

# PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MANUFACTURER	CATALOG NO.	CONNECTION SIZES			BRASS	TRAP AND SUPPLIES	ACCESSORIES	MOUNTING	REMARKS
				WASTE	C.W.	H.W.					
SK-1	SINK - COUNTERTOP STAINLESS STEEL, SINGLE COMPARTMENT 25" x 21"-1/4" x 5-1/2"	ELKAY	LRAD-2521	1-1/2"	1/2"	1/2"	DELTA MODEL 2171F-WBHDF COUSENECK PREP FAUCET 1.5 GPM	MOQUIRE #171 -1/2" SWEAT x 1/2" OD CHROME SUPPLY MOQUIRE #8912 1-1/2" x 1/2" CAST BRASS P-TRAP	MOQUIRE #151M BRASS BASKET STRAINER AND VALVE #111 SERIES CONT. WASTE	SEE ARCHITECTURAL DWGS.	
EW-1	ELECTRIC WATER COOLER LIGHT GRAY GRANITE SPLIT LEVEL BARRIER-FREE	ELKAY	EMABTLBC	1-1/2"	1/2"	--		MOQUIRE #170 -1/2" SWEAT x 3/8" OD CHROME SUPPLY MOQUIRE #8922C 1-1/4" x 1-1/2" CAST BRASS P-TRAP	STEEL FIXTURE MOUNTING BRACKET ANCHORED TO WALL WITH TAPCON ANCHOR BOLTS	STUD WALL 3/4" TO TOP OF A.D.A. BASH	FOR HANDICAP AND GENERAL USE
WB-1	RECESSED WASHING MACHINE BOX W/ALX. DRAIN LINE	OUY GREY	T7200 SERIES	2"	1/2"	1/2"				WALL 48" A.F.F.	QUARTER TURN VALVES
WB-1	WALL HYDRANT - INTERIOR FLUSH MOUNTED	WOODFORD	26	--	3/4"	--				WALL	WHEEL HANDLE W/VALUUM BREAKER
FBW-1	WALL HYDRANT - FREEZELESS FLUSH MOUNTED	WOODFORD	65	--	3/4"	--				WALL -24" ABOVE GRADE	LOOSE KEY W/VALUUM BREAKER
EQ	FLOOR CLEANOUT	JOSAM	58360-PC	SEE PLANS	--	--					CLEANOUT SHALL BE FULL SIZE OF LINE SERVED
WCO	WALL CLEANOUT	JOSAM	58600-CO	SEE PLANS	--	--					THREADED PLUG & SS ACCESS COVER
YCO	YARD CLEANOUT	JOSAM	58360-PC	SEE PLANS	--	--					CLEANOUT SHALL BE FULL SIZE OF LINE SERVED
LI-1	LINT INTERCEPTOR	JR SMITH	8910-20	SEE PLANS	--	--				FLOOR	PROVIDE WITH ANCHOR FLANGE FOR IN-FLOOR INSTALLATION

NOTES:  
1. CATALOG NUMBERS ARE SHOWN TO SUPPLEMENT FIXTURE DESCRIPTION. IF MODEL NUMBER IS DISCONTINUED OR DOES NOT MEET CRITERIA SET FORTH BY FIXTURE TYPE DESCRIPTION, THE ARCHITECT/ENGINEER SHOULD BE NOTIFIED. IF NO NOTIFICATION IS RECEIVED PRIOR TO BIDDING, THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO CHOOSE BETWEEN FIXTURES REGARDLESS OF PRICE.

# PLUMBING DRAIN SCHEDULE

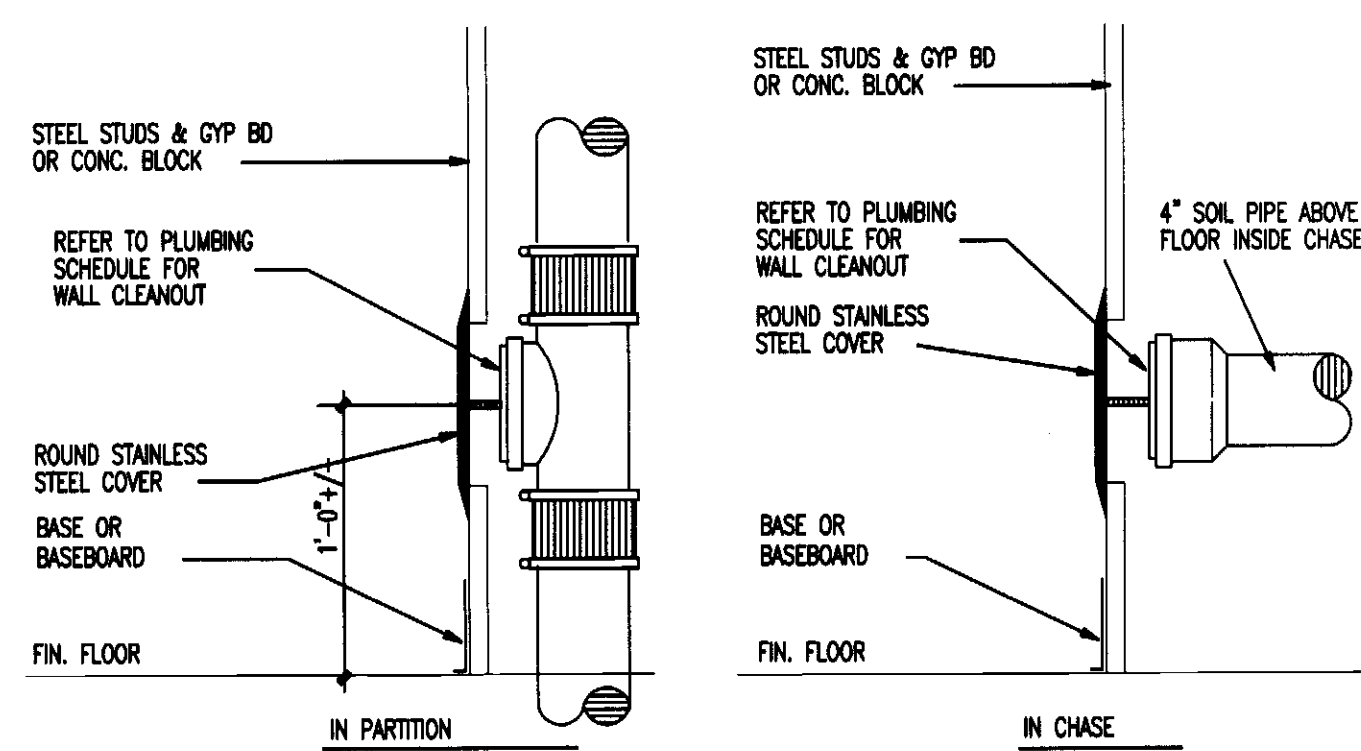
MARK	LOCATION	STRAINER SIZE AND TYPE	OUTLET SIZE	P-TRAP CONNECTION	P-TRAP SIZE AND TYPE	MFR. & MODEL NO.	REMARKS
ED-1	TREATMENT ROOM	9"	ROUND PVC	3"	3" DEEP SEAL	JOSAM 32100-PC	PROVIDE WITH 1/2" TRAP PRIMER TAP
ED-1	TURTLE REHAB AREA	12" x 12"	SO PVC 1/2 GRATE	3"	3" DEEP SEAL	JOSAM 48320-PC	DOME ASSEMBLY WITH 1/2 GRATE, PVC TOP STRAINER

# TRENCH/CHANNEL DRAIN SCHEDULE

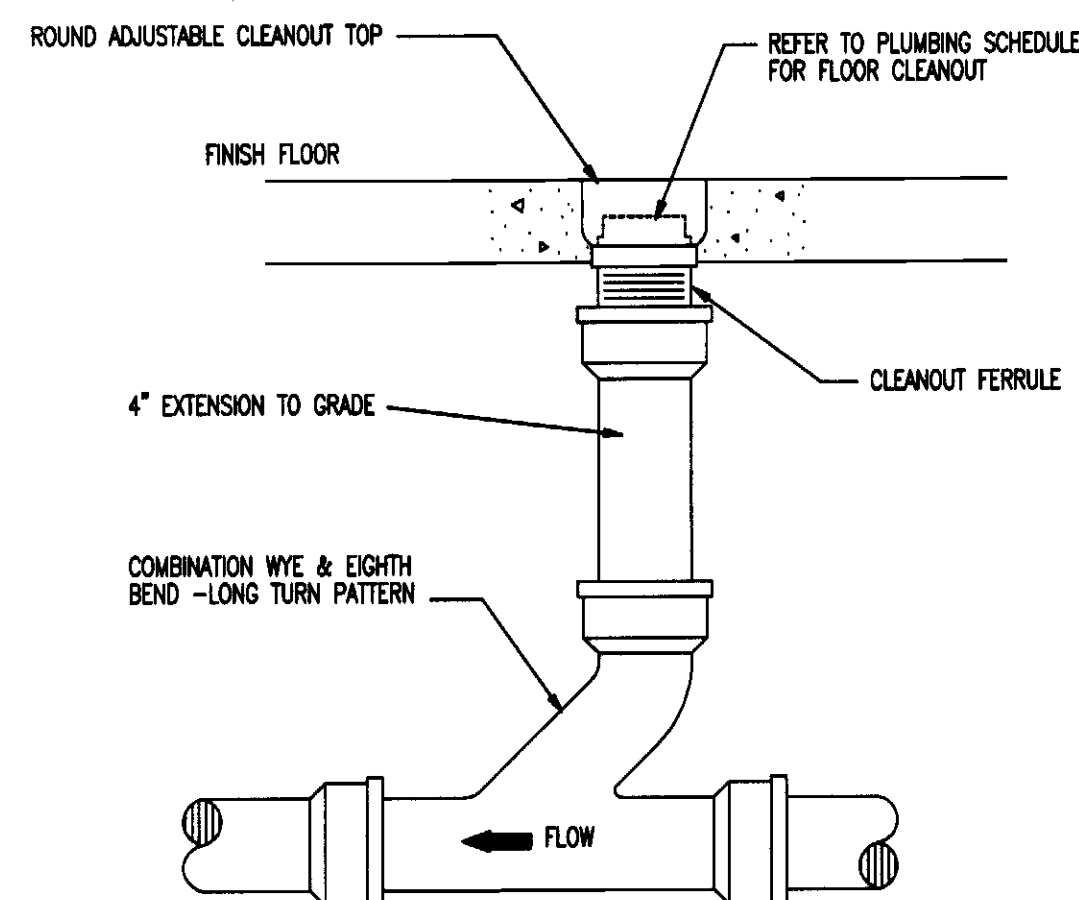
MARK	TYPE	SIZE	OUTLET SIZE	P-TRAP TYPE	MFR. & MODEL NO.	REMARKS
TD-1	TRENCH DRAIN	6" W x 39-3/8" L	4"		JOSAM 100 SERIES	LOAD CLASS A, VINYLESTER FIBERGLASS BAR GRATE
SB-1	SEDIMENT BOX	6" W x 39-3/8" L	4"	DEEP SEAL	JOSAM 100-SB	LOAD CLASS A, VINYLESTER FIBERGLASS BAR GRATE

# ELECTRIC WATER HEATER SCHEDULE

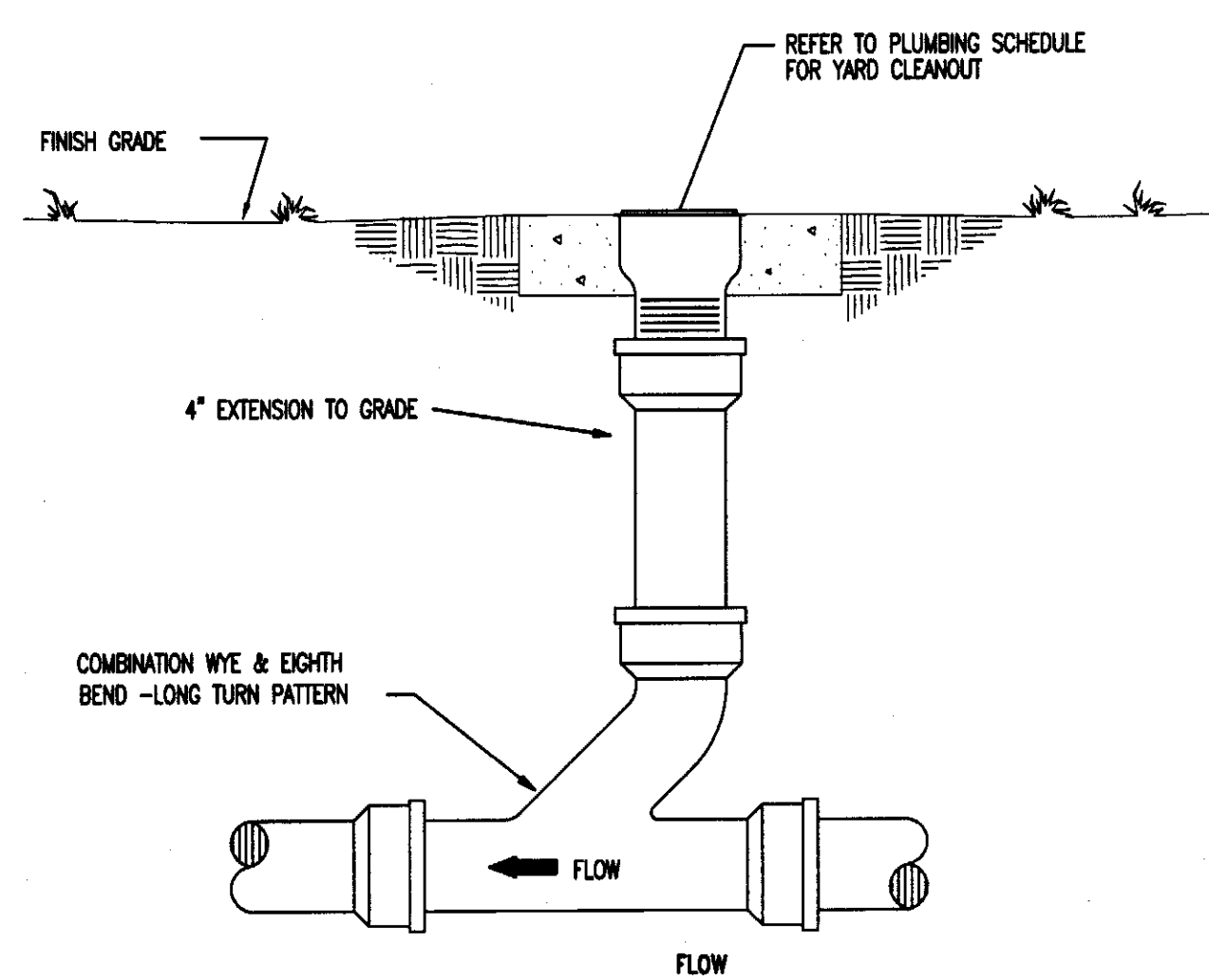
MARK	MANUFACTURER	MODEL	TYPE	CAPACITY	RECOVERY	VOLTS/PH	KW	REMARKS
EW-1	A.O. SMITH	DEL-30-S	ELECTRIC	30 GAL.	28 GAL @ 70°F. RISE	480V/3ø	5.0	(2) 5W NON-SIMULTANEOUS ELEMENTS



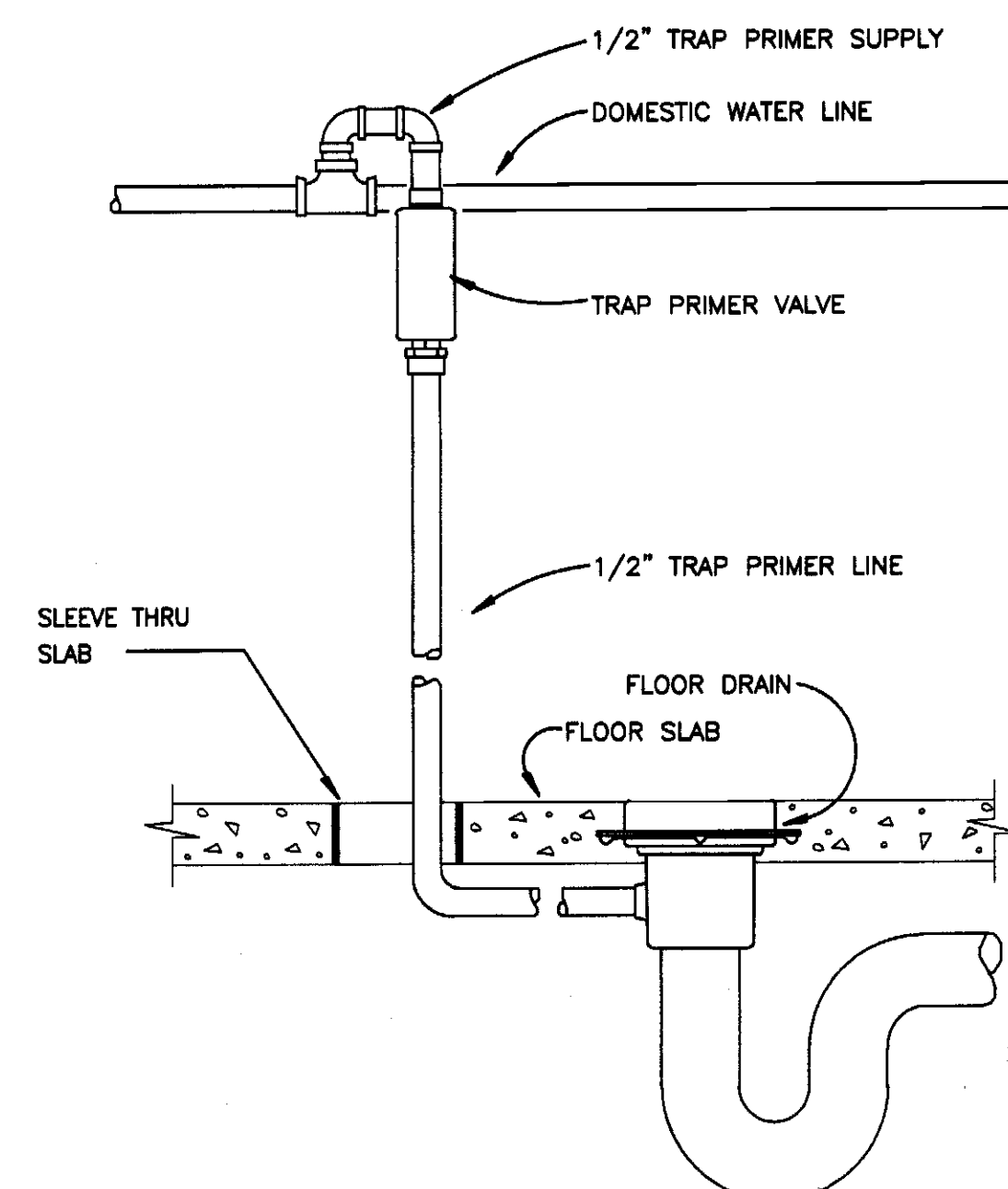
1 WALL CLEANOUT DETAIL  
P0.1 NTS



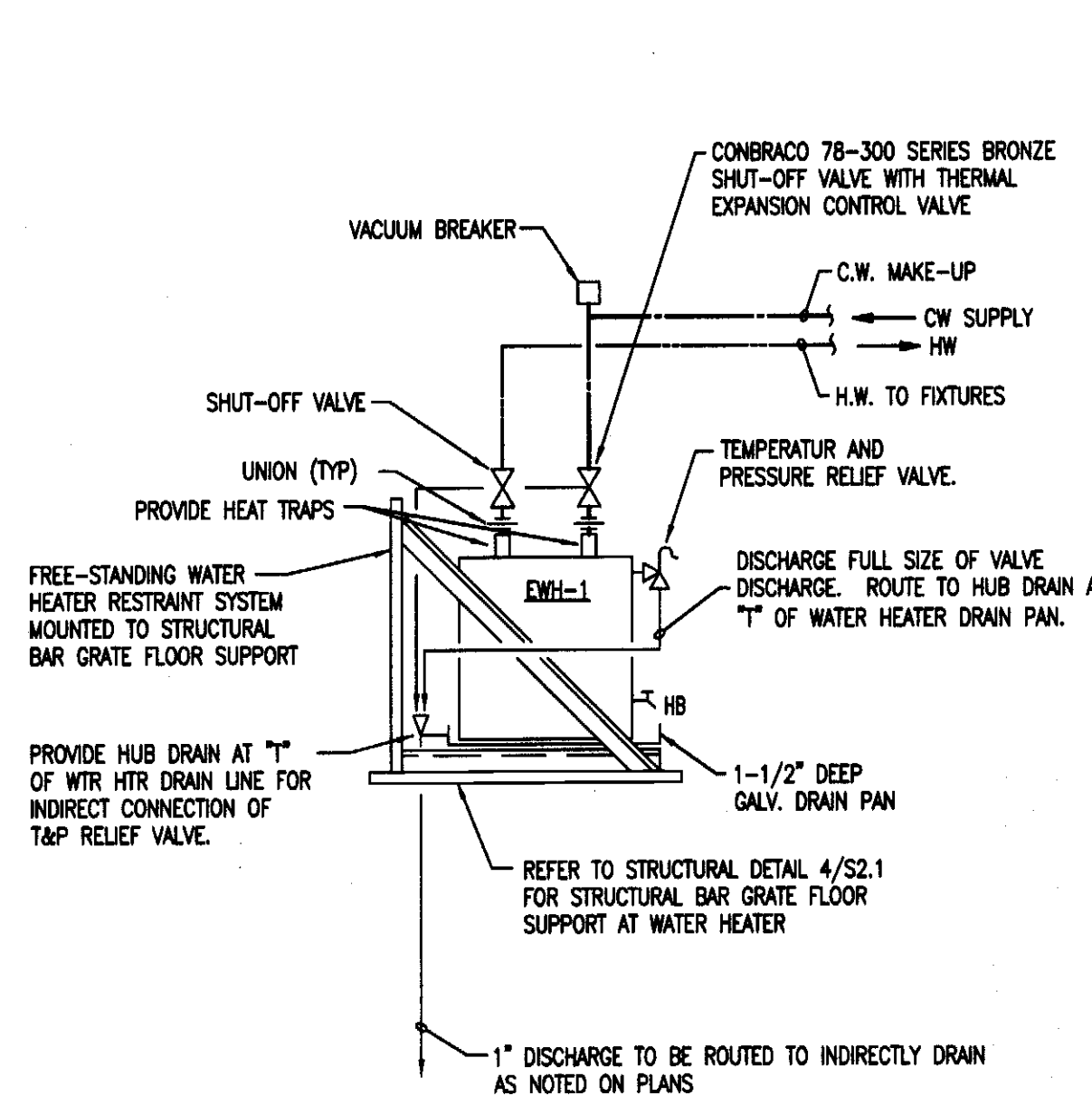
2 FLOOR CLEANOUT DETAIL  
P0.1 NTS



3 YARD CLEANOUT DETAIL  
P0.1 NTS



4 TRAP PRIMER SEAL DETAIL  
P0.1 NTS

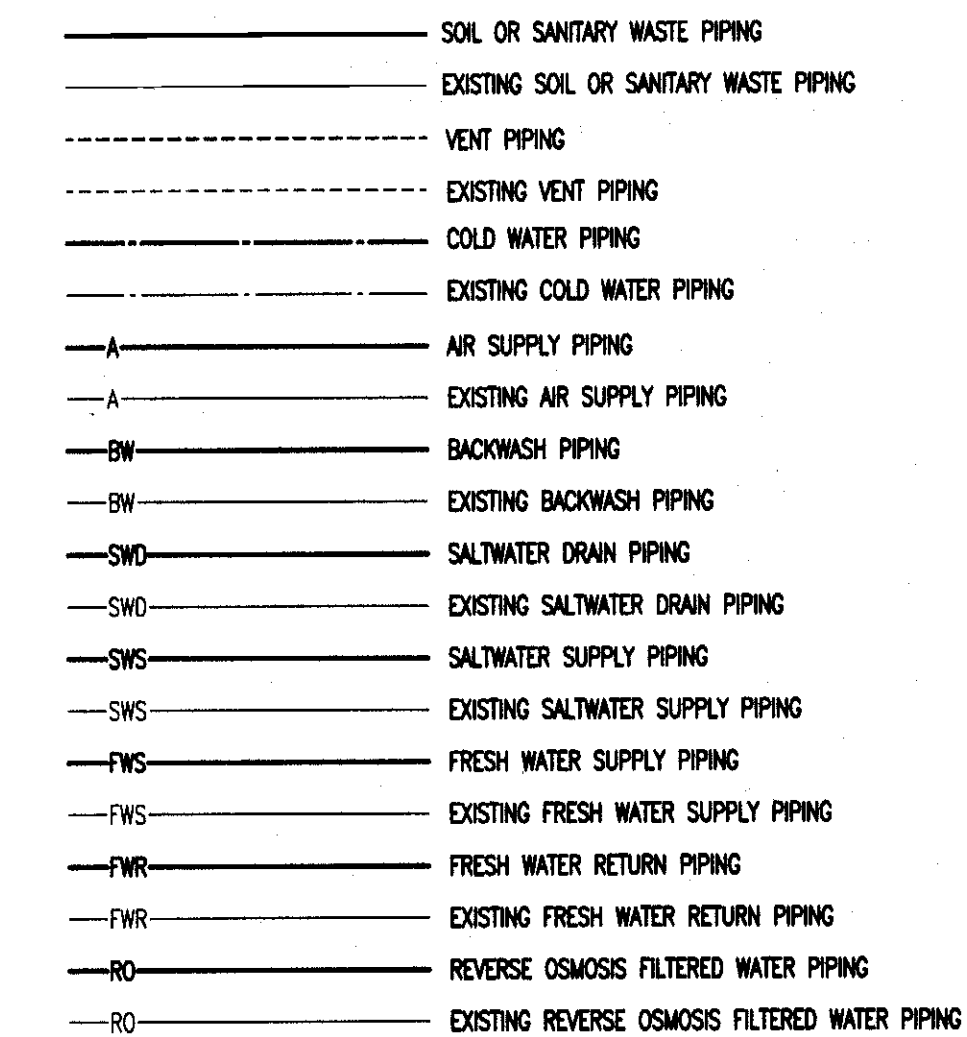


5 ELECTRIC WATER HEATER DETAIL  
P0.1 Not To Scale

# GENERAL NOTES

- PLANS AND ISOMETRICS ARE DIAGRAMMATIC. THERE IS NO INTENT TO INDICATE ALL OFFSETS AND FITTINGS REQUIRED. GENERALLY, PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO AND PLUMB WITH WALL CONSTRUCTION. SPECIAL CARE SHALL BE TAKEN TO COORDINATE EQUIPMENT AND PIPING LOCATIONS WITH ALL OTHER TRADES. IF INTENT OF DESIGN IS NOT CLEAR CONTRACTOR SHOULD NOTIFY THE ENGINEER IMMEDIATELY.
- ON FLOOR PLAN DRAWINGS, SOIL, WASTE, AND RAINWATER PIPING IS SHOWN BELOW FLOOR. DOMESTIC WATER, VENTS, AND OTHER SUPPLY PIPING (UNLESS NOTED) IS ABOVE CEILING OR AS HIGH AS POSSIBLE IN SPACE.
- SOIL AND WASTE PIPING SHALL BE INSTALLED ON MINIMUM 1/4" PER FT. SLOPE FOR PIPE SIZES LESS THAN 4", AND MINIMUM 1/8" PER FT. FOR PIPE 4" AND LARGER.
- PLUMBING CONTRACT SHALL TERMINATE AT POINTS INDICATED ON PLAN. EXTENSION OF BUILDING SERVICE PIPING TO SITE UTILITY PIPING SHALL BE PART OF SITE UTILITY CONTRACT.
- CONSTRUCTION INTERFACE BETWEEN PLUMBING AND OTHER SUB-CONTRACTS (I.E. SITE WORK, HVAC EQUIPMENT, ELECTRICAL WORK, ETC.) SHALL BE CLOSELY COORDINATED WITH OTHER DRAWINGS INCLUDED WITH THESE DOCUMENTS.
- PROVIDE SHOCK ARRESTORS, SIZED IN ACCORDANCE WITH P.D.I. STANDARDS, AT EACH BRANCH SERVING FLUSH VALVE FIXTURES.
- VALVES AND DEVICES INSIDE CHASES OR WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE PROVIDED WITH APPROPRIATELY SIZED ACCESS PANELS COMPATIBLE WITH SURROUNDING FINISHES. SUCH ACCESS PANELS SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR FOR INSTALLATION BY THE GENERAL CONTRACTOR. PANELS SIZES SHALL BE MINIMALLY SIZED 16"x16".
- PROVIDE CLEANOUTS AT LOCATIONS INDICATED ON THE DRAWINGS AND AT ALL OTHER POINTS NOT SPECIFICALLY INDICATED BUT REQUIRED BY THE PLUMBING CODE.
- PLUMBING VENT PIPING PENETRATING ROOF SHALL BE INSTALLED BY PLUMBING CONTRACTOR. CUTTING OF HOLES AND FLASHING OF PENETRATIONS SHALL BE BY THE GENERAL CONTRACTOR.
- PIPING PENETRATING FIRE RATED WALLS SHALL BE FIRESTOPPED IN ACCORDANCE WITH APPROPRIATE U.L. ASSEMBLY DETAILS FOR EACH GIVEN RATING. FIRESTOPPING INSTALLATION SHALL BE PERFORMED BY A CERTIFIED FIRESTOPPING APPLICATOR WORKING WITHIN THE PLUMBING CONTRACT.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS AND PARTITIONS AND FOR PARTITION THICKNESS AND CONSTRUCTION MATERIALS.
- REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONED COLUMN AND STRUCTURE LOCATIONS.
- PRESSURE REDUCING VALVES SHALL BE SET TO ALLOW MAXIMUM OF 60 PSI IMMEDIATELY DOWNSTREAM OF EACH.
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL PAINTING. THE PLUMBING CONTRACTOR SHALL COVER AND PROTECT ALL PLUMBING CONTRACT EQUIPMENT, PANELS, CONTROLS, INSTRUMENTATION, MOTORS, SYSTEMS, AND COMPONENTS THAT MAY BE DAMAGED, OBLSCURED OR COVERED BY THE PAINTING ACTIVITIES OF THE GENERAL CONTRACTOR. UNPROTECTED ITEMS THAT MAY BECOME DAMAGED SHALL BE REPLACED, NOT REPAIRED, AT THE PLUMBING CONTRACTOR'S EXPENSE. PROTECTED ITEMS THAT BECOME DAMAGED BY THE GENERAL CONTRACTOR DURING THE PAINTING ACTIVITIES SHALL BE REPLACED, NOT REPAIRED, AT THE GENERAL CONTRACTOR'S EXPENSE.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING REPAIRS TO FINISHED SURFACES THAT MIGHT BE DAMAGED DURING CONSTRUCTION ASSOCIATED WITH PLUMBING WORK. THIS INCLUDES PATCHING AND REPAINTING TO MATCH FINISHED SURFACES WHERE WORK HAS BEEN COMPLETED.
- EQUIPMENT SELECTIONS SCHEDULED ON THE DRAWINGS AND IN THE SPECIFICATIONS INDICATE A MINIMUM LEVEL OF ACCEPTABLE PERFORMANCE. SUBSTITUTION OF EQUIPMENT AND MATERIAL SHALL BE MADE IN ACCORDANCE WITH ARTICLE 8 OF THE GENERAL CONDITIONS.
- ALL PIPE ELEVATIONS ARE TO BOTTOM OF PIPE (NOT INSULATION), UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LEADING AND ACHIEVING COORDINATION OF ALL TRADES, SO THAT ALL WORK WILL FIT AND CAN BE PROPERLY INSTALLED BY ALL OTHER TRADE CONTRACTORS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DETAILED INFORMATION FROM ALL TRADES TO SHOW LOCATIONS, SIZES AND COORDINATION ON COORDINATION OVERLAY SHEET DRAWINGS. MECHANICAL CONTRACTOR SHALL PREPARE COORDINATION OVERLAY DRAWINGS.
- ANY SUBDIVISIONS OF THE DRAWINGS OR SPECIFICATIONS ARE NOT INTENDED TO ESTABLISH SUBDIVISION OF THE WORK, SUCH AS LIMITS OF A SUBCONTRACTORS WORK OR TRADE JURISDICTION.
- AS AN INTEGRAL PART OF THE CONSTRUCTION PROCESS, THE PLUMBING CONTRACTOR SHALL IMPLEMENT COMPREHENSIVE COMMISSIONING SERVICES TO PROVIDE A COMPLETE AND FULLY FUNCTIONING INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE WARRANTIES FOR ALL WORK, EQUIPMENT, MATERIAL, AND DEVICES FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. EXTENDED WARRANTIES SHALL BE PROVIDED AS NOTED. DELIVERY DATES AND START-UP DATES SHALL NOT BE USED AS THE BASIS OF WARRANTY START PERIODS.
- ALL MATERIALS, EQUIPMENT, AND DEVICES SHALL AS A MINIMUM, COMPLY WITH THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
- ALL ITEMS SHALL BE NEW, UNLESS OTHERWISE NOTED. ALL MATERIALS, EQUIPMENT, AND DEVICES SHALL BE CURRENT PRODUCTS BY MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
- ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
- THE CONTRACTOR SHALL COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION. ALL FEES SHALL BE INCLUDED WITH THE BID.
- ALL ASPECTS OF THE WORK REQUIRED FOR THIS PROJECT SHALL COMPLY, AS A MINIMUM, WITH THE PROVISIONS OF ASHRAE 90.1 AND THE LATEST EDITION OF THE NORTH CAROLINA STATE PLUMBING CODE.

# SYMBOLS & ABBREVIATIONS

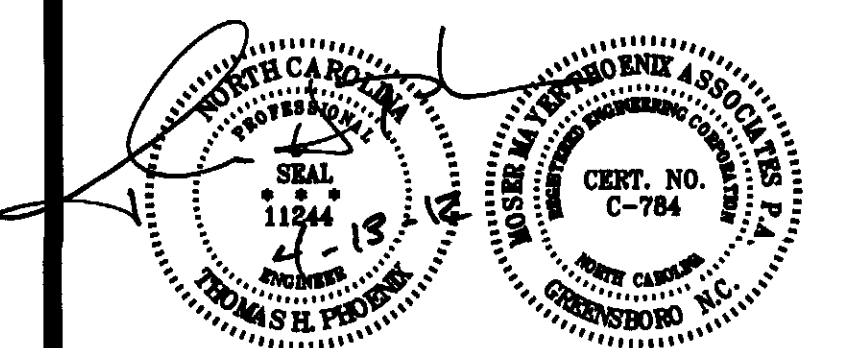


NORTH CAROLINA  
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On Roanoke Island  
**ROANOKE ISLAND AQUARIUM**  
**TURTLE REHABILITATION**  
**CENTER**

374 AIRPORT ROAD  
MANTEO, NORTH CAROLINA 27954

COMPLETE FACILITIES SOLUTIONS

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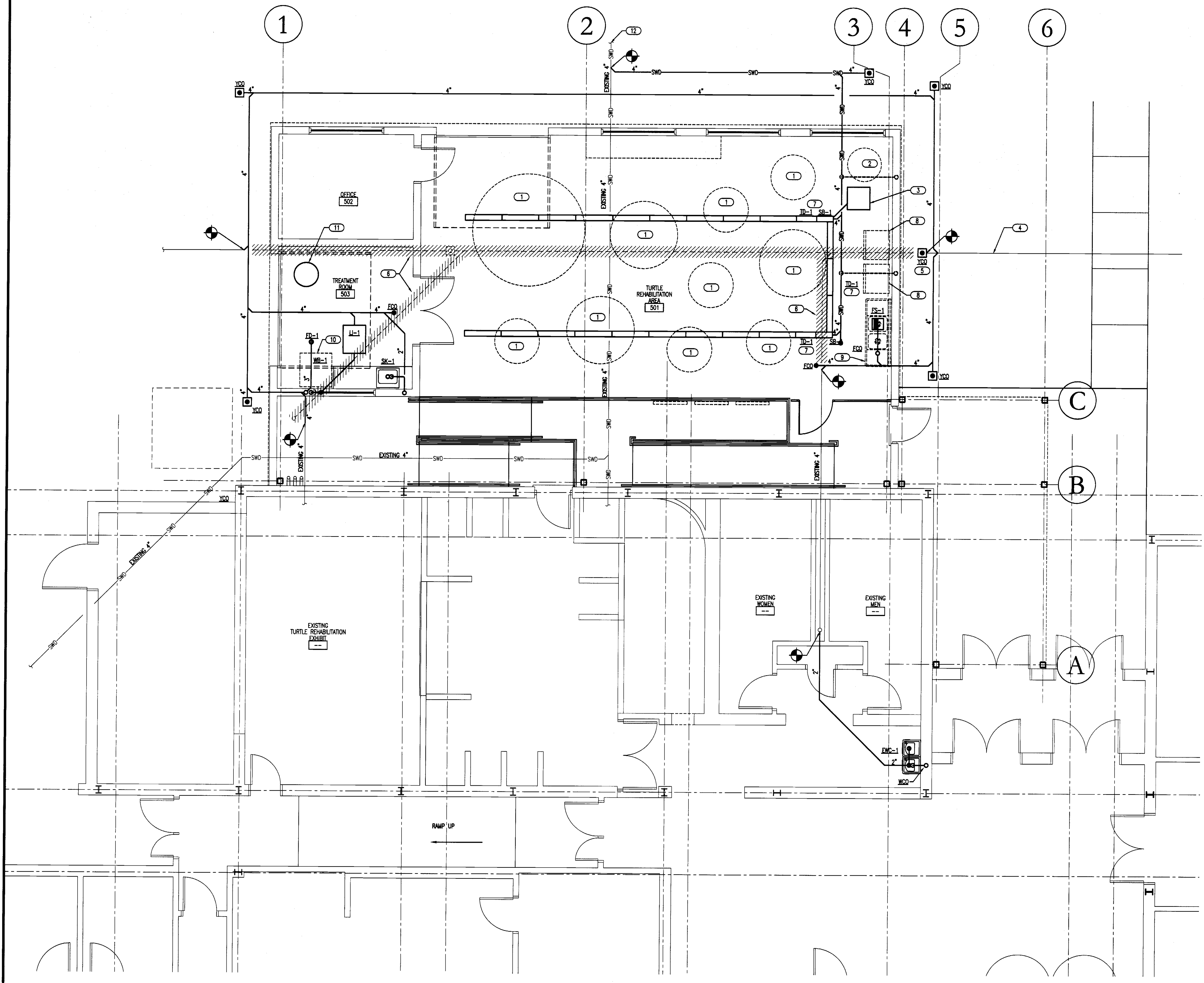
### REVISIONS

NO.	DATE	DESCRIPTION
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-	-	-
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DATE: 04-13-2012  
PROJECT NUMBER: 111007.01  
SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: THP

### PLUMBING SCHEDULES AND NOTES

# P0.1



1 SANITARY WASTE PLAN  
 P1.1 1/4" = 1'-0"

GENERAL NOTES:

- A. SITE CONTRACTOR SHALL PROVIDE REQUIRED DEMOLITION OF EXISTING SANITARY PIPING AND COORDINATE RE-ROUTING OF NEW SANITARY PIPING IN PREPARATION OF BUILDING ADDITION. P.C. SHALL COORDINATE EXISTING PLUMBING AS REQUIRED FOR THE INSTALLATION OF NEW FIXTURES.
- B. ABANDONED SANITARY PIPING NOT REQUIRED FOR NEW FIXTURES SHALL BE REMOVED AND CAPPED BACK TO WITHIN 24" OF MAIN DISTRIBUTION PIPING.
- C. NEW SANITARY CONNECTIONS SHALL BE CONNECTED TO AN EXISTING SANITARY BRANCH OF EQUAL OR GREATER SIZE AND IN RESPECT OF DIRECTION OF FLOW.
- D. VERIFY SIZE, LOCATION, INVERT AND DIRECTION OF FLOW OF EXISTING SANITARY TIE-IN POINTS PRIOR TO PERFORMING ANY WORK.
- E. COORDINATE ROUTING OF SANITARY PIPING WITH STRUCTURAL FOOTINGS AND STRUCTURAL MEMBERS PRIOR TO PERFORMING ANY WORK.
- F. REFER TO SHEET P2.1 FOR SANITARY WASTE AND VENT RISER DIAGRAM AND SIZING AND ROUTING OF VENT PIPING.

PLUMBING KEY NOTES:

- 1 NEW TURTLE HOLDING TANK BY OWNER
- 2 3 FT DIA. X 10 FT VERTICAL SALTWATER RECLAIM TANK BY OWNER
- 3 SLUMP PIT - SEE STRUCTURAL DRAWINGS. SLUMP PUMP AND ASSOCIATED FORCE MAIN PIPING FROM PUMP TO RECLAIM TANK BY OWNER. P.C. TO PROVIDE A 3" SLEEVE FROM TRENCH DRAIN TO SLUMP PIT FOR OWNER-SUPPLIED PIPING TO BE ROUTED INSIDE TRENCH DRAINS TO SLUMP PIT FOR USE BY OWNER-SUPPLIED RECLAIM SYSTEM.
- 4 EXISTING 4" SANITARY TO EXISTING SEPTIC TANK
- 5 PROVIDE NEW YARD CLEANOUT (YCO) AND CONNECT TO EXISTING SANITARY LINE OUTSIDE OF NEW TURTLE REHAB EXPANSION. INSTALL CLEANOUT FLUSH WITH GRADE AND SIZED TO MATCH EXISTING SANITARY PIPING.
- 6 SITE CONTRACTOR TO DEMO EXISTING SANITARY PIPING IN AREA OF NEW ADDITION
- 7 PROVIDE NEW TRENCH DRAIN AND SEDIMENT BUCKET - VERIFY LOCATION, DIRECTION OF FLOW, AND INVERT OF EXISTING SANITARY TIE-IN LOCATION PRIOR TO PERFORMING ANY WORK.
- 8 FREEZER AND REFRIGERATOR BY OWNER
- 9 TWO-COMPARTMENT SINK BY OWNER. PROVIDE NEW FLOOR SINK (FS-1) FOR FUTURE INDIRECT DRAIN CONNECTION FROM SINK. PROVIDE AN AIR ADMITTANCE VALVE EQUAL TO STUDOR "MINI-VENT" INSTALLED AT A MINIMUM OF 6" A.F.F.
- 10 STACKED WASHER/DRYER BY OWNER - WASHER DISCHARGE TO BE ROUTED THROUGH IN-FLOOR LINT INTERCEPTOR (LI-1) PRIOR TO DISCHARGING TO THE SEPTIC SYSTEM.
- 11 PROVIDE ELECTRIC WATER HEATER (EWH-1) ABOVE CEILING - SEE STRUCTURAL DRAWINGS FOR SUPPORT STRUCTURE. PROVIDE 1" DRAIN FROM EWH-1 AND ROUTE TO INDIRECTLY DRAIN TO WB-1 WITH A MINIMUM 2" AIR GAP.
- 12 EXISTING 4" SALTWATER DRAIN TO SOUND



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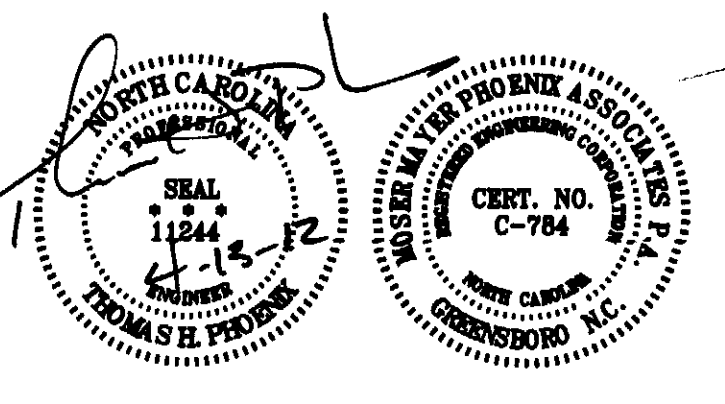
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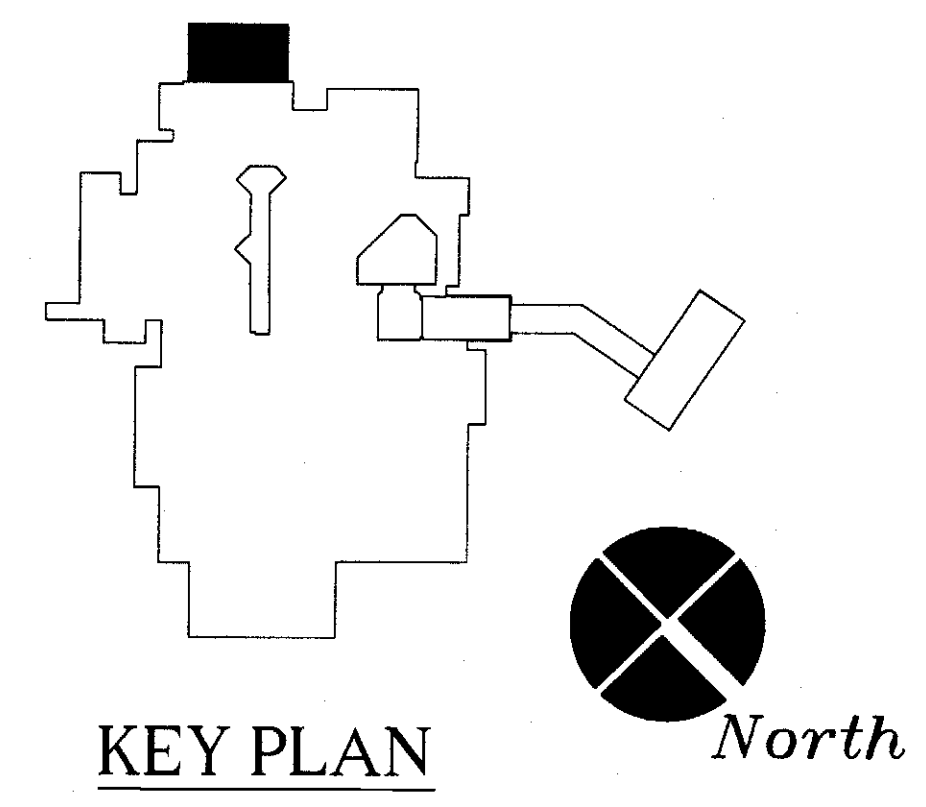


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REVISIONS		
NO.	DATE	DESCRIPTION

DATE	04-13-2012
PROJECT NUMBER	11007.01
SCALE	AS NOTED
DRAWN BY	RPD
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SANITARY WASTE  
 PLAN

**P1.1**

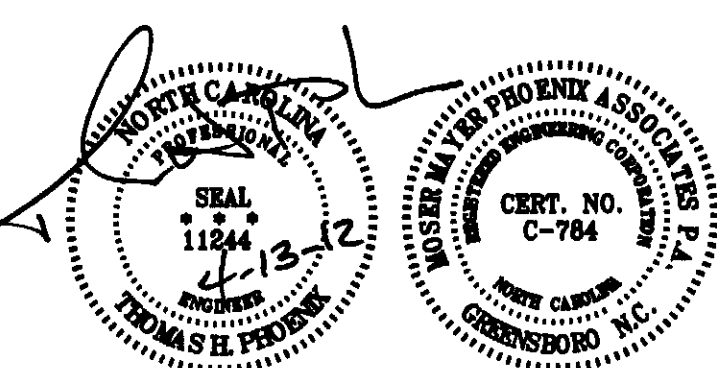


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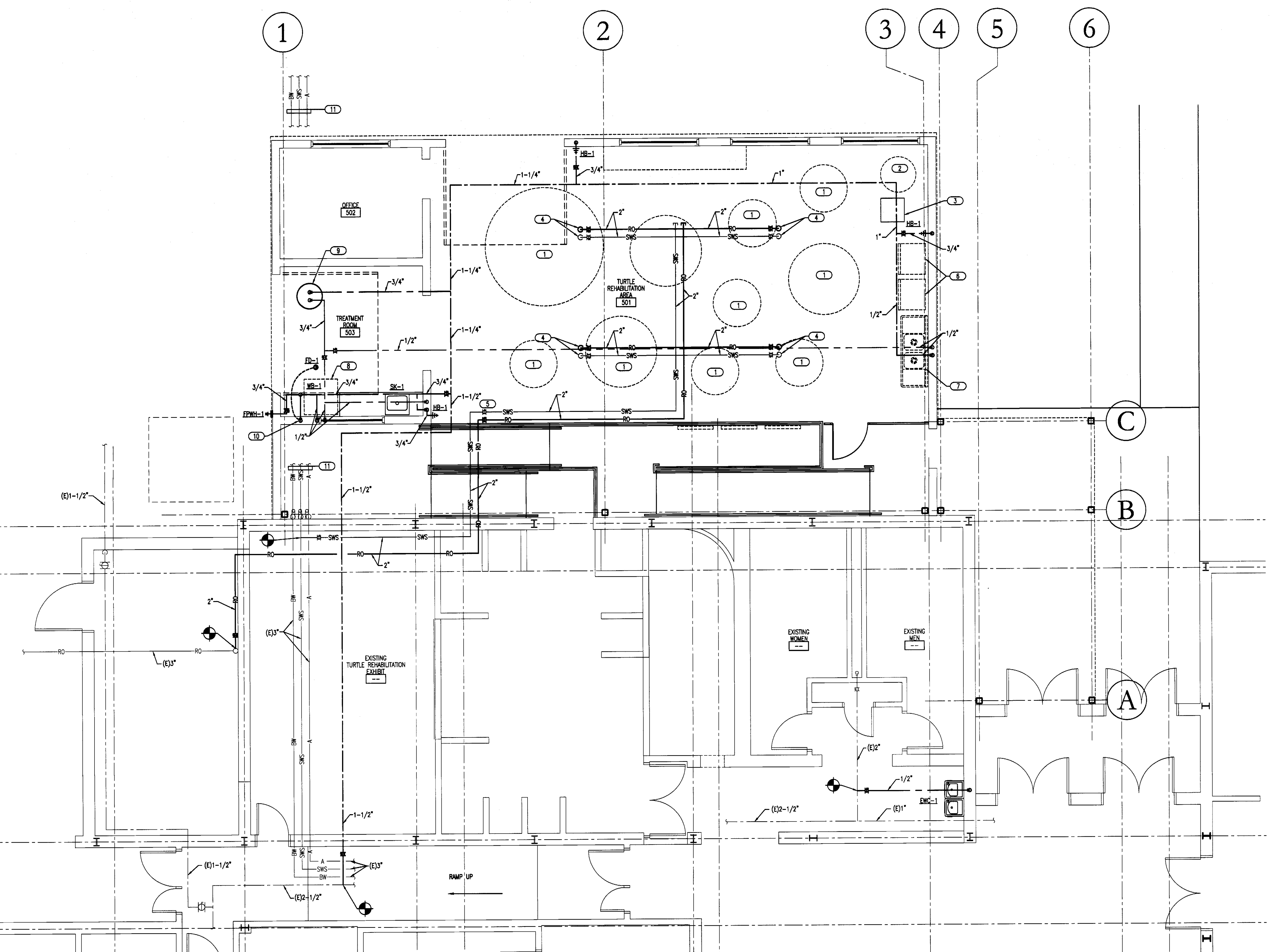
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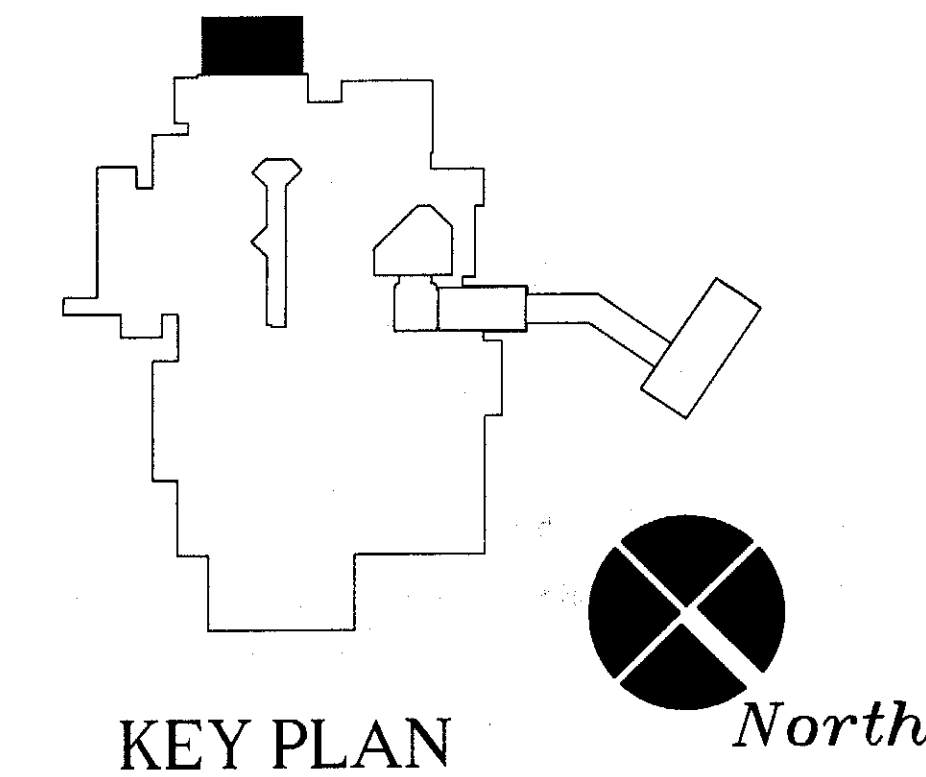
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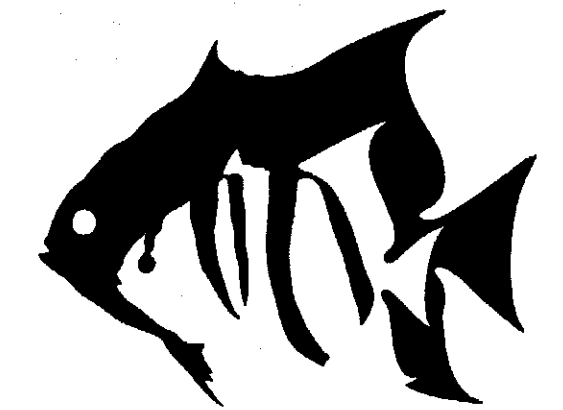
WATER SUPPLY  
PLAN  
  
P1.2

- GENERAL NOTES:  
A. FIELD VERIFY ALL TIE-IN LOCATIONS FOR WATER TYPE, SIZE AND LOCATION PRIOR TO PERFORMING ANY WORK.
- PLUMBING KEY NOTES:  
1 NEW TURTLE HOLDING TANK BY OWNER  
2 3 FT DIA X 10 FT VERTICAL SALTWATER RECLAIM TANK BY OWNER  
3 SLUMP PIT - SEE STRUCTURAL DRAWINGS. SLUMP PUMP AND ASSOCIATED FORCE MAIN PIPING FROM PUMP TO RECLAIM TANK BY OWNER.  
4 PROVIDE 2" SALTWATER SUPPLY AND 2" REVERSE OSMOSIS CONNECTIONS LOCATED AT BOTTOM OF ROOF TRUSS WITH SHUT-OFF VALVES AND ELBOW TURNED DOWN. PROVIDE 2" FEMALE TREADED FITTING FOR HOSE CONNECTION BY OWNER. VERIFY EXACT LOCATION WITH OWNER PRIOR TO PERFORMING ANY WORK.  
5 PROVIDE MAIN SHUT-OFF VALVES FOR SWS AND RO PIPING INTO TURTLE REHAB ADDITION - COORDINATE EXACT LOCATION WITH OWNER PRIOR TO PERFORMING ANY WORK.  
6 FREEZER AND REFRIGERATOR BY OWNER  
7 TWO-COMPARTMENT SINK BY OWNER. PROVIDE 1/2" CW & 1/2" HW SUPPLY ROUGH-INS WITH SUPPLIES AND STOPS FOR FUTURE CONNECTION BY OWNER.  
8 STACKED WASHER/DRYER BY OWNER  
9 PROVIDE ELECTRIC WATER HEATER (EWH-1) ABOVE CEILING - SEE STRUCTURAL DRAWINGS FOR SUPPORT STRUCTURE.  
10 PROVIDE TRAP PRIMER IN AN ACCESSIBLE LOCATION  
11 APPROXIMATE LOCATION OF EXISTING 3" SW, 3" SWS AND 3" AIR BELOW GRADE



1 WATER SUPPLY PLAN  
P1.2 1/4" = 1'-0"





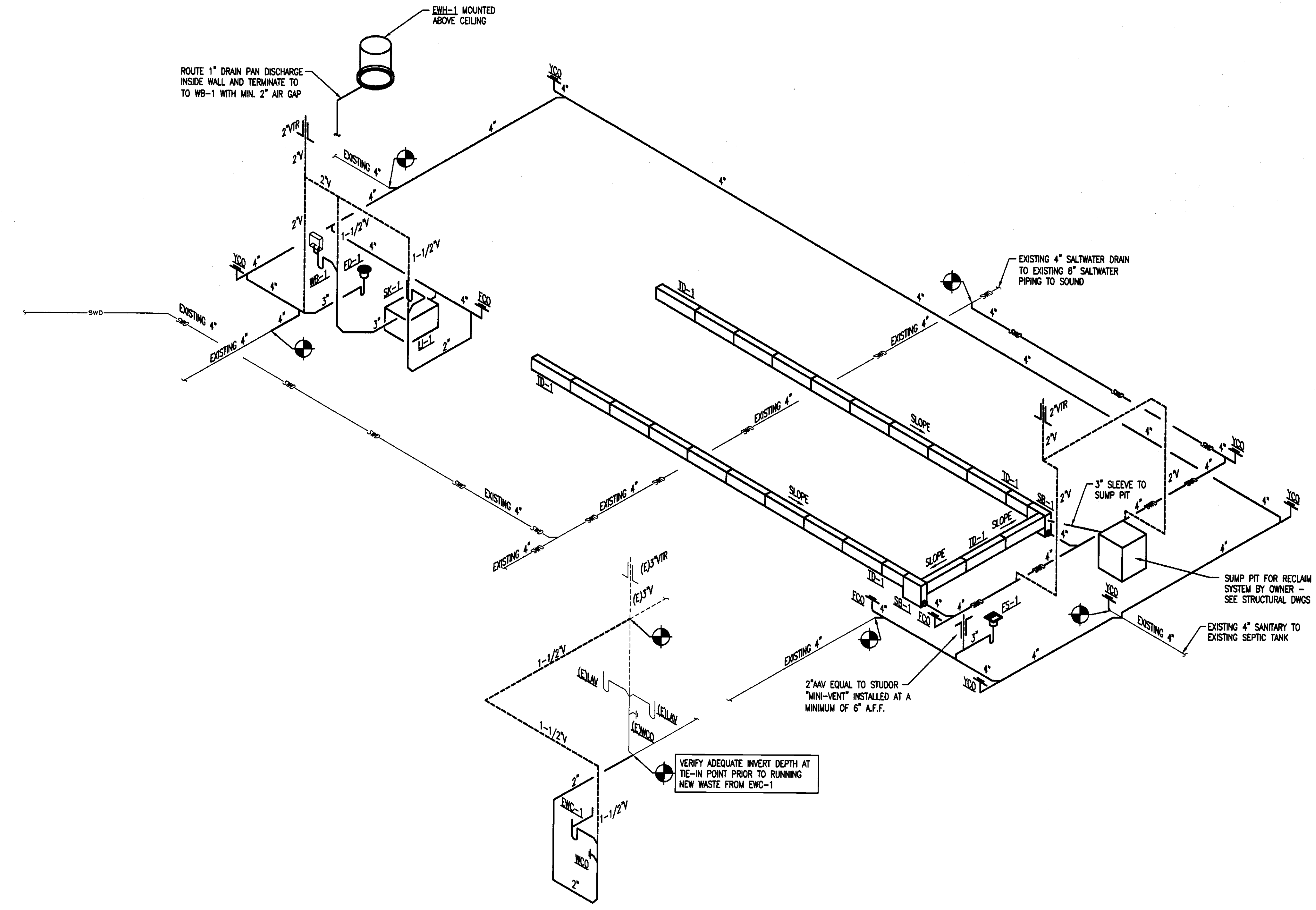
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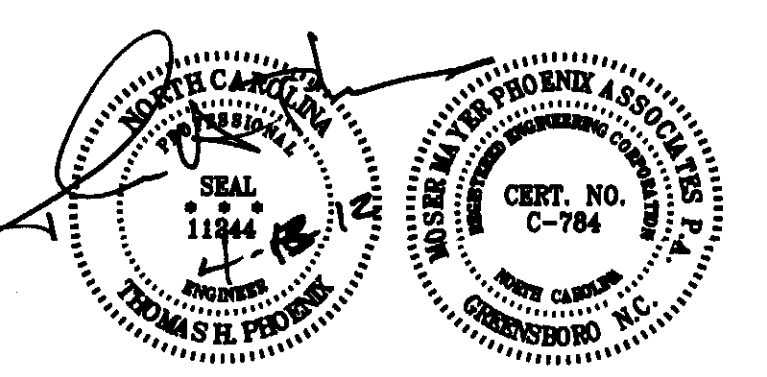
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**1**  
SANITARY WASTE AND VENT RISER  
P2.1  
NTS



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**PLUMBING RISERS**

**P2.1**