

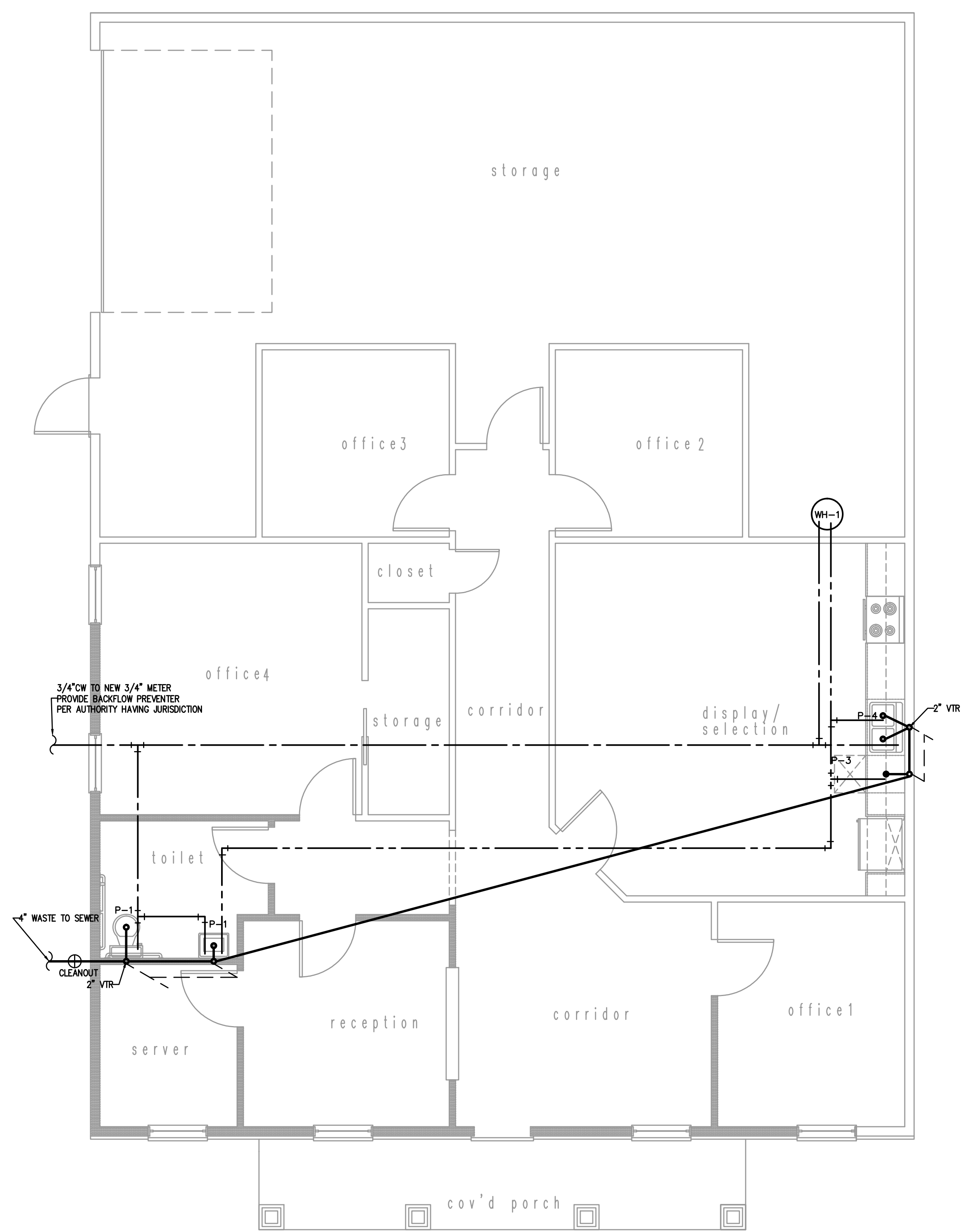
## 2012 North Carolina Energy Conservation Code Commercial Energy Efficiency – Plumbing Summary

- 501.1 METHOD OF COMPLIANCE**     NC SPECIFIC COMCHECK PROVIDED  
 2012 NCECC CHAPTER 5 901.-2007     20% IMPROVEMENT OVER ASHRAE
- 501.2 APPLICATION COMPLIANCE**
- 506.2.1 EFFICIENT MECH EQUIPMENT     506.2.4 HI EFFICIENCY DOMESTIC HW  
 506.2.2 REDUCED LTG DENSITY ENERGY     506.2.5 ONSITE RENEWABLE ENERGY  
 506.2.3 ENERGY RECOVERY SYSTEMS     506.2.6 DAYLIGHTING CONTROLS

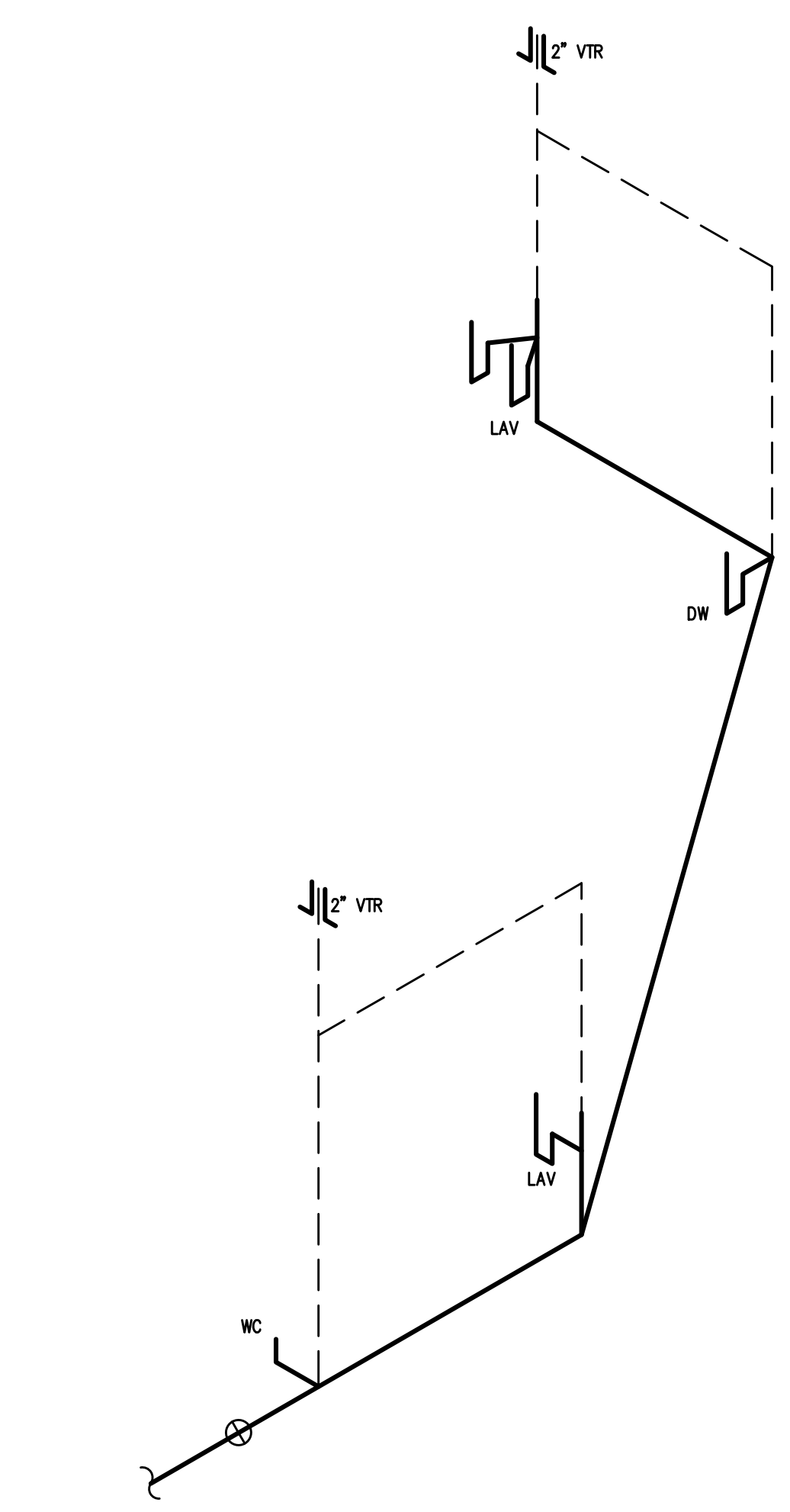
**504.2 SERVICE WATER-HEATING PERFORMANCE EFFICIENCY**

SYSTEM DESCRIPTION – 4500W ELECTRIC WATER-HEATER  
 STORAGE WATER HEATERS: TYPE – TANK  
 WATER HEATER TOTAL INPUT PER TYPE ENERGY: 4500W  
 STORAGE TOTAL: 40 GALLONS  
 RATED CONDITION (amount of BTUH/Gal): \_\_\_\_\_  
 MINIMUM THERMAL EFF. REQUIRED: \_\_\_\_\_  
 THERMAL EFF. OF SPECIFIED HEATER(S): 99%  
 STANDBY LOSS: N/A

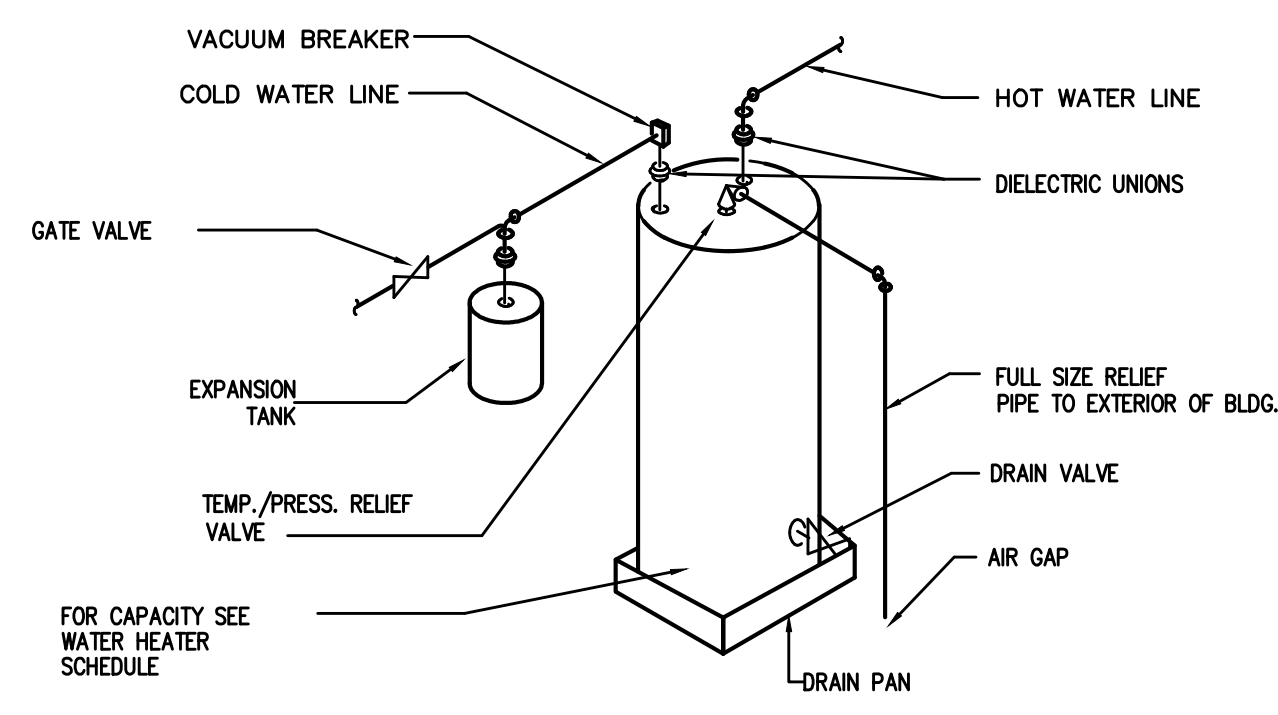
SIGNED: \_\_\_\_\_  
 NAME: Chris S. Locklear  
 TITLE: Engineer



**1 PLUMBING PLAN**  
1/4"=1'



**2 WASTE RISER**  
N.T.S.



**3 WATERHEATER DETAIL**  
N.T.S.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 1/2" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. CPVC/PEX MAY BE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI

GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREEN-TYPE FITTINGS.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

**4 PLUMBING NOTES**  
N.T.S.

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	AMERICAN STD.	2998.012	WATER CLOSET (TANK), FLOOR-TYPE HANDICAPPED	CHURCH 380TL, TOILET SEAT	3/4" C.W.	3"	2"	
P-2	AMERICAN STD.	0321.026	LAVATORY, WALL-TYPE	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-3	PER OWNER		DISHWASHER		1/2" H.W.	2"	1-1/2"	
P-4	PER OWNER		DOUBLE BOWL STAINLESS STEEL TOP MOUNT SINK.		1/2" H.W./C.W.	2"	1-1/2"	
WH-1	STATE		40 GAL., ELECTRIC 4500W	3/4" T & P RELIEF VALVE	3/4" H.W./C.W.	-	-	SEE PLAN FOR LOCATION



**Coastal Plains Engineering, P.A.**  
 FIRM # C-2059  
 295 Locklear Rd  
 P.O. Box 1117  
 Pembroke, NC 28372  
 Voice: 910-321-7213  
 www.coastalplainseng.com

**Drawing Name:**  
PLUMBING PLAN

**Project Name:**  
An Office Building for  
Mohler Homes, Inc.

**Project Location:**  
Lot 5, Comm Park Lane  
Angier  
North Carolina

DRAWINGS AND THE DESIGN ARE THE PROPERTY OF THE ARCHITECT. THIS DOCUMENT IS INTENDED TO COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA). ARCHITECTS AND ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR TO GIVE ADVICE CONCERNING LAWS OR LEGAL MATTERS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE IF IT COMPLIES TO ADA AND OTHER LAWS.

PROJECT NO: 18-128	SHEET NO:
DRAWN BY: SLL	P1
DATE: 11.27.18	
REVISIONS:	