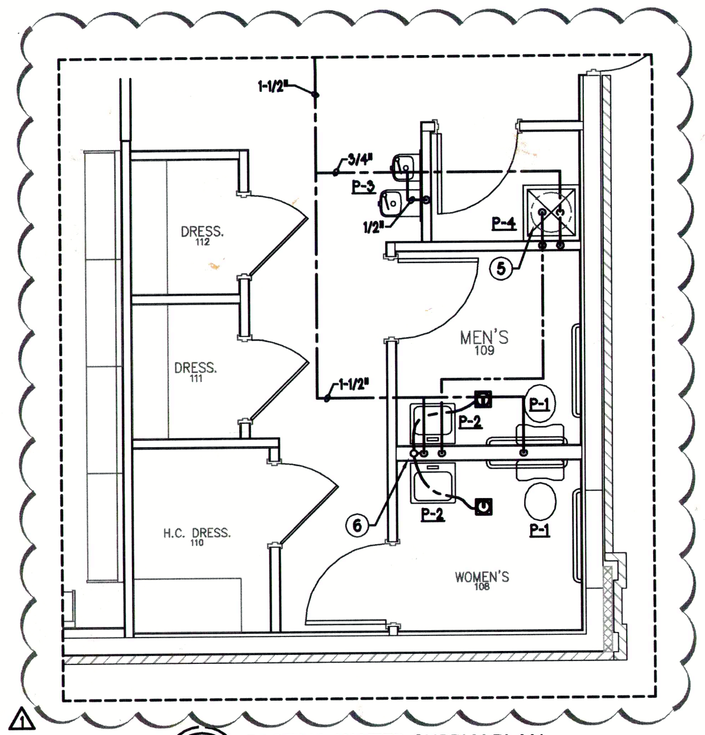
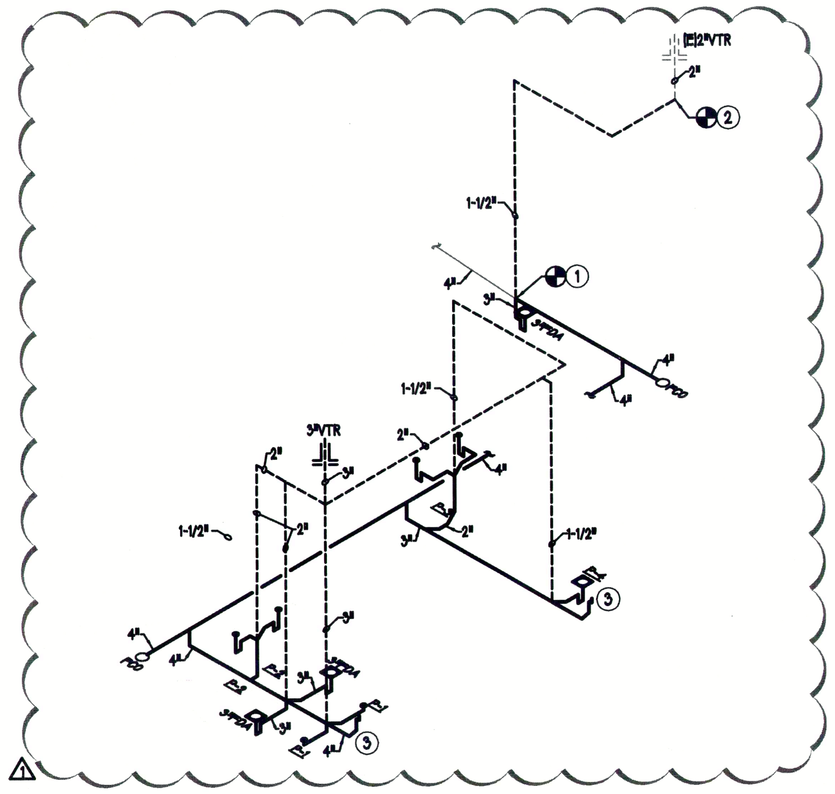
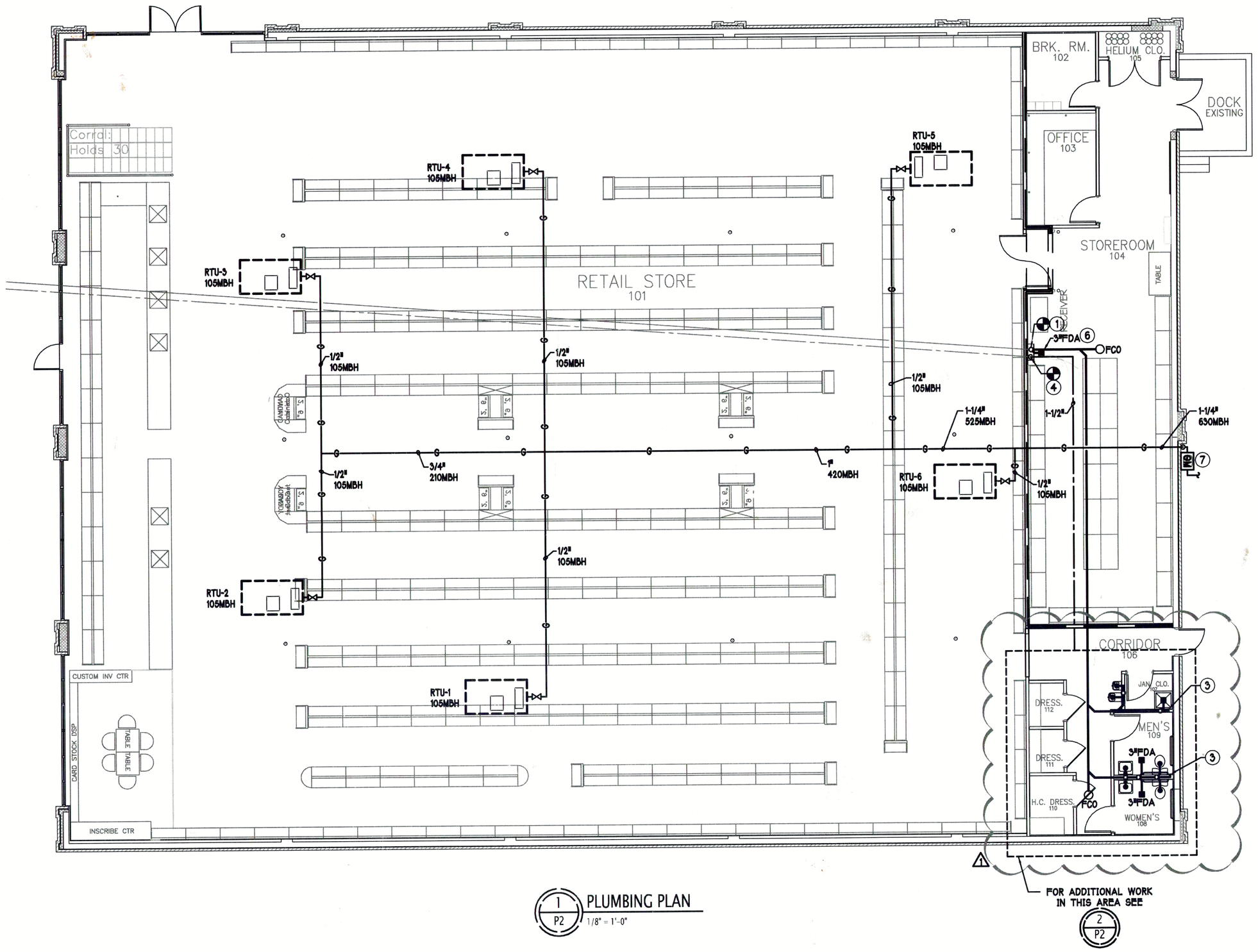


2 / P2 PARTIAL WATER SUPPLY PLAN
1/4" = 1'-0"



3 / P2 SANITARY RISER DIAGRAM PLAN
NTS



1 / P2 PLUMBING PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

1. TIE NEW 4" SANITARY TO EXISTING 4" SANITARY SEWER - VERIFY EXACT TIE-IN LOCATION, INVERT AND DIRECTION OF FLOW PRIOR TO PERFORMING ANY WORK.
2. TIE NEW 1-1/2" VENT TO EXISTING 2"VTR - VERIFY EXACT TIE-IN LOCATION AND SIZE PRIOR TO PERFORMING ANY WORK.
3. PROVIDE WCO - WCO TO FULL SIZE OF SANITARY LINE
4. TIE NEW 1-1/2"CW TO EXISTING 1-1/2"CW WATER SERVICE - SEE SITE PLAN FOR CONTINUATION. VERIFY EXISTING MAIN SHUT-OFF VALVE AND BACKFLOW PREVENTOR (EQUAL TO WATTS SERIES 007) IN ACCESS PANEL IN RISE AND PROVIDE IF REQUIRED. PROVIDE PRV SET TO 60 PSI IF AVAILABLE PRESSURE IS OVER 80 PSI.
5. WATER HEATER (WH-1) LOCATED ABOVE MOP SINK. VERIFY EXACT LOCATION PRIOR TO PERFORMING ANY WORK. OUTPUT TEMPERATURE SHALL BE SET TO 110 DEG F
6. PROVIDE TRAP PRIMER IN ACCESSIBLE LOCATION
7. GAS METER, REGULATOR AND UNDERGROUND SERVICE BY LOCAL GAS COMPANY. 630 MBH AT 2PSIG DELIVERY PRESSURE. 150 FT TO MOST REMOTE FIXTURE. P.C. TO FIELD VERIFY LOCATION AND DELIVERY PRESSURE OF GAS METER PRIOR TO PERFORMING ANY WORK - NOTIFY ENGINEER IF DEVELOPED LENGTH EXCEEDS 150 FT TO MOST REMOTE FIXTURE.

GAS LOAD SUMMARY

RTU-1	105MBH
RTU-2	105MBH
RTU-3	105MBH
RTU-4	105MBH
RTU-5	105MBH
RTU-6	105MBH
	630MBH TOTAL

GAS LOAD TABLE

LOW PRESSURE
PRESSURE DROP: 0.5 IN.W.C.
STEEL (SCHD. 40)
LENGTH: 150 FT
FITTINGS FACTOR: 1.2
EQUIVALENT TOTAL LENGTH: 180FT
CAPACITY OF PIPES IN MBH

1/2"	36
3/4"	75
1"	142
1-1/4"	291
1-1/2"	437
2"	841
2-1/2"	1340
3"	2369

HIGH PRESSURE
ATMOS. PRESSURE: 14.6954 PSIA
P1: 2 PSIG
P2: 1.8 PSIG
STEEL (SCHD. 40)
LENGTH: 150 FT
FITTINGS FACTOR: 1.2
EQUIVALENT TOTAL LENGTH: 180FT
CAPACITY OF PIPES IN MBH

1/2"	141
3/4"	285
1"	556
1-1/4"	1142
1-1/2"	1711

NOTE:
GAS PIPING IS SIZED FOR 2PSI NATURAL GAS. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR LOW PRESSURE PIPING IF HIGH PRESSURE IS NOT AVAILABLE. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF 2PSI SERVICE BEFORE ANY WORK HAS BEGAN AND NOTIFY ARCHITECT IN WRITING OF AVAILABLE SERVICE.

NOTE:
PROVIDE GAS REGUALTOR AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO UNIT AS REQUIRED BY MANUFACTURER

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027400 NICHOLAS M. PAPPAS 10-08-09

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REVISION #	DATE
1 CODE/OWNER COMMENTS	10/08/09

NOTICE
PLANS APPROVED FOR CONSTRUCTION
These plans that are approved for construction of this project are to be on the job site at the time inspections. The work must be performed in accordance with the approved plans. If changes were made during construction, then it is the responsibility of the contractor to make sure that all applicable sub-contractors are aware of these changes.

PROJECT #:	1986
DATE:	08/14/09
DRAWN BY:	RPD
CHECKED BY:	DMP

PLUMBING PLANS AND NOTES

P2