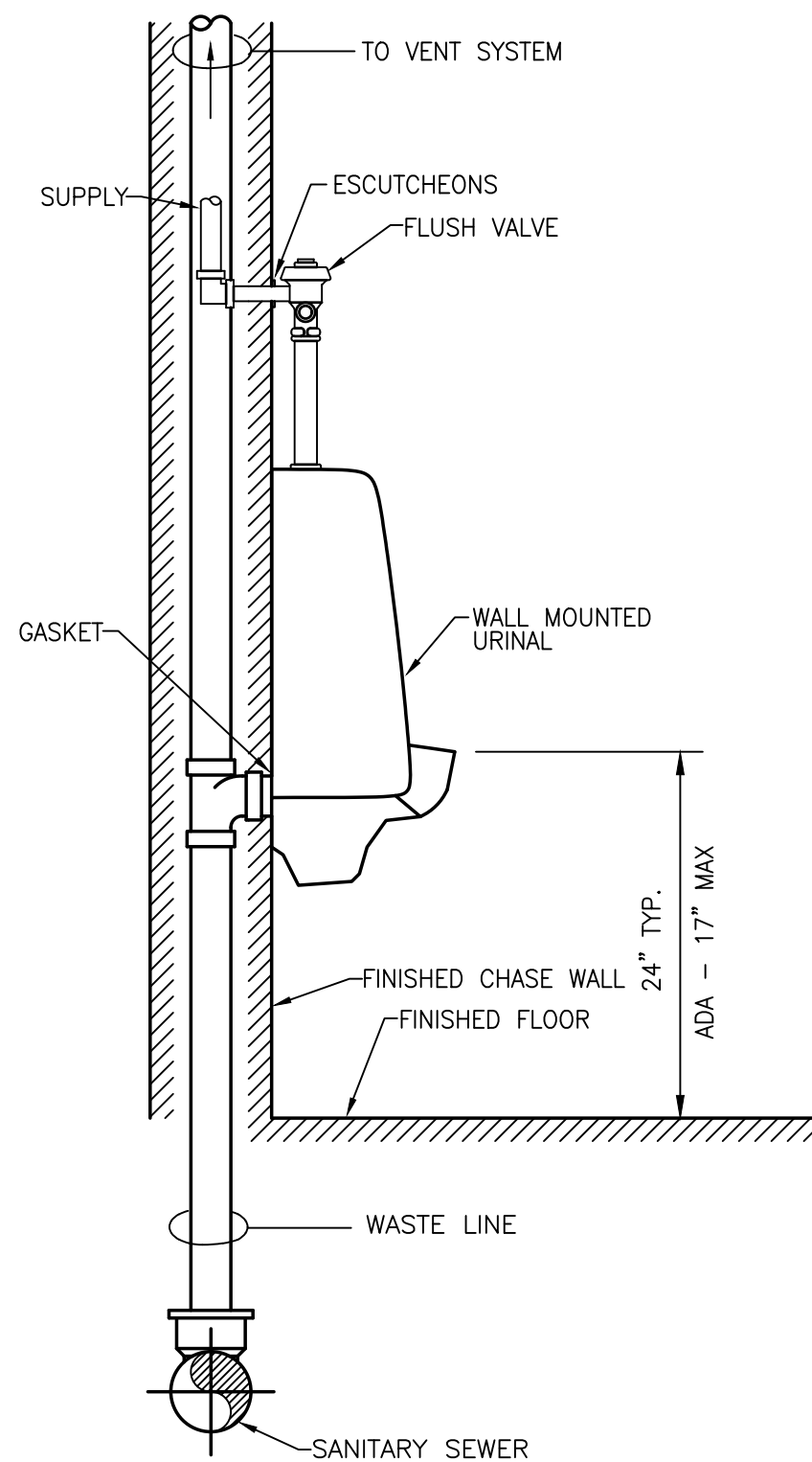
001.2 EWH WITH RECIRC PUMP
SCALE: N.T.S.



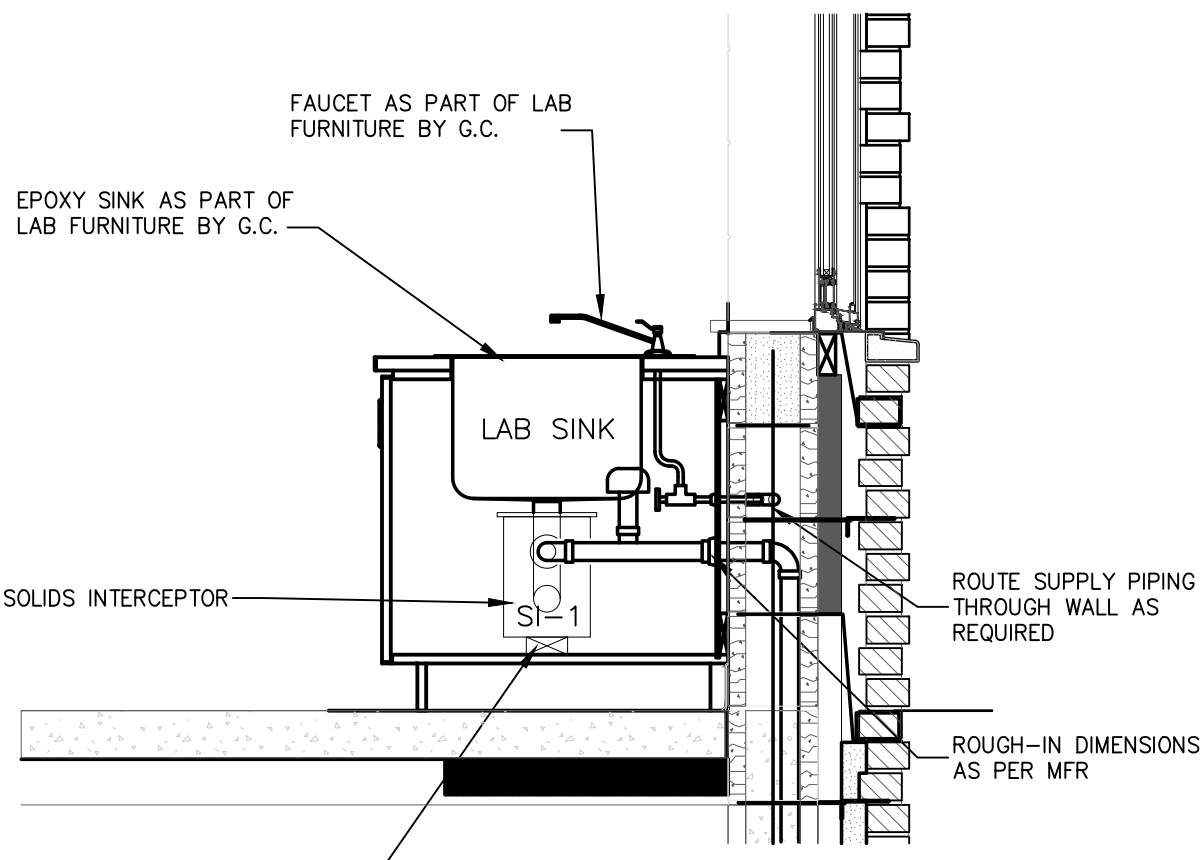
001.1 AG ROOM SOLIDS TRAP INSTALLATION DETAIL
SCALE: N.T.S.



001.6 WATER CLOSET DETAIL
SCALE: N.T.S.



001.4 URINAL DETAIL
SCALE: N.T.S.



SECTION

FIXTURE SCHEDULE				
LABEL	PART	MFR	MODEL	DESCRIPTION
WC ADA ACCESSIBLE 3-6	BOWL	KOHLER	No. K-96053-SS	"WELLCOME ULTRA" WATER-GUARD ELONGATED TOILET w/ 1.6 GALLON FLUSH, 10" ROUGH-IN, SIPHON JET
	TOP SPUD	KOHLER	No. K-52048	1" TOP SPUD, BOLT CAPS
	SEAT	KOHLER	No. K-4670-CA	OPEN FRONT SEAT w/ SELF SUSTAINING CHECK HINGE.
	FLUSH VALVE	SLOAN	No. 111	"ROYAL" WITH HANDLE ON OPEN SIDE OF STALL.
	CAST IRON FLANGE	JONES STEPHENS	No. C47-460	4" x 6" CAST IRON CLOSET FLANGE
URN ADA ACCESSIBLE	URN/L	KOHLER	No. K-5016-T	WATER-GUARD w/ SIPHON JET ACTION 1" TOP SPUD INLET, 2" IPS OUTLET, MEETS ADA & VOLUME I-C REQUIREMENTS.
	WALL CARRIER	SMITH	No. 637	MOUNT URN PER ADA REQUIREMENTS FOR H/C ACCESSIBILITY
	FLUSH VALVE	SLOAN	No. 186-1-YB	ROYAL 186-1-YB, MAXIMUM HANDLE HEIGHT PER ARCHITECTURAL DETAIL
LAV ADA ACCESSIBLE	LAVATORY	KOHLER	No. K-2867	WALL HUNG LAVATORY ENAMELED CAST IRON (20"x18") w/ INTEGRAL BACKSPASH
	WALL CARRIER	SMITH	No. 800	SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT TYP. STUDENT GANG TOILET LAVATORY
	FAUCET	DELTA	No. 2507-HDF	TWO-HANDLE METERING OR EQUAL BY KOHLER.
	SUPPLY	McGUIRE	No. H170LK	* CAST BRASS SWEAT w/ LOOSE KEY STOPS
	P-TRAP	McGUIRE	No. PW2150	PROWAP TRAP w/ INCLUDED PWB902, 1" ADJ. CHROME POLISHED CAST BRASS TRAP w/ INTEGRAL CLEANOUT
KS ADA ACCESSIBLE	SINK	ELKAY	No. GECR2521L	SINGLE COMPARTMENT 20ga. STAINLESS STEEL 25"x21"x5.375"D SELF-RIMMING 3-HOLE DECK w/ UNDERCOATING.
	FAUCET	DELTA	No. 100WF	LEVER HANDLES AND 8" LONG SPOUT SWING
	STRAINER	McGUIRE	No. 151A	STRAINER w/ STAINLESS STEEL TAIL PIECE
	P-TRAP	KOHLER	K-9000	1" ADJ. CAST BRASS CHROME PLATED w/ INTEGRAL CLEANOUT
CS ADA ACCESSIBLE	SINK	KOHLER	K-2209	ROUND UNDER MOUNT VITREOUS CHINA SINK
	FAUCET	KOHLER	K-35953-4	WIDESPREAD BATCHROOM SINK FAUCET
	STRAINER	McGUIRE	No. 151A	STRAINER w/ STAINLESS STEEL TAIL PIECE
	P-TRAP	KOHLER	K-8998	1" ADJ. CAST BRASS CHROME PLATED w/ INTEGRAL CLEANOUT
CS-2 ADA ACCESSIBLE	SINK	KOHLER	No. CAXTON SQ	15"x20" RECTANGULAR VITREOUS CHINA UNDERMOUNT SINK
	FAUCET	DELTA	No. 226131	DECK MOUNTED SINGLE LEVER FAUCET WITH ADA HANDLE OPTION
	STRAINER	McGUIRE	No. 151A	STRAINER w/ STAINLESS STEEL TAIL PIECE
	P-TRAP	KOHLER	K-9000	1" ADJ. CAST BRASS CHROME PLATED w/ INTEGRAL CLEANOUT
-EW	EYEWASH FAUCET	BRADLEY	No. S19-200B	CHROME PLATED GOOSENECK FAUCET WITH 4" WRIST BLADES & EYEWASH
FD	FLOOR DRAIN	ZURN	No. Z415-S	NICKEL BRONZE PLATED SQ. STRAINER
ICE	ICE MAKER BOX	GATEY	No. 38823	FLANGED ICE MAKER BOX w/ SHUT-OFF VALVE. PROVIDE * COPPER CONNECTION AS REQUIRED.
CO	CLEANOUT	SMITH	No. 4470	CAST BRONZE RECESSED CLEANOUT PLUG
WCO	WALL CLEAN OUT	WADE	No. 8564-E	CAST IRON CLEANOUT TEE WITH SPOUT INLET / OUTLET AND THREADED BRASS COUNTERSUNK PLUG w/ * TAP
	ACCESS COVER	WADE	No. 8480RB	ROUND STAINLESS STEEL ACCESS COVER WITH * - 20 x 3" CENTER SCREW
W/D	WASH UTILITY BOX	PROSET	No. PS/PV 120-06	ASTM E-814-2Hrs. (F) HI-TEMPERATURE, FIRE RATED UTILITY BOX
TMV	MIXING VALVE	WATTS	No. LFN-170	TEMPERING VALVE, SET AT 110F, INSTALL SEE WATER HEATER DETAILS.
EEWS	SHOWER/EYEWASH	BRADLEY	No. S19314-8820HW	EMERGENCY SHOWER/EYEWASH COMBINATION WITH 10" DIAMETER STAINLESS STEEL SHOWER HEAD AND EYEWASH BOWL & "SPRINTER" SPRAY PATTERN. PROVIDE WITH EMERGENCY THERMOSTATIC MIXING VALVE AND DISCHARGE AT 24" AFF OPTION
US OR USINK	UTILITY SINK	FIAT	No. P-1	FREE STANDING 23"x25" SINK WITH LEG LEVELERS, FLOOR ANCHORS PRE-DRILLED DECK WITH 4" CENTERS
	FAUCET	FIAT	No. A-1	DECK FAUCET
LAB	SEDIMENT TRAP	ZURN	No. Z1180	UNDER SINK SEDIMENT INTERCEPTOR
MS	MOP SINK	FIAT	No. MSB-3624	MOP SINK WITH STRAINER
	BUMPERGUARD	FIAT	No. E-88-AA-24&36	TWO STAINLESS STEEL 24" AND 36" BUMPERGUARD
	FAUCET	FIAT	No. 830-AA	SERVICE FAUCET WALL MOUNTED w/ WALL BRACE, THREADED SPOUT, PAIL HOOK, AND CHROME PLATED FINISH
AFH	ANTI-FREEZE HYDRANT	WOODFORD	No. 65EP	ANTI-FREEZE AUTO-DRAIN WALL HYDRANT WITH VACUUM BREAKER LOOSE KEY OPERATION, & ONE-PIECE VALVE PLUNGER. PC SHALL BE RESPONSIBLE FOR PROTECTION OF AFH DURING MASONRY CONSTRUCTION.
HWS	HAND WASH SINK	BRADLEY	No. WF-2703	36" SEM-CIRCULAR, 14 GA STAINLESS STEEL INDUSTRIAL HAND WASH FOUNTAIN WITH THERMOSTATIC MIXING VALVE & FOOT PEDAL ACTIVATION
SEE ALSO SPECIFICATION SECTION 15440				

FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY = EDUCATION		MINIMUM PLUMBING FIXTURES	
		FROM TABLE 403.1	
		TOTAL REQUIRED	TOTAL PROVIDED
ESTIMATED LOAD FOR OCCUPANT CALC.:		3 WC	2 WC
TOTAL PEOPLE: 180 PEOPLE		1 LAVATORY	3 LAVATORY
		2 UR	2 UR
DIVISION OF FACILITIES PER TABLE 403.4:		4 WC	4 WC
MALE: 50%		3 LAVATORY	3 LAVATORY
FEMALE: 50%		2 WC	2 LAVATORY
1,650 x 0.5 = 90 FEMALE		1 EWC	1 HI-LOW
1,650 - 825 = 90 MALE			

EWH SCHEDULE							
TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60' RISE	MFR / MODEL no.	ELECT'L
EWH 1	ON PLATFORM	50	6000 W	110	41 GAL	A.O. SMITH No. DEN-52	480V 1P 12.5A
EWH 2	ON PLATFORM	50	6000 W	110	41 GAL	A.O. SMITH No. DEN-52	480V 1P 12.5A
QWH	BEHIND WALL, BOYS	80	6000 W	110	41 GAL	A.O. SMITH No. DEN-80	480V 1P 12.5A
NOTES: 1) STATE INDUSTRIES, LOONWARR, OR RHEIN/RIUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES 2) PROVIDE BRONZE BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/12 HP, 115V, 5/8" I.D. 1/4" I.D. OR EQUAL BY TACO OR AMSTRONG. 3) PROVIDE EWH WITH NON-SIMULTANEOUS DUAL ELEMENTS SIZED AS SPECIFIED 4) SEE DETAIL FOR ACCESSORIES 5) WATER HEATER SHALL COMPLY WITH SECTION C404 OF THE NORTH CAROLINA ENERGY CODE.							
ABBREVIATIONS: CAP = STORAGE CAPACITY (gal) ELEM = (qty) WATTAGE TEMP = HW OUTPUT TEMPERATURE (deg F) RCVY = RECOVERY @ 100 deg F RISE (gpm) POU = POINT OF USE WATER HEATER							

FIXTURE UNIT REQUIREMENTS	
POTABLE WATER SUPPLY	85.8 GPM USE 2-1/2" SERVICE
WASTE	106.0 FU USE 4" SERVICE

ES24055
Project No.
102-A2 Region Blvd., Greenville, NC 27834
E-Mail Address: general@engrsource.com
New (919) 438-0338 • Fax (919) 438-0462 • Fax (919) 438-0462

ENGINEERING
SOURCE OF NC, P.A.
3/12/25
D. Wilson, P.E.
D. Wilson, P.E.

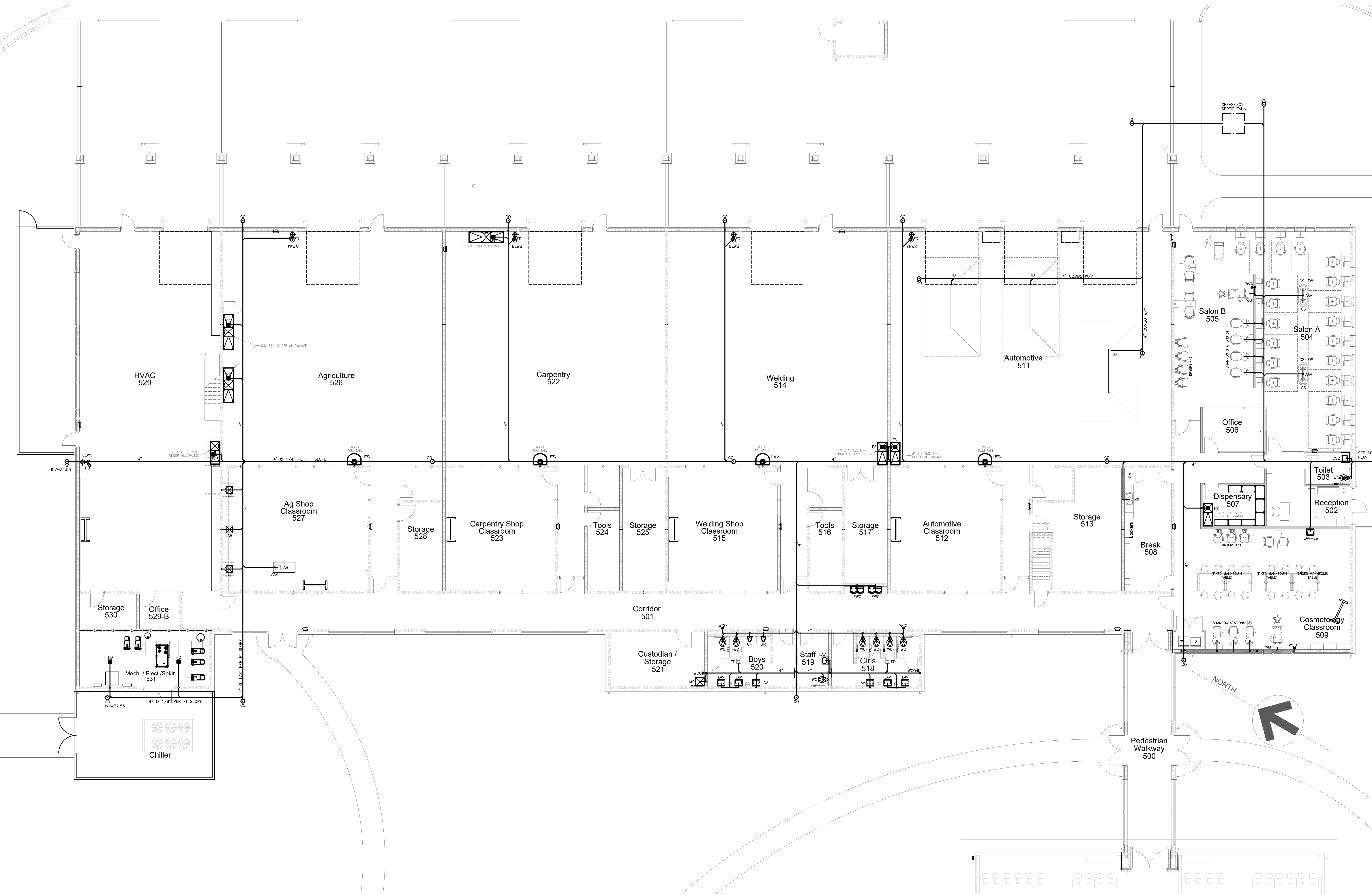
Revision	Date	No.

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
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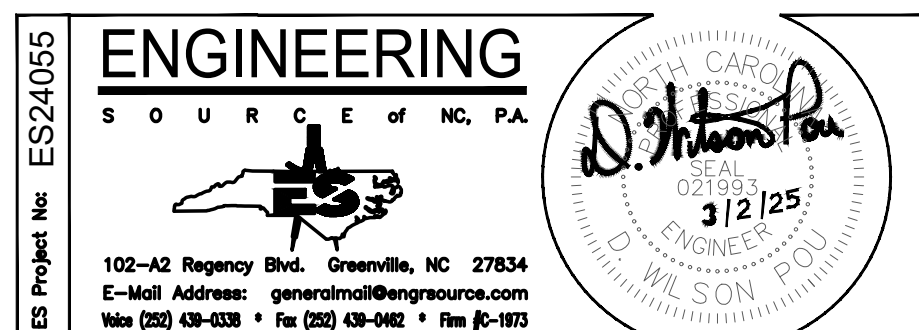
HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE 4/18
RENEWAL DATE 4/18

NEW CTE BUILDING FOR
Bertie High School
716 US 13 North / NCDPS Unit 080 - School 312
Windsor / Bertie County / North Carolina

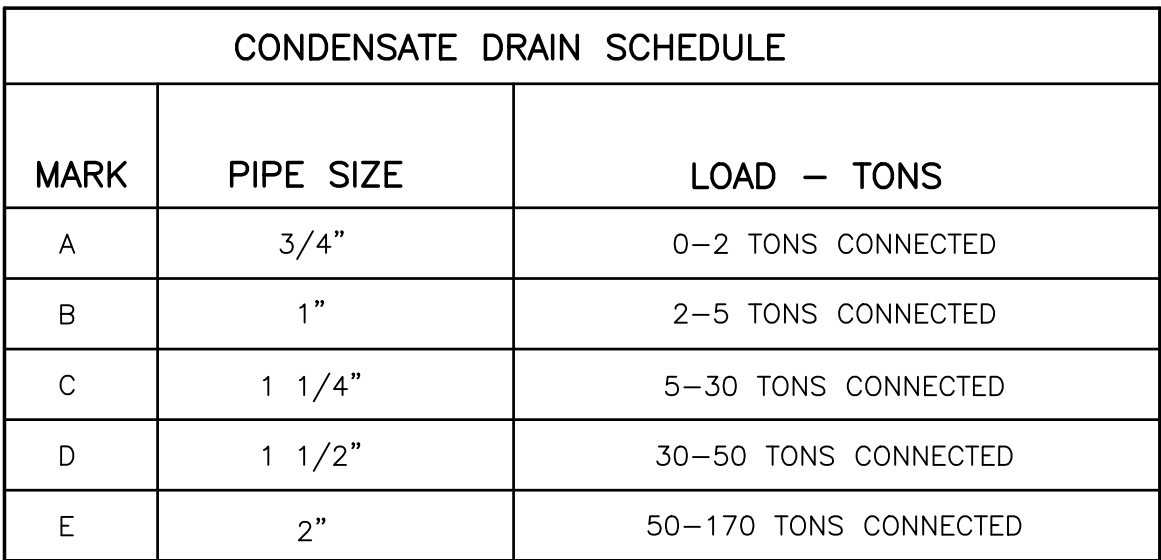
Project No. 22351
Date: March 2025
Drawing No. P 001



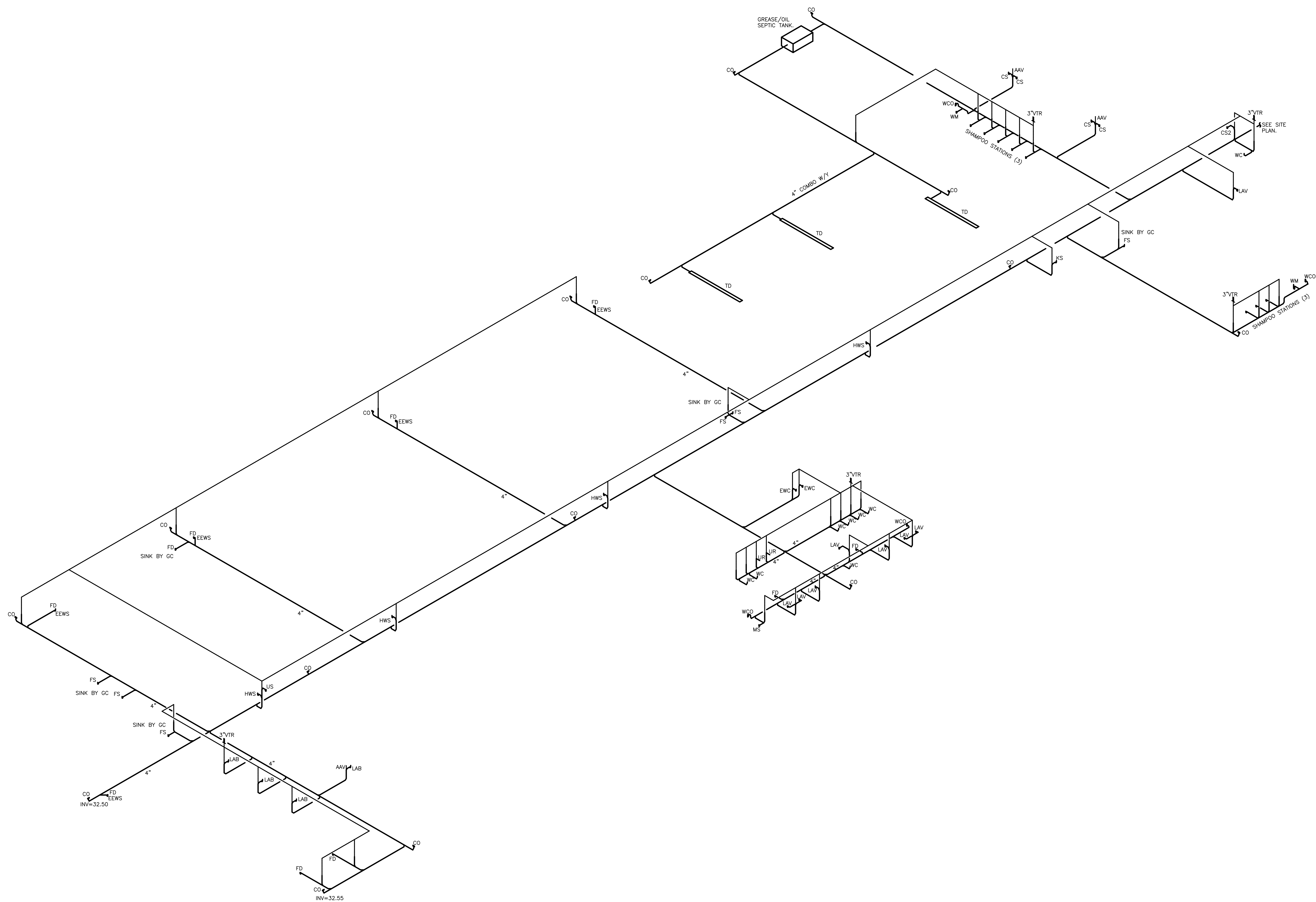
101.1 SANITARY SEWER PLAN



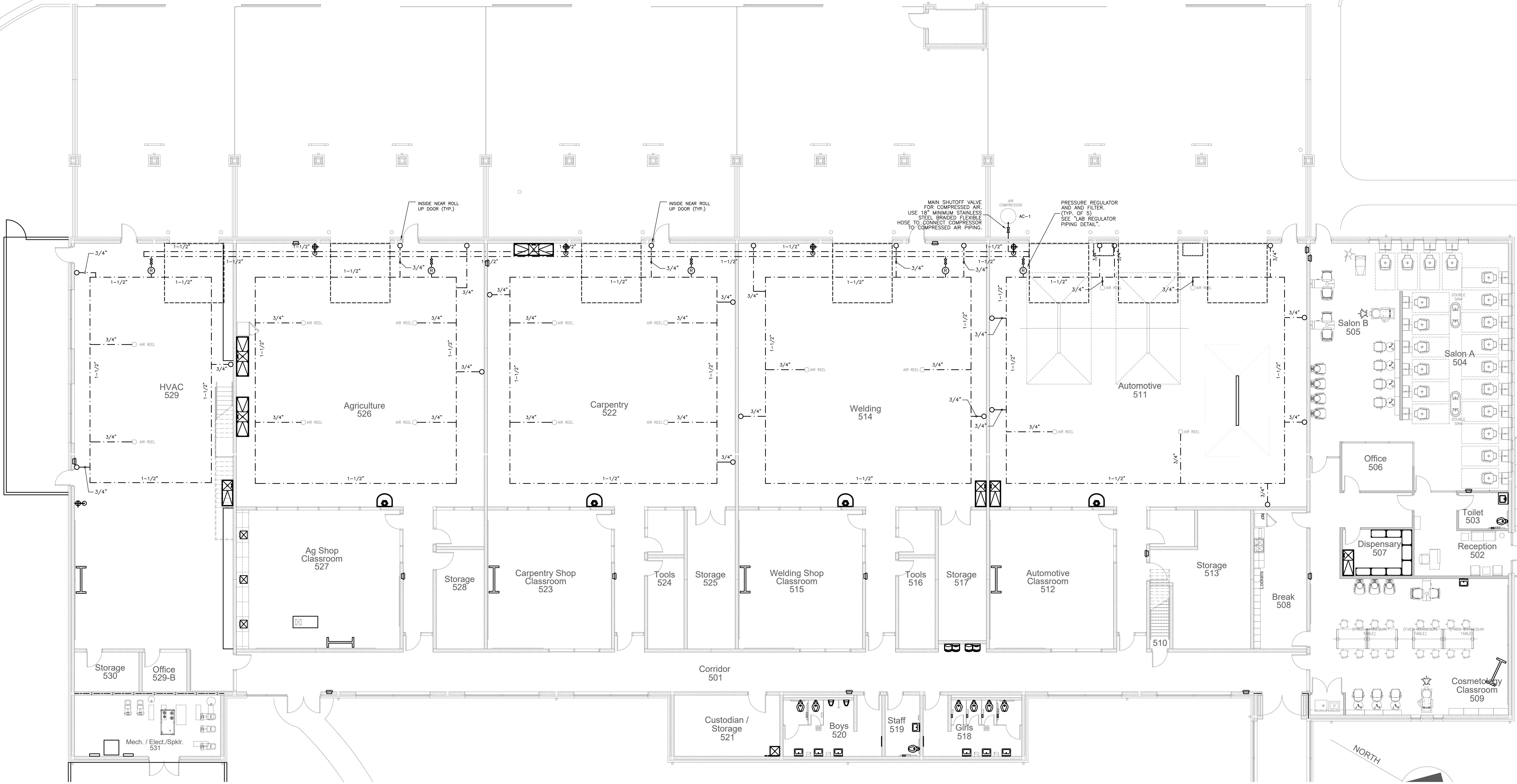
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SCALE: 1/8"=1'-0"



104.1 DWV RISER DIAGRAM



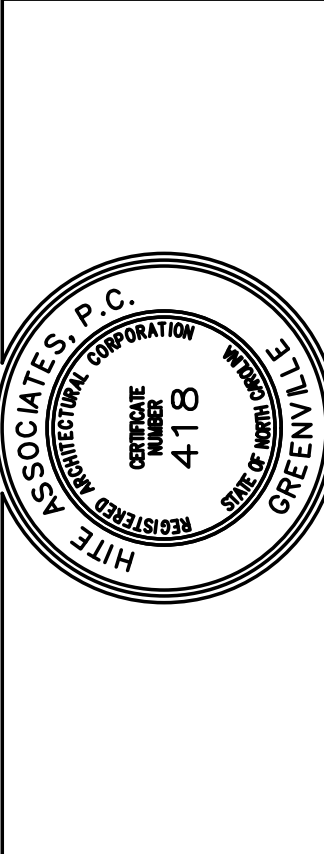
105.1 COMPRESSED AIR PIPING PLAN

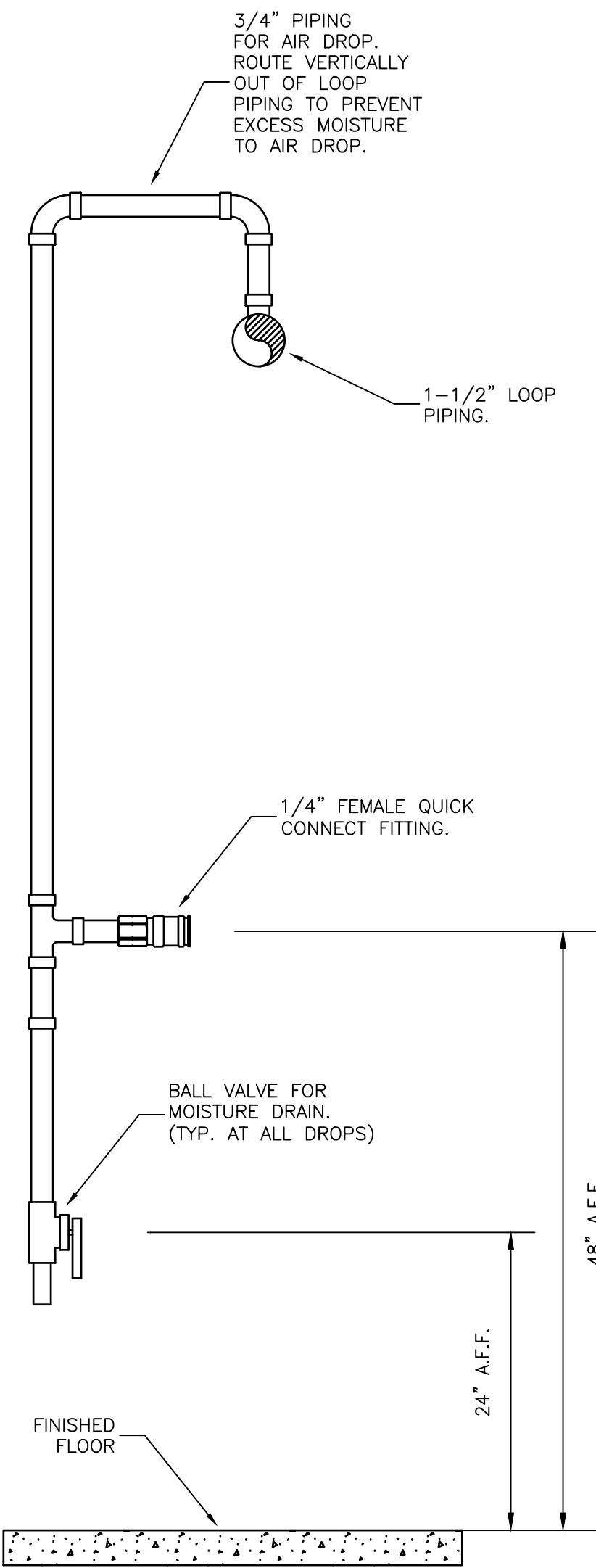
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AIR COMPRESSOR SCHEDULE

MARK	SCFM	TYPE	AIR RECEIVER	MAX. PRESSURE	MFR/MODEL	HP	VOLT	MCA	MOCP	WEIGHT	NOTES
AC-1	139.9	ROTARY SCREW	120 GAL.	175 PSI	QUINCY / GGSV30	30	460V / 3ø	50	80	1,330	1-4
NOTES: 1. AIR COMPRESSOR SHALL BE VARIABLE SPEED, DIRECT DRIVE ROTARY SCREW COMPRESSOR. 2. PROVIDE UNIT WITH MANUFACTURER'S INTEGRAL DRYER, WATER SEPARATOR, & FILTER. 3. PROVIDE UNIT WITH INTEGRAL AIR RECEIVER TANK (120 GALLON MINIMUM). 4. VALUES LISTED ABOVE ARE MINIMUM ACCEPTABLE VALUES. 5. QUINCY IS BASIS OF DESIGN. EQUALS BY INGERSOLL RAND, CHICAGO PNEUMATIC, CHAMPION, KAESER, & SULLIVAN-PALATEK. OTHER MANUFACTURERS MUST BE SUBMITTED FOR APPROVAL BY ENGINEER. ABBREVIATIONS: SCFM = CAPACITY AT 100 PSI (CFM) MAX PRESSURE = MAXIMUM OPERATING PRESSURE (PSI) HP = COMPRESSOR HORSEPOWER (HP) MCA = MINIMUM CIRCUIT AMPACITY (AMPS) MOCP = MAXIMUM OVER CURRENT PROTECTION (AMPS) WEIGHT = OPERATING WEIGHT (LBS.)											

No.	Date	Revision





106.1 COMPRESSED AIR PIPING RISER DIAGRAM

106.2 TYPICAL COMPRESSED AIR DROP DETAIL