



## GENERAL PLUMBING NOTES

- THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
- ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
- VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CHANGES IN THE DIRECTION OF SANITARY DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- CONTRACTOR SHALL GIVE 48 HOURS HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON CIVIL DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES. (INC. CLEAN OUTS, INCREASES, BACKWATER VALVES, ETC.)
- COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBS. HEIGHT OF INSTALLATION SHALL BE DETERMINED IN FIELD.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
- ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
- COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
- ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
- VERIFY WITH ARCHITECT ON ALL EQUIPMENT AND FIXTURES REQUIRING PLUMBING PRIOR TO BID. COORDINATE EXACT LOCATIONS AND CONNECTIONS.
- ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- CONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENSES, ETC. NECESSARY FOR PROPER COMPLETION OF WORK.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

## PLUMBING PIPING LINETYPES

LINETYPE	DESCRIPTION
-----	DEMOLITION
-----G-----	GAS
=====	SANITARY ABOVE GRADE
-----	SANITARY BELOW GRADE
=====	STORM ABOVE GRADE
-----	STORM BELOW GRADE
-----	VENT ABOVE GRADE
-----	VENT BELOW GRADE
-----	COLD WATER
-----	COLD WATER BELOW GRADE
-----	HOT WATER
-----	HOT WATER BELOW GRADE
-----	RECIRC WATER
-----	RECIRC WATER BELOW GRADE

## PLUMBING PIPING LEGEND

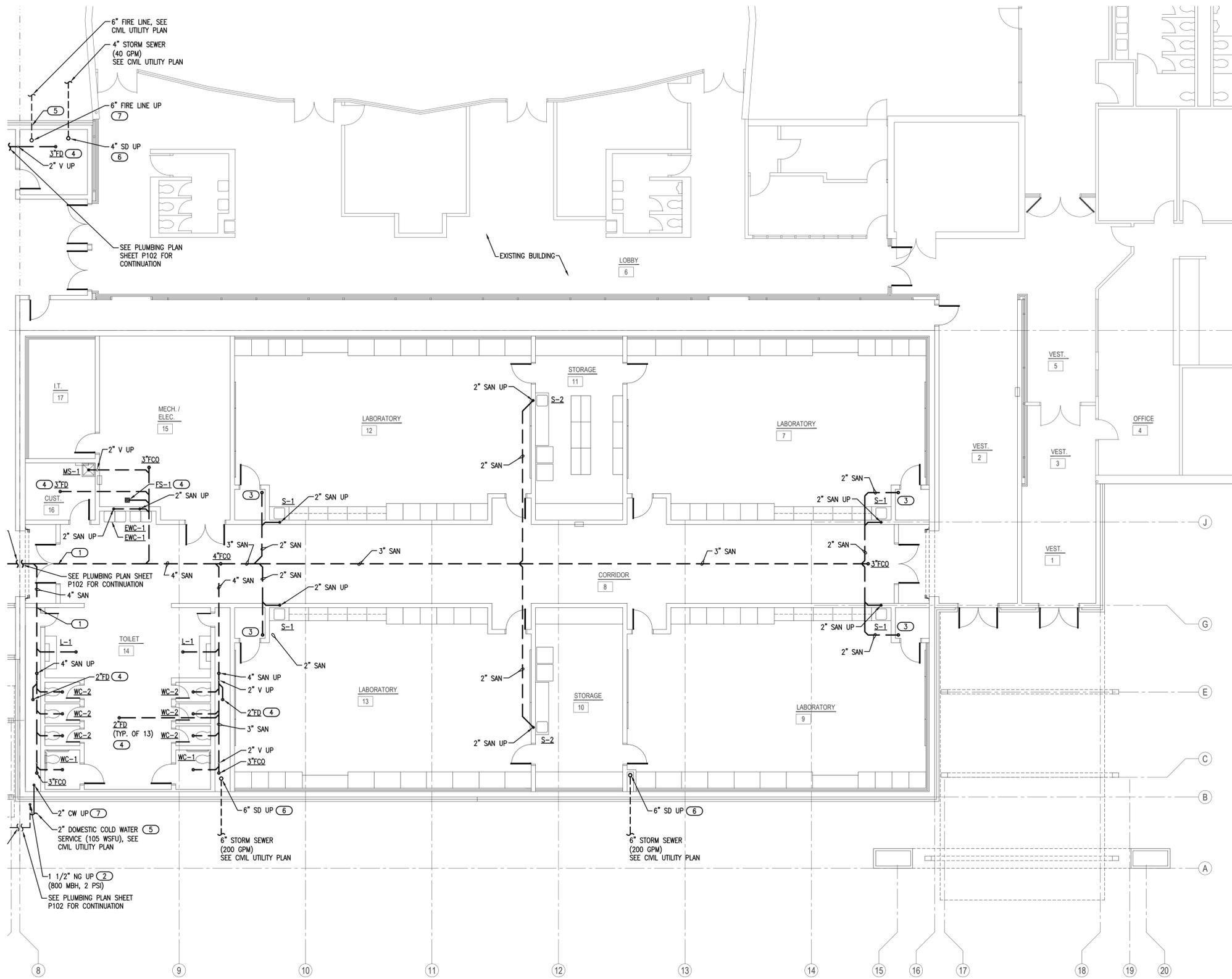
	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	END CAP
	NEW TO EXISTING PIPE CONNECTION
	FLOW DIRECTION ARROW
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPE CONNECTION
	HAMMER ARRESTOR (PISTON TYPE)
	HAMMER ARRESTOR (BELLOWS TYPE)
	PIPING LINEWEIGHT: NEW/DEMOLITION
	PIPING LINEWEIGHT: EXISTING

## PLUMBING ABBREVIATIONS

AG	ABOVE GRADE	MAU	MAKE-UP AIR UNIT
ADD	ADDENDUM	MC	MECHANICAL CONTRACTOR
ADDL	ADDITIONAL	MECH	MECHANICAL
ADJ	ADJUSTABLE	MIN	MINIMUM
AFF	ABOVE FINISH FLOOR	NG	NATURAL GAS
AFG	ABOVE FINISH GRADE	NTS	NOT TO SCALE
ALT	ALTERNATE	NPWC	NON POTABLE COLD WATER
BG	BELOW GRADE	ORD	OVERFLOW ROOF DRAIN
CO	CLEANOUT	OS	OPEN SITE
COL	COLUMN	OSD	OVERFLOW STORM DRAIN
CW	COLD WATER	PC	PLUMBING CONTRACTOR
DN	DOWN	PLBG	PLUMBING
DS	DOWNSPOUT	PRES	PRESSURE
EC	ELECTRICAL CONTRACTOR	QTY	QUANTITY
ECO	EXTERIOR CLEANOUT	RD	ROOF DRAIN
EQ	EQUAL	RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT	SAN	SANITARY
FD	FLOOR DRAIN	SCH	SCHEDULE
FLR	FLOOR	SD	STORM DRAIN
FS	FLOOR SINK	SPEC	SPECIFICATIONS
FT	FOOT (FEET)	SS	STAINLESS STEEL
F	FURNACE	TEMP	TEMPERATURE
GAL	GALLON	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UR	URINAL
GPM	GALLONS PER MINUTE	V	VENT
GI	GREASE INTERCEPTOR	VTR	VENT THRU ROOF
GW	GREASE WASTE	W/	WITH
HW	HOT WATER	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN	WC	WATER CLOSET

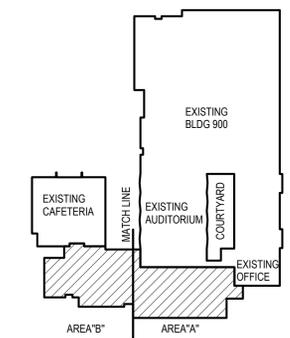
## PLUMBING SHEET INDEX

P000	PLUMBING TITLE SHEET
P101	PLUMBING PLAN - BELOW GRADE - AREA A
P102	PLUMBING PLAN - BELOW GRADE - AREA B
P110	PLUMBING PLAN - ABOVE GRADE - AREA A
P111	PLUMBING PLAN - ABOVE GRADE - AREA B
P201	PLUMBING ROOF PLAN
P301	PLUMBING ISOMETRIC - WASTE & VENT
P302	PLUMBING ISOMETRIC - DOMESTIC WATER
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES



- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
  - COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
  - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
  - PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
  - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ISOMETRIC SHEET P301.
  - PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATIONS.
  - INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
  - INSTALL CAUTION TAPE AND TRACER WIRE ABOVE ALL NON-METALLIC GAS PIPING.

- ### KEYED NOTES
- PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE BELOW OR THRU GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE ANODELESS GAS RISER FOR TRANSITION FROM BELOW GRADE MDPE TUBING TO ABOVE GRADE BLACK IRON PIPE. COORDINATE GAS PIPE INSTALLATION WITH SITE CONTRACTOR.
  - ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL 11/P501.
  - INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
  - PROVIDE PVC PIPE SLEEVE FOR WATER LINE BELOW OR THRU FOUNDATION WALL. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE CAST IRON PIPE SLEEVE FOR STORM PIPE BELOW OR THRU GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE PVC PIPE SLEEVE THRU CONCRETE FLOOR AND STUB UP 2" AFF FOR WATER LINE. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.



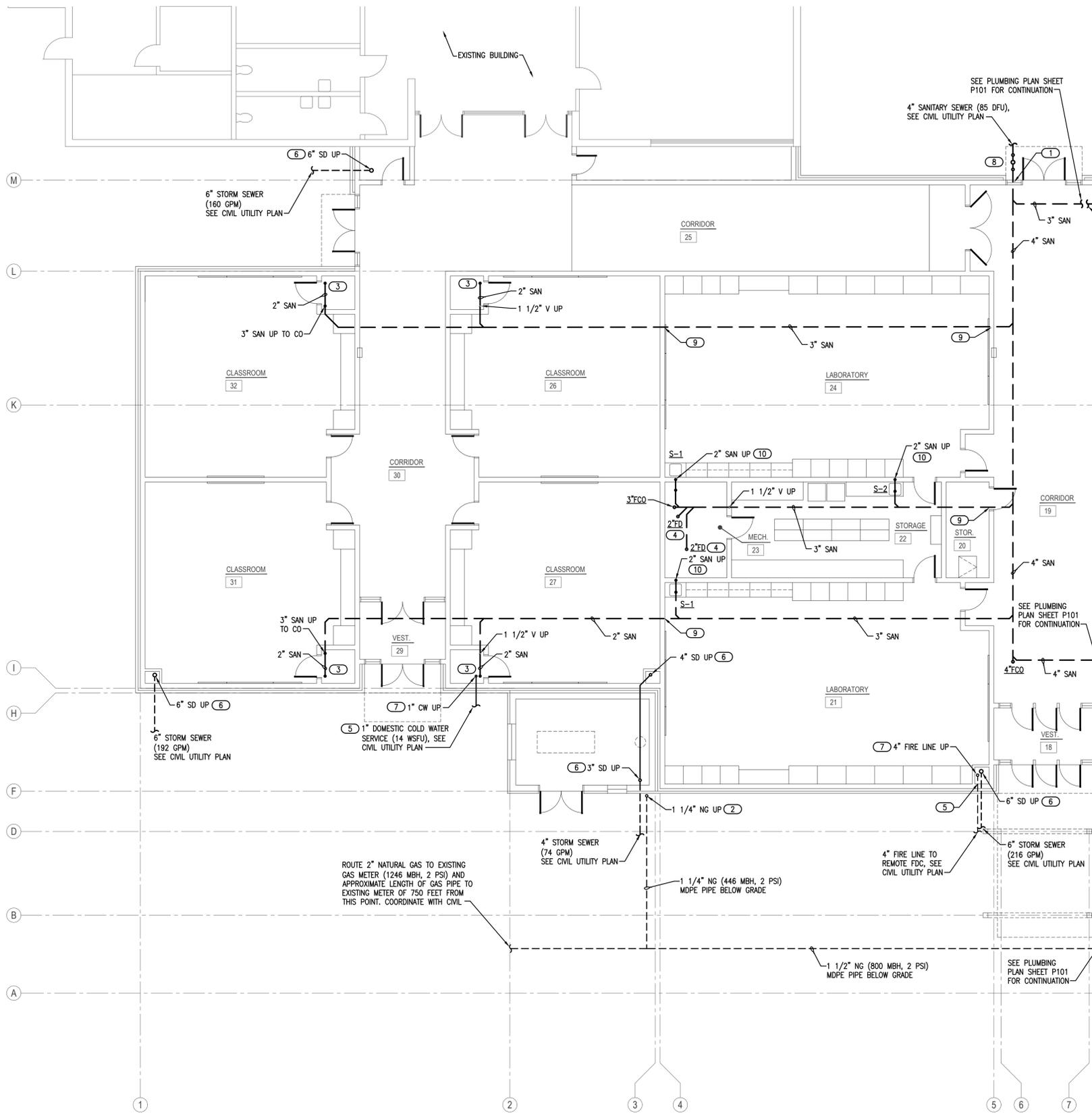
KEYPLAN  
NO SCALE

**1** PLUMBING PLAN - BELOW GRADE - AREA A  
SCALE: 1/8" = 1'-0"



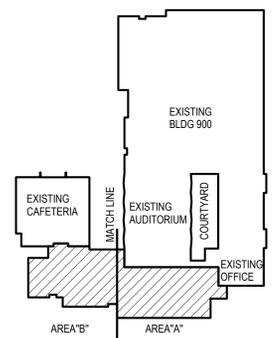
**Salas O'Brien**  
2900 S. Telephone Road, Suite 120  
Moore, OK 73160  
Salas O'Brien Registration: CA# 7058  
Expiration Date: 6/30/2025  
Salas O'Brien Project Number: 2550-00564-00

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- ### KEYED NOTES
- PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE ANODELESS GAS RISER FOR TRANSITION FROM BELOW GRADE MDPE TUBING TO ABOVE GRADE BLACK IRON PIPE. COORDINATE GAS PIPE INSTALLATION WITH SITE CONTRACTOR.
  - ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL 11/P501.
  - INSTALL ABOVE FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-o FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
  - PROVIDE PVC PIPE SLEEVE FOR WATER LINE BELOW OR THRU FOUNDATION WALL. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE CAST IRON PIPE SLEEVE FOR STORM PIPE BELOW OR THRU GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - PROVIDE PVC PIPE SLEEVE THRU CONCRETE FLOOR AND STUB UP 2" AFF FOR WATER LINE. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE AND SEAL SLEEVE OPENINGS WATERTIGHT. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - INSTALL 4" SANITARY BACKWATER VALVE AND 4" EXTERIOR CLEANOUTS. PROVIDE CONCRETE PAD AT GRADE. SEE DETAIL 4/P501.
  - PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE THRU OR BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - COORDINATE WITH STRUCTURAL FOR ROUTING 2" SANITARY PIPE TO ABOVE GRADE BEAM, BELOW FINISHED FLOOR AND UP IN WALL ABOVE.



KEYPLAN  
NO SCALE

## 1 PLUMBING PLAN - BELOW GRADE - AREA B

SCALE: 1/8" = 1'-0"



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Moore, OK 73160  
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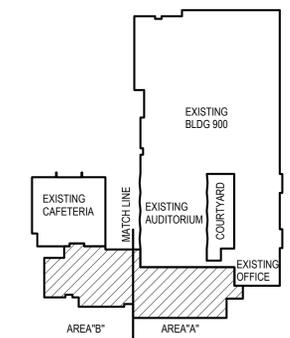
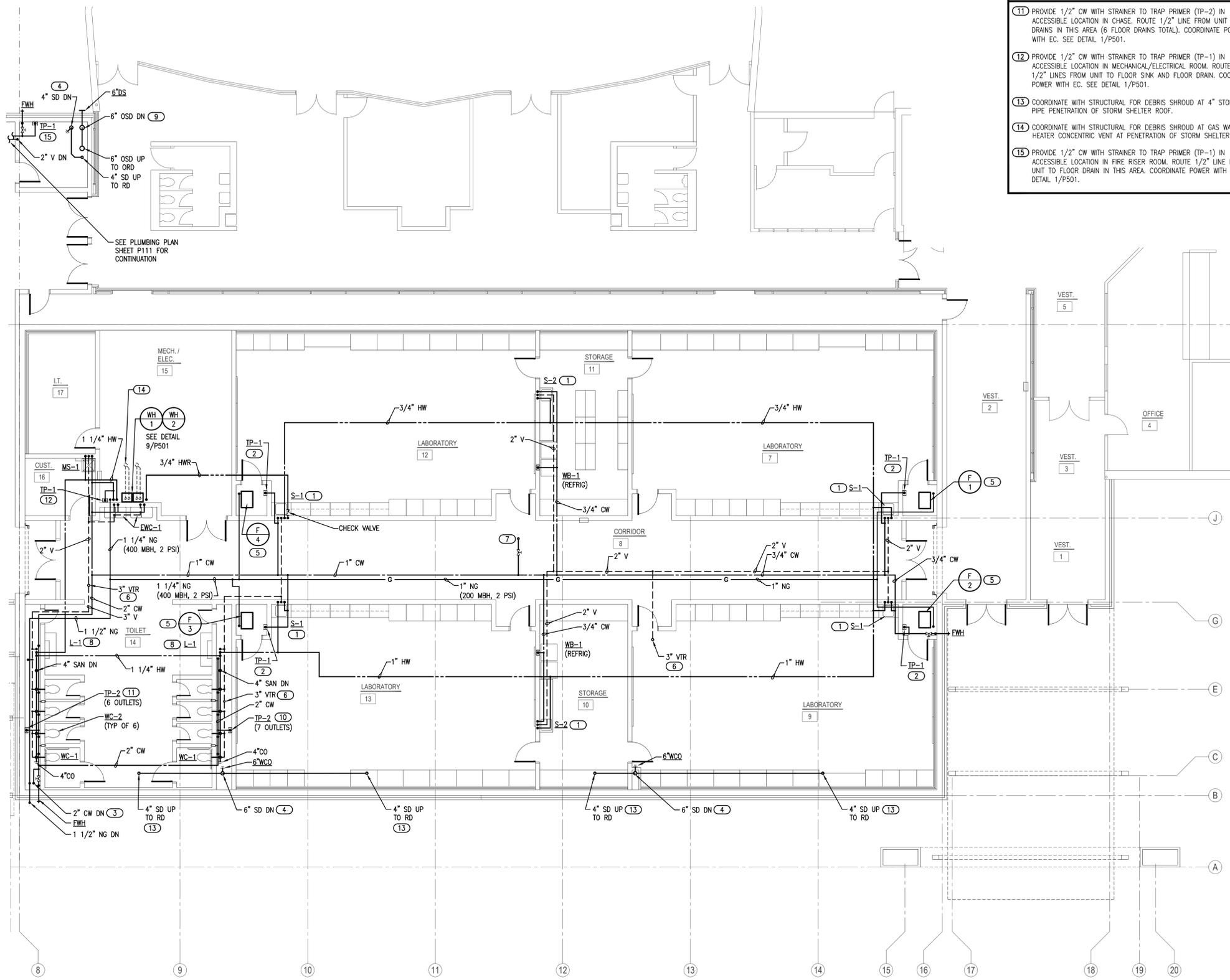
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- ### KEYED NOTES
- PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-2) IN ACCESSIBLE LOCATION IN CHASE. ROUTE 1/2" LINE FROM UNIT TO FLOOR DRAINS IN THIS AREA (6 FLOOR DRAINS TOTAL). COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN MECHANICAL/ELECTRICAL ROOM. ROUTE (2) 1/2" LINES FROM UNIT TO FLOOR SINK AND FLOOR DRAIN. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
  - COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT 4" STORM DRAIN PIPE PENETRATION OF STORM SHELTER ROOF.
  - COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT GAS WATER HEATER CONCENTRIC VENT AT PENETRATION OF STORM SHELTER ROOF.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FIRE RISER ROOM. ROUTE 1/2" LINE FROM UNIT TO FLOOR DRAIN IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.

- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
  - PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
  - SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
  - FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
  - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ISOMETRIC SHEETS P301 AND P302.
  - PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
  - ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
  - TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
  - COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.
  - INSULATE STORM DRAIN AND SLOPE DOWN AT 1/8" PER FOOT.
  - CONTRACTOR SHALL COORDINATE ALL SAFEROOM SHELTER PENETRATIONS WITH STRUCTURAL. REFER TO STRUCTURAL DETAIL SHEET FOR PENETRATION PROTECTION FOR RECTANGULAR OPENINGS GREATER THAN 3.5 SQUARE INCHES AND CIRCULAR OPENINGS GREATER THAN 2.125 INCHES PER 2014 ICC-500.

- ### KEYED NOTES
- INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW SINK. LABORATORY SINKS SEE DETAIL 8/P501. STORAGE ROOM SINKS SEE DETAIL 5/P501.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. ROUTE 1/2" LINE FROM UNIT TO HUB DRAIN. COORDINATE POWER WITH EC. SEE DETAILS 1/P501 AND 11/P501.
  - ROUTE DOMESTIC WATER SERVICE DOWN WITH PRV-1 AND BALL VALVE AT 24" A.F.F. AND ROUTE DOWN TO BELOW FLOOR. SEE SHEET P101 FOR CONTINUATION.
  - COORDINATE CHASE SIZE WITH GC FOR STORM DRAIN PIPE DOWN TO BELOW FLOOR. INSTALL WALL CLEANOUT AT MINIMUM 20" AFF. SEE SHEET P101 FOR CONTINUATION.
  - ROUTE 3/4" NATURAL GAS (2 PSI) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 7/P501.
  - COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT PLUMBING VENT PENETRATION OF STORM SHELTER ROOF.
  - PROVIDE 3/4" CW WITH BALL VALVE TO CONNECTION FOR ROOF HYDRANT (FRH). COORDINATE WITH STRUCTURAL FOR DEBRIS SHROUD AT ROOF PENETRATION.
  - PROVIDE 1/2" CW BRANCH LINE IN CHASE TO SERVE LAVATORY. ROUTE 1 1/4" HW DOWN IN CHASE AND BACK UP TO CEILING. CONNECT 1/2" HW TO LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 6/P501.
  - COORDINATE WITH GC FOR LOCATION OF OVERFLOW STORM DRAIN PIPE. INSTALL FLOOR PIPE SUPPORT FOR ELBOW NEAR FLOOR. INSTALL BOTTOM OF DOWNSPOUT NOZZLE AT 12" ABOVE GRADE. COORDINATE HEIGHT WITH GC.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-2) IN ACCESSIBLE LOCATION IN CHASE. ROUTE 1/2" LINES FROM UNIT TO FLOOR DRAINS IN THIS AREA (7 FLOOR DRAINS TOTAL). COORDINATE POWER WITH EC. SEE DETAIL 1/P501.

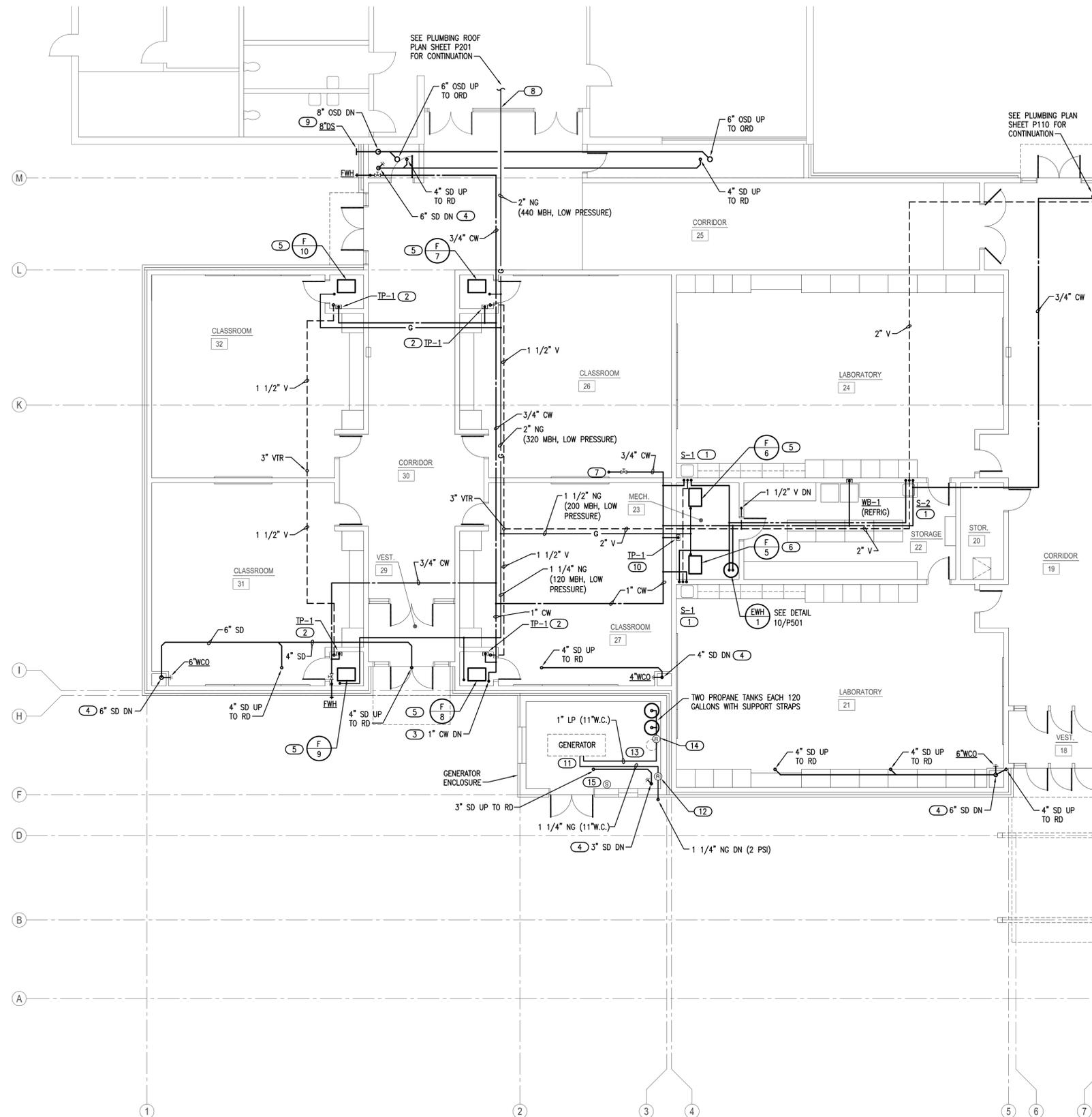


KEYPLAN  
NO SCALE

**1 PLUMBING PLAN - ABOVE GRADE - AREA A**  
SCALE: 1/8" = 1'-0"



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  - SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
  - FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
  - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ISOMETRIC SHEETS P301 AND P302.
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  - TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
  - COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.
  - INSULATE STORM DRAIN AND SLOPE DOWN AT 1/8" PER FOOT.

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  - ROUTE DOMESTIC WATER SERVICE DOWN WITH PRV-2 AND BALL VALVE AT 24" A.F.F. AND ROUTE DOWN TO BELOW FLOOR. SEE SHEET P102 FOR CONTINUATION.
  - COORDINATE CHASE SIZE WITH GC FOR STORM DRAIN PIPE DOWN TO BELOW FLOOR. INSTALL WALL CLEANOUT AT MINIMUM 20" AFF. SEE SHEET P102 FOR CONTINUATION.
  - ROUTE 1" NATURAL GAS (LOW PRESSURE) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 7/P501.
  - ROUTE 1 1/4" NATURAL GAS (LOW PRESSURE) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 7/P501.
  - PROVIDE 3/4" CW WITH BALL VALVE TO CONNECTION FOR ROOF HYDRANT (FRH). COORDINATE WITH STRUCTURAL FOR INSTALLATION.
  - ROUTE 2" NATURAL GAS LINE (440 MBH, LOW PRESSURE) FROM EXISTING ROOF INTO NEW ADDITION. COORDINATE WITH GC AND STRUCTURAL FOR PENETRATION OF NATURAL GAS LINE THRU WALL.
  - COORDINATE CHASE SIZE WITH GC FOR STORM DRAIN PIPE. INSTALL FLOOR PIPE SUPPORT FOR ELBOW. INSTALL BOTTOM OF DOWNSPOUT NOZZLE AT 12" ABOVE GRADE. COORDINATE HEIGHT WITH GC.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN MECHANICAL ROOM. ROUTE 1/2" LINE FROM UNIT TO FLOOR SINK IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
  - DUAL FUEL (NATURAL GAS & PROPANE) GENERATOR BY EC. ROUGH-IN AND MAKE FINAL GAS CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
  - 1 1/4" NG (2 PSI) WITH BALL VALVE, DRIP LEG, PRESSURE REGULATOR AND 1 1/4" NG (446 MBH, 11" W.C. PRESSURE) PIPE TO GENERATOR.
  - PROVIDE FLOOR MOUNTED PIPE SUPPORTS FOR NATURAL GAS AND PROPANE PIPES.
  - 1/2" PROPANE FROM TANKS TO 2-STAGE REGULATOR WITH 11" WATER COLUMN PRESSURE OUT (477.5 MBH). ROUTE REGULATOR VENT TO ROOF PER CODE. EMERSON FISHER REGULATOR MODEL R232A OR EQUAL.
  - INSTALL PROPANE GAS SENSOR (PGS-1) AT 4'-0" AFF AND INTERLOCK WITH RELAY PANEL, EXTERIOR ALARM BEACON MOUNTED TO RIGHT OF DOOR, SHUT-OFF BUTTON INSIDE OF DOOR AND 1" PROPANE GAS SOLENOID VALVE. COORDINATE WITH EC FOR 120V POWER TO RELAY, SENSOR AND SOLENOID VALVE.

# AGP

the Abila Griffin Partnership L.L.C.

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CEDAR CREEK  
CIVIL

KFC ENGINEERING  
STRUCTURAL

SALAS O'BRIEN  
MECHANICAL / ELECTRICAL



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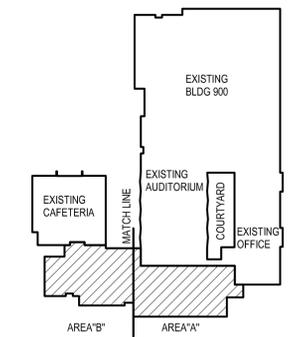
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CLASSROOM ADDITION  
CENTRAL JUNIOR  
HIGH SCHOOL

sheet no:  
**P111**

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**KEYPLAN**  
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Salas O'Brien Project Number: 2550-00564-00

**1 PLUMBING PLAN - ABOVE GRADE - AREA B**  
SCALE: 1/8" = 1'-0"

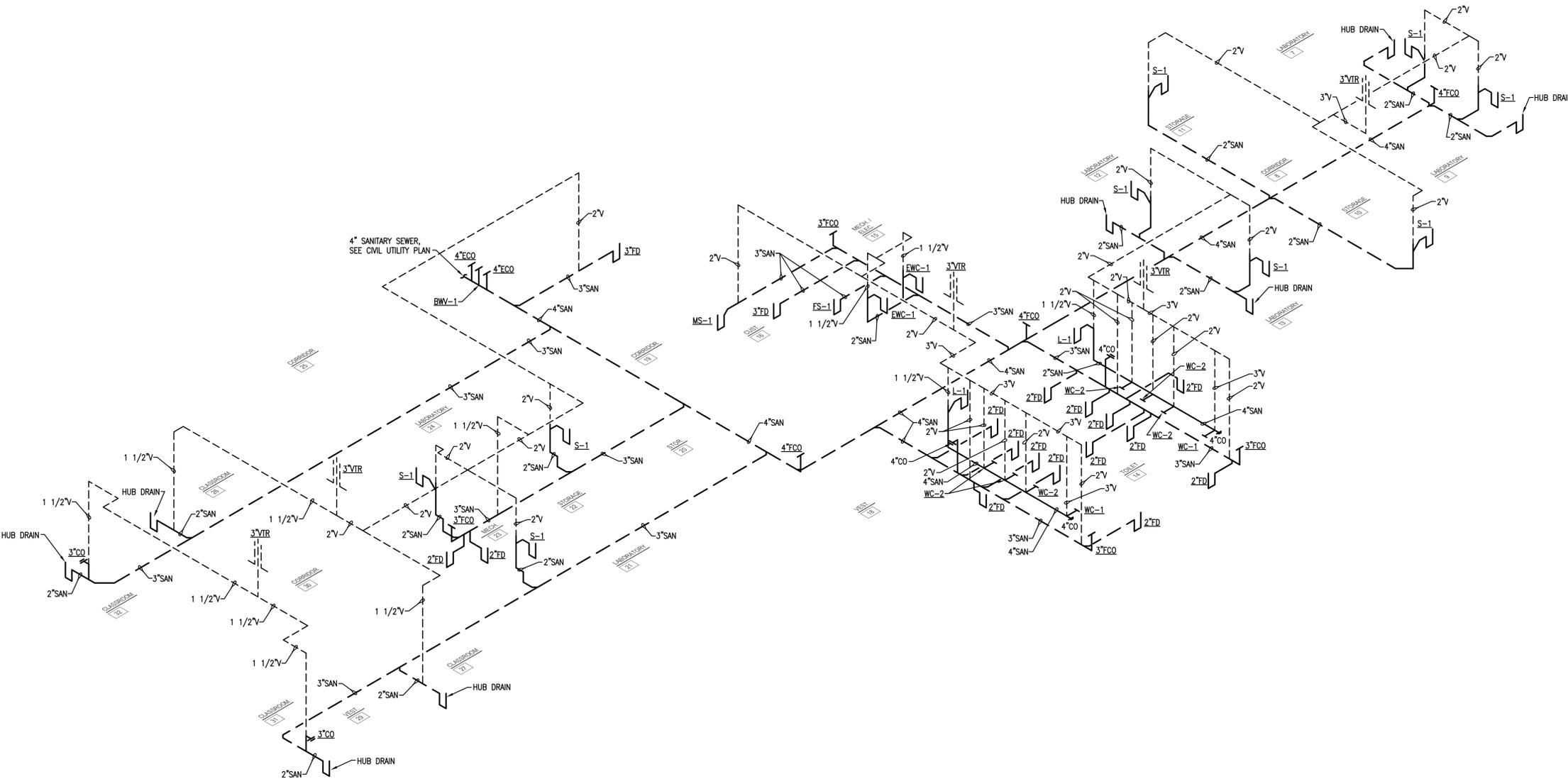




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**1 PLUMBING ISOMETRIC - WASTE & VENT**  
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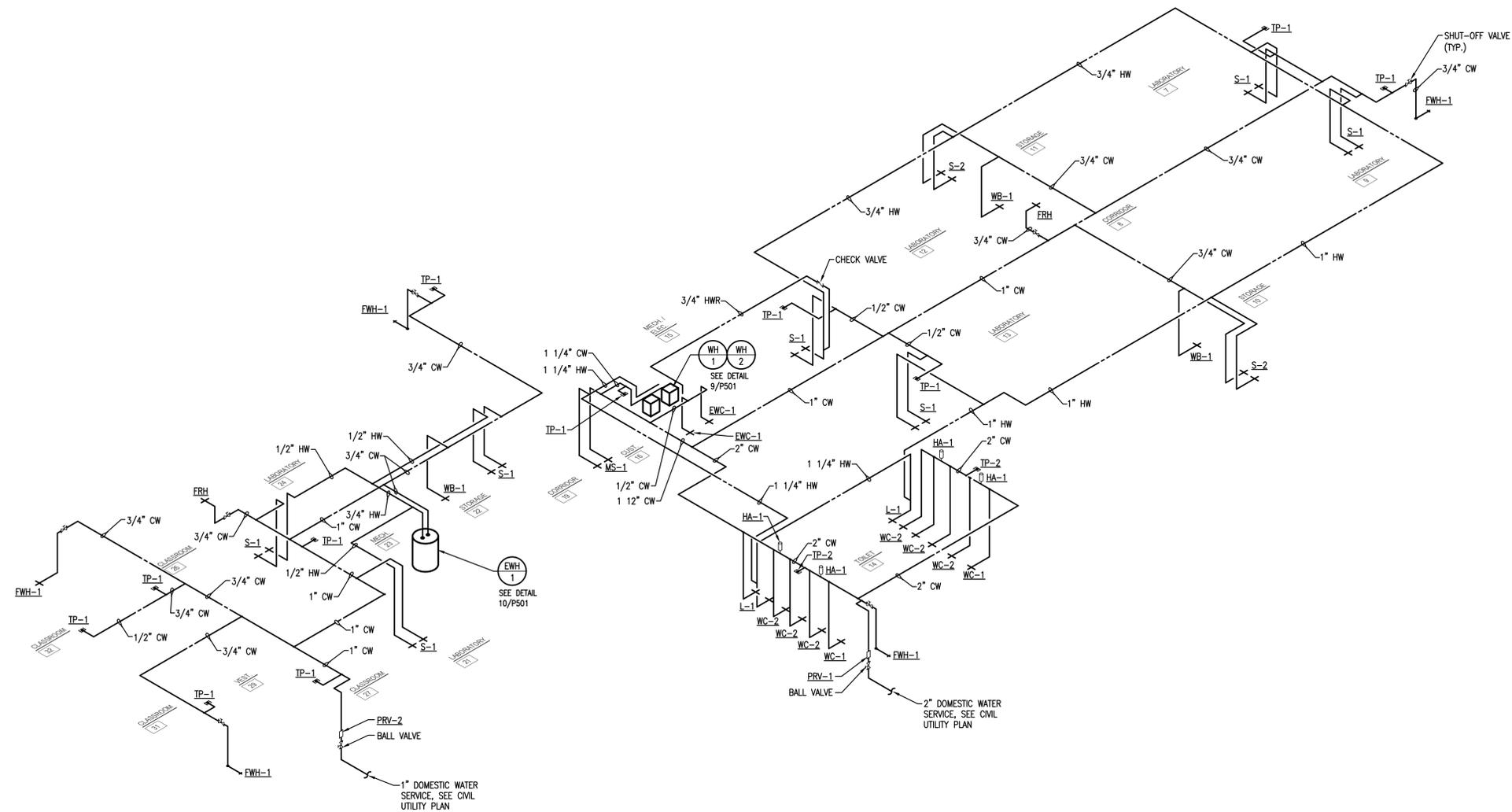
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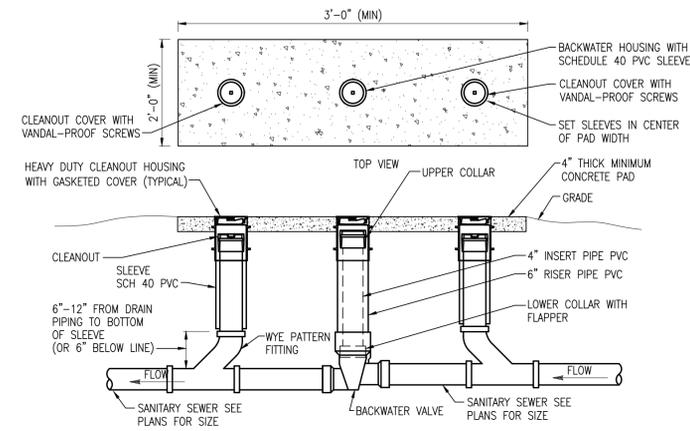
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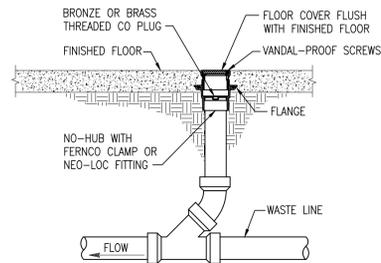
**1 PLUMBING ISOMETRIC - DOMESTIC WATER**  
NO SCALE

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Salas O'Brien Project Number: 2550-00564-00

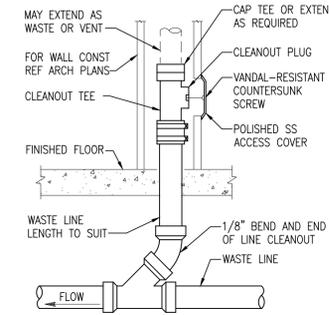
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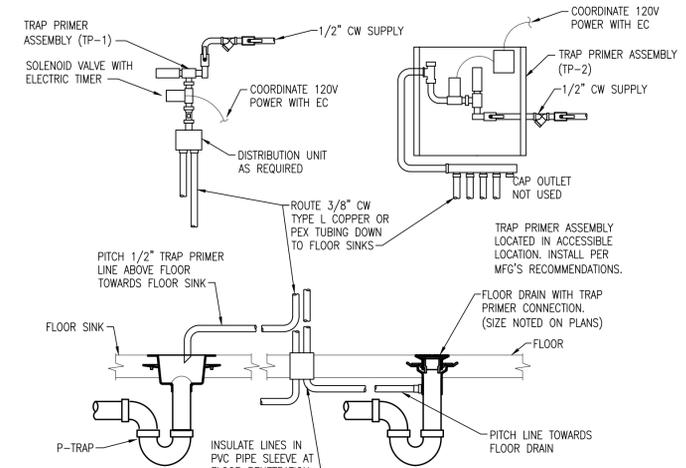
**4 BACKWATER VALVE & EXTERIOR CLEANOUT DETAIL**  
NOT TO SCALE



**3 INTERIOR CLEANOUT DETAIL**  
NOT TO SCALE

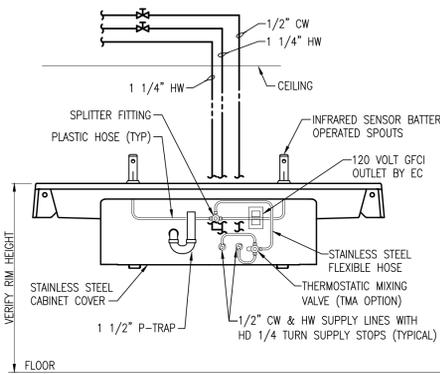


**2 WALL CLEANOUT DETAIL**  
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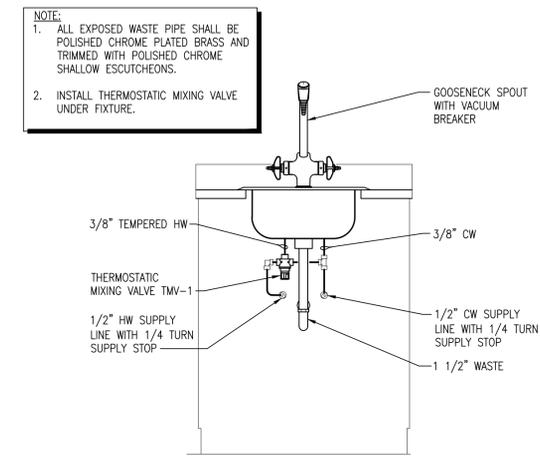


**1 ELECTRIC TRAP PRIMER DETAIL**  
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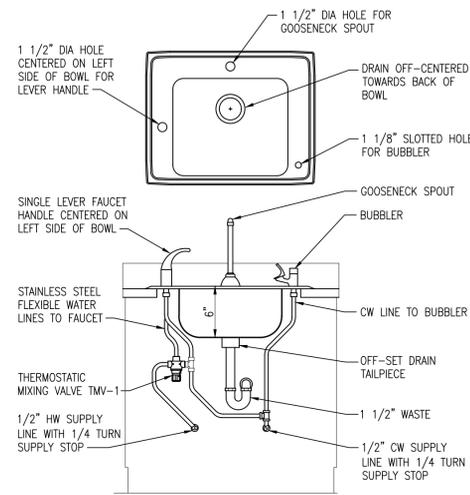
NOTE:  
1. VERIFY FIXTURE HEIGHTS FOR EACH AREA WITH ARCHITECTURAL PLANS.  
2. WASTE AND WATER PIPING SHALL BE CONCEALED IN CABINET COVER.  
3. TMA OPTION INCLUDES: THERMOSTATIC MIXING VALVE, SUPPORT BRACKET, STAINLESS STEEL HOSES, SPLITTER FITTING, PLASTIC HOSES.  
4. HWR LINE SHALL CONNECT TO HW LINE WITHIN 2'-0" OF STUB OUT TO SUPPLY STOP.



**6 TWO STATION LAVATORY DETAIL**  
NOT TO SCALE

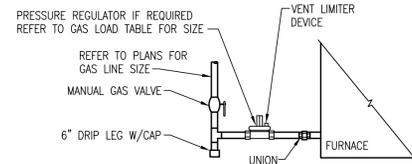


**5 LAB STORAGE SINK DETAIL**  
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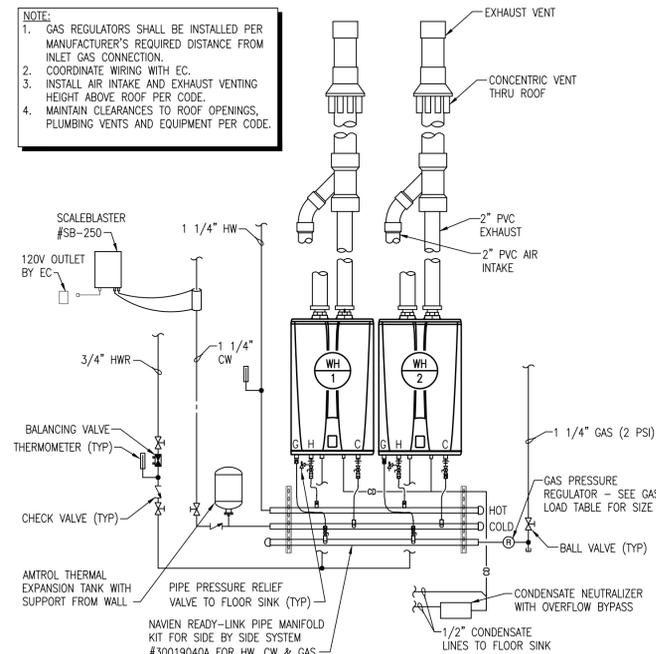
**8 CLASSROOM SINK DETAIL**  
NOT TO SCALE

NOTE:  
1. COORDINATE GAS CONNECTION TO UNIT WITH MC.  
2. INSTALL PRESSURE REGULATOR (IF REQUIRED) PER MANUFACTURER'S RECOMMENDATIONS.  
3. VENT GAS REGULATOR RELIEF TO ATMOSPHERE OR PROVIDE APPROVED VENT LIMITING DEVICE AS REQUIRED.

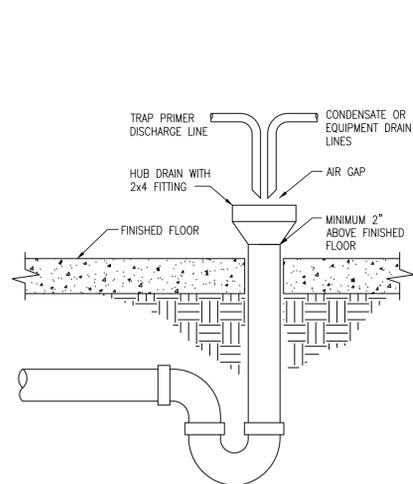


**7 FURNACE GAS CONNECTION DETAIL**  
NOT TO SCALE

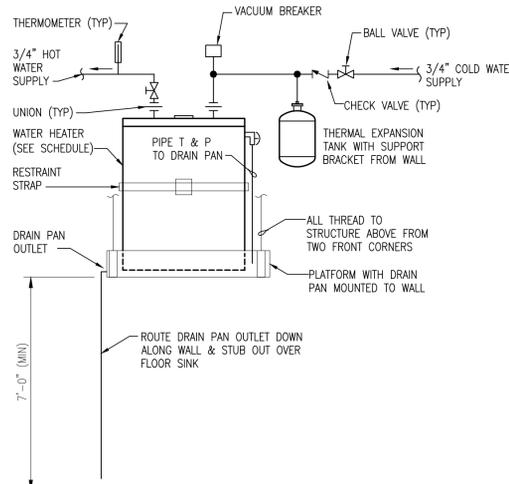
NOTE:  
1. GAS REGULATORS SHALL BE INSTALLED PER MANUFACTURER'S REQUIRED DISTANCE FROM INLET GAS CONNECTION.  
2. COORDINATE WIRING WITH EC.  
3. INSTALL AIR INTAKE AND EXHAUST VENTING HEIGHT ABOVE ROOF PER CODE.  
4. MAINTAIN CLEARANCES TO ROOF OPENINGS, PLUMBING VENTS AND EQUIPMENT PER CODE.



**9 DUAL TANKLESS GAS WATER HEATERS DETAIL**  
NOT TO SCALE



**11 HUB DRAIN DETAIL**  
NOT TO SCALE



**10 ELECTRIC WATER HEATER DETAIL**  
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
L-1	LAVATORY ADA 2-STATIONS	BRADLEY	VERGE LVRO2	WALL	1/2"	1/2"	1 1/2"	1 1/2"	2-STATION UNIT, 4" CENTER-SET FAUCET DRILLING (2-FAUCETS), NO SOAP DISPENSER, STAINLESS STEEL ACCESS PANEL, PVC P-TRAP, PROVIDE SLOAN BAKSY BATTERY INFRARED SENSOR FAUCET EX560-202-0000 CP WITH THERMOSTATIC MIXING VALVE. PROVIDE MCGUIRE LFBV2165SC SUPPLY STOPS. ALL AVAILABLE COLORS FOR SELECTION BY ARCHITECT. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. SEE DETAIL 6/P501.
WC-1	WATER CLOSET ADA	AMERICAN STANDARD	2257.101	WALL	1 1/4"	-	4"	-	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. WADE WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION.
WC-2	WATER CLOSET	AMERICAN STANDARD	2257.101	WALL	1 1/4"	-	4"	-	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SCT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. WADE WALL CARRIER. REFER TO ARCHITECT'S PLANS FOR HEIGHT AND WALL TYPE.
MS-1	MOP SINK	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	1 1/2"	PROVIDE 832AA HOSE & BRACKET, 889-CC MOP BRACKET, MSC 2424 SS WALL GUARDS, PROVIDE T&S BRASS FAUCET B-0665-BSTR, ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER, WATTS LFBA OR APPROVED EQUAL.
S-1	SINK (SCIENCE ROOM)	ELKAY	DRKAD282260 RC	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	SINK PACKAGE WITH FAUCET AT BACK, LEVER HANDLE ON LEFT SIDE CENTERED ON BOWL, BUBBLER ON RIGHT, 6" SINK DEPTH, LKAD35 OFFSET TAILPIECE W/STRAINER. PROVIDE MCGUIRE 8912 P-TRAP & LFBV2165SS SUPPLY STOPS. INSTALL MIXING VALVE TMV-1 UNDER SINK. SEE DETAIL 8/P501.
S-2	SINK (LAB STORAGE)	ELKAY	LRAD2219602	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	SINGLE BOWL, 6.0" DEEP, 2 FAUCET HOLES, REAR CENTER DRAW, PROVIDE ELKAY LKAD35 OFFSET DRAIN & ELKAY LK408GND514 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165 SUPPLY STOPS. INSTALL MIXING VALVE TMV-1 UNDER SINK. SEE DETAIL 5/P501.
EW-1	ELECTRIC WATER COOLER DUAL	ELKAY	LZSTLBSVRSK	WALL	1/2"	-	1 1/2"	1 1/2"	DUAL LEVEL VANDAL-RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION ON LOWER UNIT, FILTERED, 120 VOLT. PROVIDE ELKAY CANE APRON LKAPREZL ON UPPER UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECT'S PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.
FD	FLOOR DRAIN	WADE	1100-DA6-1 VP	FLOOR	-	-	SEE PLANS	-	6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	WADE	9110-64-15-26-27	FLOOR	-	-	3"	-	8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E INTERIOR, 1/2 GRATE, SEDIMENT BUCKET, ANCHOR FLANGE WITH CLAMPING COLLAR.
FCO	FLOOR CLEANOUT	WADE	6000-1-VP	FLOOR	-	-	SEE PLANS	-	6" ROUND NICKEL BRONZE TOP, CAST IRON BODY, ADJUSTABLE COLLAR, ANCHOR FLANGE, COVER HEIGHT ADJUSTMENT AFTER FLOOR IS POURED, COVER WITH VANDAL RESISTANT SCREWS. SEE DETAIL 3/P501.
WCO	WALL CLEANOUT	WADE	8560-75 8304-VP	WALL	-	-	SEE PLANS	-	CAST IRON CLEANOUT TEE, THREADED BRASS PLUG, PROVIDE 8304-VP STAINLESS STEEL 6" ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW. SEE DETAIL 2/P501.
ECO	EXTERIOR CLEANOUT	WADE	8401-12 COF4-VP-81	GRADE	-	-	SEE PLANS	-	CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURED GASKETED COVER WITH CLEANOUT FERRULE WITH ABS PLUG. VANDAL PROOF SCREWS. SEE DETAIL 4/P501.
BWV	BACKWATER VALVE (SANITARY)	RECTORSEAL	97034	GRADE	-	-	4"	-	PVC BODY, FLAPPER WITH EXTENSION AND CAP. PROVIDE PVC SLEEVE TO FLUSH WITH FINISH GRADE. FIELD VERIFY DEPTH OF ACCESS HOUSING. ASSEMBLY MEETS IPC CODES. SEE DETAIL 4/P501.
RD	ROOF DRAIN	WADE	3000-42-ADF -53	ROOF	-	-	SEE PLANS	-	DURA-COATED CAST IRON BODY, CAST IRON DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ADJUSTABLE EXTENSION ASSEMBLY & UNDER DECK CLAMP.
ORD	OVERFLOW ROOF DRAIN	WADE	3000-42-ADF -53-D2	ROOF	-	-	SEE PLANS	-	DURA-COATED CAST IRON BODY, CAST IRON DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ADJUSTABLE EXTENSION ASSEMBLY & UNDER DECK CLAMP, 2" HIGH EXTERNAL WATER DAM.
DS	DOWN SPOUT	RECTORSEAL	G-O-N	PIPE	-	-	SEE PLANS	-	CAST NICKEL BRASS BODY, OFFSET NOZZLE, WALL FLANGE.
FWH	FREEZELESS WALL HYDRANT	WOODFORD	B65	WALL	3/4"	-	-	-	CONCEALED BOX TYPE WITH HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE, GIVE HYDRANT KEY TO OWNER.
FRH	FREEZELESS ROOF HYDRANT	WOODFORD	SRH-MS	ROOF	3/4"	-	-	-	FREEZELESS HYDRANT, ROOF MOUNTING ASSEMBLY & SUPPORT, THREADED HOSE OUTLET WITH DUAL CHECK BFP ASSE 1052. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.
HA-1	HAMMER ARRESTOR	SIoux CHIEF	650 SERIES	PIPE	VARIES	-	-	-	LEAD-FREE CONSTRUCTION, ANSI/ASSE 1010 LISTED, PRE-CHARGED, PERMANENT SEALED AIR CHAMBER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
TP-1	TRAP PRIMER ELECTRONIC	SIoux CHIEF	695-ES01	PIPE	1/2"	-	-	-	SURFACE MOUNT, ELECTRIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & OUTLET, 120V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. PROVIDE DISTRIBUTION SPLITTER. SEE DETAIL 1/P501.
TP-2	TRAP PRIMER ELECTRONIC	SIoux CHIEF	695-ES10	PIPE	1/2"	-	-	-	SURFACE MOUNT BOX, ELECTRIC UNIT WITH 24 HR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & VACUUM BREAKER, 1/2" CW INLET & 10 OUTLETS, 120V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. SEE DETAIL 1/P501.
AP-1	ACCESS PANEL	ELMDOR	DW 14x14 CL-SS	WALL	-	-	-	-	14"x14" STEEL, 16 GAGE DOOR & FRAME, CONCEALED HINGE, CYLINDER LOCK & KEY, STAINLESS STEEL FINISH. CONCEALED FASTENING POINTS.
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFMMV-M1	UNDER FIXTURE	1/2"	1/2"	-	-	MIXING VALVE WITH LEAD FREE DESIGN, ADJUSTABLE TEMPERATURE SET-POINT & LOCKABLE, INTEGRAL CHECK STOPS & STRAINERS, 3/8" INLETS & OUTLET, SET OUTLET TEMP AT 105 DEGREES F. ASSE 1070 LISTED.
WB-1	WATER BOX	SIoux CHIEF	696-G1010WF	WALL	1/2"	-	-	-	RECESSED WALL MOUNTED BOX WITH FLANGE, 1/4 TURN BALL VALVE WITH HAMMER ARRESTOR AND 1/4" OUTLET. COORDINATE INSTALL HEIGHT WITH EQUIPMENT SUPPLIER.
TBV-1	THERMOSTATIC BALANCING VALVE	CALEFFI	THERMOSETTER SERIES 116151AC-001	PIPE	3/4"	-	-	-	THERMOSTATIC BALANCING VALVE ASSEMBLY, TEMPERATURE GAUGE, CHECK VALVE, BALL VALVE ON EACH SIDE OF VALVE. COORDINATE HWR TEMPERATURE WITH OWNER.
PRV-1	PRESSURE REDUCING VALVE	WATTS	LF223-S	PIPE	2"	-	-	-	LEAD FREE BRASS BODY CONSTRUCTION WITH INLET STRAINER & THREADED CONNECTIONS, ADJUSTABLE REDUCED PRESSURE RANGE, SET OUTLET PRESSURE SETTING TO 65 PSI. MEETS ASSE STANDARD 1003.
PRV-2	PRESSURE REDUCING VALVE	WATTS	LF223-S	PIPE	1"	-	-	-	LEAD FREE BRASS BODY CONSTRUCTION WITH INLET STRAINER & THREADED CONNECTIONS, ADJUSTABLE REDUCED PRESSURE RANGE, SET OUTLET PRESSURE SETTING TO 65 PSI. MEETS ASSE STANDARD 1003.
PGS-1	PROPANE GAS SENSOR	AMERICAN GAS SAFETY	MINI MERLIN AGSLPGCO	WALL	-	-	-	-	DUAL CO & LPG DETECTOR (120V), RELAY AGSRGR (120V), AUDIBLE ALARM AGSAAB, 1" LP 120V SOLENOID VALVE AGSGSV1, EMERGENCY SHUT-OFF BUTTON AGSEGTW.

GAS WATER HEATER SCHEDULE									
MARK	LOCATION	TEMPERATURE RISE	FLOW RATE GAL/MIN	CAPACITY (GALLONS)	MBH INPUT MAX	AIR INTAKE	FLUE EXHAUST	MANUFACTURER & MODEL NO.	NOTES
WH 1	MECH/ELEC ROOM 15	(50°F - 120°F) 70°F	5.5	TANKLESS	199.9	3"	3"	NVAIEN NPE-240A2	ALL
WH 2	MECH/ELEC ROOM 15	(50°F - 120°F) 70°F	5.5	TANKLESS	199.9	3"	3"	NVAIEN NPE-240A2	ALL

NOTES:

- INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 2 AMP (GFCI OUTLET).
- PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE.
- PROVIDE CLEAR WATER ENVIRO TECHNOLOGIES SCALEBLASTER MODEL SB-250 ELECTRONIC DESCALER. COORDINATE 120 VOLT OUTLETS WITH EC.
- PROVIDE NAVIEN CONDENSATE NEUTRALIZER KIT AND OVERFLOW BY-PASS PIPING TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NAVIEN CONCENTRIC INTAKE/EXHAUST VENT THRU ROOF.
- PROVIDE NAVIEN READY-LINK COMMUNICATIONS CABLE.
- PROVIDE NAVIEN PLUMB EASY VALVE SET.
- PROVIDE NAVIEN READY-LINK WALL MOUNT PIPING MANIFOLD SYSTEM FOR WATER HEATERS.
- SEE DETAIL 9/P501 FOR MORE INFORMATION.

ELECTRIC WATER HEATER SCHEDULE									
MARK	LOCATION	TEMPERATURE RISE	CAPACITY GALLONS	AMPS	ELEMENT KW	VOLTAGE	PHASE	MANUFACTURER & MODEL NO.	NOTES
EW 1	MECH 23	70 DEG @ 25 GPH	30	22	4.5	208	1	AO SMITH DEL-30	ALL

NOTES:

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- SET OUTLET TEMPERATURE TO 120°F. VERIFY TEMPERATURE WITH OWNER.
- PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE TO WATER HEATER.
- PROVIDE HOLD RITE MODEL 50-SWHP-W WITH DRAIN PAN MODEL OP-26 OR APPROVED EQUAL.
- COORDINATE WIRING WITH EC.
- SEE DETAIL 10/P501 FOR MORE INFORMATION.

GAS LOAD TABLE (2 PSI)					
MARK	INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-1	80	7"	MAXITROL 325-3L	2 PSI	ALL
F-2	120	7"	MAXITROL 325-3L	2 PSI	ALL
F-3	120	7"	MAXITROL 325-3L	2 PSI	ALL
F-4	80	7"	MAXITROL 325-3L	2 PSI	ALL
GEN SET	446	11"	MAXITROL 325-7AL	2 PSI	ALL
WH-1	199.9	7"	MAXITROL 325-5L	2 PSI	ALL
WH-2	199.9	7"	MAXITROL 325-5L	2 PSI	ALL
TOTAL LOAD	1246 MBH				

NOTES:

- INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VENT LIMITING DEVICE IF REQUIRED FOR INDOOR REGULATORS EQUIPPED WITH INTEGRAL VENT LIMITING ORIFICE MODEL 12A09, 12A39 OR 12A49.
- COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
- GAS SYSTEM DESIGN ON SAFEROOM ADDITION FOR INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 1500 FEET. SERVES FURNACES F-1 THRU F-4, GAS WATER HEATERS AND GENERATOR.

GAS LOAD TABLE (LOW PRESSURE)					
MARK	INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-5	120	7"	NONE	LOW	ALL
F-6	80	7"	NONE	LOW	ALL
F-7	60	7"	NONE	LOW	ALL
F-8	60	7"	NONE	LOW	ALL
F-9	60	7"	NONE	LOW	ALL
F-10	60	7"	NONE	LOW	ALL
TOTAL LOAD	440 MBH				

NOTES:

- COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
- GAS SYSTEM DESIGN ON NON SAFEROOM ADDITION FOR INITIAL METER OUTLET OF LOW PRESSURE WITH A PRESSURE DROP OF 0.5" W.C. AND TOTAL LENGTH OF 400 FEET. SERVES FURNACES F-5 THRU F-10.

