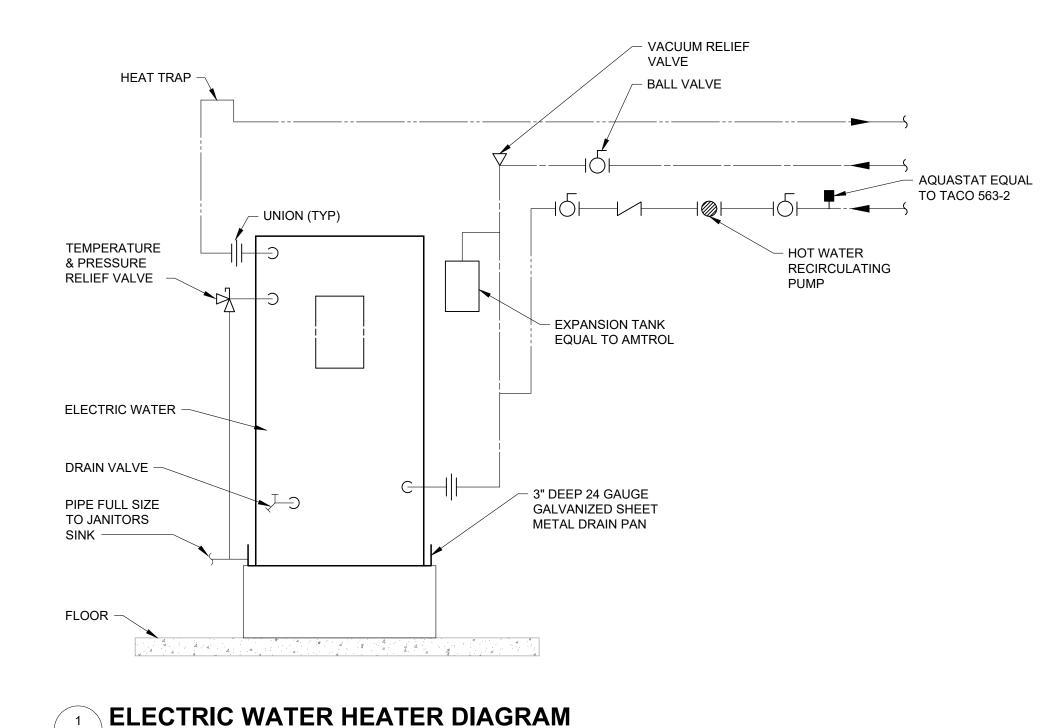


#### **IN-LINE CIRCULATING PUMP DETAIL** P0.1 NOT TO SCALE



WITH RECIRC. PUMP

ITEM	DESCRIPTION	WASTE	TRAP	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET	4"	INTEG	2"	1"	-	WL HG FL VLV 1.6 GAL
WC-2	WATER CLOSET	4"	INTEG	2"	1"	-	WL HG FL VLV ADA 1.6 GAL
UR-1	URINAL	2"	INTEG	1-1/2"	3/4"	-	WL HG 0.125 GAL ADA
L-1	LAVATORY	2"	1-1/4"	1-1/2"	1/2"	1/2"	CTR
L-2	LAVATORY	2"	1-1/4"	1-1/2"	1/2"	1/2"	WL HG ADA
S-1	SINK - SINGLE	2"	1-1/2"	1-1/2"	1/2"	1/2"	SS
US-1	LAUNDRY SINK	2"	1-1/2"	1-1/2"	1/2"	1/2"	-
JS-1	JANITOR SINK	3"	3"	1-1/2"	3/4"	3/4"	FLR MTD
EWC-1	ELEC. WATER COOLER	2"	1-1/4"	1-1/2"	1/2"	-	WALL HUNG DOUBLE ADA
BBREVIA	ATIONS						
CTR FLR HG	COUNTERTOP FLOOR HUNG		GAL GALI	NTED LONS NLESS STE	EL		WL WALL TK TANK
FL VLV	FLUSH VALVE	4		RICAN DISA PLIANT	BILITIES AC	Т	

MARK	EWH-1
MANUFACTURER	A.O. SMITH
MODEL	PXHS 40
STORAGE CAPACITY (GAL)	40
RECOVERY (GPH)	20 @ 80°R
UNIT SIZE	47"H x 23" DIA.
ENERGY-EFFICIENCY	95%
OPERATIONAL WEIGHT (LBS)	458
KW INPUT	4.5
VOLTAGE/PHASE	208V/1
NOTES	

HOT WATER RECIR	C. PUMP SCHEDULE
MARK	HWRP-1
MANUFACTURER	ARMSTRONG
MODEL	H-32
VOLTAGE/H.P.	120/ 1/6
PHASE	1
RPM	1750
CAPACITY (GPM)	10
TOTAL HEAD (FEET)	10

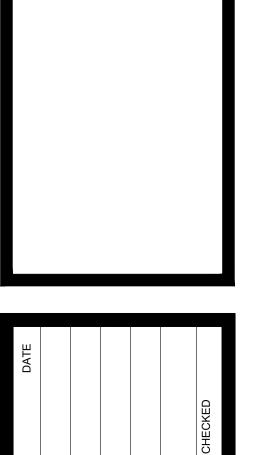
HOCK ARRE	STOR SCHEDULE
P.D.I. SIZE	FIXTURE UNITS
'SA-A'	1-11
'SA-B'	12-32
'SA-C'	33-60
'SA-D'	61-113
'SA-E'	114-154
'SA-F'	155-330

SYMBOL/ABBREV.	DESCRIPTION
	- SANITARY PIPING
GR	- GREASE WASTE PIPING
	- VENT PIPING
	- RAINWATER PIPING
	- DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRCULATING PIPING
G	- NATURAL GAS PIPING
A	COMPRESSED AIR PIPING
<b>©</b> c	- FLOOR DRAIN
©G	HUB DRAIN
	- FLOOR SINK
	- PIPING TEE UP
<del></del>	PIPING TEE DOWN
0	PIPING ELL UP
0	PIPING ELL DOWN
$\longrightarrow$	- GATE VALVE
<del></del>	- BALL VALVE
$\oslash$	FLOOR CLEANOUT
	EXTERIOR CLEANOUT
11-0-	- WALL CLEANOUT
<u> </u>	- VALVE IN VERTICAL PIPE
•	POINT OF CONNECTION
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CONT	CONTINUATION
CW	COLD WATER (POTABLE)
DW	DISHWASHER
EWC	ELECTRIC WATER COOLER
FD FCO	FLOOR DRAIN FLOOR CLEAN OUT
GWH	GAS WATER HEATER
НВ	HOSE BIBB
HWRP	HOT WATER RECIRC. PUMP
JS	JANITOR SINK
L	LAVATORY
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
SA	SHOCK ARRESTOR
UNO	UNLESS NOTED OTHERWISE
WC	WATER CLOSET
WH	WALL HYDRANT
WB	WASHER BOX

### **GENERAL NOTES**

- 1. FIELD VERIFY ALL MEASUREMENTS PRIOR TO LAYING AND CONNECTING ANY PIPING, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 2. PROVIDE SHOCK ARRESTORS FOR PREVENTING WATER HAMMER AT EACH BATTERY OF FIXTURES ON THE COLD AND HOT WATER SUPPLIES. PROVIDE SHOCK ARRESTORS AT ISOLATED PLUMBING FIXTURES. SHOCK ARRESTORS SHALL BE FACTORY FABRICATED AND LOCATED FULLY ACCESSIBLE. SHOCK ARRESTORS SHALL BE SIZED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. AIR CHAMBERS ARE NOT ACCEPTABLE.
- 3. MAINTAIN FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING PENETRATIONS.
- 4. ROUTE ALL PIPING ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED.
- 5. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 6. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURE MOUNTING HEIGHTS AND DIMENSIONS. DO NOT SCALE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW GENERAL ROUTING.
- 7. VERIFY ELEVATIONS OF SEWER PIPING TO WHICH NEW SEWERS ARE TO BE CONNECTED PRIOR TO INSTALLATION OF ANY PIPING.
- 8. PROVIDE DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- 9. PROVIDE 3/8" CW SUPPLY WITH RECESSED VALVE BOX, STOP VALVE, AND FLEXIBLE COPPER SUPPLY TUBE TO REFRIGERATORS. COORDINATE HEIGHT OF WATER CONNECTION WITH REFRIGERATOR SUPPLIER.





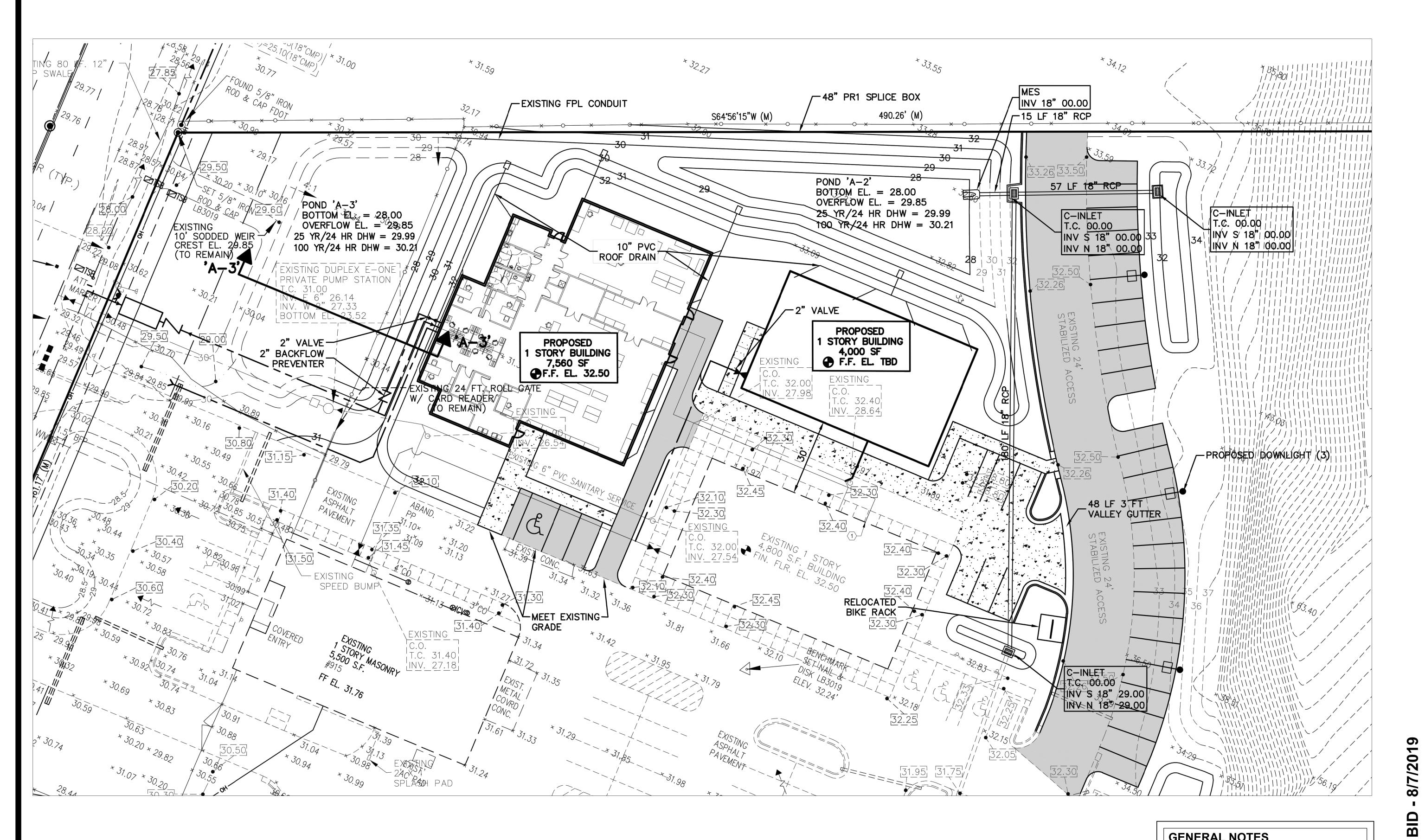
**PLUMBING** 

GENERAL RIDDLE NEW PF /201 8/7

BID OR

### **REFERENCE NOTES**

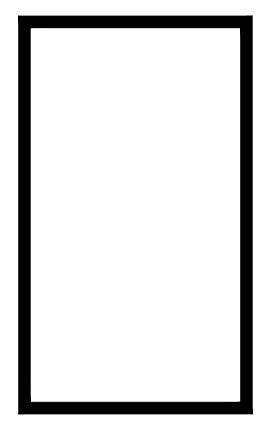
CONNECT NEW 1/2" COMPRESSED AIR PIPING INTO EXISTING AIR LINE AT EXISTING AIR COMPRESSOR FIELD VERIFY EXACT LOCATION.

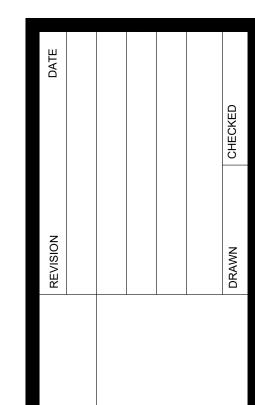


## **GENERAL NOTES**

COMPRESS AIR PIPING UNDERGROUND PIPING SHALL BE PVC ASTM D1785, SCHEDULE 40 WITH ASTM D2644, SCHEDULE 40, SOCKET TYPE FITTING.



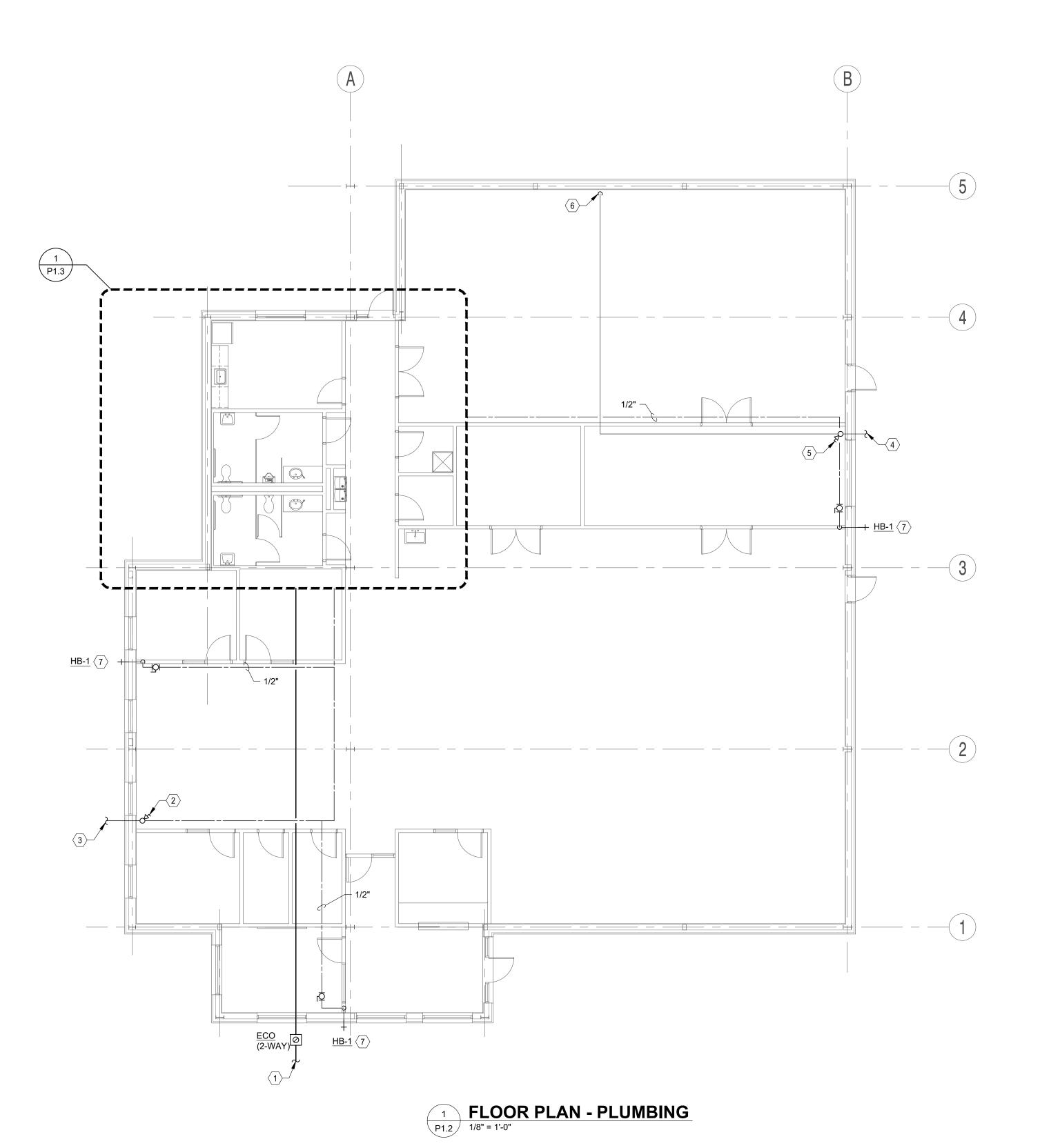




RIDDLE AERONAUTICAL UNIV NEW PRINT SHOP BUILDING

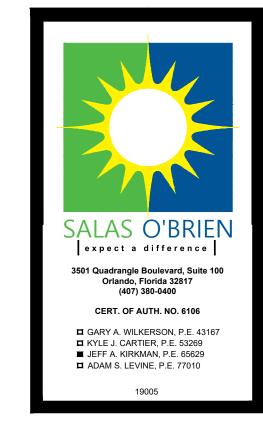
-UMBING

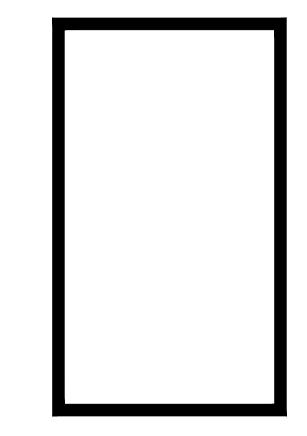
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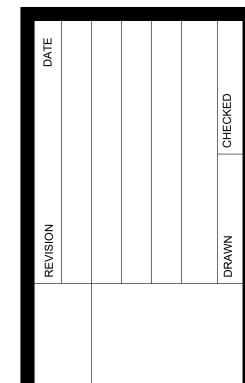


### REFERENCE NOTES

- 4" SANITARY LINE. FOR CONTINUATION REFER TO CIVIL DRAWINGS. LEAVING INVERT AT -2'-6" BFF.
- 2 2" COLD WATER UP FROM BELOW GRADE. PROVIDE BALL VALVE IN RISER AT 4'-0" AFF.
- (3) 2" COLD WATER LINE FOR CONTINUATION REFER TO CIVIL DRAWINGS.
- 4 1/2" COMPRESSED AIR LINE UNDERGROUND. REFER TO PLUMBING SITE PLAN FOR CONTINUATION.
- (5) 1/2" COMPRESSED AIR LINE UP FROM BELOW GRADE. PROVIDE BALL VALVE IN RISER AT 4'-0" AFF.
- 6 1/2" COMPRESSED AIR DOWN WALL AND CAP AT 3'-0" AFF. COORDINATE EXACT LOCATION WITH OWNER.
- $\langle 7 \rangle$  1/2" COLD WATER DOWN TO HOSE BIBB. PROVIDE BALL VALVE IN RISER AT 4'-0" AFF.







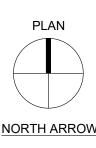
**PLUMBING** 

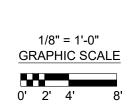
8/7/2019

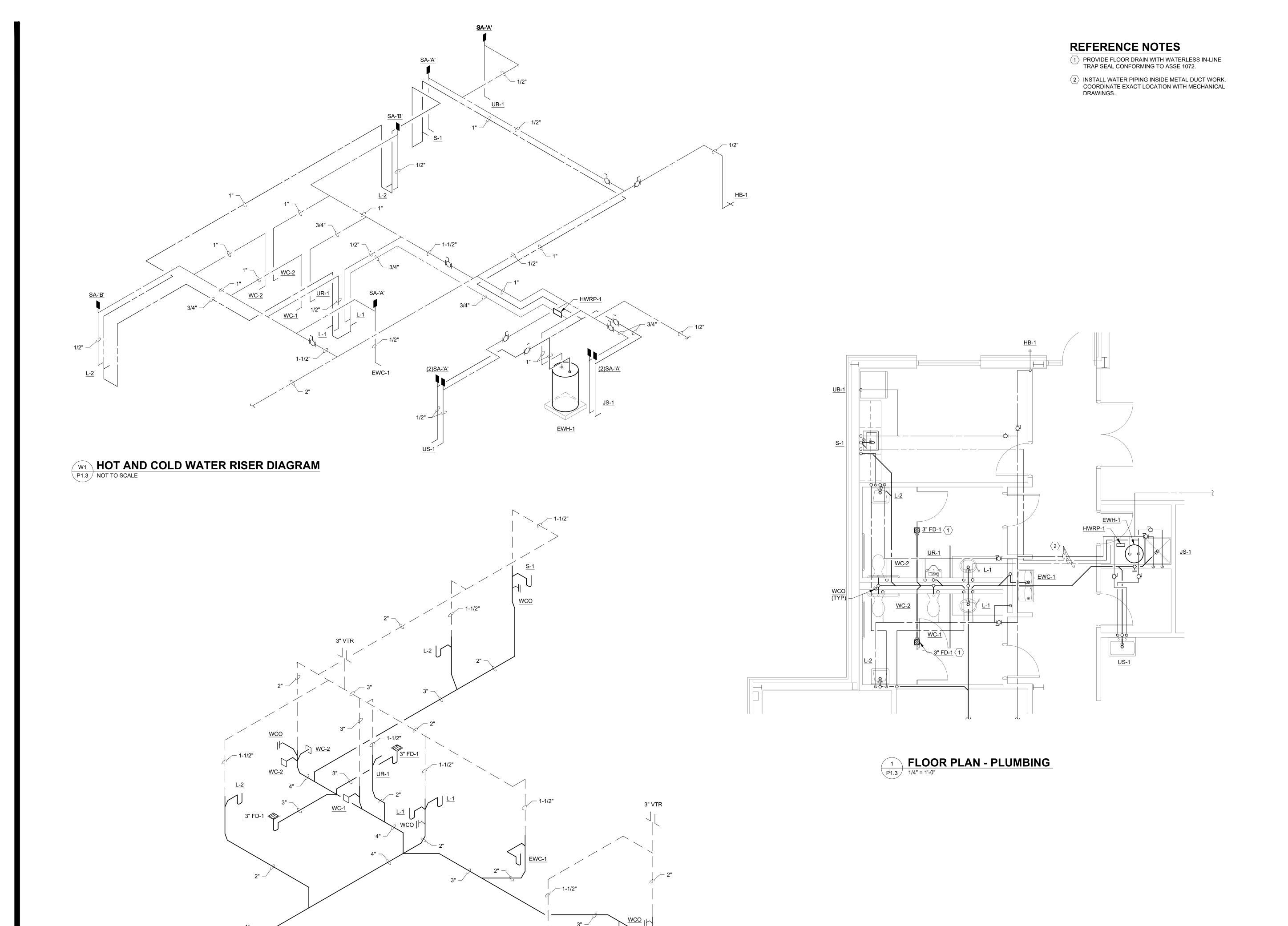
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# **GENERAL NOTES**

1. COMPRESS AIR PIPING INSIDE THE BUILDING SHALL BE TYPE L, COPPER TUBE, WROUGHT-COPPER FITTINGS; AND SOLDERED JOINTS. UNDERGROUND PIPING SHALL BE PVC ASTM D1785, SCHEDULE 40 WITH ASTM D2644, SCHEDULE 40, SOCKET TYPE FITTING.

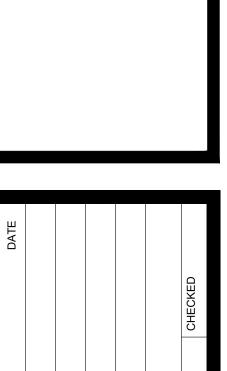


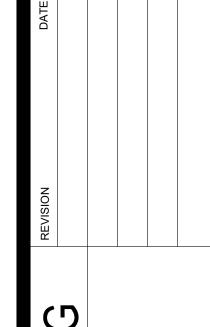




S1 WASTE AND VENT RISER DIAGRAM
P1.3 NOT TO SCALE







EMBRY-RIDDLE AERONAUTICAL UNIVERSITY NEW PRINT SHOP BUILDING

FLR PLAN & RISERS - PLUMBING 8/7/2019 ENLARGED FOR BID

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