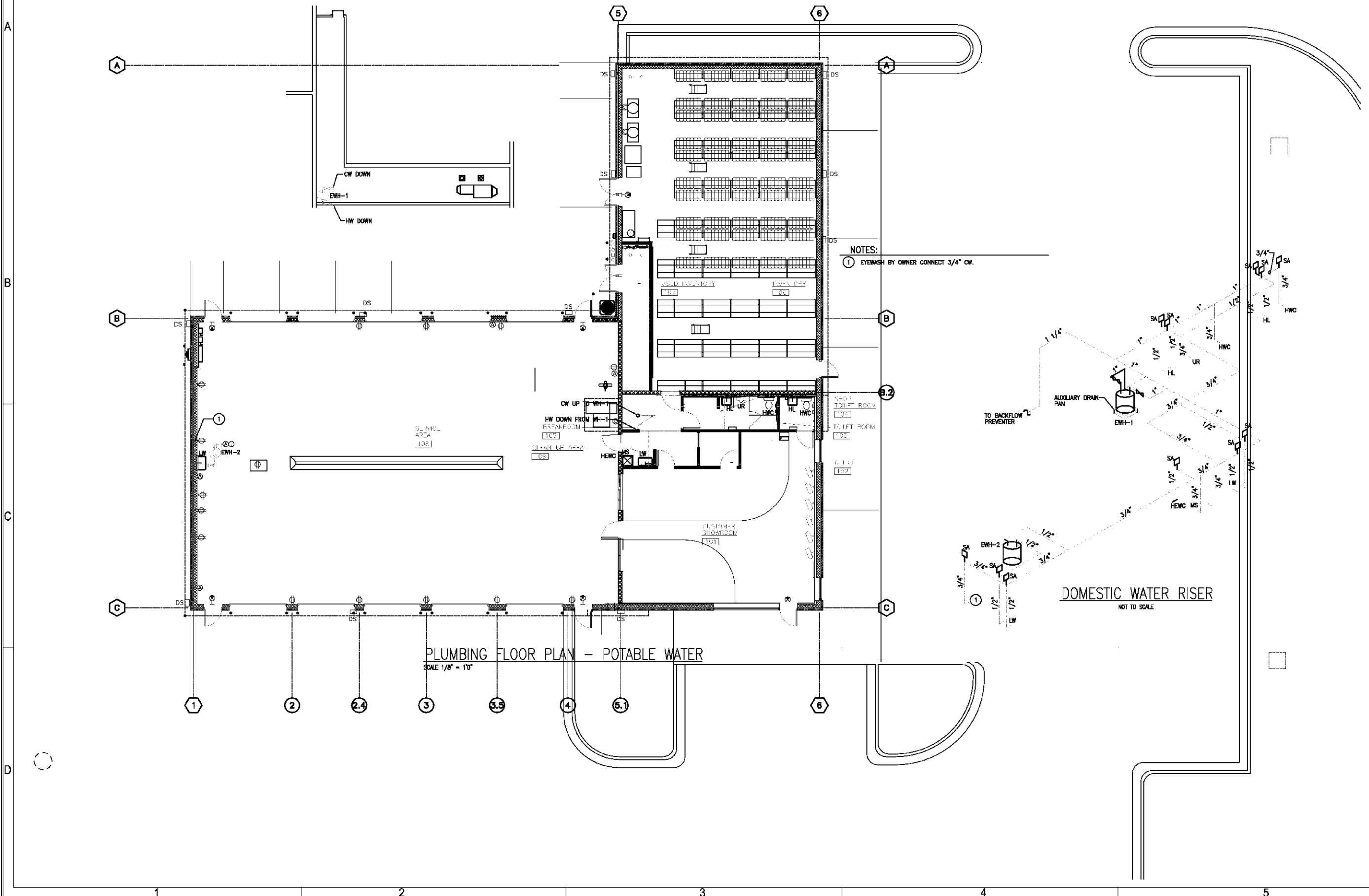


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PROJECT NO.	0423
DATE	
SCALE	
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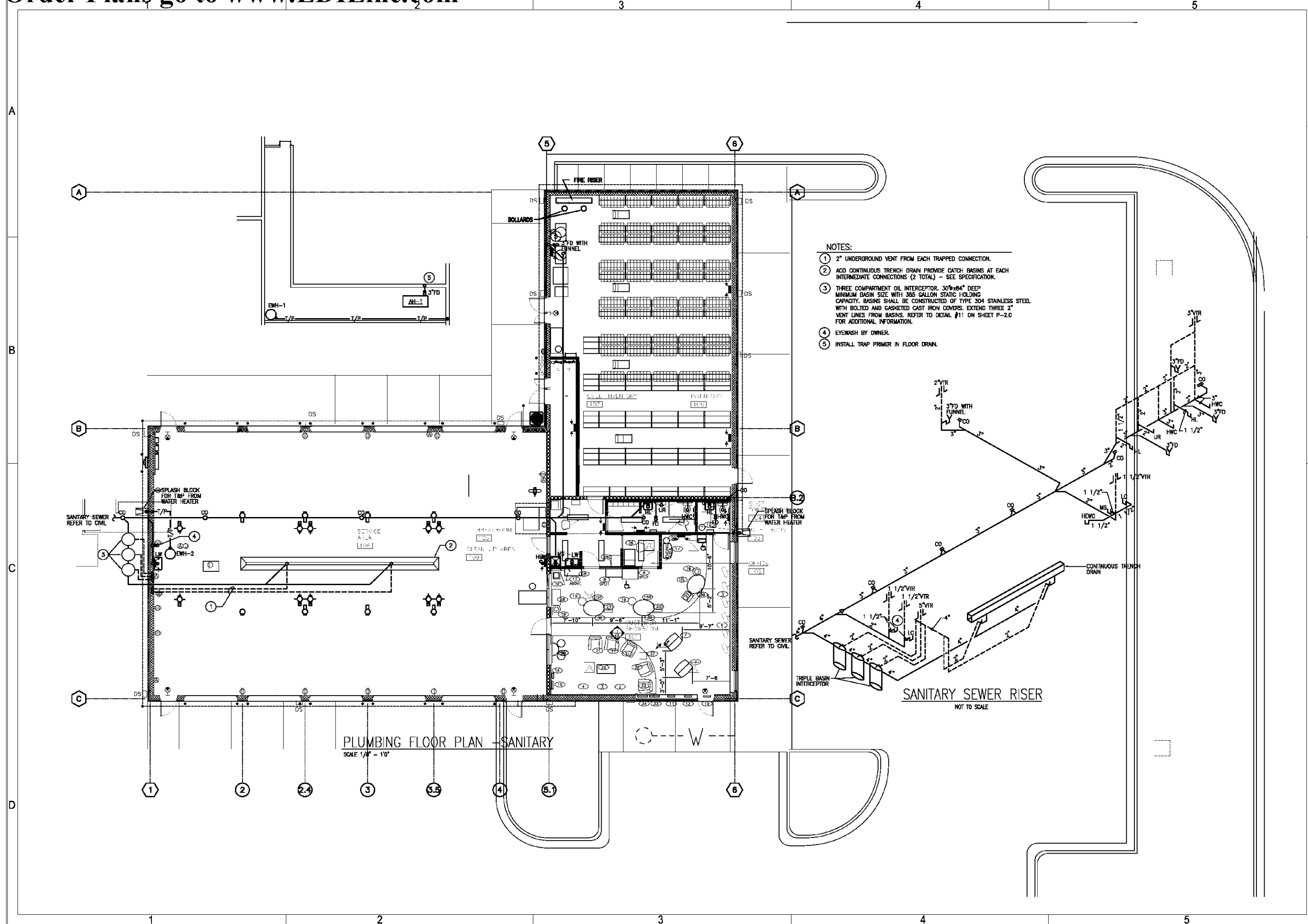
PROJECT	RE-F
PROJECT	ARMY & AIR FORCE EXCHANGE SERVICE DEPARTMENTS OF THE ARMY & AIR FORCE
PROJECT	FIRESTONE CAR CARE CENTER
PROJECT	FT. JACKSON, SC

PROJECT	PLUMBING SUPPLY PLAN
DATE	06.28.07
SCALE	NOTED
PROJECT NO.	0632-03-00012
PROJECT NO.	P1.1



PLUMBING FLOOR PLAN - POTABLE WATER  
SCALE 1/8" = 1'-0"

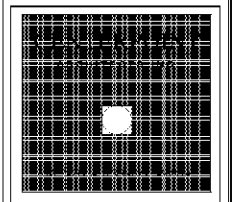
DOMESTIC WATER RISER  
NOT TO SCALE



- NOTES:**
- ① 2" UNDERGROUND VENT FROM EACH TRAPPED CONNECTION.
  - ② ADD CONTINUOUS TRENCH DRAIN PROVIDE CATCH BASINS AT EACH INTERMEDIATE CONNECTIONS (2 TOTAL) - SEE SPECIFICATION.
  - ③ THREE COMPARTMENT OIL INTERCEPTOR, 30"x84" DEEP MINIMUM BASIN SIZE WITH 385 GALLON STATIC HOLDING CAPACITY. BASINS SHALL BE CONSTRUCTED OF TYPE 304 STAINLESS STEEL WITH BOLTED AND GASKETED CAST IRON COVERS. EXTEND THREE 2" VENT LINES FROM BASINS. REFER TO DETAIL #11 ON SHEET P-2.0 FOR ADDITIONAL INFORMATION.
  - ④ EYEWASH BY OWNER.
  - ⑤ INSTALL TRAP PRIMER IN FLOOR DRAIN.

PLUMBING FLOOR PLAN - SANITARY  
SCALE 1/4" = 1'-0"

SANITARY SEWER RISER  
NOT TO SCALE



DATE	DESCRIPTION	BY
06/28/07	TECHNICAL APPROVAL	NOTED
06/28/07	DATE OF A.P.P.M.	NOTED

DRAWN BY	DATE
0423	
CHECKED BY	DATE
COORDINATION	DATE
THROWING	DATE
REVISION	DATE

**RE-F**

ARMY & AIR FORCE EXCHANGE SERVICE  
DEPARTMENTS OF THE ARMY & AIR FORCE

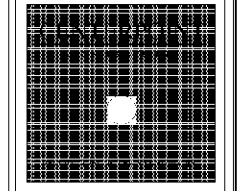
PROJECT  
FIRESTONE CAR CARE CENTER

FT. JACKSON, SC

**PLUMBING FLOOR PLAN - SANITARY**

DATE	REVISION	NOTED
06.28.07	NOTED	
0632-03-000012		

0632-03-000012  
P1.2



DATE	BY	TY
06.28.07	NOTED	SKW
06.28.07	06.28.07	SKW

PROJECT	DATE
RE-F	0423
DESIGNER	DATE
PROJECT MANAGER	DATE
APPROVED	DATE

PROJECT	DATE
RE-F	0423
DESIGNER	DATE
PROJECT MANAGER	DATE
APPROVED	DATE

PROJECT	DATE
RE-F	0423
DESIGNER	DATE
PROJECT MANAGER	DATE
APPROVED	DATE



RE-F

ARMY & AIR FORCE EXCHANGE SERVICE  
DEPARTMENTS OF THE ARMY & AIR FORCE

PROJECT:  
FIRESTONE CAR CARE CENTER

FT. JACKSON, SC

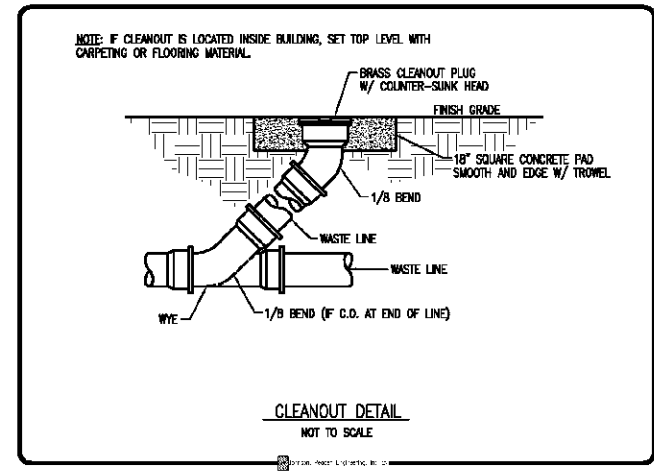
PLUMBING DETAILS,  
LEGEND & NOTES

DATE	NO.	REVISION
06.28.07	NOTED	
0632-03-000012		

P2.0

PLUMBING DETAIL NOTES

- THESE GENERAL NOTES APPLY TO ALL WORK IN THIS PROJECT.
- REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL GENERAL NOTES WHICH WILL ALL APPLY HERE.
- DO NOT SCALE DRAWINGS, USE FIELD MEASUREMENTS.
- NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
- THE DRAWINGS AND DIAGRAMS SHALL BE TAKEN IN A SENSE AS DIAGRAMMATIC MEANS OF RUNNING PIPING AS SHOWN, BUT IT IS NOT INTENDED TO SHOW EVERY FITTING AND OFFSET, NOR EVERY STRUCTURAL, ELECTRICAL, PIPING, OR DUCTWORK DIFFICULTY THAT CAN BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK.
- PAINT ALL NEW EXPOSED PIPING IN FINISHED SPACES AND ASSOCIATED COMPONENTS. COLOR AS SELECTED BY OWNER.
- CONSULT ARCHITECTURAL, FIRE PROTECTION, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE PLANS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, CONDUIT, AND EQUIPMENT. EXAMINE THE DRAWINGS AND SPECIFICATIONS VERY CAREFULLY AND NOTIFY THE ARCHITECT BY LETTER OF ANY DISCREPANCIES SO THE SAME CAN BE RECTIFIED AT ANY EARLY DATE. CONTRACTOR SHALL FOLLOW THE MECHANICAL PLANS AS CLOSELY AS POSSIBLE FOR THE INSTALLATION OF PIPING AND EQUIPMENT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL FEATURES OF THE BUILDING.
- SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENT OR IF PIPING OR DUCTWORK CAN BE RUN TO BETTER ADVANTAGE, THE CONTRACTOR SHALL PREPARE AND SUBMIT DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED, THEY SHALL BECOME A PART OF THIS CONTRACT AFTER THEIR APPROVAL.
- DRAWINGS ARE DIMENSIONED FOR SPECIFIED EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY MODIFICATIONS TO DUCTWORK, PIPING, ELECTRICAL LINES, LIGHTING, OUTLETS OR ANY ARCHITECTURAL FEATURES SUCH AS CEILINGS, DOORWAYS, ETC. REQUIRED TO ANY EQUIPMENT APPROVED AS EQUAL BY ARCHITECT/ENGINEER.
- INSTALL GATE VALVE, ON EACH SUPPLY BRANCH.
- PROVIDE ACCESS PANELS IN CEILINGS AT ALL VALVES, AND OTHER EQUIPMENT INSTALLED ABOVE CEILINGS.
- ALL SUPPLY PIPING SHALL BE INSULATED.
- EACH TRADE SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, PATCHING, FIRE SAFING, EXCAVATION, CONCRETE PADS, ETC.



**WATER HEATER - EWH-1**  
A.O. SMITH MODEL ELSF-15 15-GALLON NOMINAL CAPACITY 1.5 KW MAXIMUM INPUT, 10 GALLON PER HOUR RECOVERY RATE @80F TEMPERATURE RISE. PROVIDE WITH ALL OPERATING CONTROLS, DISCONNECT SWITCH, HEATING ELEMENT LIMIT SWITCH AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. 120V/60/1 PHASE. PROVIDE ASME RATED PRV RELIEF VALVE RATED FOR 100% OF HEATER CAPACITY. RUN FULL SIZED DRAIN TO MOP BASIN MS-1

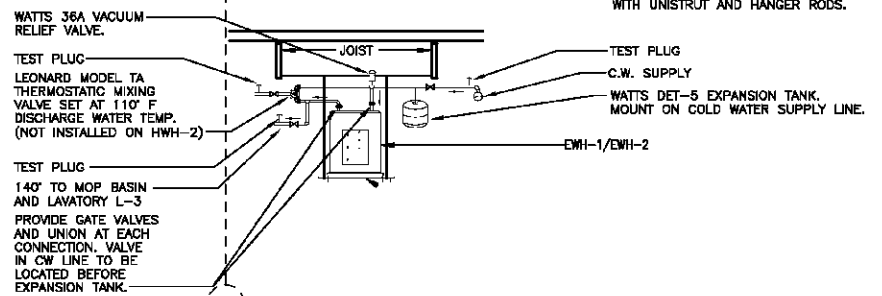
PROVIDE MOLDED DRAIN PAN WITH INTEGRAL DRAIN UNDER HOT WATER HEATER. RUN 3/4" LINE FROM PAN DOWN IN WALL AND OUT TO SPILL TO MOP BASIN MS-1

LOCATE WATER HEATER #1 ON DRAIN PAN ON FINISH FLOOR OF UTILITY PLATFORM.

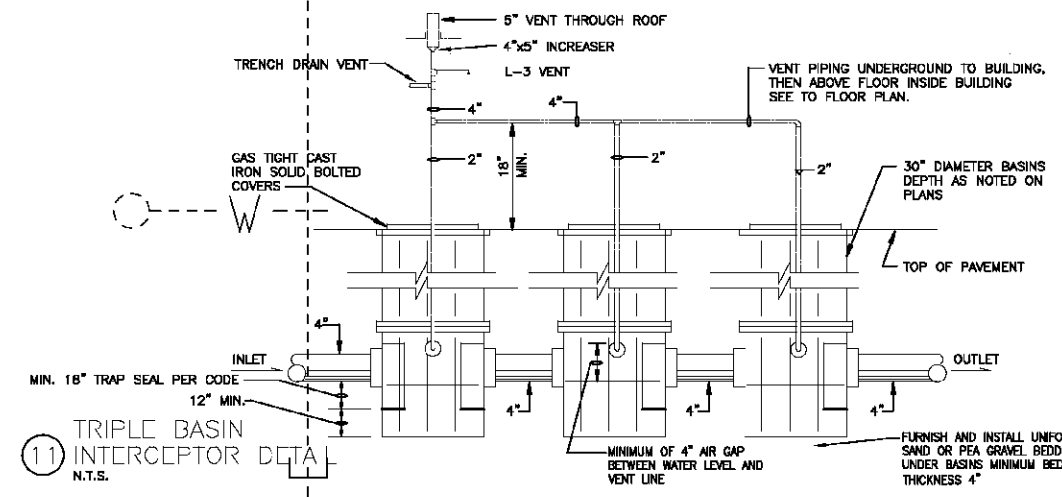
**WATER HEATER - EWH-2**  
A.O. SMITH MODEL ELSF-10 10-GALLON NOMINAL CAPACITY 1.5 KW MAXIMUM INPUT, 10 GALLON PER HOUR RECOVERY RATE @80F TEMPERATURE RISE. PROVIDE WITH ALL OPERATING CONTROLS, DISCONNECT SWITCH, HEATING ELEMENT LIMIT SWITCH AND ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. 120V/60/1 PHASE. PROVIDE ASME RATED PRV RELIEF VALVE RATED FOR 100% OF HEATER CAPACITY. RUN FULL SIZED DRAIN LINE DOWN WALL TO LAVATORY L-3

PROVIDE MOLDED DRAIN PAN WITH INTEGRAL DRAIN UNDER HOT WATER HEATER. RUN 3/4" LINE FROM PAN DOWN WALL TO SPILL TO LAVATORY L-3.

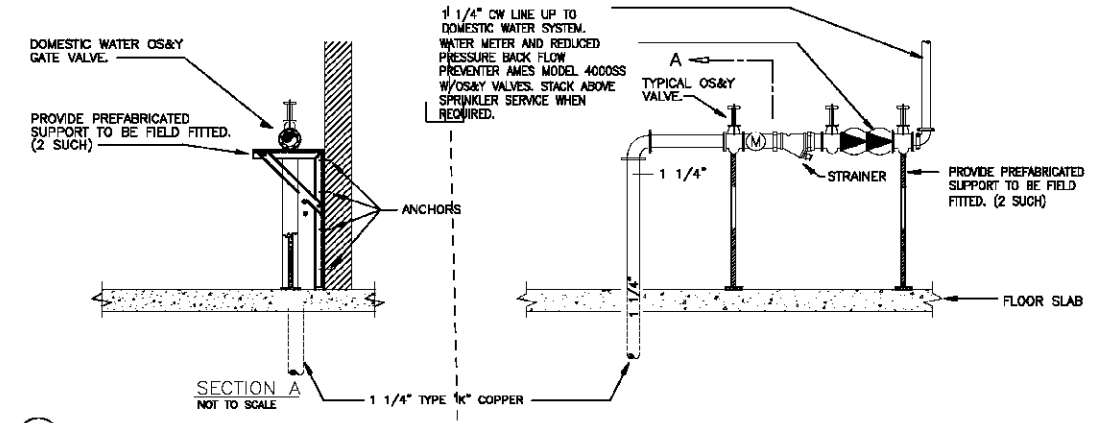
MOUNT PAN AND WATER HEATER #2 ATOP (2) 3"x1.5" DEEP STEEL CHANNELS SUSPENDED FROM BOTTOM CHORD OF TRUSS WITH UNISTRUT AND HANGER RODS.



⑥ ELECTRIC HOT WATER HEATER SECTION  
N.T.S.



⑪ TRIPLE BASIN INTERCEPTOR DETAIL  
N.T.S.



① WATER SERVICE DIAGRAM  
N.T.S.

**PLUMBING LEGEND**

---	SOIL OR WASTE LINE	
----	VENT	
---	COLD WATER (CW)	
----	HOT WATER (HW)	
----	110F HOT WATER	
----	140F HOT WATER	
---	CW	COLD WATER (EXTERIOR)
---	G	GAS LINE
---	RL	RAIN LEADER
---	GW	GREASY WASTE
---	CV	CHECK VALVE
---	GR	GAS PRESSURE REGULATOR
---	GSV	GAS SERVICE VALVE
---	GV	GATE VALVE
---	T & P	T & P RELIEF VALVE
---	WC	WALL CLEANOUT
---	FC	FLOOR CLEANOUT
---	SA	SHOCK ABSORBER
---	VR	VENT THRU ROOF

**GENERAL PLUMBING NOTES**

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
- ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCE WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
- ROUGH-INS SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. IF UNSATISFACTORY CONDITIONS EXIST, NOTIFY THE ARCHITECT IMMEDIATELY.
- THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACE(S) PROVIDED. NOTIFY THE ARCHITECT OF ALL NECESSARY DEVIATIONS.
- IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME. WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
- ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE (CIP) 310-78 STANDARD WEIGHT WITH SPOOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CIPSI 310 STAINLESS STEEL, SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2865 WHERE ALLOWED BY CODE.
- ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE ROOFING MATERIAL AND COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
- PROVIDE CLEANOUTS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUTS SHALL BE IN ACCESSIBLE LOCATIONS.
- INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4" THICK FLEXIBLE CLOSED-CELL POLYETHYLENE INSULATION. SEAL ALL JOINTS AND SEAMS AND INSULATE FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
- INSTALL SHOCK ABSORBERS VERTICALLY AT EACH FIXTURE. OFFSET AS NEEDED TO GAIN A MINIMUM HEIGHT OF 18" FOR ALL SHOCK ABSORBERS. ALL SHOCK ABSORBERS SHALL BE A MINIMUM OF ONE PIPE SIZE LARGER THAN THE BRANCH BEING SERVED.
- PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS IN FINISHED AREAS AND UNDER LAVATORIES. PROVIDE STOPS AND TRAPS FOR ALL FIXTURES.
- LEAK TEST WATER PIPING, FOR NOT LESS THAN 90 MINUTES AT 100 PSI. FILL SANITARY SEWER SYSTEM TO A MINIMUM HEIGHT OF TEN FEET AND LET STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE. AFTER PRESSURE TESTS HAVE BEEN MADE, THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED, AND STERILIZE THE STERILIZING MATERIAL SHALL BE EITHER LIQUID CHLORINE CONFORMING TO THE FED. SPEC. BB-C-120, OR HYPOCHLORITE CONFORMING TO FED. SPEC. O-C-114, OR FED. SPEC. O-S-802M. THE CHLORINATING AGENT SHALL PROVIDE A MINIMUM DOSAGE OF 50 PPM AND SHALL BE RETAINED IN THE SYSTEM FOR A THE SYSTEM WILL THEN BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS REDUCED TO LESS THAN 1.0 PPM. HAVE THREE STATE-APPROVED INDEPENDENT TESTING FACILITIES TAKE SAMPLES AND DELIVER CERTIFICATES OF APPROVAL TO THE OWNER. ANY NEGATIVE RESULTS MUST BE INVESTIGATED, AND IF NECESSARY CORRECTED, BEFORE THE BUILDING MAY BE ACCEPTED.

**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE	SW. SERV.	C.W.	H.W.
HWC	WATER CLOSET, FLOOR, TANK TYPE, ADA COMPLIANT	3"	1/2"	-
UR	URINAL, WALL HUNG, I.D. GPF, ADA COMPLIANT	2"	3/4"	-
LW	LAVATORY, WALL HUNG	1 1/4"	1/2"	1/2"
HL	LAVATORY, WALL HUNG, ADA COMPLIANT	1 1/4"	1/2"	1/2"
FD	FLOOR DRAIN WITH TRAP PRIMER	ON DWG	1/2"	-
MS	MANITOR'S SINK	2"	1/2"	1/2"
HWC	ELECTRIC WATER COOLER, ADA COMPLIANT	1 1/4"	1/2"	-

A  
B  
C  
D