

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
---	CW	COLD WATER LINE
---	HW	HOT WATER LINE
---	HWR	HOT WATER RETURN
---RO	RO	R.O. (REVERES OSMOSIS) COLD WATER LINE
---G	G	GAS LINE
----	V	VENT LINE
---	S or W	SOIL OR WASTE BELOW FLR OR GRADE
---	S or W	SOIL OR WASTE -- SUSPENDED
---DS	DS	DOWNSPOUT
---OD	OD	OVERFLOW DRAIN
---SD	SD	STORM DRAIN BELOW FLR OR GRADE
F	F	AUTO FIRE SPRINKLER (N.I.P.C.)
GV	GV/SOV	GATE VALVE / SHUT OFF VALVE
CV	CV	CHECK VALVE
WV	WV	COMBINATION WASTE AND VENT
FS	FS	FLOOR SINK
FD OR AD	FD OR AD	FLOOR OR AREA DRAIN
RD OR OD	RD OR OD	ROOF OR OVERFLOW DRAIN
FCO	FCO	FLOOR CLEANOUT
WCO/CCO	WCO/CCO	WALL CLEANOUT/CEILING CLEANOUT
HB	HB	HOSE BIB
U	U	UNION
D	D	DRAIN
PC/SOC	PC/SOC	PLUG COCK / SHUT-OFF COCK
SR	SR	SUD RELIEF
A.P.	A.P.	ACCESS PANEL
BEL.	BEL.	BELOW
ABV.	ABV.	ABOVE
DN.	DN.	DOWN
CLG.	CLG.	CEILING
CL.	CL.	CAST IRON
CONC.	CONC.	CONCRETE
CONN.	CONN.	CONNECT
DWG.	DWG.	DRAWING
FIN. FLR.	FIN. FLR.	FINISHED FLOOR
FLR.	FLR.	FLOOR
F.U.	F.U.	FIXTURE UNIT
G.P.M.	G.P.M.	GALLONS PER MINUTE
HDR.	HDR.	HEADER
HTR.	HTR.	HEATER
I.E.	I.E.	INVERT ELEVATION
N.I.P.C.	N.I.P.C.	NOT IN PLUMBING CONTRACT
P.O.C.	P.O.C.	POINT OF CONNECTION
P.R.V.	P.R.V.	PRESSURE REDUCING VALVE
REQ'D	REQ'D	REQUIRED
V.T.R.	V.T.R.	VENT THRU ROOF
B.F.P.	B.F.P.	BACKFLOW PREVENTER
RP	RP	REDUCED PRESSURE B.F.P.
P.V.C.	P.V.C.	POLYVINYLCHLORIDE
RECT.	RECT.	RECTANGULAR
REQ'D	REQ'D	REQUIRED
V.T.R.	V.T.R.	VENT THRU ROOF
Y.B.	Y.B.	YARD BOX
IND	IND	INDIRECT
(N)	(N)	NEW
(R)	(R)	RELOCATED
EXIST. (E)	EXIST. (E)	EXISTING
WM	WM	WATER METER
GM	GM	GAS METER
ESV	ESV	EARTHQUAKE SHUT-OFF VALVE

SERVICE - WATER HEATING NOTES

1. INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE IN ACCORDANCE WITH 2019 CPC SECTION 609.11, AND SECTION 120.3, TABLE 120.3-A OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS WHICHEVER IS LARGER.

NOTES

1. ALL HOT WATER PIPE TO BE INSULATED WITH SNAP-ON TYPE FIBERGLAS INSULATION WITH STAPLED CANVAS JACKETS.
2. THE THICKNESS OF INSULATION LISTED ABOVE IS BASED ON MATERIALS HAVING A THERMAL RESISTANCE IN THE RANGE OF R-7.7 TO R-12.5 PER INCH. ADJUSTMENTS ARE REQUIRED FOR INSULATION MATERIALS OUTSIDE THIS RANGE.

ACOUSTICAL NOTES

1. ALL OF THE PLUMBING SYSTEM MUST BE ISOLATED FROM THE BUILDING FRAMEWORK.
- FOR 1/2" TO 2" DIAMETER PIPES, USE HOLDRITE ACOUSTIPLUMB ISOLATOR.
- FOR PIPING GREATER THAN 2" DIAMETER, FELT WRAP ALL PIPING WHERE IT IS IN DIRECT CONTACT WITH STRUCTURE. NO PIPING SHALL TOUCH STRUCTURE WITHOUT FELT WRAP.
2. THE ELBOWS BELOW TOILET AND TUB WASTE OUTLETS SHALL BE ISOLATED FROM ALL POSITIONING BLOCKS USING CARPET PADDING OR HIGH DENSITY 1/4"THICK FELT MATERIAL.THE ENTIRE FRAMING CAVITY SURROUNDING THESE ELBOWS SHALL BE COMPLETELY PACKED WITH FIBERGLASS,OPEN FACED MINERAL WOOL OR SPRAY-ON ADHESIVE CELLULOSE INSULATION MATERIALS.

GENERAL NOTES

1. NOTIFY WATER CO. OF PROPOSED NEW SERVICES TO EXISTING MAINS, AND PAY COST FOR METERS AND HOOKUP INSTALLATIONS.
2. SLOPE ALL SOIL & WASTE LINES MIN. 2% SLOPE (1/4" PER FT.) UNLESS OTHERWISE INDICATED.
3. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE PLUMBING PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE RUNS.
4. SUPPLY ROUGH-IN, INSTALL AND CONNECT PLUMBING FIXTURES AS REQUIRED UNLESS OTHERWISE NOTED.
5. PROVIDE AND INSTALL AN AUTOMATIC AIR VENT AT HIGH POINT OF ALL HOT WATER LINES.
6. VERIFY & COORDINATE ROUGH-IN AND FIXTURE LOCATIONS WITH MECHANICAL DWGS, ARCHITECTURAL DWGS. PRIOR TO FABRICATION OR INSTALLATION OF MATERIALS AND AGAIN PRIOR TO SLAB POUR.
7. VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL PLANS PRIOR TO BID OR MATERIAL PURCHASE.
8. WORK SHALL NOT BE COVERED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE PLUMBING INSPECTOR OR OTHER GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
9. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
10. FLUSH VALVES, FAUCETS, STOPS, BUBBLERS, ETC., SHALL BE ADJUSTED TO THEIR NORMAL WORKING CONDITIONS.
11. ALL LABOR AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE OF THE COMPLETED WORK BY THE ARCHITECT, WITH SERVICE, REPLACEMENT OR REPAIR MADE AT NO EXTRA COST TO THE OWNER OR TENANT.
12. RECOMPACT ALL PLUMBING EXCAVATION.
13. ALL MATERIALS, EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM TO ALL REQUIREMENTS OF ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES, ORDINANCES & REGULATIONS.
14. VERIFY SIZE, LOCATION, DEPTH, ETC., OF ALL UTILITIES IN THE FIELD.
15. FURNISH AND INSTALL ALL BACK FLOW PROTECTION AS REQUIRED BY STATE AND LOCAL HEALTH DEPT. AND APPLICABLE CODES.
16. PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL SUPPLIES, STOPS, TRAPS, VALVES, SHOCK-STOPS, REGULATORS AND BACK FLOW PROTECTION PER CODE TO OWNER'S FURNISHED SINKS AND EQUIPMENT.
17. PLUMBING CONTRACTOR TO SET IN PLACE ALL OWNER FURNISHED EQUIPMENT ON FIXTURE CONNECTION SCHEDULE AS DETAILED OR DIRECTED IN FIELD.
18. ALL SINKS AND LAVATORIES IN FOOD FACILITY AREAS SHALL BE SUPPLIED WITH A MIN. OF 120" F. HOT WATER.
19. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, AND SHALL CONFORM TO THE CALIFORNIA PLUMBING CODE, LATEST EDITION. (2013)
20. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED WHERE POSSIBLE, AND EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
21. REFER TO AIR CONDITIONING PLANS FOR DRAINS, ETC., FROM EQUIPMENT.
22. INSULATE TAILPIECE, TRAP AND WATER LINES UNDER LAVATORIES DESIGNED FOR HANDICAP USE.
23. ALL INDIRECT DRAINS SHALL CONFORM TO CHAPTER 8, SECT. 803.0 CALIFORNIA PLUMBING CODE (2013).
24. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER PER CHAPTER 6, SEC. 609.9 CALIFORNIA PLUMBING CODE (2013).
25. ALL FIXTURES, EQUIPMENT, PIPING, FITTINGS, AND MATERIALS SHALL BE LISTED.
26. ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE.
27. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
28. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 120°.
29. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
30. THE PRESSURE REGULATING VALVE (PRV) SHALL BE INSTALLED AT ABOVE GRADE OR FINISHED FLOOR. THE PRV SHALL NOT BE INSTALLED IN A PIT WHERE IT CAN BECOME SUBMERGED IN WATER.
31. THE REDUCED PRESSURE BACKFLOW DEVICE (RP) SHALL BE INSTALLED AT LEAST 12 INCHES ABOVE GRADE OR FINISHED FLOOR. THE RP SHALL NOT BE INSTALLED IN A PIT WHERE IT CAN BECOME SUBMERGED IN WATER.
32. THE SEISMIC GAS SHUT-OFF VALVE SHALL BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING.
33. FOR NEWLY INSTALLED SHOWERHEADS, WHEN SINGLE SHOWER FIXTURES ARE SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED THE MAXIMUM FLOW RATES SPECIFIED IN THE MAXIMUM ALLOWABLE FLOW RATE COLUMN CONTAINED IN TABLE 10.303.2.3 OR THE SHOWER SHALL BE DESIGNED ONLY ALLOW ONE SHOWERHEAD TO BE IN OPERATION AT A TIME.
34. SITES THAT PROVIDE A WATER SERVICE UPGRADE AND CONTAIN AT LEAST 1,000 SQ.FT. OF CUMULATIVE LANDSCAPE AREAS BEING SERVED BY A POTABLE WATER SERVICE SHALL HAVE SEPARATE METERS OR SUB-METERS FOR INDOOR AND OUTDOOR POTABLE WATER USE.
35. NEW PLUMBING FIXTURES AND FITTINGS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE FLOW RATE SPECIFIED IN SECTION 5.303.2 AND TABLE 10.303.2.3
36. INSTALL WATER HAMMER ARRESTORS ON EACH COLD AND HOT WATER FIXTURE BRANCH AS RECOMMENDED BY PLUMBING AND DRAINAGE INSTITUTE WH-210 STANDARD. DEVICES SHALL BE FACTORY MADE WITH PERMANENT CUSHION OF GAS OR AIR. PROVIDE ACCESS PANEL.
37. GAS PIPING UNDERGROUND BENEATH BUILDING SHALL BE INSTALLED EITHER PER SECTION 1210.1.6.1 OR SECTION 1210.1.6.2 2013 CPC.
38. INSTALL CAST IRON PIPE, COPPER PIPE, AND FITTINGS BELOW GRADE INSIDE 8 MIL POLYETHYLENE TUBE PER AWWA-C-105 OR ANSI B215.
39. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTING, VALVE AND APPLIANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED, IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.
40. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER AND ACCESS PANEL.
41. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE.
43. WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
44. WATER SUPPLY CONNECTION TO COMMERCIAL DISHWASHING MACHINE SHALL BE PROTECTED BY AN AIR GAP OR BACKFLOW PREVENTION DEVICE PER SECTION 603 OF THE CALIFORNIA PLUMBING CODE.
45. POTABLE WATER SUPPLY TO BEVERAGE DISPENSERS, CARBONATORS, OR COFFEE MACHINES SHALL BE PROTECTED BY AN AIR GAP OR A VENTED BACKFLOW PREVENTER IN ACCORDANCE WITH ASSE 1022.
46. ALL HOSE BIBBS SHALL BE EQUIPPED WITH AN APPROVED NON-REMOVABLE VACUUM BREAKER.
47. NEW OR REPAIRED POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
48. PUBLIC LAVATORIES SHALL HAVE A WATER TEMPERING DEVICE THAT COMPLIES W/ ASSE 1070 OR CSA B125.3.
49. WATER PRESSURE ARRESTORS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING VALVES AT THE END OF LONG PIPE OR NEAR BATTERIES OF FIXTURES OR BOTH.
50. HORIZONTAL VENTS BELOW THE THE FLOOD LEVEL RIM OF THE FIXTURE NOT ALLOWED FOR PLUMBING FIXTURES THAT ARE WITHIN TRAP ARM DISTANCE OF WALLS.
51. ALL PIPING SHALL BE DEBURRED/REAMED TO FULL BORE OF PIPE.
52. NO MORE THAN ONE-THIRD (1/3) OF THE TOTAL PERMITTED LENGTH, PER 2019 CALIFORNIA PLUMBING CODE, TABLE 703.2, OF ANY MINIMUM SIZED VENT SHALL BE INSTALLED IN A HORIZONTAL POSITION.
53. PLUMBING PENETRATIONS THROUGH OCCUPANCY SEPARATIONS SHALL BE BOXED OUT AND FILLED WITH APPROVED SAFING MATERIAL. INSULATION NOT APPROVED.
54. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.
55. SHOWER TUB-SHOWER COMBINATION SHALL HAVE INDIVIDUAL SHOWER CONTROL VALVE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE, SET AT 120F MAXIMUM.
56. GAS METER SHALL BE INSTALLED PER GAS COMPANY AND PROTECTED PER GAS COMPANY AND OTHER LOCAL AUTHORITY DIRECTION.
57. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED TO APPROVED STANDARDS BY AN RECOGNIZED THIRD-PARTY LISTING AGENCY.
58. ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE & CALGREEN CODE WHICHEVER IS STRINGENT.
59. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING METERING FAUCETS.
60. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110 DEGREE F.
61. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
62. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UTILITIES PRIOR TO STARTING WORK OF THIS SECTION. MAKE REQUIRED ADJUSTMENTS TO CONNECT TO UTILITIES. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING, NOTIFY THE ENGINEER PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
63. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
64. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, ETC.
65. PROVIDE FELT WITH METAL BACKING VIBRATION ISOLATION SLEEVES OR PADS AT ALL PIPE HANGERS OR SUPPORTS AND ALL POINTS WHERE PIPING COMES IN CONTACT WITH ANY PORTION OF THE STRUCTURE. APPLIES TO ALL WATER AND WASTE PIPING. PROVIDE FELT AROUND ALL PVC PIPING AT SUPPORTS FOR THERMAL EXPANSION.
66. ALL PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER "SMACNA" GUIDE LINES.
67. PLUMBERS TAPE WILL NOT BE ACCEPTED AS A PERMANENT SUPPORT FOR ANY PIPING OR DEVICES.
68. VALVES SHALL FULL FLOW 1/4 TURN BALL TYPE BY NIBCO, WATTS, CRANE, STOCKHAM OR EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED. PROVIDE AND INSTALL IDENTIFICATION TAGS ON ALL VALVES. VALVES IN EXPOSED COMMON AREAS TO HAVE LOOKING HANDLES. NO IRON BODY VALVES WILL BE ACCEPTED.
69. PROVIDE AND INSTALL DIELECTRIC UNIONS BETWEEN ALL COPPER AND GALVANIZED & IRON PIPING & COMPONENTS. (AS WATTS, ZURN OR EQUAL).
70. PENETRATIONS IN WALLS, FLOORS, OR CEILINGS, WHICH REQUIRE PROTECTED OPENINGS SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE AN APPROVED MATERIAL, SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO THE TIME-TEMPERATURE CURVED OF SFM STD. # 12-43-3 AND STD. # 12-43-1. INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND BE MAINTAINED AT THE JOB SITE.
71. PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THROUGH EXTERIOR WALLS, ROOF AND FLOORS.
72. WATER, SEWER, VENT, FIRE AND GAS PIPES THROUGH CONCRETE WALLS AND FLOORS SHALL HAVE PIPE-SLEEVES WITH NON COMBUSTIBLE SEALING.
73. ALL HOSE BIBBS SHALL BE EQUIPPED W/ AN APPROVED NON REMOVABLE VACUUM BREAKER.
74. RUN A FULL SIZE DRAIN LINE FROM WATER HEATERS TEMPERATURE AND PRESSURE RELIEF VALVE TO NEAREST FLOOR SINK OR TO AN APPROVED LOCATION.
75. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES, STRAINERS, TRAP PRIMERS, ETC.
76. ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED. EXPOSED PIPING, WHERE NECESSARY, SHALL RUN AS HIGH AS POSSIBLE AND TIGHT TO THE WALLS.
77. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
78. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
79. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.
- THE CONTRACTOR SHALL FURNISH & INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
80. SEWER PIPE SIZES THAT ARE 3 INCHES OR SMALLER SHALL BE SLOPED AT 2%.
81. IN ORDER TO MAINTAIN SLOPE OF HORIZONTAL DRAINAGE PIPING, DOUBLE COMBINATION FITTING IS NOT PERMITTED TO INSTALL IN HORIZONTAL POSITION. AS AN ALTERNATIVE, TWO COMBINATION WYE AND 1/8 BEND FITTINGS MAY BE USED.
82. NO VENT OUTLET SHALL TERMINATE CLOSER THAN FOUR FEET TO OR ONE FOOT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INTAKE, NOR CLOSER THAN TEN FEET TO OR THREE FEET ABOVE ANY FORCED OR MECHANICAL AIR INTAKE.
83. TYPE B VENTS SHALL TERMINATE 2 FT. ABOVE OR 8 FT. AWAY FROM ANY VERTICAL SURFACE.
84. PROVIDE HIGH AND LOW COMBUSTION FOR THE WATER HEATERS AND ALL OTHER GAS BURNING APPLIANCES REQUIRING COMBUSTION AIR AS PER CODE. EXACT LOCATION AND ROUTING TO BE APPROVED BY THE ARCHITECT AND AUTHORITIES HAVING JURISDICTION.
85. WATER HEATERS AND STORAGE TANKS SHALL BE SEISMICALLY BRACED.

PLUMBING SHEET INDEX

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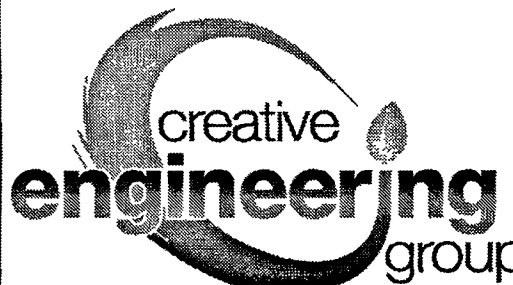
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DAYS INN KING CITY
HOSPITALITY

1130 BROADWAY STREET
KING CITY, CA 93930

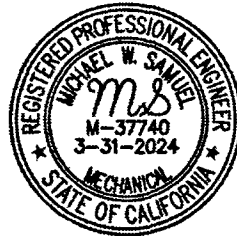
MEP



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SEAL AND STAMP



ISSUE DATES

DESCRIPTION	DATE
MEP REVISION	02/28/2023

JOB: _____
SCALE: AS SHOWN
DRAWN: _____ CEG
DATE: 02/28/2023
SHEET TITLE: _____

PLUMBING
GENERAL
NOTES

SHEET NO:

P1.0

EXISTING(E) FIXTURES

ROOMS-FIRST FLOOR
(22) UNITS

WASTE FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	3	=	3
LAVATORY (PRIVATE)	1	X	1	=	1
BATHUB/SHOWER (PRIVATE)	1	X	2	=	2
TOTAL WASTE FIXTURE UNITS					6 TOTAL

ROOMS-SECOND FLOOR
(23) UNITS

WASTE FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	3	=	3
LAVATORY (PRIVATE)	1	X	1	=	1
BATHUB/SHOWER (PRIVATE)	1	X	2	=	2
TOTAL WASTE FIXTURE UNITS					6 TOTAL

EXISTING LAUNDRY-FIRST FLOOR
(1) UNIT

WASTE FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
CLOTHES WASHER	1	X	52 (ASSUME)	=	52
TOTAL WASTE FIXTURE UNITS					52 TOTAL

(C) ROOMS CONVERTED TO ADA-FIRST FLOOR
(2) UNITS-ROOMS 119 & 120

WASTE FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	3	=	3
LAVATORY (PRIVATE)	1	X	1	=	1
SHOWER STALL (PRIVATE)	1	X	2	=	2
(CHANGED TUB/SHOWER TO SHOWER STALL)					
TOTAL WASTE FIXTURE UNITS					6 TOTAL

(C) TOTAL WASTE FIXTURES:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
FIRST FLOOR	22	X	6	=	132
SECOND FLOOR	23	X	6	=	138
EXISTING LAUNDRY	1	X	52	=	52
TOTAL EXISTING WASTE FIXTURE UNITS					322 TOTAL

NEW(N) FIXTURES

ROOMS-FIRST FLOOR
(22) UNITS

WASTE FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
KITCHEN SINK (PRIVATE)	1	X	2	=	2
TOTAL WASTE FIXTURE UNITS					2 TOTAL

RESTROOM (ADA)-FIRST FLOOR
(1) UNIT

WASTE FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PUBLIC)	1	X	4	=	4
LAVATORY (PUBLIC)	1	X	1	=	1
TOTAL WASTE FIXTURE UNITS					5 TOTAL

LAUNDRY-FIRST FLOOR
(1) UNIT

WASTE FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
CLOTHES WASHER	2	X	3	=	6
HAND SINK	1	X	2	=	2
FLOOR DRAIN	1	X	6	=	6
TOTAL WASTE FIXTURE UNITS					14 TOTAL

ROOMS-SECOND FLOOR
(23) UNITS

WASTE FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
KITCHEN SINK (PRIVATE)	23	X	2	=	46
TOTAL WASTE FIXTURE UNITS					46 TOTAL

LAUNDRY-SECOND FLOOR
(1) UNIT

WASTE FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
FLOOR DRAIN	1	X	6	=	6
TOTAL WASTE FIXTURE UNITS					6 TOTAL

(NEW) TOTAL WASTE FIXTURES:

(NEW)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
FIRST FLOOR	22	X	2	=	44
SECOND FLOOR	23	X	2	=	46
MANAGER'S LIVING QUARTER'S	1	X	11	=	11
RESTROOM (ADA)	1	X	5	=	5
STAFF OFFICE BREAK ROOM	1	X	2	=	2
LAUNDRY ROOM-FIRST FLOOR	1	X	8	=	8
LAUNDRY ROOM-SECOND FLOOR	1	X	6	=	6
TOTAL NEW WASTE FIXTURE UNITS					122 TOTAL

BUILDING TOTAL WASTE FIXTURE

FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
EXISTING WASTE FIXTURES	1	X	322	=	322
NEW WASTE FIXTURES	1	X	122	=	122
GRAND TOTAL WASTE FIXTURE UNITS					444 TOTAL

EXISTING(E) FIXTURES

ROOMS-FIRST FLOOR
(22) UNITS

WATER FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	2.5	=	2.5
LAVATORY (PRIVATE)	1	X	1	=	1
BATHUB/SHOWER (PRIVATE)	1	X	4	=	4
TOTAL WASTE FIXTURE UNITS					7.5 TOTAL

ROOMS-SECOND FLOOR
(23) UNITS

WATER FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	2.5	=	2.5
LAVATORY (PRIVATE)	1	X	1	=	1
BATHUB/SHOWER (PRIVATE)	1	X	4	=	4
TOTAL WASTE FIXTURE UNITS					7.5 TOTAL

EXISTING LAUNDRY-FIRST FLOOR
(1) UNIT

WATER FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
CLOTHES WASHER	1	X	26 (ASSUME)	=	26
TOTAL WASTE FIXTURE UNITS					26 TOTAL

(C) ROOMS CONVERTED TO ADA-FIRST FLOOR
(2) UNITS-ROOMS 119 & 120

WATER FIXTURE CALCULATION:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PRIVATE)	1	X	2.5	=	2.5
LAVATORY (PRIVATE)	1	X	1	=	1
SHOWER STALL (PRIVATE)	1	X	2	=	2
(CHANGED TUB/SHOWER TO SHOWER STALL)					
TOTAL WASTE FIXTURE UNITS					5.5 TOTAL

(C) TOTAL WATER FIXTURES:

(E)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
FIRST FLOOR	22	X	7.5	=	165
SECOND FLOOR	23	X	7.5	=	172.5
EXISTING LAUNDRY	1	X	26	=	26
TOTAL EXISTING WATER FIXTURE UNITS					363.5 TOTAL

NEW(N) FIXTURES

ROOMS-FIRST FLOOR
(22) UNITS

WATER FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
KITCHEN SINK (PRIVATE)	1	X	1.5	=	1.5
TOTAL WATER FIXTURE UNITS					1.5 TOTAL

RESTROOM (ADA)-FIRST FLOOR
(1) UNIT

WATER FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
WATER CLOSET (PUBLIC)	1	X	2.5	=	2.5
LAVATORY (PUBLIC)	1	X	1	=	1
TOTAL WATER FIXTURE UNITS					3.5 TOTAL

LAUNDRY-FIRST FLOOR
(1) UNIT

WATER FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
CLOTHES WASHER	2	X	4	=	8
HAND SINK	1	X	1.5	=	1.5
TOTAL WATER FIXTURE UNITS					9.5 TOTAL

ROOMS-SECOND FLOOR
(23) UNITS

WATER FIXTURE CALCULATION:

(N)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
KITCHEN SINK (PRIVATE)	1	X	1.5	=	1.5
TOTAL WATER FIXTURE UNITS					1.5 TOTAL

(NEW) TOTAL WATER FIXTURES:

(NEW)FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
FIRST FLOOR	22	X	1.5	=	33
SECOND FLOOR	23	X	1.5	=	34.5
MANAGER'S LIVING QUARTER'S	1	X	15.3	=	15.3
STAFF OFFICE BREAKROOM	1	X	1.5	=	1.5
RESTROOM (ADA)	1	X	3.5	=	3.5
LAUNDRY ROOM-FIRST FLOOR	1	X	9.5	=	9.5
TOTAL NEW WATER FIXTURE UNITS					99 TOTAL

BUILDING TOTAL WATER FIXTURE

FIXTURE	NUMBER OF FIXTURES	X	FIXTURE UNITS	=	TOTAL FIXTURE UNITS
EXISTING WATER FIXTURES	1	X	363.5	=	363.5
NEW WATER FIXTURES	1	X	99	=	99
GRAND TOTAL WATER FIXTURE UNITS					462.5 TOTAL

RESIDENTIAL COLD WATER DESIGN

STREET MAIN TO PRV/LAST OUTLET

CONTACT: CALIFORNIA WATER SERVICE COMPANY (NATALIE) PHONE: 831-385-5486

(A) PRESSURE AVAILABLE: 72 PSI (STATIC)

(B) WATER HARDNESS: 0 GR./GAL.

(C) TOTAL FIXTURE UNITS: (FLUSH TANK) 95 F.U.

(D) WATER DEMAND: 42 GPM

(E) RESIDUAL PRESSURE REQUIRED AT FARTHEST OUTLET: 20.0 PSI

(F) PRESSURE LOSS DUE TO HEIGHT 24 FT. x 0.433: 10.4 PSI

(G) PRESSURE LOSS THRU 0 WATER METER: 6.4 PSI

(H) PRESSURE LOSS THRU 4" BACKFLOW PREVENTER: 15.0 PSI

(I) TOTAL PRESSURE LOSS THRU 0 PRESSURE REGULATION: N/A PSI

(J) TOTAL PRESSURE LOSS THRU 0 SUBMETER: N/A PSI

(K) TOTAL PRESSURE LOSS FROM ABOVE (ITEM E, THRU I): 51.8 PSI

(L) MINIMUM PRESSURE AVAILABLE: (ASSUME MINIMUM 60 PSI) 60 PSI

(M) PRESSURE AVAILABLE FOR FRICTION LOSS (L-K): 8.2 PSI

(N) DEVELOPED PIPE LENGTH:

1. LENGTH OF RUN (MAIN TO LAST FIXTURE): 500 FT.

2. EQUIVALENT LENGTH OF FITTINGS (25%): 125 FT.

3. TOTAL DEVELOPED LENGTH: 625 FT.

(O) FRICTION LOSS PER ONE HUNDRED (100) FEET OF PIPE:

1: 100' x (M) 8.2 DIVIDED BY (N) 625 = 1.3 PSI/100'

PIPE SIZES BASED ON TYPE "L" COPPER @ 1.1 PSI/100 FT.

C.W. VELOCITY NOT TO EXCEED 8 FT. PER SECOND. & 5 FT. PER SECOND H.W.

COPPER PIPE SIZING CHARTS

(COLD WATER)

DISTRIBUTION PIPE SIZING CHART

1.1 PSI/100 FT MAXIMUM FRICTION LOSS

MAXIMUM VELOCITY OF 6 FEET/ SECOND

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GPM	-	3	5	9	15	31	55	88	185
FT FU	-	2	6	13	21	58	165	337	874
FV FU	-	-	-	-	-	15	69	205	850
VEL	-	-	-	-	-	-	-	-	-

(HOT WATER)

DISTRIBUTION PIPE SIZING CHART

1.1 PSI/100 FT MAXIMUM FRICTION LOSS

MAXIMUM VELOCITY OF 5 FEET/ SECOND

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GPM	-	3	5	9	15	31	55	88	185
FT FU	-	2	6	13	21	58	165	337	840
FV FU	-	-	-	-	-	-	-	-	-
VEL	-	-	-	-	-	-	-	-	-

CPVC PIPE SIZING CHARTS

(COLD WATER)

DISTRIBUTION PIPE SIZING CHART

1.1 PSI/100 FT MAXIMUM FRICTION LOSS

MAXIMUM VELOCITY OF 6 FEET/ SECOND

PIPE SIZE	FLOWGUARD GOLD SDR11 "CHARLOTTE" L.A. TEST LAB # RR-5697					"CORZAN" CPVC SCH. 80 "HARVEL" L.A. TEST LAB # RR-5695				
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"		
GPM	2	4	7	11	23	50	90	180		
FT FU	1	4	8	15	36	127	326	809		
FV FU	-	-	-	-	6	55	224	800		
VEL	-	-	-	-	-	-	-	-		

CPVC PIPE SIZING CHARTS

(HOT WATER)

DISTRIBUTION PIPE SIZING CHART

1.0 PSI/100 FT MAXIMUM FRICTION LOSS

MAXIMUM VELOCITY OF 6 FEET/ SECOND

PIPE SIZE	FLOWGUARD GOLD SDR11 "CHARLOTTE" L.A. TEST LAB # RR-5697					"CORZAN" CPVC SCH. 80 "HARVEL" L.A. TEST LAB # RR-5695				
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"		
GPM	2	4	7	11	23	50	90	180		
FT FU	1	4	8	15	36	127	326	809		
FV FU	-	-	-	-	-	-	-	-		
VEL	-	-	-	-	-	-	-	-		

PROJECT RESIDENTIAL AREA HOT WATER CALCULATION

FIXTURES	QTY	H.W.(F.U.)	GPH EACH	GPH	DEMAND (%)	TOTAL% = GPH
SHOWER STALL	1	2	30	30	100%	= 30
LAVATORY	2	2	2	4	100%	= 4
KITCHEN SINK	47	70.5	10	470	30%	= 141
CLOTHES WASHER	3	12	20	60	50%	= 30
HAND SINK	2	3	10	20	30%	= 6
TOTAL HOT WATER GPH			97.5			215 TOTAL

DOMESTIC WATER HEATER

1. REQUIRED BTU/HR.

215 GPH X 8.33# / GA. X 80/0.96 = 149,245.84 BTU/HR

2. NEW WATER HEATER

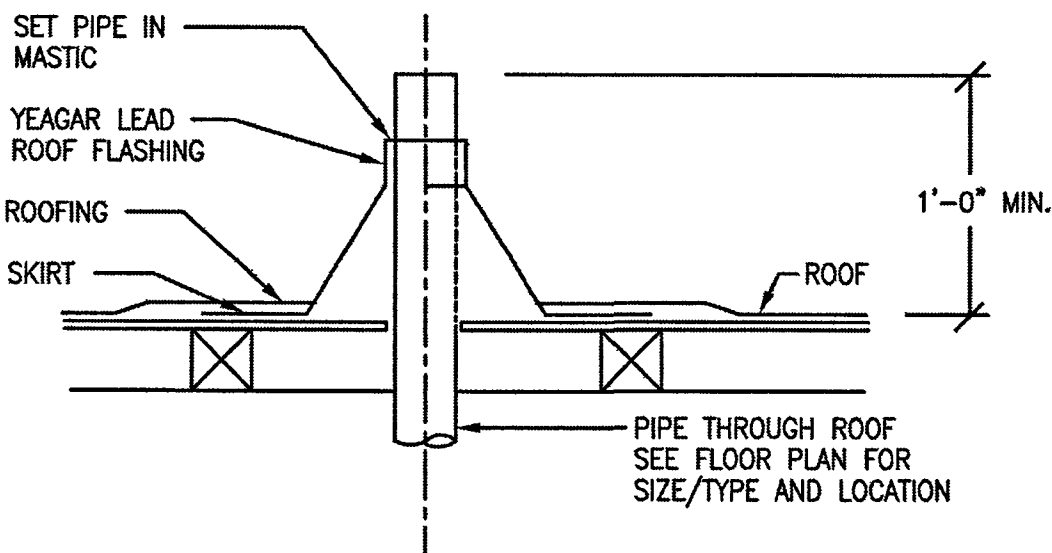
PIPING MATERIAL SCHEDULE																
SERVICE	MATERIAL	COPPER, TYPE "K"														REMARKS
		COPPER, TYPE "L"	SCHED. 40 BLACK STEEL	C.I. SOIL PIPE & FITTINGS	CPVC CTS SDR11 FOR 2"	PEX TUBING SCH. 80 FOR 2"	SCHED. 40 P.V.C.	CORRUGATED STAINLESS STEEL	POLYETHYLENE PLASTIC PIPE	SCHED. 40 GALV. STEEL	PERFORATED SDR 35	CPVC CTS SDR11 2"				
WATER SITE DISTRIBUTION	U.G.															BY CIVIL
	A.G.															
COLD/HOT WATER	INS./A.G.															TYPE K BRAZED JOINTS FOR UNDER SLAB COPPER PIPING, DOUBLE WRAPPED W/ SCOTCH TAPE & COVERED W/ FOAM INSULATION WHEN UNDER SLAB. COPPER TYPE L PIPING OUTDOOR AND ABOVE GROUND.
	INS./U.G.															
COLD/HOT WATER	OUTS./A.G.															PLASTIC PIPE SHALL NOT BE INSTALLED EXPOSED TO THE SUNLIGHT.
	OUTS./U.G.															CPVC PIPE MANUFACTURED BY CHARLOTTE PIPE LARR #5697 AND HARVEL LARR #5695.
GAS	INSIDE															PROVIDE DOUBLE WALL PIPING W/VENTING WHEN INSTALLED UNDER SLAB. BLACK MALLEABLE IRON FITTING. PIPE EXPOSED TO WEATHER SHALL BE GALVANIZED STEEL PIPE.
	OUTSIDE															
SANITARY/WASTE SEWER	INSIDE															HUBLESS MANUFACTURED BY CHARLOTTE PIPE, CAST IRON SOIL PIPE&FITTINGS SHALL BE MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE NSF LISTED.
	OUTSIDE															
SANITARY/WASTE VENT	INSIDE															HUBLESS MANUFACTURED BY CHARLOTTE PIPE, CAST IRON SOIL PIPE&FITTINGS SHALL BE MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE NSF LISTED.
	OUTSIDE															
STORM DRAINAGE	INSIDE															HUBLESS CHARLOTTE PIPE AND FOUNDRY (CSPI AND NSF LISTED)
	OUTSIDE															CONFIRM WITH ARCHITECT FOR EXTERIOR DOWN SPOUTS
CONDENSATE DRAIN	INSIDE															PROVIDE WITH FOAM INSULATION
	OUTSIDE															
TRAP PRIMER	INSIDE															ROLLED COPPER WITH SLEEVE
	OUTSIDE															
																NOT USED

PIPING MATERIAL SCHEDULE

SCALE
NONE

2

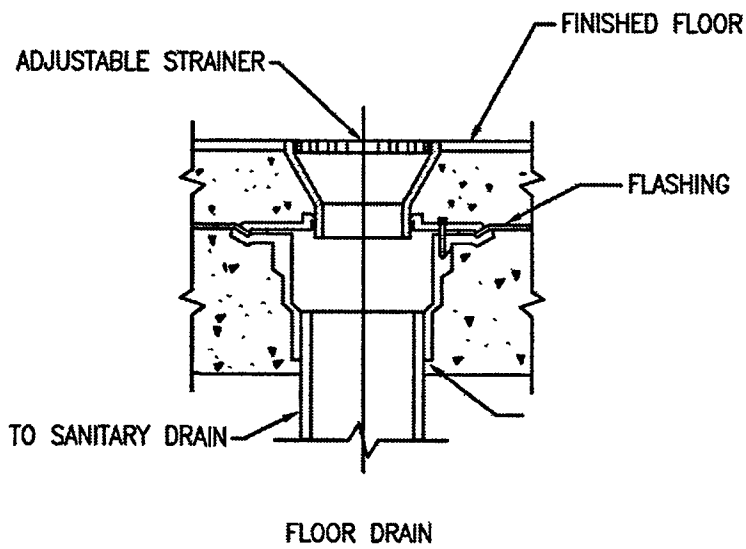
NOT USED



WASTE & VENT PIPE THRU ROOF DETAIL

SCALE
NONE

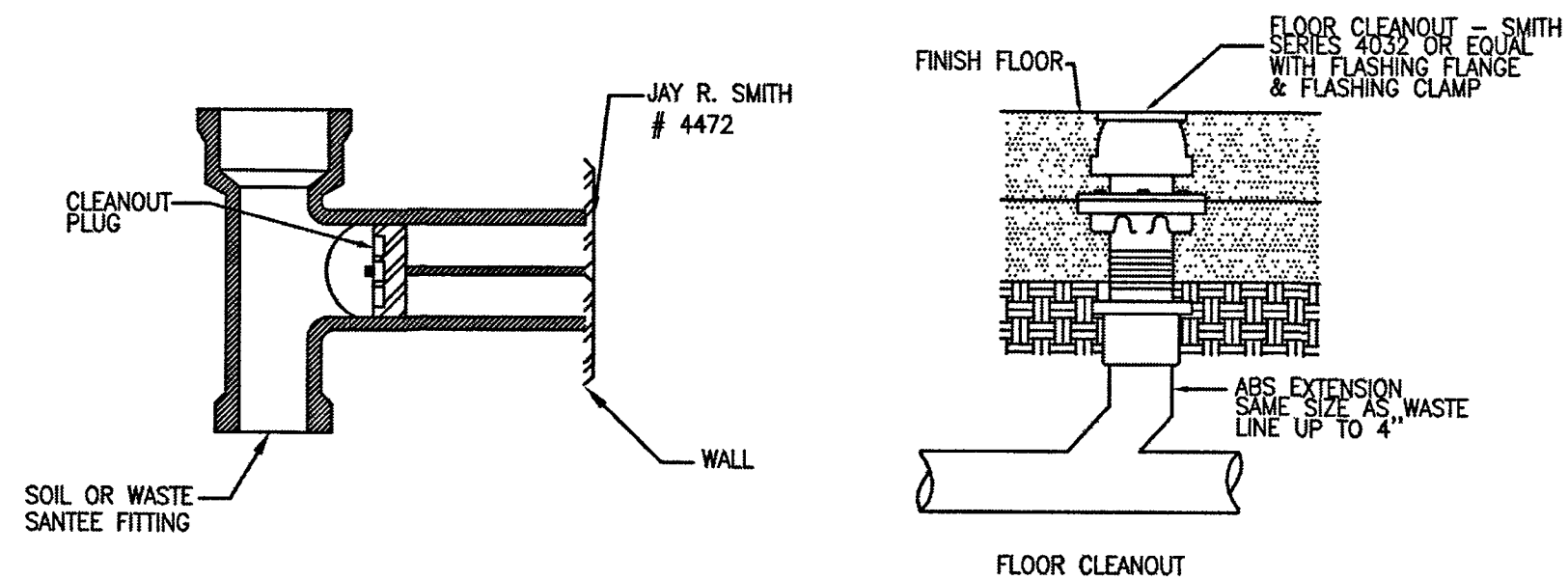
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FLOOR DRAIN DETAIL

SCALE
NONE

4



FLOOR AND WALL CLEANOUT DETAIL

SCALE
NONE

3

PLUMBING EQUIPMENT SCHEDULE

- GENERAL :
- ① ALL PLUMBING FIXTURES TO BE WHITE AND TRIM TO BE POLISHED CHROME FINISH UNLESS NOTED OTHERWISE.
 - ② PROVIDE BRASSCRAFT KWIK TURN ANGLE STOPS FOR ALL FIXTURES.
 - ③ PLUMBING FIXTURES AND TRIM SHALL BE AS NOTED OR EQUAL AND APPROVED BY OWNER.
 - ④ ALL HANDICAP LAVATORY & SINK TO BE PROVIDED WITH INSULATION FOR THE DRAIN & HOT WATER PIPING AS TRUEBRO KIT # 101 INSULATION KIT OR EQUAL.
 - ⑤ ALL PLUMBING FIXTURES TO BE APPROVED FOR USE IN KING CITY.
 - ⑥ ALL PLUMBING FIXTURES MATERIAL, IAPMO LIST. MUST MEET WATER CONSERVATION ORDINANCE, MEET LOW LEAD REQUIREMENT (LESS THAN 0.25% WEIGHTED AVERAGE)
 - ⑦ ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - ⑧ COORDINATE WITH THE ARCHITECT AND OWNERSHIP FINAL SPECIFICATION AND SIZES OF PLUMBING FIXTURES.
 - ⑨ CLOTHES WASHERS AND DISHWASHERS SHALL BE ENERGY STAR CERTIFIED.
 - ⑩ PLUMBING FIXTURES SHALL COMPLY WITH 2019 CPC AND MEET THE APPLICABLE STANDARDS IN TABLE 1701.1.

ITEM	FIXTURE/ EQUIPMENT	PIPING CONNECTION				FIXTURE UNITS		DESCRIPTION
		SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE F.U.	COLD WATER F.U.	
WC-1	WATER CLOSET (PRIVATE)	3"	2"	1"	-	3	2.5	SEE ARCHITECTURAL DRAWINGS - FOR PRODUCT SPECIFICATION AND MANUFACTURER MODEL NUMBER. THE MAXIMUM FLOW RATES FOR WATER CLOSETS, URINALS, LAVATORIES, KITCHEN FAUCETS, AND SHOWER HEADS SHALL BE IN COMPLIANCE WITH CALGREEN BUILDING CODE.
WC-2	WATER CLOSET (PUBLIC)	3"	2"	1"	-	4	2.5	WATER CLOSET SPECIFICATIONS BY ARCHITECT. FLOW RATE SHALL BE 1.28 GPF OR LESS.
L-1	LAVATORY (PRIVATE)	2"	1 1/2"	3/4"	3/4"	1	1	LAVATORY SPECIFICATIONS BY ARCHITECT. LAVATORY FAUCET FLOW RATE SHALL BE 1.2 GPM OR LESS. PUBLIC LAVATORY FAUCET SHALL BE 0.4 GPM OR LESS, OR METERING FAUCET OF 0.17 GPC OR LESS. PROVIDE THERMOSTATIC MIXING VALVE FOR PUBLIC LAVATORY FAUCET.
L-2	LAVATORY (PUBLIC)	2"	1 1/2"	3/4"	3/4"	1	1	KITCHEN SINK AND SINK FAUCETS SHALL BE 1.5 GPM OR LESS AT 60 PSI. KITCHEN SINK WITH GARBAGE DISPOSAL BADGER 5XP, 3/4HP, 120 VOLTS.
KS-1	KITCHEN SINK (PRIVATE)	2"	1 1/2"	1"	1"	2	1.5	SHOWER HEAD SHALL BE 1.5 GPM OR LESS AT 80 PSI.
SH-1	SHOWER STALL (ADA)	2"	1 1/2"	1"	1"	2	2	BATHTUB/SHOWER SHALL HAVE INDIVIDUAL SHOWER CONTROL VALVE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE, SET AT 120 DEGREE F MAXIMUM. 1/2" MIXING VALVE INLET CONNECTIONS.
								SHOWER HEAD FLOW RATE SHALL BE 1.8 GPM OR LESS AT 80 PSI, PRESSURE BALANCE SHOWER MIXING VALVE WITH SHOWER HEAD AND INTEGRAL STOPS. 1/2" MIXING VALVE INLET CONNECTIONS.
								PUBLIC WATER CLOSET SHALL HAVE OPEN FRON SEAT.
WHA	WATER HAMMER ARRESTOR	-	-	-	-	-	-	PRECISION PLUMBING PRODUCTS WATER HAMMER ARRESTORS, HYDRAULIC DISPLACEMENT, PERMANENTLY SEALED, PISTON OPERATED, SIZED IN ACCORDANCE TO SCHEDULE: MODEL # FIXTURE UNIT RATING P.S. ACCESS PANEL KARP #214M SC-800 1-11 1/2" 12"x12" SC-750 12-32 3/4" 12"x12" SC-100 33-60 1-1/4" 12"x12" SC-1250 61-113 1-1/4" 12"x12" PROVIDE STAINLESS STEEL ACCESS PANEL IN TILED WALLS & ALL PUBLIC RESTROOM CONFIRM FINISH OF ALL OTHER ACCESS PANEL WITH ARCHITECT
WB-1	WASHING MACHINE BOX	2"	1 1/2"	-	-	3	-	OATEY MODA RECESSED LAUNDRY BOX: 37609, 37611, 37613, 37610 DEPENDING ON PIPING. WITH WATER HAMMER ARRESTORS 1/4" TURN SHUTOFFS & 2" WASTE OUTLET PROVIDE ONE PER MACHINE & 12"x12" STAINLESS STEEL ACCESS PANEL FOR 2" TRAP. CLOTHES WASHER SHALL BE ENERGY STAR CERTIFIED.
FD-1	FLOOR DRAIN	3"	2"	-	-	3	-	J.R. SMITH #2005-A DUOCO CAST IRON BODY & FLASHING COLLAR WITH PROTECTOR CAP AND 5" ROUND ADJUSTABLE STRAINER HEAD, BOTTOM OUTLET WITH TRAP PRIMER CONNECTION.
TP-1	TRAP PRIMER	-	-	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS MODEL # P-2 WITH SHUT-OFF VALVE AND 1 1/2" X 12" ACCESS PANEL AS KARP MODEL # 214MS PROVIDE STAINLESS STEEL ACCESS PANEL IN TILED WALLS & ALL PUBLIC BATHROOMS CONFIRM FINISH OF ALL OTHER ACCESS PANEL WITH ARCHITECT
FCO	FLOOR CLEANOUT	SEE PLANS	-	-	-	-	-	J.R. SMITH #4020S IRON BODY, ABS PLUG WITH BRONZE COVER WITH GASKET.
S-1	HAND SINK	2"	1 1/2"	1"	1"	2	1.5	SPECIFICATIONS BY ARCHITECT.

PLUMBING EQUIPMENT SCHEDULE

SCALE
NONE

1

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DAYS INN KING CITY
HOSPITALITY

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ENGINEERING
GROUP

7123 REMMET AVE.
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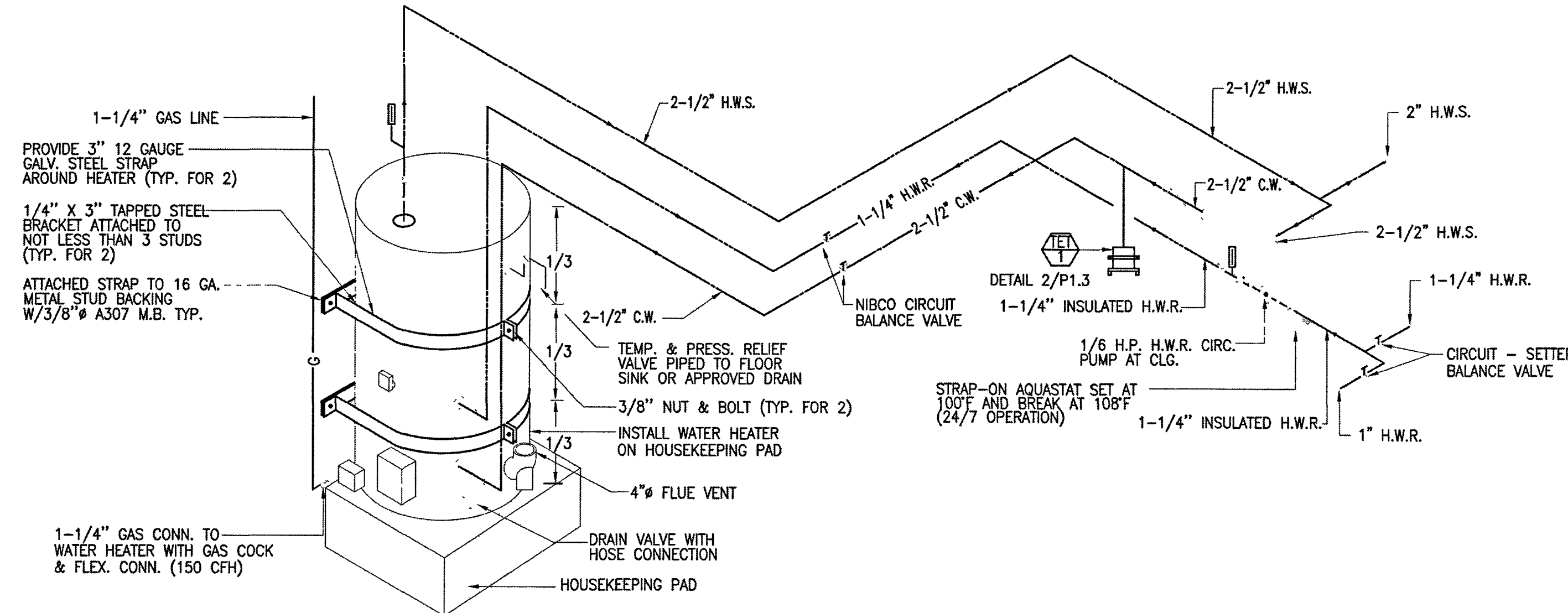
SEAL AND STAMP



ISSUE DATES	
DESCRIPTION	DATE
MEP REVISION	02/28/2023
JOB:	
SCALE:	AS SHOWN
DRAWN:	CEG
DATE:	02/28/2023
SHEET TITLE	

PLUMBING
SCHEDULE AND
DETAILS

SHEET NO



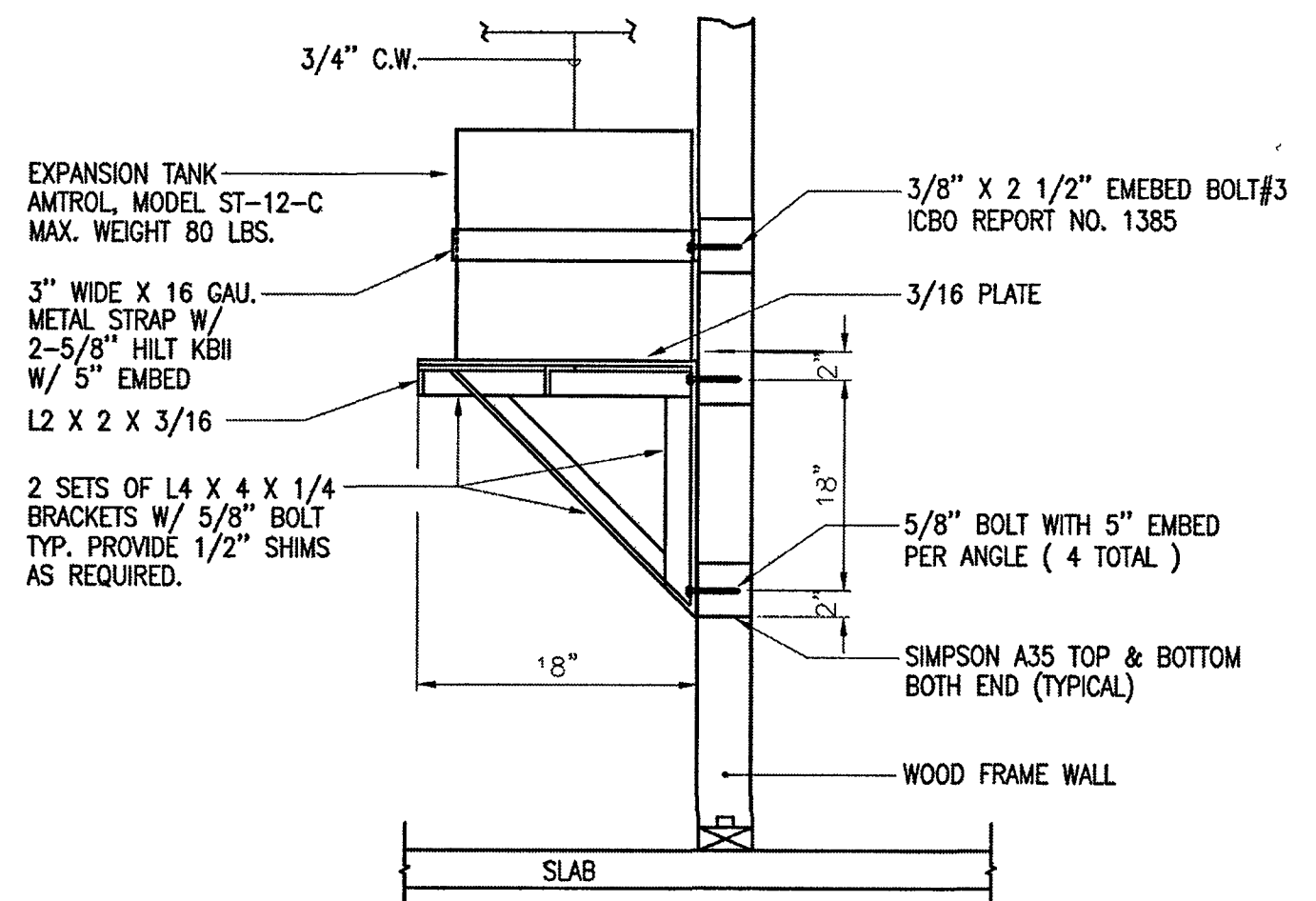
- LEGEND / SYMBOLS
- CHECK VALVE
 - GATE/ISOLATION/SHUT-OFF VALVE
 - THERMOMETER
 - UNION
 - BALANCE VALVE

WATER HEATER SCHEDULE											
MARK	MAKE	QTY	MODEL	GALS. CAP.	FUEL	INPUT BTU/HR	WATER TEMP. IN	WATER TEMP. OUT	RECOVERY (GPH)	APPROX. WEIGHT (LBS)	REMARKS
WH-1	A.O. SMITH	1	BTH 150(A)	119	GAS	150,000	40	120	223	1450	DIRECT VENTED, 95% THERMAL EFFICIENCY. INSTALL PER MANUFACTURER'S INSTRUCTION. WATER HEATER SHALL BE PROVIDED WITH SHUT-OFF VALVES AND DISCONNECT FITTINGS. PROVIDE CONDENSATE NEUTRALIZATION KIT.

GAS FIRED WATER HEATER DETAIL

SCALE
NONE

1

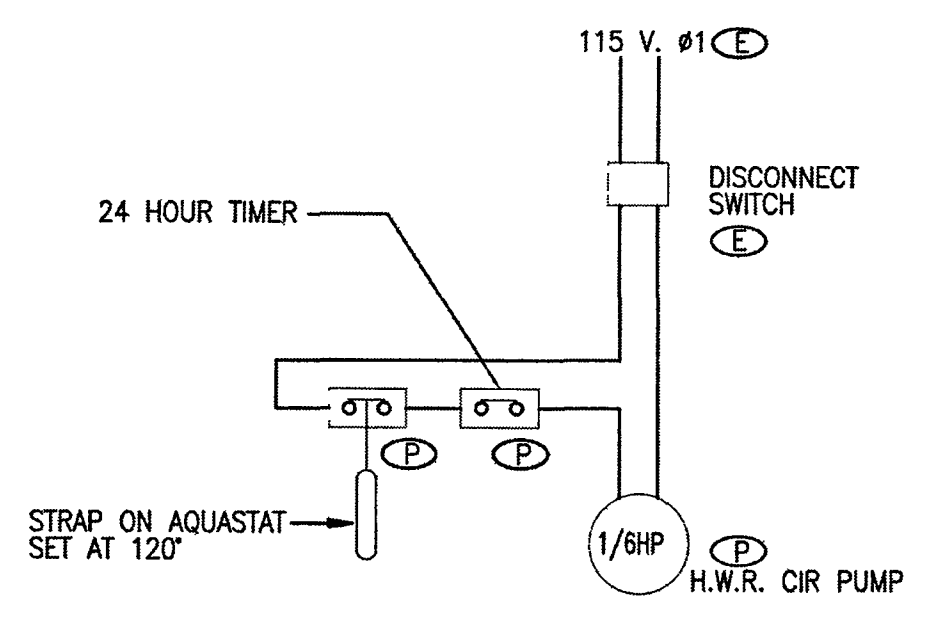


EXPANSION TANK SCHEDULE							
NO.	MAKE	MODEL	MAX. ACCEPTANCE (GALS)	SIZE	WEIGHT	SERVICE	REMARK
1	AMTROL	THERM-X-TROL ST-12-C	3.2 GALLONS	12" x 15.625"	80 LBS.	COLD WATER	

EXPANSION TANK DETAIL

SCALE
NONE

2



- LEGEND:
- ITEM FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
 - ITEM FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR.

PUMP SCHEDULE									
MARK	MAKE	MODEL	GPM	HEAD FT.	ELECTRICAL				REMARKS
					HP	V	PH	HZ	
RCP-1	B&G	PL-36B	10	29	1/6	115	1	60	ALL BRONZE. PROVIDE WITH AQUASTAT AND TIMECLOCK.

HOT WATER RECIRCULATING PUMP

SCALE
NONE

3

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**DAYS INN KING CITY
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SEAL AND STAMP:

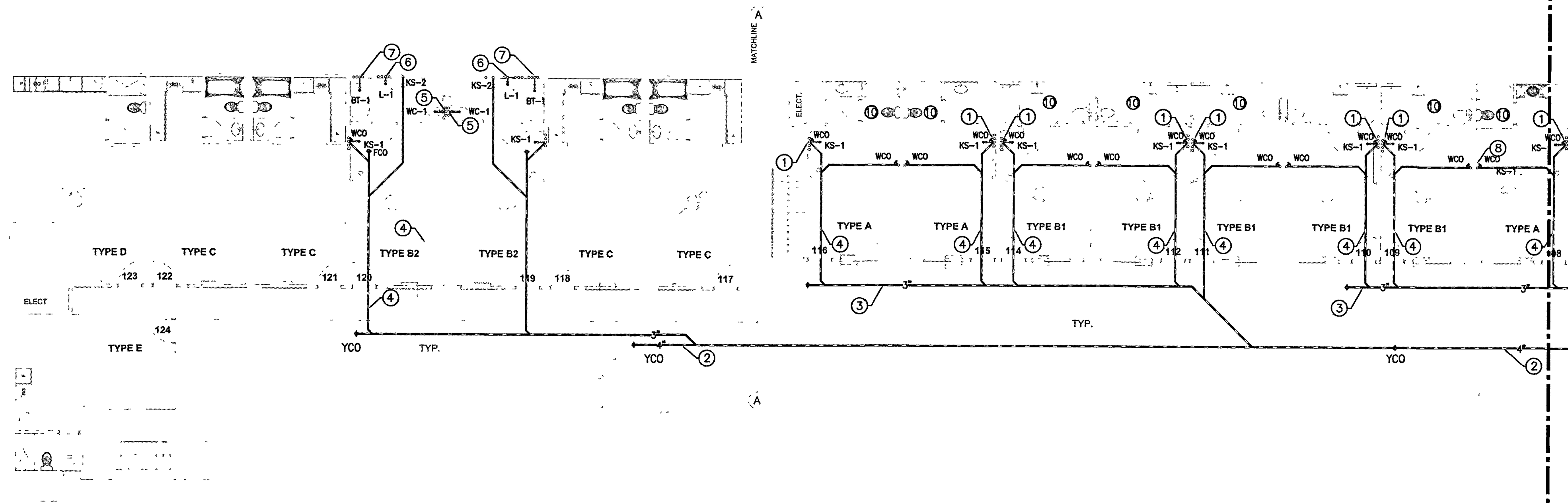
ISSUE DATES

DESCRIPTION	DATE
MEP REVISION	02/28/2023

JOB: _____
SCALE: AS SHOWN
DRAWN: CEG
DATE: 02/28/2023
SHEET TITLE

**PLUMBING
DETAILS**

SHEET NO



PLUMBING ENLARGED PARTIAL FIRST FLOOR WASTE AND VENT PLAN
SCALE: 1/8"=1'-0"

- PLUMBING REFERENCE NOTES**
- ① (N) 4" WASTE BELOW GRADE & CONNECT TO NEAREST (E) 6" WASTE IF POSSIBLE, OR CONNECT TO (E) MANHOLE. CONTRACTOR TO VERIFY ON SITE EXACT LOCATION, SIZE, ELEVATION OF (E) 6" WASTE, OR LOCATION OF EXISTING MANHOLE.
 - ② (N) 4" WASTE BELOW GRADE & SLOPE @ 1%.
 - ③ (N) 3" WASTE BELOW GRADE & SLOPE @ 2%.
 - ④ (N) 2" WASTE BELOW GRADE & SLOPE @ 2%.
 - ⑤ (N) WATER CLOSET TO NEW LOCATION. PROVIDE NEW PIPING (COLD WATER, WASTE, & VENT AND CONNECT TO (E) PIPING OF REMOVED (E) WATER CLOSET.
 - ⑥ (N) LAVATORY TO NEW LOCATION. PROVIDE NEW PIPING (COLD WATER, HOT WATER, WASTE, & VENT AND CONNECT TO (E) PIPING OF REMOVED (E) WATER CLOSET.
 - ⑦ (N) TUB/SHOWER COMBO. PROVIDE NEW PIPING (COLD WATER, HOT WATER, WASTE, & VENT AND CONNECT TO (E) PIPING OF REMOVED (E) TUB/SHOWER. COORDINATE WITH ARCHITECT THE EXACT LOCATION OF SHOWER HEAD AND CONTROL VALVES.
 - ⑧ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL FOR KITCHEN SINK)
 - ⑨ PROVIDE ACCESSIBLE CLEANOUT.
 - ⑩ PROVIDE NEW PIPING AND CONNECT IT TO EXISTING

- GENERAL NOTES**
- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
 - ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
 - ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
 - ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
 - ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
 - ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
 - ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
 - ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
 - ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
 - ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
 - ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
 - ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
 - ⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.
 - ⑭ PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS, EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

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SEAL AND STAMP.



ISSUE DATES	
DESCRIPTION	DATE
MEP REVISION	02/28/2023

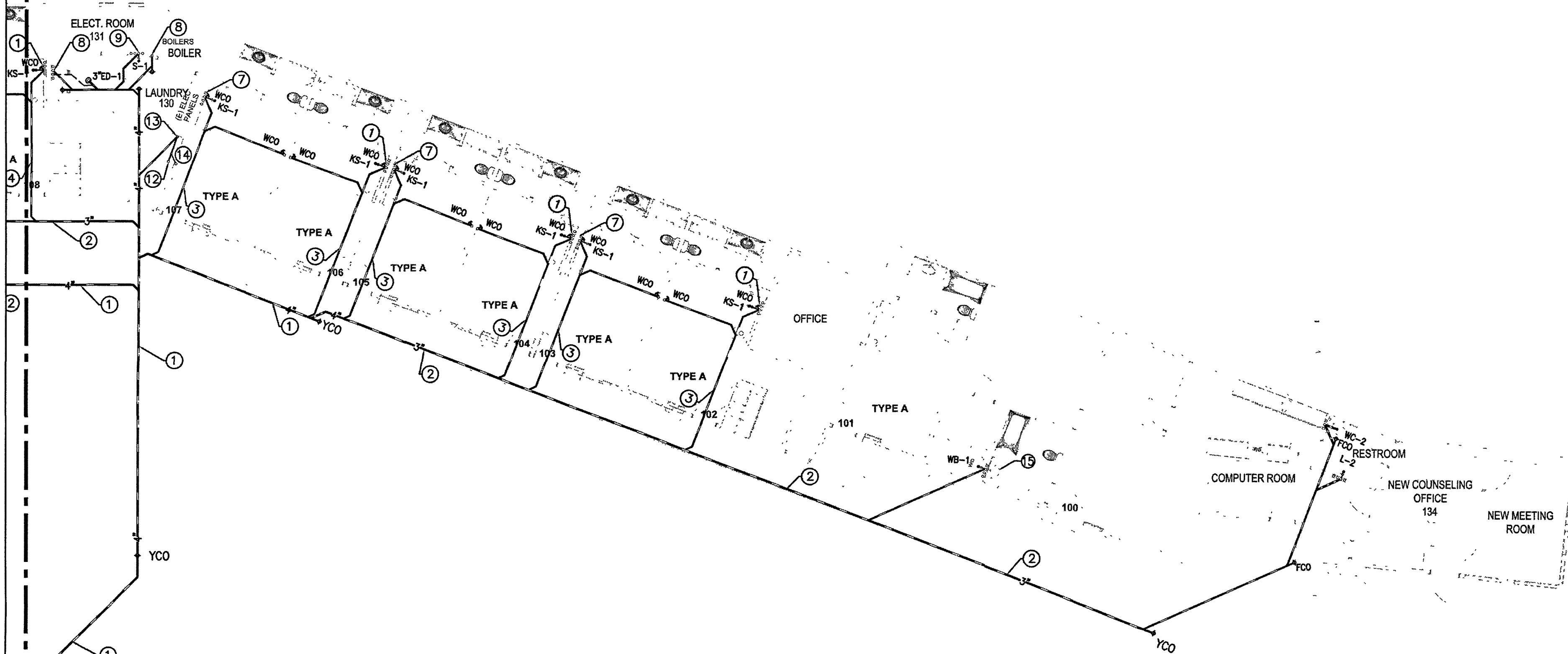
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SCALE: AS SHOWN
DRAWN: _____ CEG
DATE: 02/28/2023

SHEET TITLE
**PLUMBING
ENLARGED
PARTIAL FIRST
FLOOR WASTE &
VENT PLAN**

SHEET NO:

P2.1.1A

SEE SHT. P2.1.1A
SEE SHT. P2.1.1B



PLUMBING ENLARGED PARTIAL FIRST FLOOR WASTE AND VENT PLAN
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES

- ① (N) 4" WASTE BELOW GRADE & SLOPE @ 1%.
- ② (N) 3" WASTE BELOW GRADE & SLOPE @ 2%.
- ③ (N) 2" WASTE BELOW GRADE & SLOPE @ 2%.
- ④ (N) 3" WASTE DOWN & 2" VENT UP THRU ROOF. (TYPICAL FOR WATER CLOSET & MOP SINK)
- ⑤ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL FOR LAVATORY)
- ⑥ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL FOR SHOWER STALL)
- ⑦ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL FOR KITCHEN SINK)
- ⑧ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL CLOTHES WASHER)
- ⑨ (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF.
- ⑩ PROVIDE ACCESSIBLE CLEANOUT.
- ⑪ CONNECT GARBAGE DISPOSAL TO SINK & CONNECT DISHWASHER TO GARBAGE DISPOSAL THROUGH APPROVED LEDGE MOUNTED AIR GAP FITTING ON SINK.
- ⑫ (N) 3" WASTE FROM ABOVE.
- ⑬ (N) 3" WASTE @ CEILING & DOWN BELOW GRADE.
- ⑭ (N) 2" VENT & UP THRU ROOF.
- ⑮ (E) LAVATORY TO BE RELOCATE.

GENERAL NOTES

- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
- ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
- ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
- ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
- ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
- ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
- ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
- ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
- ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
- ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
- ⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.
- ⑭ PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS. EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

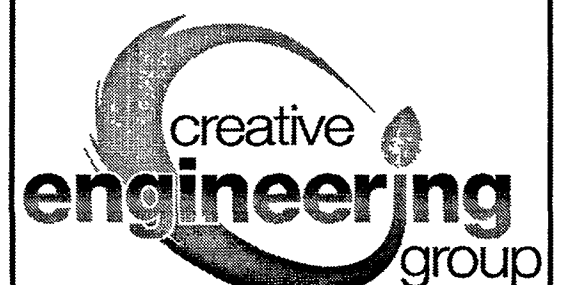
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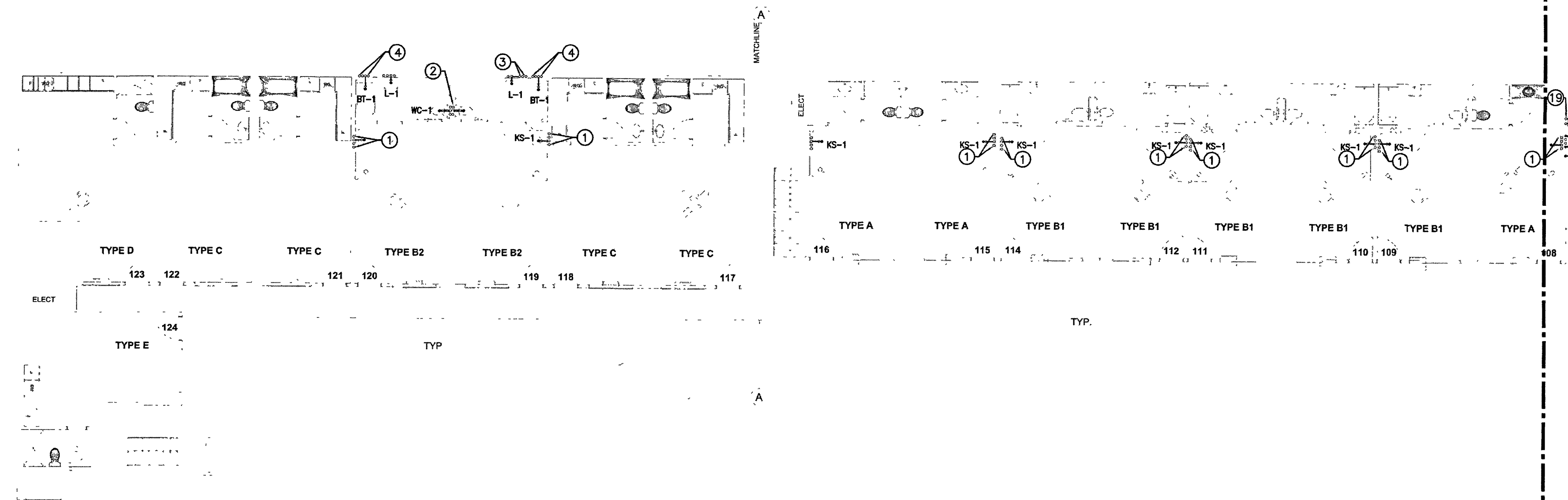
DESCRIPTION	DATE
MEP REVISION	02/28/2023

JOB:	
SCALE:	AS SHOWN
DRAWN:	CEG
DATE	02/28/2023

PLUMBING ENLARGED PARTIAL FIRST FLOOR WASTE & VENT PLAN

SHEET NO

P2.1.1B



PLUMBING ENLARGED PARTIAL FIRST FLOOR WATER AND GAS PLAN
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES

- ① 1" COLD WATER & 1" HOT WATER SUPPLY FROM ABOVE & DOWN TO KITCHEN SINK. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
- ② EXTEND COLD WATER PIPING FROM REMOVED (E) WATER CLOSET.
- ③ EXTEND HOT & COLD WATER PIPING FROM REMOVED (E) LAVATORY.
- ④ EXTEND HOT & COLD WATER PIPING FROM REMOVED (E) TUB/SHOWER. REFER TO ARCHITECT & ADA REQUIREMENTS OF EXACT LOCATION OF SHOWER HEAD, VALVES, AND CONTROLS.

GENERAL NOTES

- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
- ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
- ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
- ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
- ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
- ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
- ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
- ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
- ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
- ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
- ⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.

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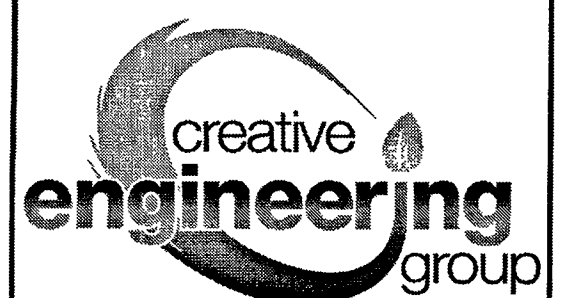
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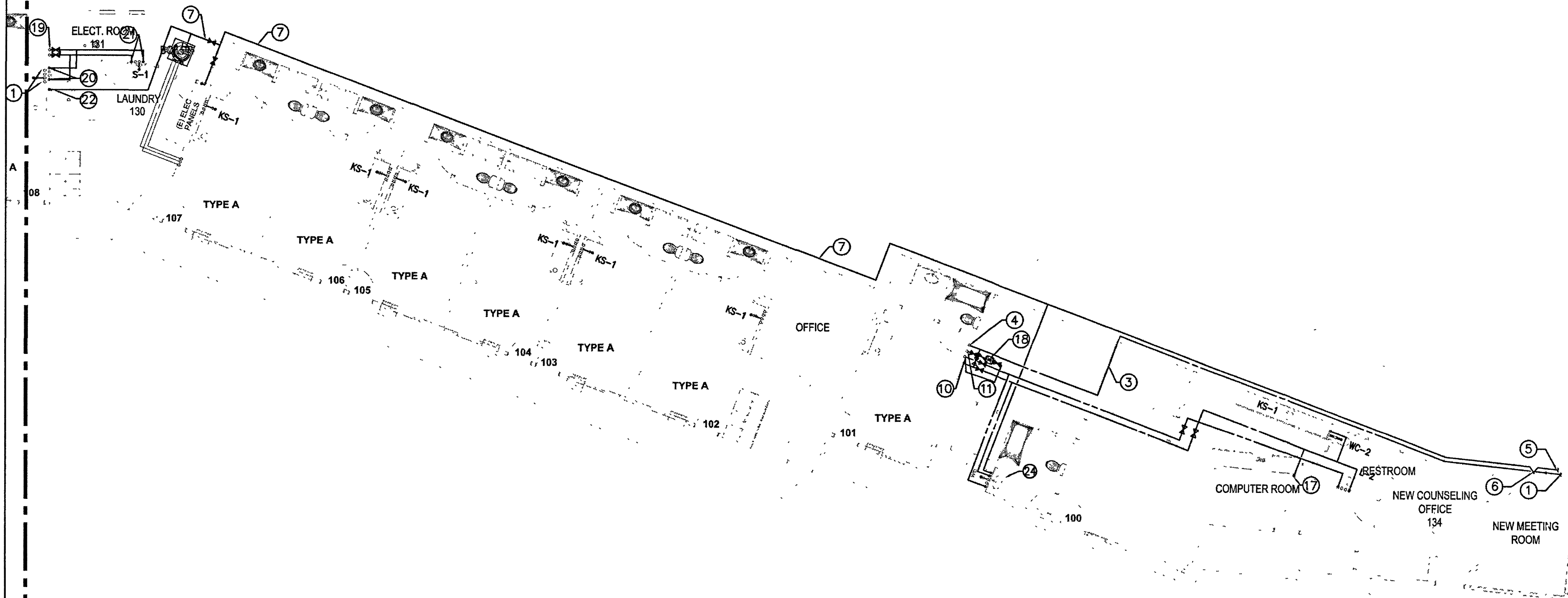
JOB
SCALE AS SHOWN
DRAWN CEG
DATE 02/28/2023
SHEET TITLE

PLUMBING ENLARGED PARTIAL FIRST FLOOR WATER & GAS PLAN

SHEET NO.

P2.1A

SEE SH. P2.1A
SEE SH. P2.1B



PLUMBING ENLARGED PARTIAL FIRST FLOOR WATER AND GAS PLAN

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

PLUMBING REFERENCE NOTES

- 1 2-1/2" COLD WATER & CONNECT TO MAIN. VERIFY ON SITE OF EXACT LOCATION OF MAIN WATER LINE. UPSIZE MAIN WATER LINE IF REQUIRED.
- 2 2-1/2" COLD WATER @ CEILING LEVEL.
- 3 2-1/2" COLD WATER @ CEILING.
- 4 2-1/2" COLD WATER @ CEILING & UP TO SECOND FLOOR CEILING OR ATTIC.
- 5 1-1/2" GAS & CONNECT TO MAIN. VERIFY ON SITE OF EXACT LOCATION OF MAIN GAS LINE. UP SIZE MAIN GAS LINE IF REQUIRED.
- 6 1-1/2" GAS & UP TO CEILING LEVEL.
- 7 1-1/2" GAS @ CEILING.
- 8 1-1/4" GAS @ CEILING & UP TO SECOND FLOOR.
- 9 1" COLD WATER & 1" HOT WATER SUPPLY FROM ABOVE & DOWN TO KITCHEN SINK. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
- 10 1-1/2" HOT WATER SUPPLY @ CEILING & FROM ABOVE.
- 11 1" HOT WATER RETURN @ CEILING & FROM SECOND FLOOR.
- 12 1" COLD WATER @ CEILING & DOWN TO WATER CLOSET.
- 13 3/4" COLD WATER & 3/4" HOT WATER SUPPLY @ CEILING & DOWN TO LAVATORY.
- 14 1" COLD WATER & 1" HOT WATER SUPPLY @ CEILING & DOWN TO SHOWER STALL. REFER TO ARCHITECT & ADA REQUIREMENTS OF EXACT LOCATION OF SHOWER HEAD, VALVES & CONTROLS
- 15 1" COLD WATER & 1" HOT WATER SUPPLY @ CEILING & DOWN KITCHEN SINK. 3/4" HOT WATER TO DISHWASHER.
- 16 1" COLD WATER & 1" HOT WATER SUPPLY @ CEILING & DOWN TO CLOTHES WASHER.
- 17 3/4" COLD WATER TO REFRIGERATOR.
- 18 CIRCUIT SOLVER WITH CHECK VALVE AND SHUT-OFF VALVE.
- 19 1-1/2" COLD WATER & 1-1/2" HOT WATER SUPPLY FROM SECOND FLOOR.
- 20 1" COLD WATER & 1" HOT WATER SUPPLY @ CEILING & DOWN TO CLOTHES WASHER.
- 21 1" COLD WATER & 1" HOT WATER SUPPLY @ CEILING & DOWN TO HAND SINK.
- 22 3/4" GAS @ CEILING & DOWN CONNECT TO CLOTHES DRYER. (TYPICAL)
- 23 1" GAS @ CEILING & DOWN CONNECT TO GAS RANGE.
- 24 (E) LAVATORY TO BE RELOCATE.

GENERAL NOTES

- 1 WASTE PIPING BELOW GROUND TO BE CAST IRON.
- 2 WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
- 3 USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- 4 PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
- 5 PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
- 6 SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- 7 SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
- 8 SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
- 9 CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
- 10 LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
- 11 VERIFY ON SITE EXACT LOCATION OF MANHOLE.
- 12 PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
- 13 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.

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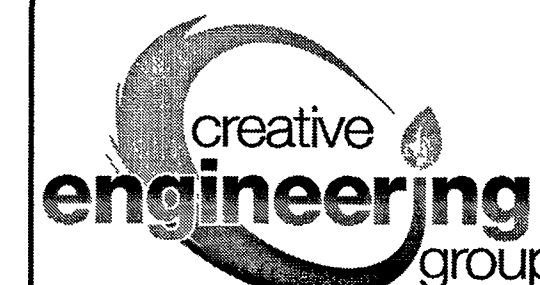
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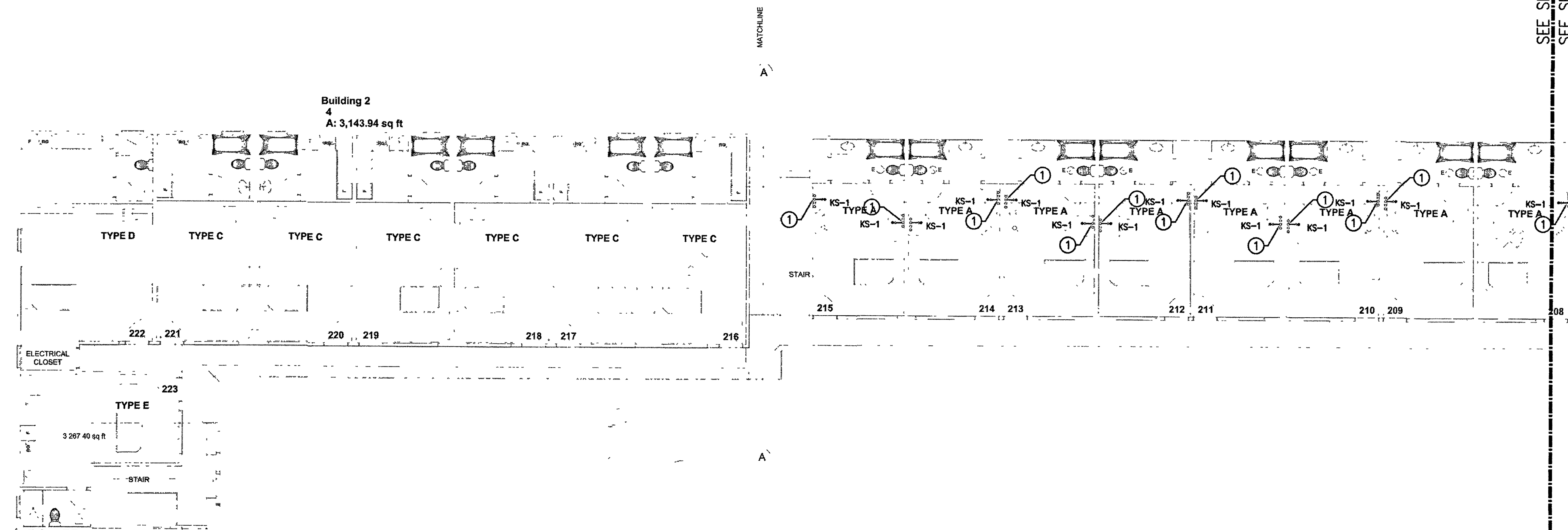
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PLUMBING
ENLARGED
PARTIAL FIRST
FLOOR WATER &
GAS PLAN

SHEET NO:

P2.1B



PLUMBING ENLARGED PARTIAL SECOND FLOOR WASTE AND VENT PLAN
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES	
①	(N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF. (TYPICAL FOR KITCHEN SINK)

GENERAL NOTES	
① WASTE PIPING BELOW GROUND TO BE CAST IRON.	⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.	⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.
③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.	⑭ PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS, EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.	
⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.	
⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.	
⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.	
⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.	
⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.	
⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.	
⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.	

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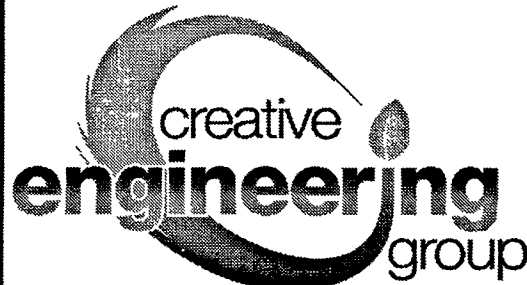
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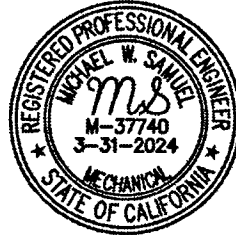
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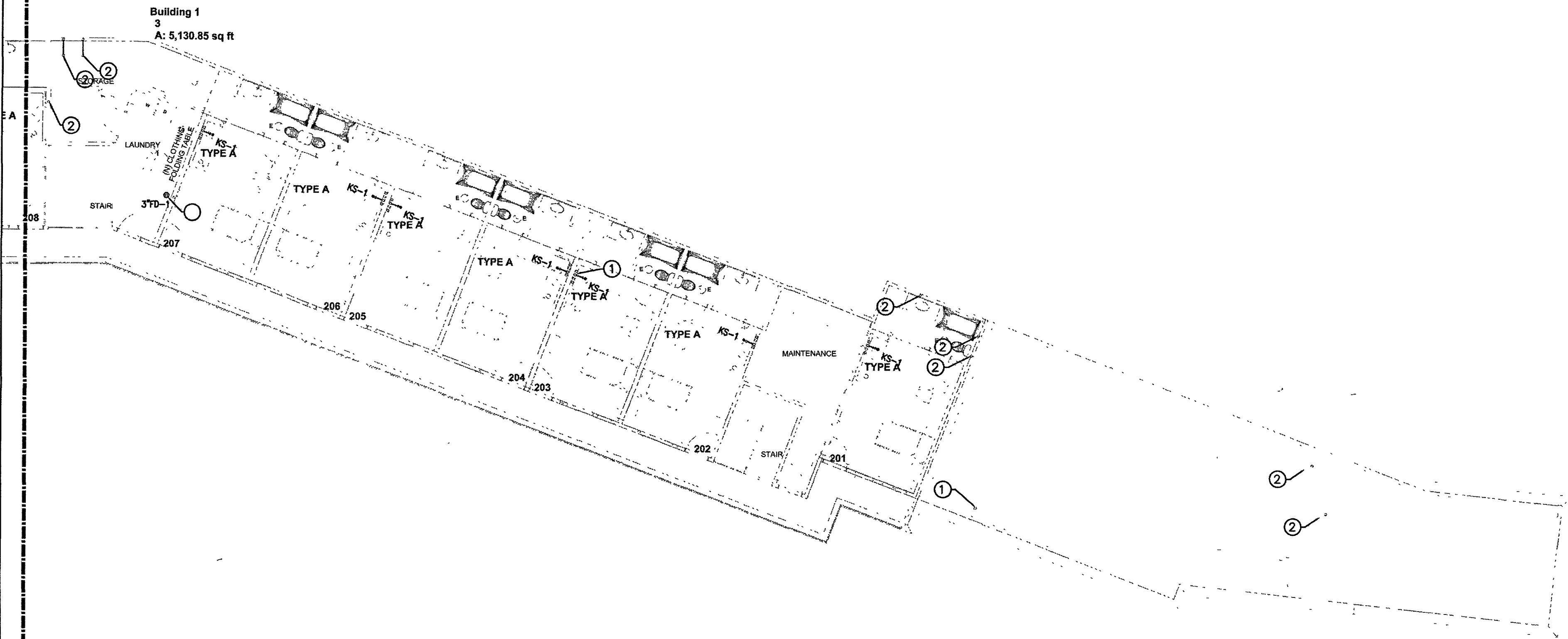
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SHEET TITLE	

PLUMBING
ENLARGED
PARTIAL SECOND
FLOOR WASTE &
VENT PLAN

SHEET NO:

P2.2.1A

SEE SHT. P2.2A
SEE SHT. P2.2B



PLUMBING ENLARGED PARTIAL SECOND FLOOR WASTE AND VENT PLAN
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES

- ① (N) 2" WASTE DOWN & 1-1/2" VENT UP THRU ROOF.
(TYPICAL FOR KITCHEN SINK)
- ② (N) 1-1/2" VENT UP THRU ROOF.
- ③ (N) 2" VENT UP THRU ROOF.

GENERAL NOTES

- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
- ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
- ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
- ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
- ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
- ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
- ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
- ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
- ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
- ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
- ⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.
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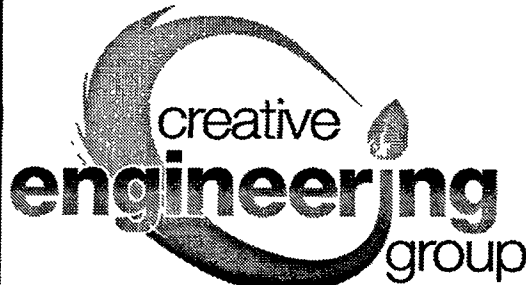
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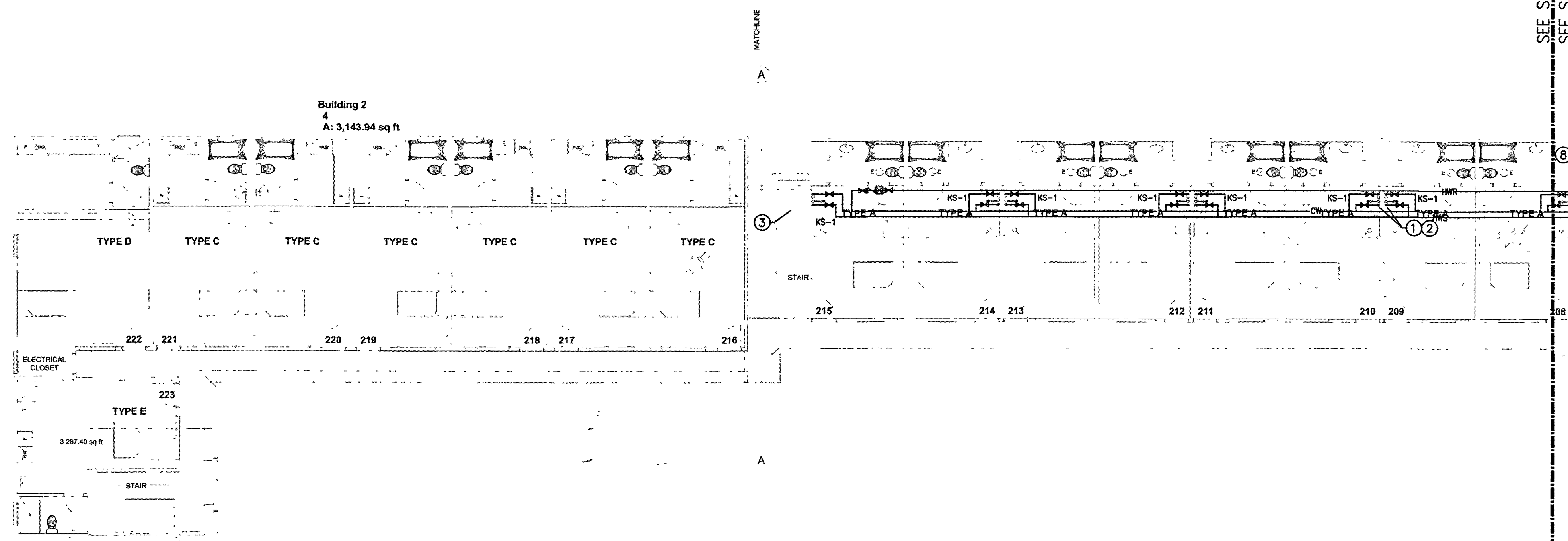
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SHEET TITLE
**PLUMBING
ENLARGED
PARTIAL SECOND
FLOOR WASTE &
VENT PLAN**

SHEET NO:

P2.2.1B



PLUMBING ENLARGED PARTIAL SECOND FLOOR WATER AND GAS PLAN
SCALE: 1/8"=1'-0"

- PLUMBING REFERENCE NOTES
- ① 1" COLD WATER & 1" HOT WATER SUPPLY & DOWN TO KITCHEN SINK. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
 - ② 1" COLD WATER & 1" HOT WATER SUPPLY & DOWN TO KITCHEN SINK @ FIRST FLOOR. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
 - ③ CIRCUIT SOLVER WITH CHECK VALVE AND SHUT-OFF VALVE.

- GENERAL NOTES
- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
 - ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
 - ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
 - ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
 - ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
 - ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
 - ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
 - ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
 - ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
 - ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
 - ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
 - ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
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 - ⑭ PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS, EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

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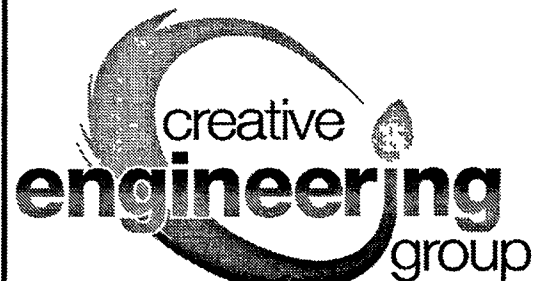
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SEAL AND STAMP



ISSUE DATES

DESCRIPTION	DATE
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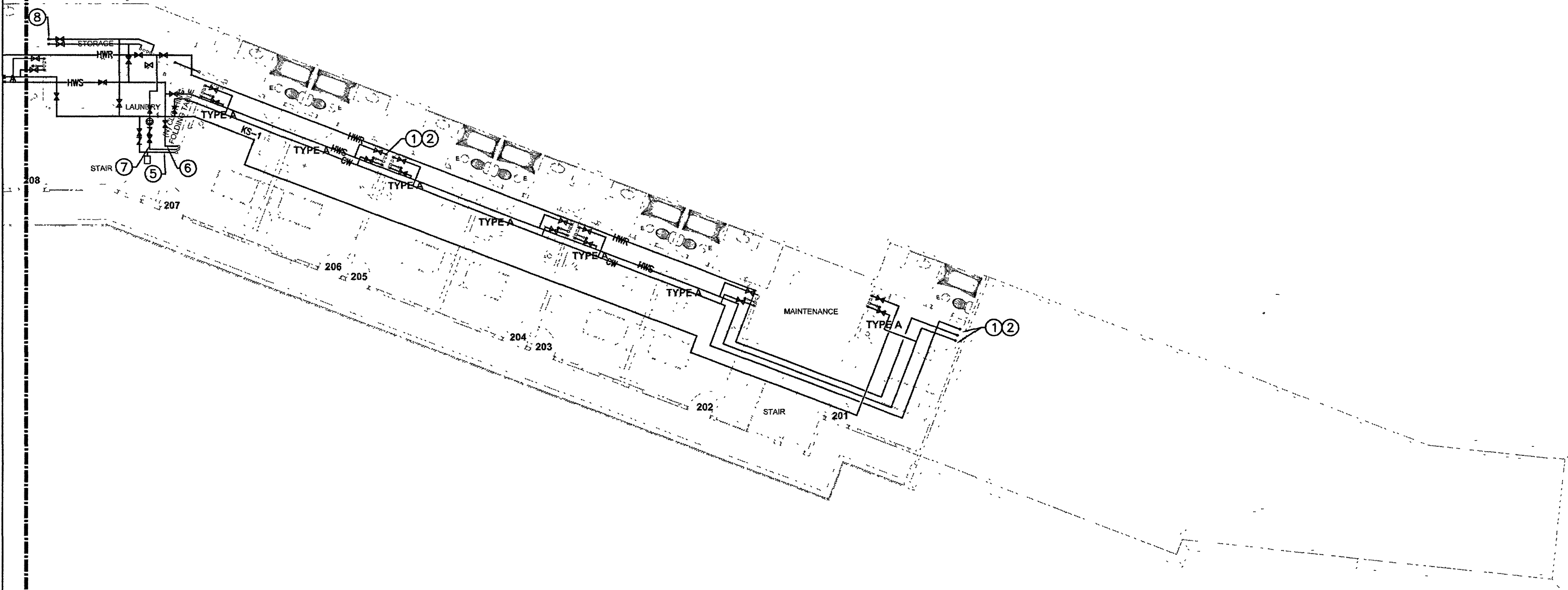
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SCALE: AS SHOWN
DRAWN: CEG
DATE: 02/28/2023

SHEET TITLE
**PLUMBING
ENLARGED
PARTIAL SECOND
FLOOR WATER
AND GAS PLAN**

SHEET NO:

P2.2A

SEE SHT. P2.2A
SEE SHT. P2.2B



PLUMBING ENLARGED PARTIAL SECOND FLOOR WATER AND GAS PLAN
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES

- ① 1" COLD WATER & 1" HOT WATER SUPPLY & DOWN TO KITCHEN SINK. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
- ② 1" COLD WATER & 1" HOT WATER SUPPLY & DOWN TO KITCHEN SINK @ FIRST FLOOR. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
- ③ 1-1/4" GAS FROM BELOW & UP TO CEILING.
- ④ 1-1/4" GAS & DOWN TO WATER HEATER.
- ⑤ 2-1/2" COLD WATER @ CEILING & DOWN TO WATER HEATER.
- ⑥ 2-1/2" HOT WATER SUPPLY FROM WATER HEATER & UP TO CEILING.
- ⑦ 1-1/4" HOT WATER RETURN @ CEILING & DOWN TO WATER HEATER.
- ⑧ 1-1/2" COLD WATER & 1-1/2" HOT WATER SUPPLY & DOWN TO FIRST FLOOR LAUNDRY ROOM.

GENERAL NOTES

- ① WASTE PIPING BELOW GROUND TO BE CAST IRON.
- ② WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.
- ③ USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- ④ PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.
- ⑤ PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.
- ⑥ SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ⑦ SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.
- ⑧ SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.
- ⑨ CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.
- ⑩ LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.
- ⑪ VERIFY ON SITE EXACT LOCATION OF MANHOLE.
- ⑫ PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.
- ⑬ ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.
- ⑭ PLUMBING CONTRACTOR SHALL PROVIDE ROUGH-INS, EXTEND ALL PIPING (WASTE, VENT, COLD WATER, HOT WATER, ETC.) TO ALL FIXTURES AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

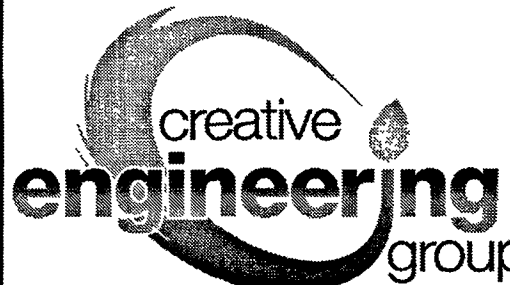
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PLUMBING
ENLARGED
PARTIAL SECOND
FLOOR WATER
AND GAS PLAN

SHEET NO:

P2.2B

SEE ENLARGED PARTIAL ROOF PLAN-A
SEE ENLARGED PARTIAL ROOF PLAN-B

PLUMBING REFERENCE NOTES

1

(N) 1-1/2" VENT UP THRU ROOF.

2

(N) 2" VENT UP THRU ROOF.

GENERAL NOTES

1

WASTE PIPING BELOW GROUND TO BE CAST IRON.

2

WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.

3

USE SOUND ISOLATION BRACKETS FOR WATER PIPING.

4

PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.

5

PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.

6

SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

7

SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.

8

SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.

9

CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.

10

LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.

11

VERIFY ON SITE EXACT LOCATION OF MANHOLE.

12

PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.

13

ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.

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PLUMBING ENLARGED PARTIAL ROOF PLAN-B
SCALE: 1/8"=1'-0"

PLUMBING REFERENCE NOTES

1

(N) 1-1/2" VENT UP THRU ROOF.

GENERAL NOTES

1

WASTE PIPING BELOW GROUND TO BE CAST IRON.

2

WASTE & VENT PIPING ABOVE GROUND TO BE CAST IRON.

3

USE SOUND ISOLATION BRACKETS FOR WATER PIPING.

4

PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.

5

PROVIDE ANGLE STOPS FOR EACH INDIVIDUAL FIXTURE.

6

SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

7

SEE WASTE & VENT, GAS, HOT & COLD WATER PIPING RISER DIAGRAMS.

8

SEE PLUMBING SITE PLAN AND CIVIL DRAWINGS.

9

CONNECT VENTS IN ROOF ATTIC SPACE & VERIFY EXACT LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECT.

10

LOWER ROUGH-IN HEIGHTS FOR ALL ADA & ADAPTABLE KITCHENS.

11

VERIFY ON SITE EXACT LOCATION OF MANHOLE.

12

PLUMBING CONTRACTOR SHALL CARRY ALLOWANCE TO PROVIDE A COMPLETE PLUMBING SYSTEM FOR ALL AREAS INCLUDING PLUMBING FIXTURE ROUGH-IN AND ALL UTILITY PIPES.

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ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE, 2019.

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PLUMBING ENLARGED PARTIAL ROOF PLAN-A
SCALE: 1/8"=1'-0"

SEE ENLARGED PARTIAL ROOF PLAN-A
SEE ENLARGED PARTIAL ROOF PLAN-B

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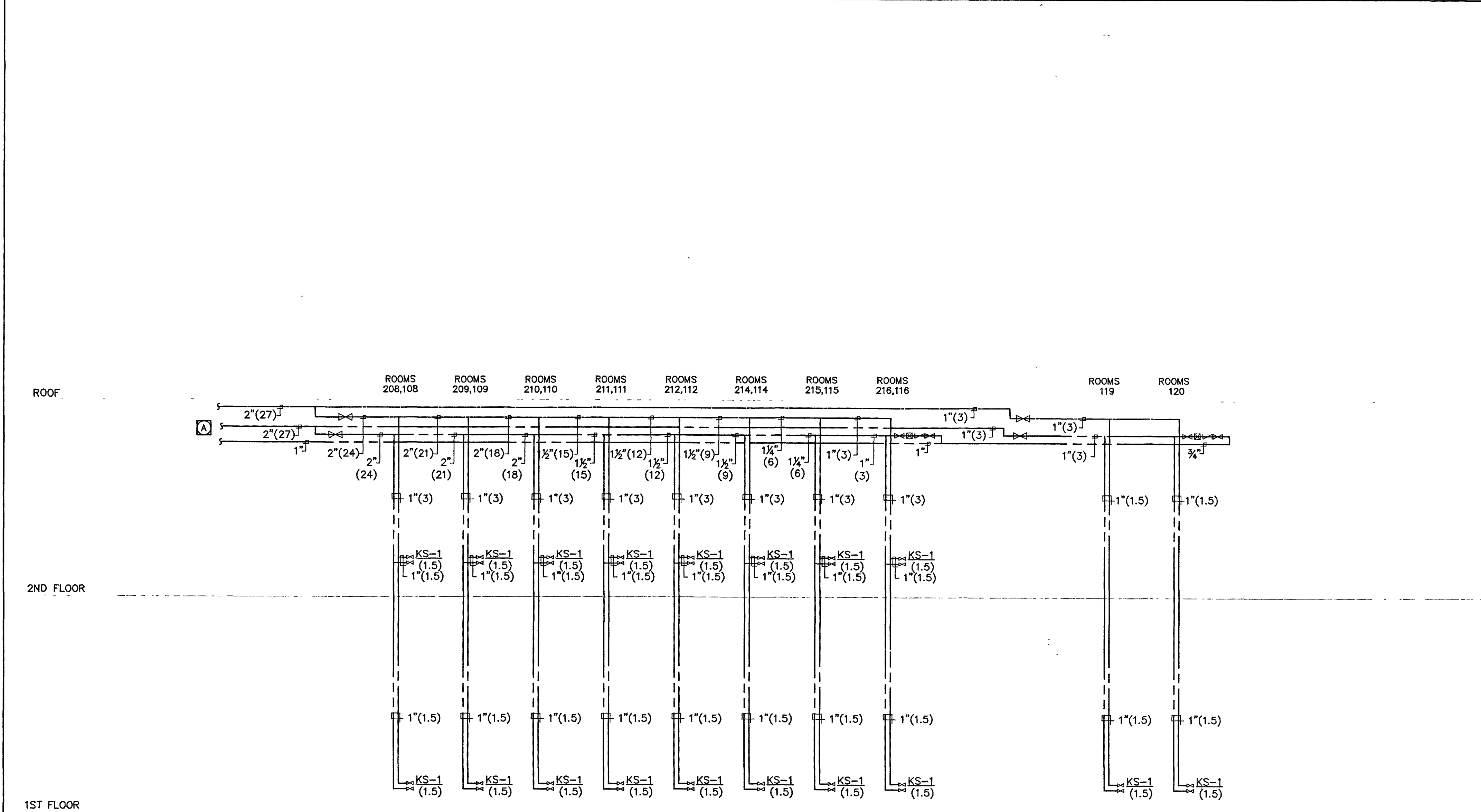
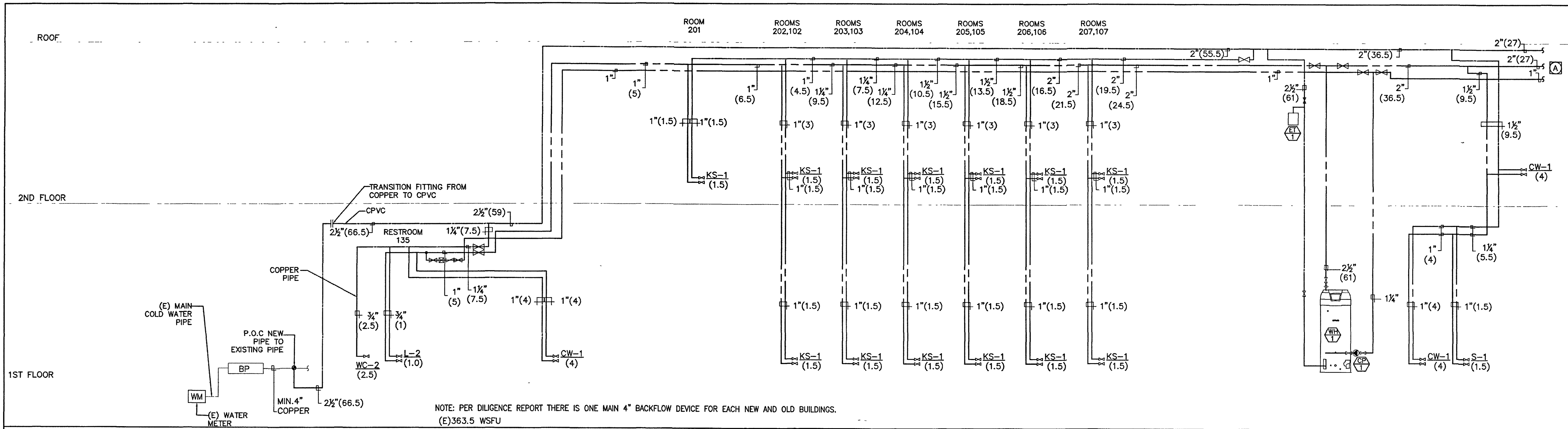


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SHEET TITLE:	

PLUMBING
ROOF PLAN

SHEET NO.

P2.3



COPPER PIPE SIZING CHARTS									
(COLD WATER)									
DISTRIBUTION PIPE SIZING CHART									
1.1 PSI/100 FT MAXIMUM FRICTION LOSS									
MAXIMUM VELOCITY OF 6 FEET/ SECOND									
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GPM	-	3	5	9	15	31	55	88	185
FT FU	-	2	6	13	21	58	165	337	874
FV FU	-	-	-	-	-	15	69	205	850
VEL	-	-	-	-	-	-	-	-	-

(HOT WATER)									
DISTRIBUTION PIPE SIZING CHART									
1.1 PSI/100 FT MAXIMUM FRICTION LOSS									
MAXIMUM VELOCITY OF 5 FEET/ SECOND									
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GPM	-	3	5	9	15	31	55	88	185
FT FU	-	2	6	13	21	58	165	337	840
FV FU	-	-	-	-	-	-	-	-	-
VEL	-	-	-	-	-	-	-	-	-

CPVC PIPE SIZING CHARTS									
(COLD WATER)									
DISTRIBUTION PIPE SIZING CHART									
1.1 PSI/100 FT MAXIMUM FRICTION LOSS									
MAXIMUM VELOCITY OF 6 FEET/ SECOND									
PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	
GPM	2	4	7	11	23	50	90	180	
FT FU	1	4	8	15	36	127	326	809	
FV FU	-	-	-	-	6	55	224	800	
VEL	-	-	-	-	-	-	-	-	

CPVC PIPE SIZING CHARTS									
(HOT WATER)									
DISTRIBUTION PIPE SIZING CHART									
1.0 PSI/100 FT MAXIMUM FRICTION LOSS									
MAXIMUM VELOCITY OF 6 FEET/ SECOND									
PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	
GPM	2	4	7	11	23	50	90	180	
FT FU	1	4	8	15	36	127	326	809	
FV FU	-	-	-	-	-	-	-	-	
VEL	-	-	-	-	-	-	-	-	

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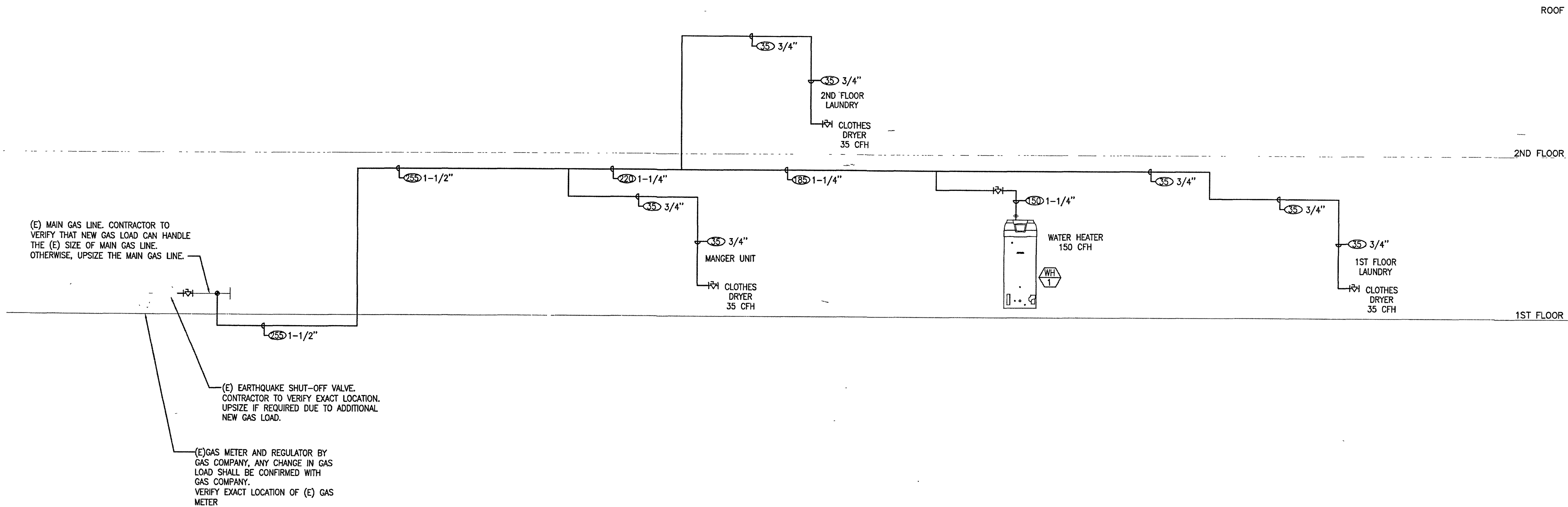
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SHEET TITLE	

PLUMBING HOT AND COLD WATER RISER DIAGRAMS

SHEET NO:



NEW GAS LOAD (TOTAL GAS LOAD)						
FIXTURE	QTY	BTUH				CFH
WATER HEATER	1	150,000	X	1	= 150,000	150
CLOTHES DRYER	3	35,000	X	3	= 105,000	105
TOTAL GAS LOAD		255,000				255

DETAIL LEGEND

ⓧ — CUBIC FEET PER HOUR (CFH)

- TOTAL SYSTEM NEW DEMAND FOR HOUSE METER 320 CFH.
- LOW PRESSURE GAS:
DEVELOPED LENGTH OF 300 FT. FROM REGULATOR TO FURTHEST OUTLET
- USE TABLE 1215.2(1) CPC FOR LOW PRESSURE GAS.

NOTES:
1. DEVELOPED LENGTH OF 300 FT. FROM REGULATOR TO FURTHEST OUTLET.
2. PROVIDE EARTHQUAKE SHUT-OFF VALVE.

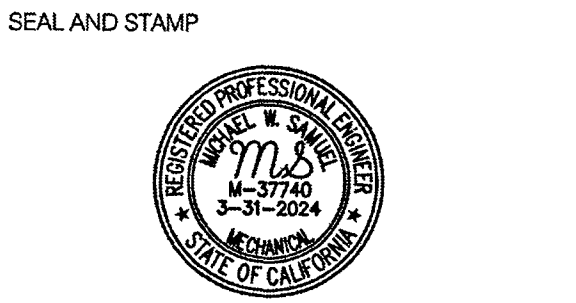
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**PLUMBING
GAS RISER
DIAGRAMS**

SHEET NO.