



CLIENT INFORMATION:
PROJECT INFORMATION:
CONSULTANT INFORMATION:

CALLISONRTKL
Legal Entity
Building Name
City, State, Zip
XXX-XXXXXX

PROJECT INFORMATION:
REI-GLENWOOD SPRINGS
3300 SOUTH GLEN AVENUE
GLENWOOD SPRINGS,
CO, 81601



ISSUING ORGANIZATION:
DATE DESCRIPTION
11/08/2021 BID SET

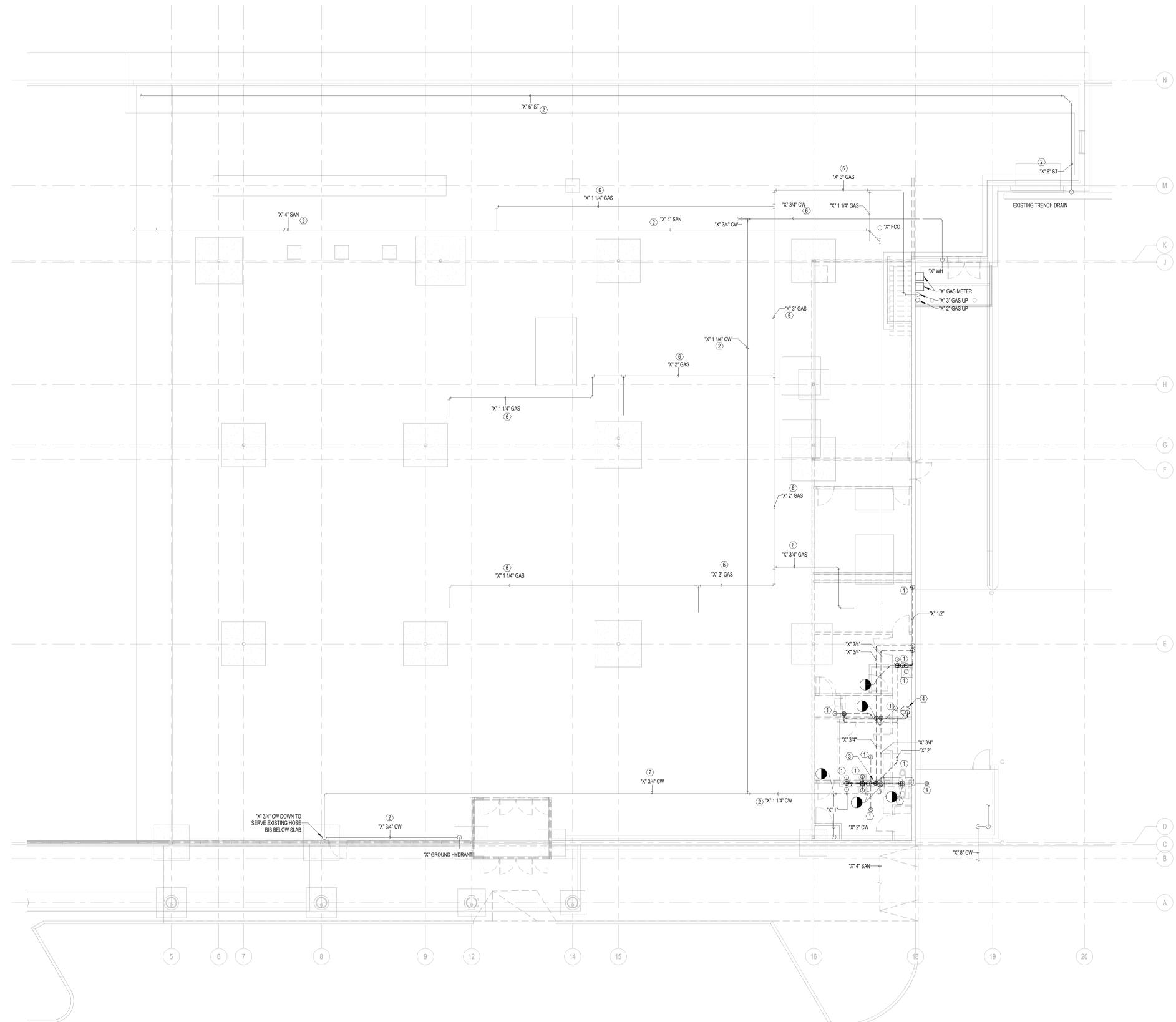
SHEET TITLE:
1ST FLOOR DEMOLITION
PLAN - PLUMBING
SHEET NUMBER:
PD-100

PLUMBING DEMOLITION GENERAL NOTES

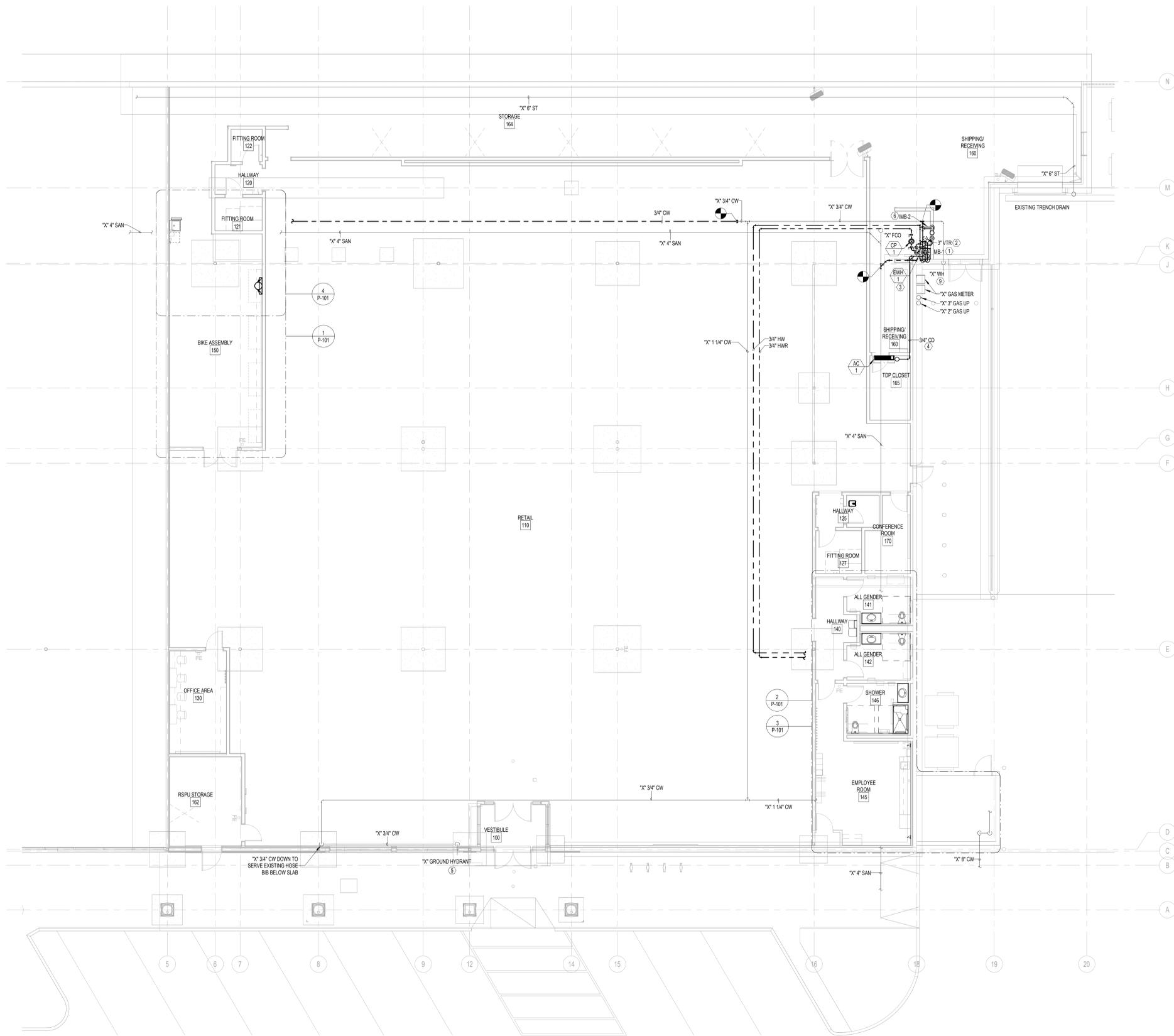
1. SAWCUT EXISTING FLOOR AND WALL CONSTRUCTION AS REQUIRED IN ORDER TO ACCOMMODATE NEW WASTE, VENT AND WATER SUPPLY PIPING. PATCH ALL NEW WORK TO MATCH EXISTING CONSTRUCTION. DEMOLITION OF ALL PLUMBING WASTE LINES SHALL NOT RESULT IN DEAD ENDS GREATER THAN 10'-0" IN LENGTH AND ALL WATER SUPPLY PIPING DEAD ENDS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. PLUMBING CONTRACTOR TO VERIFY ALL EXISTING WASTE, VENT AND WATER SUPPLY PIPING WHERE NEW CONNECTIONS ARE TO BE MADE PRIOR TO BID. VERIFY EXACT SIZE, LOCATION, INVERT, CONDITION AND REQUIREMENTS IN FIELD. REPORT ANY MAJOR DISCREPANCIES TO ARCHITECT/ENGINEER IMMEDIATELY.
3. ALL VALVING AND SPECIALTY EQUIPMENT FOR THE PLUMBING INSTALLATION IS TO BE RUN IN ACCESSIBLE CEILING AREAS. NO VALVING OR EQUIPMENT IS TO BE INSTALLED ABOVE A DRYWALL CEILING OR WITHIN THE WALLS.
4. COORDINATE ROUTING OF ALL PIPING SYSTEMS TO AVOID DUCTWORK, ELECTRICAL CONDUIT, BEAMS AND OTHER STRUCTURAL MEMBERS.
5. PROVIDE PROTECTIVE INSULATED PIPE COVERS ON P-TRAPS, ANGLE STOPS, OFFSET TAILPIECES, RISER SUPPLY TUBES, ETC. FOR ALL ADA ACCESSIBLE FIXTURES.
6. ALL ABANDONED PLUMBING PIPING IS TO BE REMOVED BACK TO MAIN PIPE AND CAPPED OR PLUGGED. ALL CAPS AND PLUGS SHALL BE COMPLETED WITHIN WALLS, ABOVE CEILINGS OR BELOW FINISHED FLOOR AND NOT EXPOSED TO TENANT SPACE.
7. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING PIPING AND FIXTURES IN SPACES TO BE DEMOLISHED.
8. ALL WORK MUST COMPLY WITH LOCAL AND STATE PLUMBING CODES.
9. ALL CLEANOUTS ARE TO BE ACCESSIBLE WITHOUT REMOVAL OF ANY ANCHORED FIXTURE OR FURNITURE. CONTRACTOR TO COORDINATE LOCATIONS PRIOR TO INSTALLATION. WALL CLEANOUTS TO RUN AT FULL LINE SIZE UP FROM BELOW GROUND IN WALL.
10. SAWCUT EXISTING FLOOR AS NECESSARY TO INSTALL NEW PLUMBING TO AREAS OF NEW WORK.

PLUMBING DEMOLITION KEY NOTES

- ① DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED HANGERS. CUT BACK ALL ASSOCIATED PIPING TO MAIN LEAVING NO DEAD LEGS. PATCH FLOOR TO MATCH EXISTING CONDITIONS.
- ② EXISTING PIPING TO REMAIN AS IS.
- ③ EXISTING VTR TO REMAIN.
- ④ DISCONNECT AND REMOVE EXISTING WATER HEATER AND ASSOCIATED HANGERS. CUT BACK ALL ASSOCIATED PIPING TO MAIN LEAVING NO DEAD LEGS.
- ⑤ EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING TO BE REMAIN.
- ⑥ EXISTING GAS PIPING ON THE ROOF TO REMAIN AS IS.



1 1ST FLOOR DEMOLITION PLAN - PLUMBING
PD-100 SCALE: 1/8" = 1'-0" PLUMBING



1 1ST FLOOR PLAN - PLUMBING
 SCALE: 1/8" = 1'-0"
 PLUMBING

PLUMBING SHEET LIST	
PD-100	1ST FLOOR DEMOLITION PLAN - PLUMBING
P-200	PLUMBING SYMBOLS, SCHEDULES, & DETAILS
P-102	RISE/ER DIAGRAMS - PLUMBING
P-101	ENLARGED PLANS - PLUMBING
P-100	1ST FLOOR PLAN - PLUMBING

- PLUMBING GENERAL NOTES**
- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
 - COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISERS, DRIPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
 - DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS, ETCETERA AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
 - ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
 - PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED. REFER TO DETAIL SP-200.
 - PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT. AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.
 - SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS, AND CHASES TO SERVE FIXTURES AND EQUIPMENT.
 - VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS, AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER AS APPLICABLE.
 - USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN RETURN AIR PLENUMS. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 500 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - INSTANTANEOUS WATER HEATER SHALL NOT ENCRUSH INTO ACCESSIBLE CLEARANCE REQUIREMENTS AT THE SINKS/LAVATORIES.
 - PROVIDE ACCESS PANELS TO SHUT-OFF/CONTROL VALVES LOCATED ABOVE DRYWALL CEILING OR BEHIND WALL WHERE NECESSARY. COORDINATE LOCATION WITH ARCHITECT.

- PLUMBING KEY NOTES**
- 3" SANITARY CONNECTION TO SERVICE MOP BASIN WITH P-TRAP IN WALL. 4" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.
 - PROVIDE 3/4" COLD WATER AND HOT WATER SUPPLY WITH STOP TO MOP BASIN.
 - PROVIDE AND INSTALL WATER HEATER AND EXPANSION TANK PER DETAIL 3P-200 AND 4P-200. WATER HEATER TO BE MOUNTED ON A PLATFORM, WITH THE BOTTOM OF THE PLATFORM A MINIMUM OF 106" AFF. ROUTE DISCHARGE TO NEAREST MOP BASIN.
 - CONDENSATE DRAIN LINE FROM AC-1. PROVIDE WITH CONDENSATE PUMP (DAIKIN PART #DACA-CP3-1) AND ROUTE 3/4" CONDENSATE DRAIN TO NEAREST MOP BASIN. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION. CONDENSATE LINE TO DROP DOWN INTO WALL AND DISCHARGE INTO MOP BASIN WITH AIR GAP.
 - EXISTING GROUND HYDRANT TO REMAIN.
 - INSTALL MB-2 PER MANUFACTURER'S RECOMMENDATION. EXTEND 1/2" COLD AND HOT WATER SUPPLIES FROM ABOVE AND ROUTE DOWN IN WALL TO WASHER. EXTEND 2" VENT UP TO ABOVE CEILING AND 3" SAN DOWN TO SANITARY MAN AS SHOWN.

CLIENT STROKE NUMBER
#235



PROJECT INFORMATION
CALLISONRTKL
 Legal Entity
 Building Name
 City, State, Zip
 XXX-XXXXXX



PROJECT INFORMATION
REI-GLENWOOD SPRINGS
 3200 SOUTH GLEN AVENUE
 GLENWOOD SPRINGS,
 CO, 81601



ISSUING OFFICE LOG
 REV DATE DESCRIPTION
 11/08/2021 BID SET

SHEET TITLE
1ST FLOOR PLAN - PLUMBING
 SHEET NUMBER
P-100



CALLISON|TKL
Legal Entity
Building Name
City, State, Zip
XXX-XXXXXX



REI-GLENWOOD SPRINGS
3200 SOUTH GLEN AVENUE
GLENWOOD SPRINGS,
CO, 81611



ISSUING OFFICE LOG
REV DATE DESCRIPTION
11/08/2021 BID SET

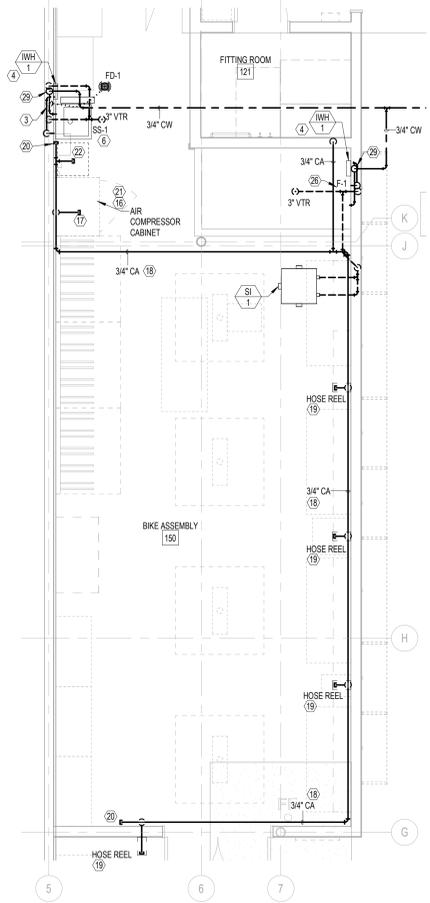
SHEET TITLE
ENLARGED PLANS - PLUMBING
SHEET NUMBER
P-101

PLUMBING GENERAL NOTES

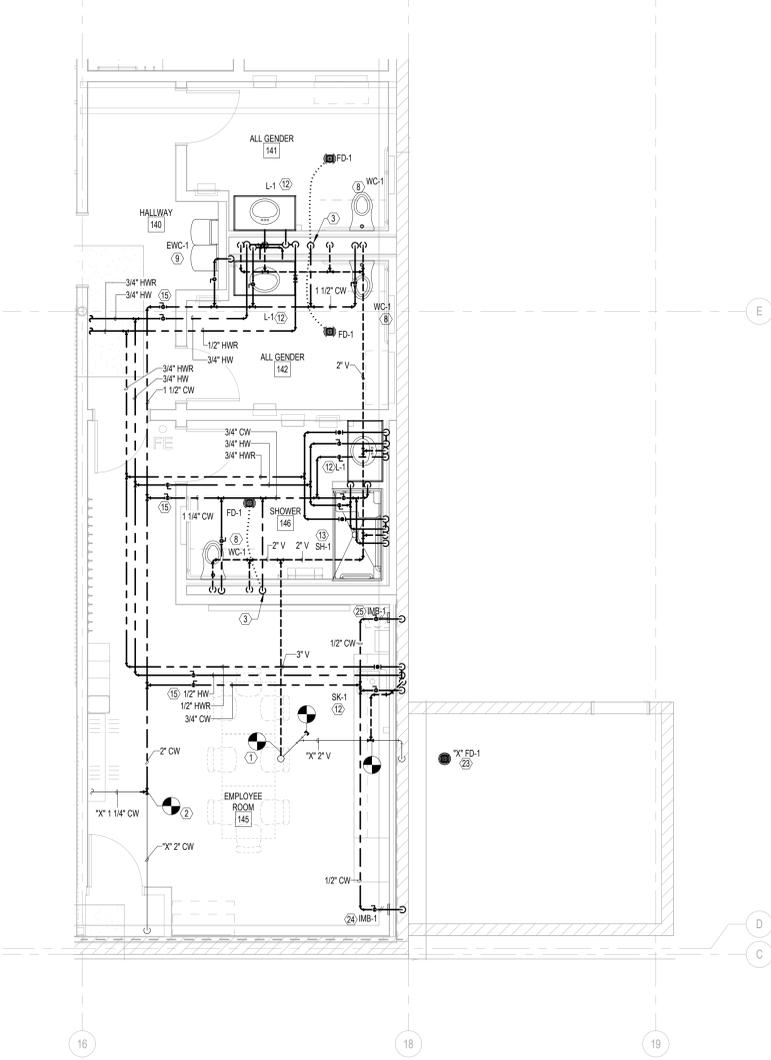
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PLUMBING KEY NOTES

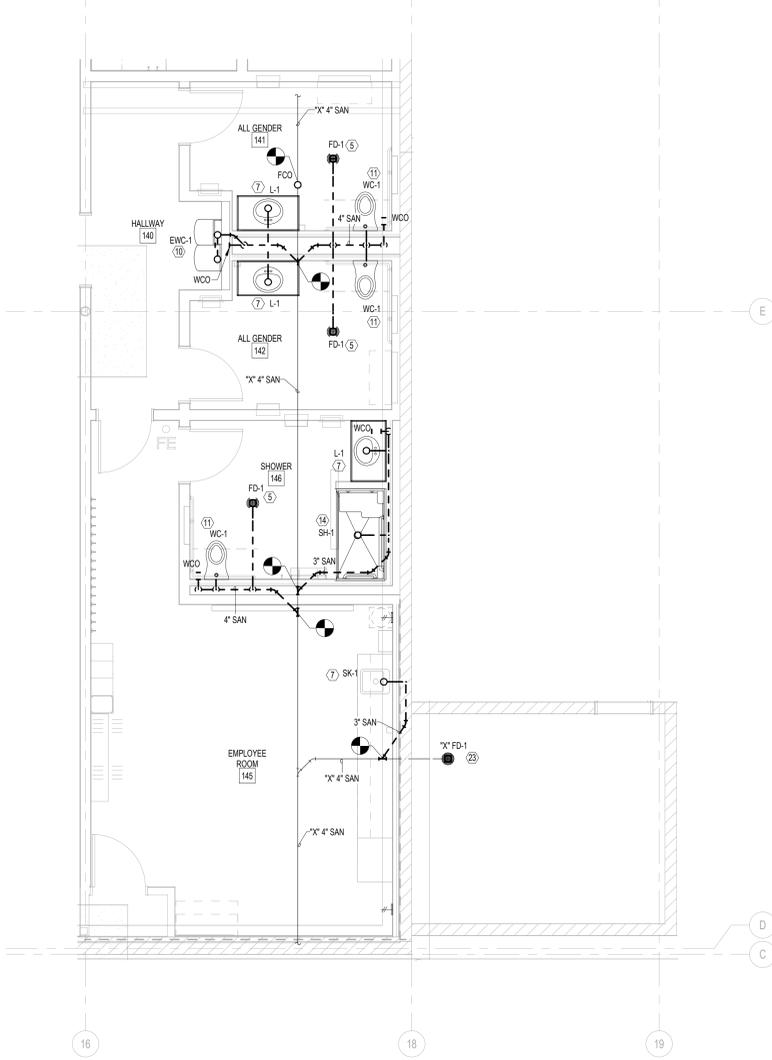
- CONNECT TO EXISTING VENT THRU ROOF PROVIDED BY LL IN THIS VICINITY PER DETAIL 5P-200. VERIFY ALL VENTS ARE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKES.
- EXTEND 2" DOMESTIC PIPING TO CONNECT TO EXISTING LANDLORD PROVIDED SERVICE. BACKFLOW PREVENTER AND WATER METER. VERIFY MAIN SHUT-OFF VALVE LOCATION AND PROVIDE ALUMINUM SIGN THAT READS "DOMESTIC WATER SHUT-OFF VALVE".
- PROVIDE TRAP PRIMER IN THIS VICINITY PER DETAIL 1P-200.
- PROVIDE INSTANTANEOUS WATER HEATER IN THIS VICINITY PER DETAIL 2P-200.
- INSTALL FLOOR DRAIN AND CONNECT TO UNDERGROUND SANITARY LINE IN THIS VICINITY. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTION.
- PROVIDE 3/4" COLD WATER AND HOT WATER SUPPLY WITH STOP TO SINK. EXTEND 2" VENT UP TO ABOVE CEILING. SEE SCHEDULE FOR MORE INFORMATION.
- 1 1/2" SANITARY CONNECTION TO SERVICE SINKS/LAVATORY WITH P-TRAP IN WALL. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.
- PROVIDE 1-1/4" COLD WATER SUPPLY WITH STOP TO WATER CLOSET.
- PROVIDE 1/2" COLD WATER SUPPLY WITH STOP TO ELECTRIC WATER COOLER.
- 1-1/2" SANITARY CONNECTION TO ELECTRIC WATER COOLER WITH P-TRAP IN WALL. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.
- 4" UNDERGROUND SANITARY CONNECTION TO WALL MOUNTED WATER CLOSET. CONNECT TO 4" UNDERGROUND SANITARY BELOW FLOOR WITH 2" VENT UP TO ABOVE CEILING.
- PROVIDE 1/2" COLD AND HOT WATER SUPPLIES WITH STOPS TO LAVATORY SINK. EXTEND 2" VENT UP TO ABOVE CEILING. PROVIDE MIXING VALVE (TMV-1) ON ALL LAVATORY SINKS. SEE SCHEDULE FOR MORE INFORMATION.
- PROVIDE 1/2" COLD WATER AND HOT WATER SUPPLY WITH STOPS TO SHOWER. EXTEND 2" VENT UP TO ABOVE CEILING.
- 1-1/2" SANITARY CONNECTION TO SHOWER WITH P-TRAP. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.
- LOCATE SHUT-OFF VALVE BETWEEN 8'-0" AND 11'-0" AFF. IF ABOVE INACCESSIBLE CEILING, PROVIDE WITH ACCESS PANEL. IF ABOVE CEILING, PROVIDE WITH LABEL TO READ "LOCATION OF ZONE SHUT-OFF VALVE".
- CONTRACTOR TO INSTALL COMPRESSOR AND PROVIDE A QUICK CONNECT CONNECTION TO THE COMPRESSOR AND PIPING. CONTRACTOR TO MOUNT COMPRESSOR ON WALL. MAKE NECESSARY ADJUSTMENTS AND ROUTING OF CA PIPING TO CONNECT TO AIR COMPRESSOR.
- 3/4" SUPPLY RISER ON FM MANIFOLD TO 1/4" MALE PIPE THREAD TERMINATION AT 48" AFF. MAKE NECESSARY ADJUSTMENTS TO ROUTING OF CA PIPING TO AIR COMPRESSOR.
- 3/4" COMPRESSED AIR LINE AT 13'-4" AFF. AIRLINE TO BE COPPER AND SURFACE MOUNTED WITH NO EXCEPTIONS. INSTALL BY CONTRACTOR.
- ALL COMPRESSED AIR LINES TO BE INSTALLED TIGHT TO WALL, NOT ON OVERHEAD UNISTRUT. PROVIDE REEL/CRAFT HOSE REEL EQUAL TO GRANGER #26300 (REEL/CRAFT #4420-OLP). USE FLEXIBLE AIR HOSE TO CONNECT TO HOSE REEL FROM CA PIPE. (FOIC).
- 3/4" CA CAPPED END WITH MALE PIPE THREAD.
- PROVIDE A 90 DEG ELBOW, 1" HOSE BALL VALVE WITH NPT THREADING, AND A 10'-0" LONG VINYL HOSE FOR DRAINAGE FROM THE COMPRESSOR.
- AIR LINE END WITH FEMALE 1/4" NPT FITTING PER STANDARD.
- EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING TO BE REMAIN.
- INSTALL IMB-1 PER MANUFACTURER'S RECOMMENDATION. CONNECT AND CAP 1/2" CW PIPING FOR FUTURE CONNECTION TO REFRIGERATOR TO SUPPLY INTEGRAL ICE MAKER. PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY CODE.
- INSTALL IMB-1 PER MANUFACTURER'S RECOMMENDATION. CONNECT AND CAP 1/2" CW PIPING FOR FUTURE CONNECTION TO OWNER-PROVIDED WATER COOLER. COORDINATE SIZE AND LOCATION WITH OWNER. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY CODE.
- PROVIDE 3/4" COLD WATER AND HOT WATER SUPPLY WITH STOPS TO BIKE WASH FAUCET AT 4'-0" AFF. FAUCET TO BE CHICAGO FAUCET 891 3" CENTERS, WALL MOUNTED FAUCET, VACUUM BREAKER ASSEMBLY, COMMERCIAL-GRADE HOSE ATTACHMENT.
- SAND SEDIMENT INTERCEPTOR SERVING FLOOR SINK AT BIKE WASH STATION. INTERCEPTOR TO BE ZURN Z1187-SI SIZE 20. INTERCEPTOR TO HAVE SOLID, NON-GRATE, HEAVY DUTY (SUITABLE FOR FOOT TRAFFIC), REMOVABLE COVER FOR MAINTENANCE AND CLEANING. COORDINATE FINAL LOCATION OF S-I WITH STRUCTURAL FOOTINGS AND EQUIPMENT/FURNITURE ON FLOOR TO MAINTAIN ACCESS TO THE INTERCEPTOR.
- INSTALL FLOOR SINK AND CONNECT TO UNDERGROUND SANITARY LINE IN THIS VICINITY. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTION.
- LOCATE SHUT-OFF VALVE IN WALL AT 5'-0" AFF. PROVIDE WITH WALL ACCESS PANEL AND LABEL TO READ "LOCATION OF ZONE SHUT-OFF VALVE".



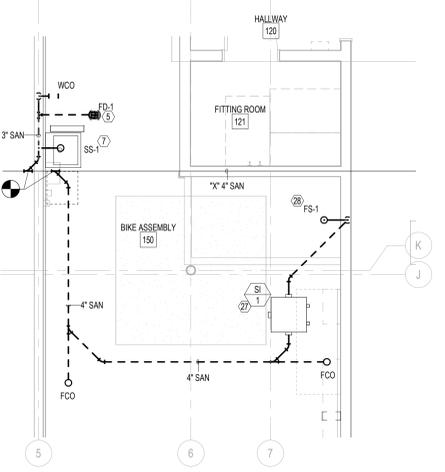
1 ENLARGED BIKE ASSEMBLY PLUMBING PLAN - DOMESTIC WATER AND VENT
P-101 NO SCALE PLUMBING



2 ENLARGED PLUMBING PLAN - DOMESTIC WATER AND VENT
P-101 SCALE: 1/4" = 1'-0" PLUMBING



3 ENLARGED PLUMBING PLAN - SANITARY
P-101 SCALE: 1/4" = 1'-0" PLUMBING



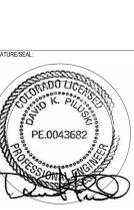
4 ENLARGED BIKE ASSEMBLY PLUMBING PLAN - SANITARY
P-101 NO SCALE PLUMBING



ARCHITECT INFORMATION
CALLISONRTKL
Legal Entity
Building Name
City, State, Zip
XXX-XXXXXX

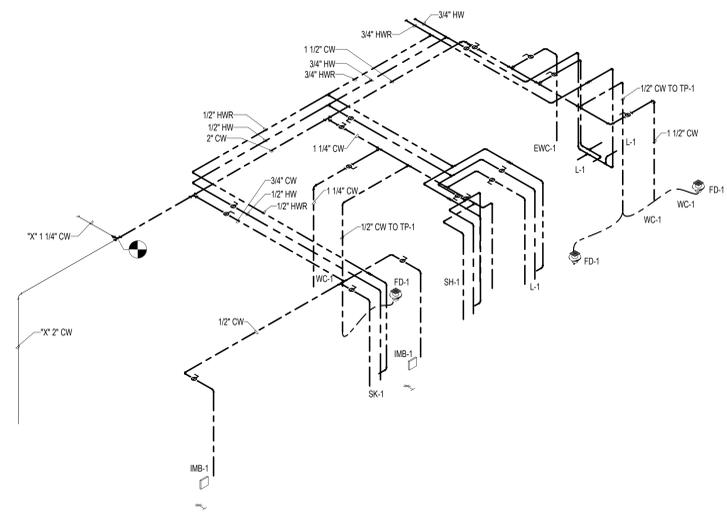


PROJECT INFORMATION
REI-GLENWOOD SPRINGS
3300 SOUTH GLEN AVENUE
GLENWOOD SPRINGS,
CO, 81601

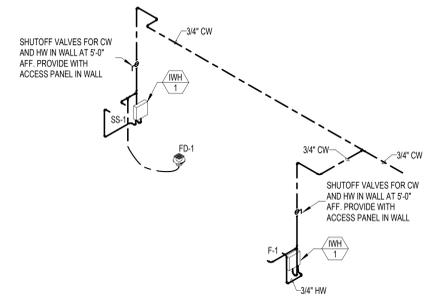


ISSUING INSURANCE LOG
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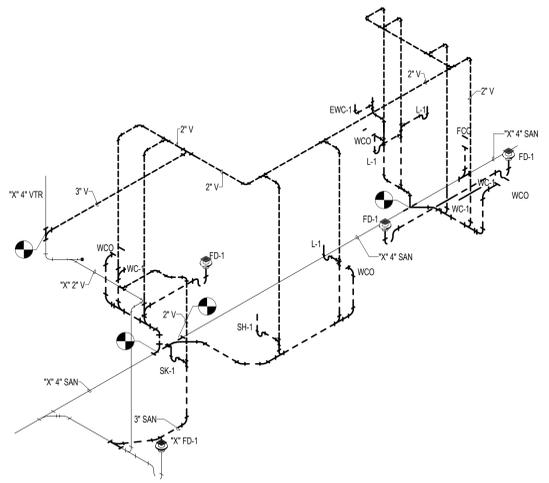
SHEET TITLE
RISER DIAGRAMS - PLUMBING
SHEET NUMBER
P-102



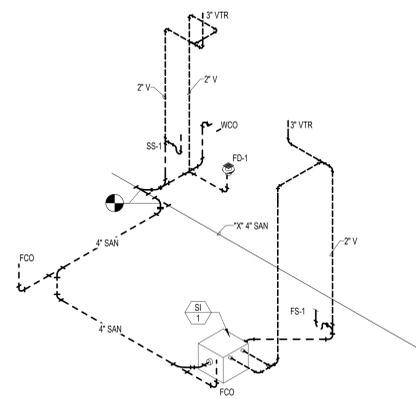
1 DOMESTIC WATER RISER DIAGRAM



2 PLUMBING RISER - BIKE ASSEMBLY - DOMESTIC WATER SUPPLY



3 SANITARY & VENT RISER DIAGRAM



4 PLUMBING RISER - BIKE ASSEMBLY - SANITARY AND VENT

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:	LINETYPES:	LINETYPES:
AFFAFG ABOVE FINISHED FLOOR GRADE	---	PLUMBING VENT (V) - BELOW SLAB GRADE
BFP BACKFLOW PREVENTER	---	SANITARY WASTE (SM) - BELOW SLAB GRADE
CO CLEANOUT	---	STORM LINE (ST) - ABOVE SLAB GRADE
FOC FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	---	STORM LINE (ST) - BELOW SLAB GRADE
FFCOFGCO FLUSH FLOOR GRADE CLEANOUT	---	O/S OVERFLOW STORM LINE (O/S) - ABOVE SLAB GRADE
IW INDIRECT WASTE	---	O/S OVERFLOW STORM LINE (O/S) - BELOW SLAB GRADE
PC PLUMBING CONTRACTOR	---	
RI ROUGH-IN	---	
TYP TYPICAL	---	
UNLESS NOTED OTHERWISE	---	
VTR VENT THRU ROOF	---	
WCL WALL CLEANOUT	---	
(E) EXISTING	---	
		GENERAL REFERENCES/NOTATIONS:
		○ CONNECT TO EXISTING
		□ PLAN NOTE DESIGNATION
		○ CIRCLE NOTE DESIGNATION
		○ FIXTURE DESIGNATION
		△ FIRE PROTECTION NOTE DESIGNATION
		○ REVISION DESIGNATION
		○ EQUIPMENT DESIGNATION
		PIPE SYMBOLS:
		--- EXISTING PLUMBING LINE - SEE DRAWING
		--- WATER LINE BELOW SLAB GRADE
		--- COLD WATER (CW)
		--- HOT WATER (HW) 120°
		F FIRE PROTECTION (F) (SPRINKLER/STANDPIPE)
		CA COMPRESS AIR (CA)
		G GAS LINE (G)
		D CONDENSATE LINE (D)
		OO OVERFLOW CONDENSATE LINE (OO)
		--- PLUMBING VENT (V)
		○ PIPE TURNING UP/DOWN
		○ TEE TURNING UP/DOWN
		○ SHUTOFF VALVE (BALL TYPE)
		○ CHECK VALVE
		○ END CAP

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

TAG	QTY	FIXTURE	MANUFACTURER	MODEL	NOTES
PROVIDE SPECIFIED FIXTURES IN THIS PORTION OF THE SCHEDULE. NO SUBSTITUTIONS ALLOWED.					
WC-1	3	WATER CLOSET	KOHLER	#K-4325-0	WATER CLOSET (HANDICAP, WALL HUNG): KOHLER #K-4325-0, WHITE VITREOUS CHINA, ELONGATED SIPHON, JET BOWL AND 1 1/2" TOP SPUD, SLOAN #WES-111-YO, 1.6/1.1 GPF DUAL FLUSH VALVE, BEMIS #195SCT WHITE, OPEN FRONT SEAT, LESS COVER. PROVIDE JR SMITH CARRIER AND FITTINGS AS REQUIRED FOR INSTALLATION WITH RI PER ARCHITECT. FLUSHING SHALL BE FROM THE WIDE SIDE OF THE TOILET STALL.
L-1	3	LAVATORY	SLOAN	SF-2100 SERIES	LAVATORY (HANDICAP, COUNTERTOP): LAVATORY TO BE INTEGRAL TO COUNTERTOPS AND PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. FAUCET TO BE SLOAN SF-2100 SERIES, ADA COMPLIANT, SENSOR ACTIVATED, CHROME PLATED BRASS, PEDESTAL FAUCET, 0.5 GPM SPRAY HEAD, PROVIDE JR SMITH CARRIER AND FITTINGS FOR 4" CENTERSET SINK, MIX-60 BELOW DECK MECHANICAL MIXING VALVE, AND SFP-6 110 VAC/6 VDC PLUG-IN ADAPTER. PROVIDE GRID STRAINER DRAIN WITH TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON AND 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. INSULATE WATER AND WASTE PIPING UNDER LAVATORY WITH TRUEBRO "LAV GUARD" #102E-Z, RI PER ARCHITECT.
SK-1	1	COUNTER SINK	ELKAY	LRAD1720-1	COUNTER SINK: ELKAY #LRAD1720-1, 20"x17"x5 1/2" SINGLE COMPARTMENT, SELF-RIMMING, 18 GAUGE STAINLESS STEEL COUNTERTOP SINK WITH FAUCET LEDGE AND 1 HOLE CENTERED PUNCHED. KOHLER #K-15171-P-CP, SINGLE LEVER HANDLE FAUCET AND REPLACE AERATOR WITH #1053333 1.5 GPM AERATOR. PROVIDE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON, 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. SET FIXTURE IN BED OF PUTTY.
SS-1	1	SHOP SINK	KOHLER	K-12794-0	SHOP SINK (WALL MOUNT): KOHLER #K-12794-0, SINGLE COMPARTMENT UTILITY SINK, WHITE VITREOUS CHINA, 3 HOLE DRILLED AND #K-1814-P WALL BRACKETS, CHICAGO FAUCETS #526-ABCP WITH 6" SWING SPOUT, 4" CENTER SET, METAL LEVER HANDLES AND REPLACE AERATOR WITH #853JKCP, 1.5 GPM AERATOR, PLACE IN THE LEFT 2 HOLES. PROVIDE GRID STRAINER DRAIN WITH TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON AND 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. PLACE DECK FAUCET/TOILET BIB WITH VACUUM BREAKER INTO THE THIRD HOLE. THE DECK FAUCET (HOSE BIB) SHALL BE CHICAGO FAUCET #349-100328CP (ORDER THRU LOCAL REP), DECK MOUNTED (#349), SHORT SPOUT, VACUUM BREAKER, 3/4" THREADED HOSE CONNECTION (#305-SVBJKCP), METAL LEVER HANDLE (#369-PLJKCP), CHROME PLATED. MOUNT IN THIRD HOLE OF SHOP SINK.
SH-1	1	SHOWER	FREEDOM SHOWERS	#APPQ6333BF875	ROLL-IN / TRANSFER SHOWER: FREEDOM SHOWERS MODEL #APPQ6333BF875 SIZE: 63"x34" OPTIONS TO INCLUDE: 1) ADA ACCESSORY PACKAGE, 2) PRESSURE BALANCED VALVE/HAND SHOWER & GLIDE BAR, 3) 5" COLLAPSIBLE WATER RETAINER, 4) PROVIDE OUTLET WITH P-TRAP AND CLEAN/POLISH STRAINER TOP AFTER INSTALLATION, REPLACE HAND SPRAY WITH 2.0 GPM, PROVIDE AND INSTALL AN ADDITIONAL SINGLE HANDLE PRESSURE BALANCING SHOWER UNIT AND PROVIDE SEPARATE CW AND HW PIPING TO CONTROL VALVE - ZURN TEMP-GUARD II - #Z7301-SS-MT.
EWC-1	1	ELECTRIC WATER COOLER	OASIS VERSACOOLER II	#PGBEFSL	DRINKING FOUNTAIN (HANDICAP, WALL MOUNTED): DUAL HEIGHT WITH BOTTLE FILLER, FOUR PUSH PAD ACTIVATION WITH A MINIMUM CAPACITY 8.0 GPM FROM 80°F TO 50°F WITH AMBIENT TEMPERATURE OF 80°F UTILIZING A 1/4 HP, 115V, 1 PHASE COMPRESSOR. PROVIDE 1/4 TURN ANGLE BALL STOP WITH METAL HANDLE, P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL, COORDINATE WITH ARCHITECT FOR WHICH SIDE IS THE HIGHER SIDE.
IWH-1	2	INSTANTANEOUS WATER HEATER	EEMAX	#EX200TC	WATER HEATER (INSTANTANEOUS): EEMAX #EX200TC, 277V-10, 20KW, 72 AMPS (2 CIRCUIT REQUIRED), 1.5 GPM AT 91°F TEMPERATURE RISE, CONSTRUCTED OF HIGH STRENGTH REINFORCED ENGINEERING PLASTIC, RATED AT 150 PSI WORKING PRESSURE, 2 FIELD SERVICEABLE NICKEL-CHROME HEATING ELEMENT, HIGH TEMPERATURE LIMIT SWITCH AND FIVE YEAR WARRANTY. SET HEATER TEMPERATURE AT 120°F.
MB-1	1	MOP BASIN	FIAT	#MSB 2424	FLOOR MOUNTED MOLDED STONE BASIN 24"x24" WITH RAISE DRAIN SHELF WITH 3" DRAIN. PROVIDE WITH WALL MOUNTED CHROME FINISH, PAIL AND WALL BRACE WITH INTEGRAL STOPS - CHICAGO FAUCET 897
F-1	1	BIKE WASH FAUCET	CHICAGO	#897	BIKE WASH FAUCET: CHICAGO FAUCET #897, WALL MOUNTED WITH ROUGH CHROME FINISH, VACUUM BREAKER ASSEMBLY, CERAMIC 1/4-TURN OPERATING CARTRIDGE, 8" CENTERS, 1/2" NPT COMMERCIAL GRADE HOSE ATTACHMENT.
PROVIDE SPECIFIED FIXTURES OR APPROVED EQUALS IN THIS PORTION OF THE SCHEDULE.					
FD-1	5	FLOOR DRAIN	JR SMITH	#2005-P050-B059NB	FLOOR DRAIN: JR SMITH #2005-P050-B059NB WITH 5" SQUARE, NICKEL BRONZE ADJUSTABLE STRAINER HEAD, CAST IRON DRAIN BODY MEMBRANE FLASHING CLAMP AND TRAP PRIMER CONNECTION. PROVIDE OUTLET WITH P-TRAP, CLEAN AND POLISH STRAINER TOP AFTER INSTALLATION.
FS-1	1	FLOOR SINK	SIOUX CHIEF	#861-283X	FLOOR SINK: SIOUX CHIEF #861-283X - CAST IRON, 8X8, PROVIDE WITH FULL GRATE.
TP-1	3	TRAP PRIMER	PRECISION PLUMBING	#P1-500	TRAP PRIMER: PRECISION PLUMBING PRODUCT #P1-500, AUTOMATIC OPERATIONS, 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAIN WITH DISTRIBUTION UNIT. INSTALL IN ACCESSIBLE LOCATION WITH PRIMER BEING A MINIMUM OF 6" ABOVE FLOOR LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
EW-1	1	ELECTRIC WATER HEATER	AO SMITH	#DEL-40-12KW	WATER HEATER: AO SMITH #DEL-40-12KW, 40 GALLON STORAGE, 30 GPM RECOVERY AT 80° RISE AND TWO 6000 WATT NON-SIMULTANEOUS HEATING INPUT AT 277 VOLT, SINGLE PHASE SERVICE, THREE YEAR LIMITED WARRANTY, MAGNESIUM ANODE, GLASS-LINED, MEETING CURRENT EDITION OF ASHRAE 90.1B AND LOCAL ENERGY CONSERVATION REQUIREMENTS, PROVIDE T&P RELIEF VALVE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS, PROVIDE HOLIDRITE 50-SVHP-W WALL-HUNG PLATFORM WITH 1" PVC DRAIN FITTING, PRE-ASSEMBLED AND WATER-TIGHT.
EXT-1	1	EXPANSION TANK	AMTROL	#ST-5	EXPANSION TANK: AMTROL #ST-5 "THERM-X-TROL", TOTAL VOLUME OF 2.0 GALLONS WITH MAXIMUM ACCEPTANCE VOLUME OF 0.9 GALLONS, 34" CONNECTION. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
TMV-1	4	THERMOSTATIC MIXING VALVE	SYMMONS	#7-225-CK	MIXING VALVE: SYMMONS #7-225-CK "MAXLINE", 1/2" INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH INTEGRAL CHECKS, ALL BRASS BODY WITH DUAL STAINLESS STEEL STRAINER, VANDAL-RESISTANT TEMPERATURE ADJUSTMENT HANDLE, SET TO 105°, MOUNT IN ACCESSIBLE LOCATION.
CP-1	1	CIRCULATION PUMP	GRUNDFOS	#ALPHA 15-55SF	CIRCULATION PUMP: GRUNDFOS #ALPHA 15-55SF, STAINLESS STEEL PUMP WITH A CAPACITY OF 3 GPM AT 12 FT HEAD, 45 WATTS MAX, 115V-100. INSTALL NEAR WATER HEATER PER MANUFACTURER'S INSTRUCTIONS.
IMB-1	2	ICE MAKER BOX	OATEY	#39114	ICE MAKER BOX, PEX CONNECTION, NAILS PROVIDED, RECESSED IN WALL WITH FACE PLATE.
IMB-2	1	WASHER BOX	OATEY	#37611	WASHER BOX, 2-VALVE WITH STANDARD DRAIN, F1807 PEX (BRASS), HAMMER, NAILS PROVIDED, RECESSED IN WALL WITH FACE PLATE.
SI-1	1	SAND INTERCEPTOR	ZURN	#Z1187-SI	SAND AND SEDIMENT INTERCEPTOR: ZURN #Z1187-SI SIZE 20 (BRASS) WITH REMOVABLE COVER FOR MAINTENANCE AND CLEANING.

FIXTURE BRANCH SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (FLUSH VALVE)	1-1/4"	--	4"	2"
URINAL (FLUSH VALVE)	1"	--	2"	1-1/2"
LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"
SINK / SHOP SINK	1/2"	1/2"	2"	1-1/2"
SHOWER	1/2"	1/2"	2"	1-1/2"
DRINKING FOUNTAIN	1/2"	--	1-1/4"	1-1/4"
FLOOR DRAIN	--	--	2'0"	1-1/2"
FLOOR DRAIN	--	--	4"	2"
HOSE BIBB	3/4"	--	--	--

SIZES ARE MINIMUM BRANCH SIZE TO FIXTURE.

WATER PIPING SIZING CHART

PIPE SIZE	FLUSH TANK	FLUSH VALVE	HOT WATER
	FLUSH GPM	FLUSH GPM	FLUSH GPM
1/2"	2	2.5	3
3/4"	8	6.5	8
1"	18	13	21
1-1/4"	36	23	28
1-1/2"	74	37	49
2"	225	70	119

MAXIMUM VELOCITY IN CW PIPING - 8 FPS
MAXIMUM VELOCITY IN HW PIPING - 5 FPS
TYPE OF COPPER WATER PIPING - TYPE L

WATER FIXTURE UNIT SCHEDULE

FIXTURE	QUANTITY	WSFU	TOTAL
WATER CLOSET (FLUSH VALVE)	3	10	30
MOP SINK	1	3	3
LAVATORY	3	1.5	4.5
SINK	1	3	3
SHOWER	1	3	3
DRINKING FOUNTAIN	1	0.25	0.25
HOSE BIBB	0	0.5	0
SHOP SINK	1	2.25	2.25
		TOTAL	46

FIXTURE UNIT VALUES ARE FROM THE INTERNATIONAL PLUMBING CODE 2012.

WATER CALCULATION

CRITICAL ELEVATIONS:	FEET
VERTICAL DISTANCE FROM WATER MAIN TO CONTROLLING FIXTURE	20
SYSTEM PRESSURE REQUIREMENTS:	PSI
ELEVATION (VERTICAL DISTANCE) X 0.434 PSIFT	8.68
PRESSURE NEEDED AT CONTROLLING FIXTURE (WATER CLOSET)	30.00
BACKFLOW PREVENTER, 2" AT 56 GPM	10.00
PRESSURE REDUCING VALVE (64 PSI), 2" AT 56 GPM	10.00
WATER METER, 2" AT 56 GPM	5.00
TOTAL	63.68
PIPE RUNS:	FEET
EXTERIOR MAIN TO BUILDING ENTRY (UNKNOWN)	100
INTERIOR ENTRY TO REMOTE FIXTURE	160
ALLOWANCE FOR FITTING, ETC. (LENGTH X 0.25)	65
TOTAL	325
SYSTEM PRESSURE DATA:	PSI
STREET PRESSURE	105.00
SYSTEM PRESSURE REQUIRED	63.68
PRESSURE AVAILABLE FOR PIPING FRICTION LOSS	41.32
PIPE SIZING PER 100 FEET OF PIPING:	PSI
(PRESSURE AVAILABLE) X 100 / (TOTAL PIPE RUN)	12.71

* NOTE: ALL PIPING IS SIZED FOR 5 PSI/100' PRESSURE LOSS

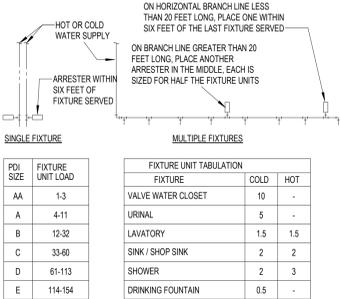
MAXIMUM FIXTURE FLOW RATES/FLUSH RATES

FIXTURE	FLUSH RATES
WATER CLOSET (FLUSH VALVE)	1.28
LAVATORY	5 @ 60 PSI

SIZES ARE MAXIMUM FOR FIXTURES.

PIPE MATERIAL SCHEDULE

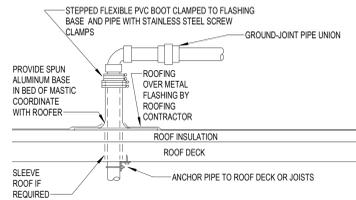
SYSTEM	PIPING						FITTINGS		MAX. WORKING		FIELD TEST	
	SIZE	TYPE	SCHEDULE	GRD	ASTM	MATERIAL	MATERIAL	TYPE	PRESS.	TEMP.	PRESS.	TEMP.
DOMESTIC WATER ABOVE GRADE	ALL	L	--	--	888	CP	CP	SJ	120	40-180	150	1 HR
DOMESTIC WATER ABOVE GRADE	ALL	K	--	--	888	CP	CP	SJ	120	40-180	150	1 HR
WASTE & VENT BELOW GRADE	ALL	DWV	40	--	2665	PVC	PVC	DRSW	10 R	140-210	10 R	1 HR
WASTE & VENT ABOVE GRADE	ALL	NH	SS	--	A74	CI	CI	DRNH	10 R	50-180	10 R	1 HR
CONDENSATE DRAIN ABOVE GRADE	ALL	M	--	--	888	CP	CP	DRIS	10 R	40-70	10 R	1 HR
CONDENSATE DRAIN ABOVE GRADE	ALL	DWV	40	--	2665	PVC	PVC	DRSW	10 R	100	10 R	1 HR
ROOF DRAIN ABOVE GRADE	ALL	NH	SS	--	A74	CI	CI	DRNH	10 R	40-80	10 R	1 HR
ROOF DRAIN ABOVE GRADE	ALL	DWV	40	--	2665	PVC	PVC	DRSW	10 R	40-80	10 R	1 HR



PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WAITS OR APPROVED EQUIVALENT WITH PISTON AND ORING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #4112.26. IN CERTIFICATION, SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 80 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER).

4 WATER HAMMER ARRESTERS

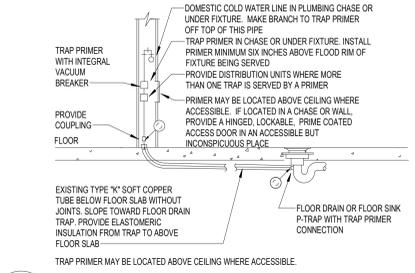
P-200 NO SCALE PLUMBING



REFER TO PLANS FOR PIPE SIZES AND LOCATIONS. USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

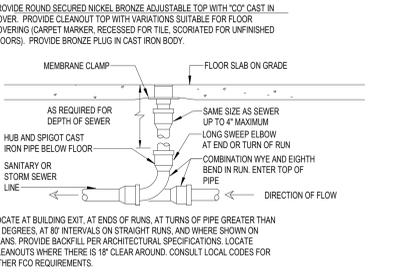
3 ROOF PENETRATION

P-200 NO SCALE PLUMBING



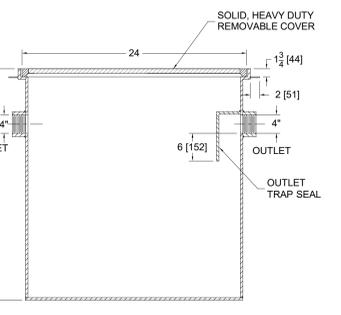
2 TRAP PRIMER

P-200 NO SCALE PLUMBING



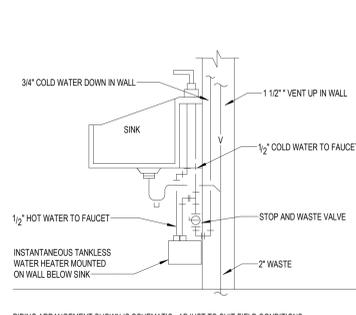
1 FLOOR CLEANOUT

P-200 NO SCALE PLUMBING



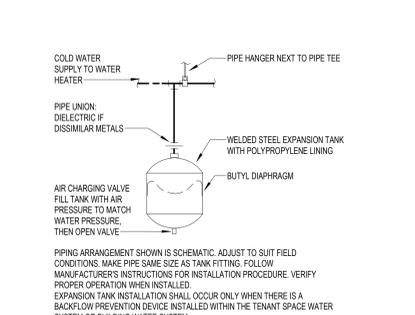
8 SAND INTERCEPTOR

P-200 NO SCALE PLUMBING



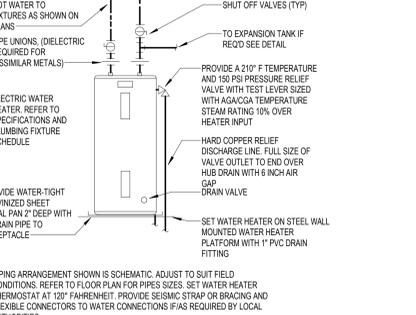
7 INSTANTANEOUS WATER HEATER (SINK)

P-200 NO SCALE PLUMBING



6 EXPANSION TANK

P-200 NO SCALE PLUMBING



5 ELECTRIC WATER HEATER

P-200 NO SCALE PLUMBING



CALLISONRTKL
Legal Entity
Building Name
1111 S. Main St.
City, State, Zip
XXX-XXXX-XX



REI-GLENWOOD SPRINGS
3300 SOUTH GLEN AVENUE
GLENWOOD SPRINGS,
CO, 81601



ISSUING AGENCY LOG
REV DATE DESCRIPTION
11/08/2021 BID SET

PLUMBING SYMBOLS, SCHEDULES, & DETAILS
P-200