

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

SERVICE - WATER HEATING NOTES

- 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

- ALL HOT WATER PIPE TO BE INSULATED WITH SNAP-ON TYPE FIBERGLAS INSULATION WITH STAPLED CANVAS JACKETS.
- 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

- ALL OF THE PLUMBING SYSTEM MUST BE ISOLATED FROM THE BUILDING FRAMEWORK.
- FOR 1/2" TO 2" DIAMETER PIPES, USE HOLIDRITE 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.
- THE ELBOWS BELOW TOILET AND TUB WASTE OUTLETS SHALL BE ISOLATED FROM ALL POSITIONING BLOCKS USING CARPET PADDING OR HIGH DENSITY 1/2" 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

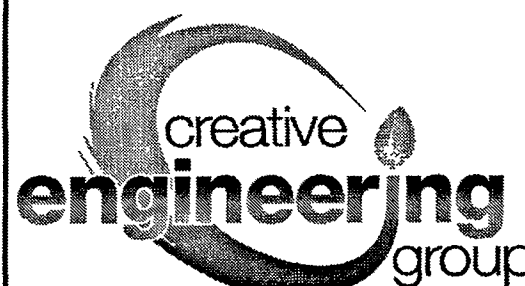
- NOTIFY WATER CO. OF PROPOSED NEW SERVICES TO EXISTING MAINS, AND PAY COST FOR METERS AND HOOKUP INSTALLATIONS.
- SLOPE ALL SOIL & WASTE LINES MIN. 2% SLOPE (1/4" PER FT.) UNLESS OTHERWISE INDICATED.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE PLUMBING PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE RUNS.
- SUPPLY ROUGH-IN, INSTALL AND CONNECT PLUMBING FIXTURES AS REQUIRED UNLESS OTHERWISE NOTED.
- PROVIDE AND INSTALL AN AUTOMATIC AIR VENT AT HIGH POINT OF ALL HOT WATER LINES.
- 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.
- VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL PLANS PRIOR TO BID OR MATERIAL PURCHASE.
- WORK SHALL NOT BE COVERED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE PLUMBING INSPECTOR OR OTHER GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
- PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- FLUSH VALVES, FAUCETS, STOPS, BUBBLERS, ETC., SHALL BE ADJUSTED TO THEIR NORMAL WORKING CONDITIONS.
- 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.
- RECOMPACT ALL PLUMBING EXCAVATION.
- ALL MATERIALS, EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM TO ALL REQUIREMENTS OF ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES, ORDINANCES & REGULATIONS.
- VERIFY SIZE, LOCATION, DEPTH, ETC., OF ALL UTILITIES IN THE FIELD.
- FURNISH AND INSTALL ALL BACK FLOW PROTECTION AS REQUIRED BY STATE AND LOCAL HEALTH DEPT. AND APPLICABLE CODES.
- 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.
- PLUMBING CONTRACTOR TO SET IN PLACE ALL OWNER FURNISHED EQUIPMENT ON FIXTURE CONNECTION SCHEDULE AS DETAILED OR DIRECTED IN FIELD.
- ALL SINKS AND LAVATORIES IN FOOD FACILITY AREAS SHALL BE SUPPLIED WITH A MIN. OF 120" F. HOT WATER.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, AND SHALL CONFORM TO THE CALIFORNIA PLUMBING CODE, LATEST EDITION. (2013)
- ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED WHERE POSSIBLE AND EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- REFER TO AIR CONDITIONING PLANS FOR DRAINS, ETC., FROM EQUIPMENT.
- INSULATE TAILPIECE, TRAP AND WATER LINES UNDER LAVATORIES DESIGNED FOR HANDICAP USE.
- ALL INDIRECT DRAINS SHALL CONFORM TO CHAPTER 8, SECT. 803.0 CALIFORNIA PLUMBING CODE (2013).
- THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER PER CHAPTER 6, SEC. 609.9 CALIFORNIA PLUMBING CODE (2013).
- ALL FIXTURES, EQUIPMENT, PIPING, FITTINGS, AND MATERIALS SHALL BE LISTED.
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE.
- ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 120°.
- WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- 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.
- 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.
- THE SEISMIC GAS SHUT-OFF VALVE SHALL BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING.
- 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.
- 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.
- 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
- 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.
- GAS PIPING UNDERGROUND BENEATH BUILDINGS SHALL BE INSTALLED EITHER PER SECTION 12101.1.6.1 OR SECTION 12101.1.6.2 2013 CPC.
- INSTALL CAST IRON PIPE, COPPER PIPE, AND FITTINGS BELOW GRADE INSIDE 8 MIL POLYETHYLENE TUBE PER AWWA-C-105 OR ANSI B215.
- 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.
- ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER AND ACCESS PANEL.
- ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE CALIFORNIA PLUMBING CODE.
- WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
- 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.
- 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.
- ALL HOSE BIBBS SHALL BE EQUIPPED WITH AN APPROVED NON-REMOVABLE VACUUM BREAKER.
- 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.
- PUBLIC LAVATORIES SHALL HAVE A WATER TEMPERING DEVICE THAT COMPLIES W/ ASSE 1070 OR CSA B125.3.
- 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.
- HORIZONTAL VENTS BELOW THE THE FLOOD LEVEL RIM OF THE FIXTURE NOT ALLOWED FOR PLUMBING FIXTURES THAT ARE WITHIN TRAP ARM DISTANCE OF WALLS.
- ALL PIPING SHALL BE DEBURRED/REAMED TO FULL BORE OF PIPE.
- 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.
- PLUMBING PENETRATIONS THROUGH OCCUPANCY SEPARATIONS SHALL BE BOXED OUT AND FILLED WITH APPROVED SAFING MATERIAL. INSULATION NOT APPROVED.
- 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.
- SHOWER TUB-SHOWER COMBINATION SHALL HAVE INDIVIDUAL SHOWER CONTROL VALVE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE, SET AT 120F MAXIMUM.
- GAS METER SHALL BE INSTALLED PER GAS COMPANY AND PROTECTED PER GAS COMPANY AND OTHER LOCAL AUTHORITY DIRECTION.
- ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED TO APPROVED STANDARDS BY AN RECOGNIZED THIRD-PARTY LISTING AGENCY.
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN THE CALIFORNIA PLUMBING CODE & CALGREEN CODE WHICHEVER IS STRINGENT.
- ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING METERING FAUCETS.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110 DEGREE F.
- WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- 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.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
- 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.
- 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.
- ALL PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER "SMACNA" GUIDE LINES.
- PLUMBERS TAPE WILL NOT BE ACCEPTED AS A PERMANENT SUPPORT FOR ANY PIPING OR DEVICES.
- VALVES SHALL FULL FLOW 1/4 TURN BALL TYPE BY NIBCO, WATTS, CRANE, STOOKHAM 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 LOCKING HANDLES. NO IRON BODY VALVES WILL BE ACCEPTED.
- PROVIDE AND INSTALL DIELECTRIC UNIONS BETWEEN ALL COPPER AND GALVANIZED & IRON PIPING & COMPONENTS. (AS WATTS, ZURN OR EQUAL).
- 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 SEM STD. #12-43-2 AND STD. #12-43-1. INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND BE MAINTAINED AT THE JOB SITE.
- PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THROUGH EXTERIOR WALLS, ROOF AND FLOORS.
- WATER, SEWER, VENT, FIRE AND GAS PIPES THROUGH CONCRETE WALLS AND FLOORS SHALL HAVE PIPE-SLEEVES WITH NON COMBUSTIBLE SEALING.
- ALL HOSE BIBBS SHALL BE EQUIPPED W/ AN APPROVED NON REMOVABLE VACUUM BREAKER.
- RUN A FULL SIZE DRAIN LINE FROM WATER HEATERS TEMPERATURE AND PRESSURE RELIEF VALVE TO NEAREST FLOOR SINK OR TO AN APPROVED LOCATION.
- PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES, STRAINERS, TRAP PRIMERS, ETC.
- ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED. EXPOSED PIPING, WHERE NECESSARY, SHALL RUN AS HIGH AS POSSIBLE AND TIGHT TO THE WALLS.
- 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.
- 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.
- 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.
- SEWER PIPE SIZES THAT ARE 3 INCHES OR SMALLER SHALL BE SLOPED AT 2%.
- 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.
- 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.
- TYPE B VENTS SHALL TERMINATE 2 FT. ABOVE OR 8 FT. AWAY FROM ANY VERTICAL SURFACE.
- 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.
- WATER HEATERS AND STORAGE TANKS SHALL BE SEISMICALLY BRACED.

NOTICE

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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 GENERAL NOTES

SHEET NO:

P1.0

PLUMBING SHEET INDEX

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|---------|--|
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| P4.1 | PLUMBING WASTE AND VENT RISER DIAGRAMS |
| P5.1 | PLUMBING GAS RISER DIAGRAMS |

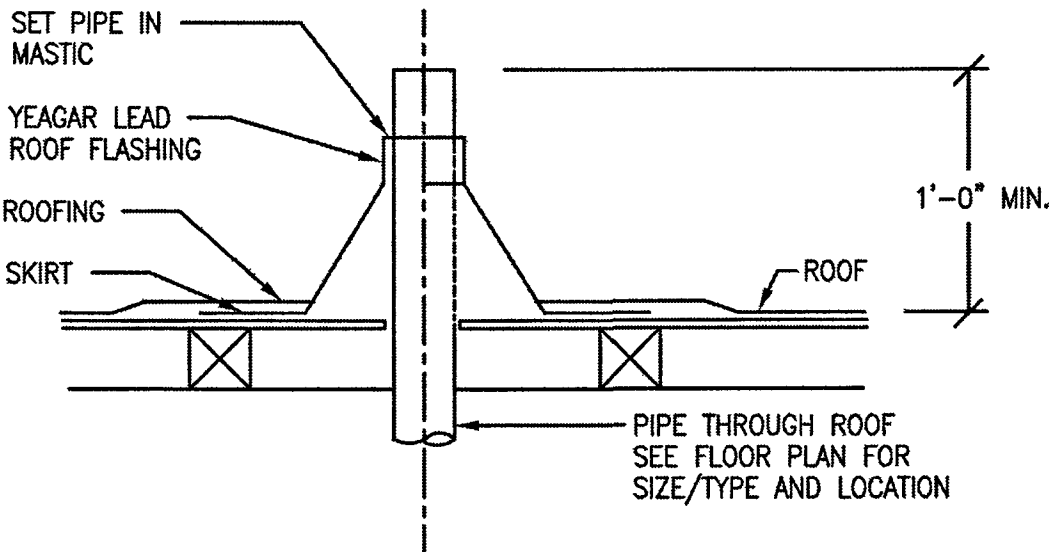
P1.1

| PIPING MATERIAL SCHEDULE | | | | | | | | | | | | | | REMARKS |
|--------------------------|-----------|------------------|------------------|-----------------------|--------------------|-----------------------|-----------------------------|------------------|----------------------------|---------------------------|-----------------------|-------------------|-------------------|---|
| SERVICE | MATERIAL | COPPER, TYPE "K" | COPPER, TYPE "L" | SCHED. 40 BLACK STEEL | SCH. 40 P.V.C. DWV | CRVC CTS SDR11 FOR 2" | PEX TUBING W/COLD EXPANSION | SCHED. 40 P.V.C. | CORRUGATED STAINLESS STEEL | POLYETHYLENE PLASTIC PIPE | SCHED. 40 GALV. STEEL | PERFORATED SDR 35 | CRVC CTS SDR11 2" | |
| WATER SITE DISTRIBUTION | U.G. | | | | | | | | | | | | | BY CIVIL |
| 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. |
| COLD/HOT WATER | OUTS./A/G | | | | | | | | | | | | | PLASTIC PIPE SHALL NOT BE INSTALLED EXPOSED TO THE SUNLIGHT. |
| GAS | INSIDE | | | | | | | | | | | | | CPVC PIPE MANUFACTURED BY CHARLOTTE PIPE LARR #5697 AND HARVEL LARR #5695. |
| SANITARY/WASTE SEWER | OUTS./A/G | | | | | | | | | | | | | PROVIDE DOUBLE WALL PIPING W/VENTING WHEN INSTALLED UNDER SLAB; BLACK WALLEABLE IRON FITTING. PIPE EXPOSED TO WEATHER SHALL BE GALVANIZED STEEL PIPE. |
| 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. |
| STORM DRAINAGE | OUTS./A/G | | | | | | | | | | | | | 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. |
| CONDENSATE DRAIN | INSIDE | | | | | | | | | | | | | HUBLESS CHARLOTTE PIPE AND FOUNDRY (CPSI AND NSF LISTED) CONFIRM WITH ARCHITECT FOR EXTERIOR DOWN SPOUTS |
| TRAP PRIMER | OUTS./A/G | | | | | | | | | | | | | PROVIDE WITH FOAM INSULATION |
| | | | | | | | | | | | | | | ROLLED COPPER WITH SLEEVE |
| | | | | | | | | | | | | | | NOT USED |

PIPING MATERIAL SCHEDULE

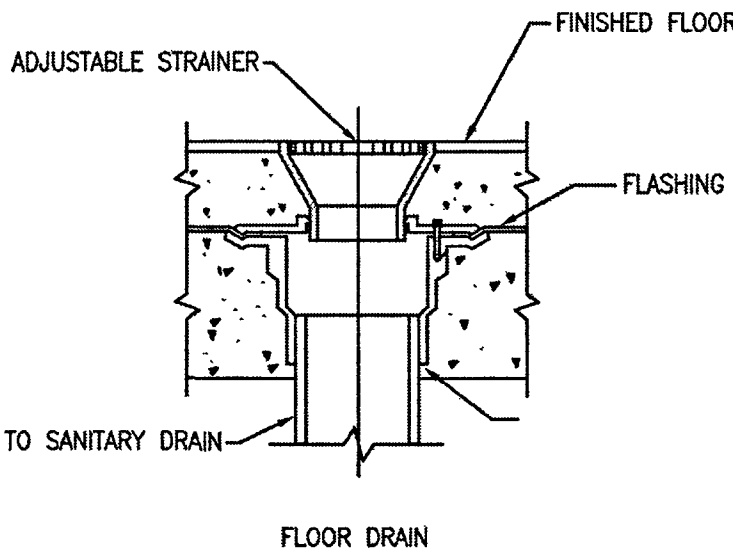
SCALE NONE 2

NOT USED



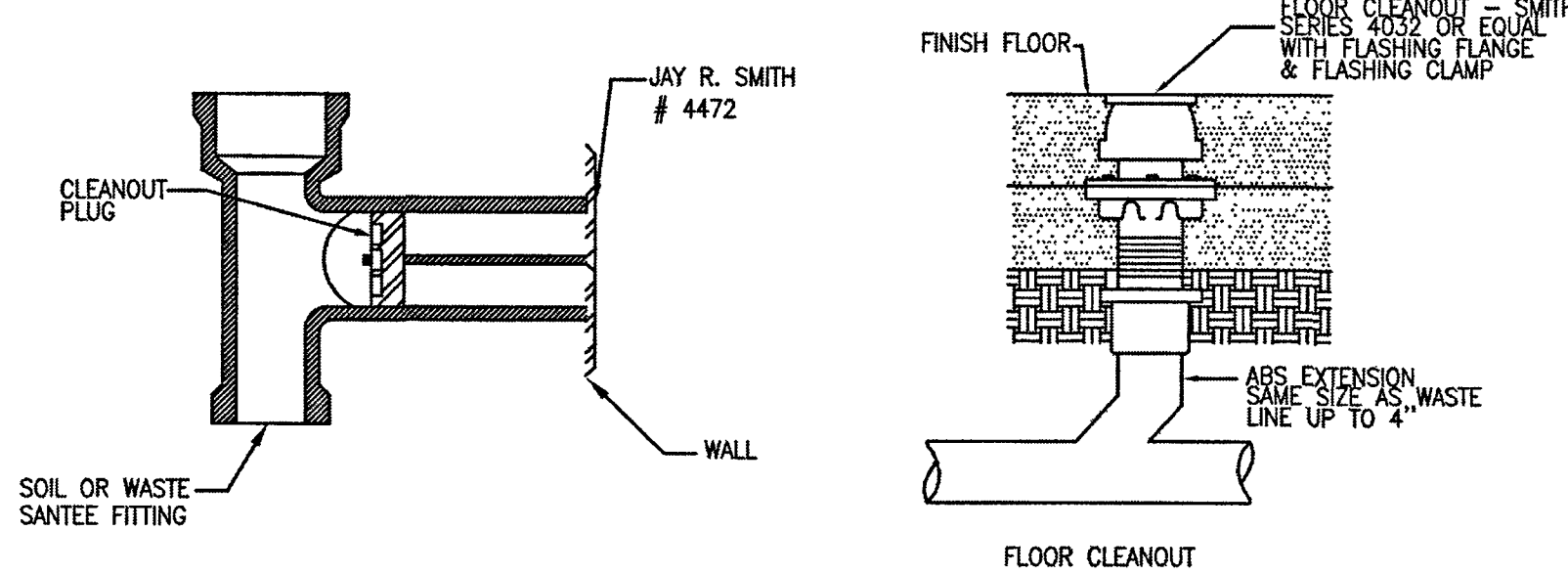
WASTE & VENT PIPE THRU ROOF DETAIL

SCALE NONE 5



FLOOR DRAIN DETAIL

SCALE NONE 4



FLOOR AND WALL CLEANOUT DETAIL

SCALE NONE 3

PLUMBING EQUIPMENT SCHEDULE

REMARKS :

1

ALL PLUMBING FIXTURES TO BE WHITE AND TRIM TO BE POLISHED CHROME FINISH UNLESS NOTED OTHERWISE.

2

PROVIDE BRASS/CRAFT 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, WPMO 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 | SOIL OR WASTE | VENT | COLD WATER | HOT WATER | WASTE F.U. | COLD WATER F.U. | DESCRIPTION |
|------|------------------------|---------------|------|------------|-----------|------------|-----------------|---|
| 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" | 1½" | 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" | 1½" | 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" | 1½" | 1" | 1" | 2 | 1.5 | SHOWER HEAD SHALL BE 1.5 GPM OR LESS AT 80 PSI. BATHTUB/SHOWER SHALL HAVE INDIVIDUAL SHOWER CONTROL VALVE OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE, SET AT 120 DEGREE F MAXIMUM. 2" MIXING VALVE INLET CONNECTIONS. |
| SH-1 | SHOWER STALL (ADA) | 2" | 1½" | 1" | 1" | 2 | 2 | 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. 2" MIXING VALVE INLET CONNECTIONS. PUBLIC WATER CLOSET SHALL HAVE OPEN FROM SEAT. |
| WHA | WATER HAMMER ARRESTOR | - | - | - | - | - | - | PRECISION PLUMBING PRODUCTS WATER HAMMER ARRESTORS, HYDRAULIC DISPLACEMENT, PERMANENTLY SEALED, PISTON OPERATED, SIZED IN ACCORDANCE TO SCHEDULE: MODEL # FITTURE UNIT RATINGS (G.P.S.) SC-500 12-11 1/4" 12"x12" SC-750 12-32 3/4" 12"x12" SC-100 35-60 1" 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" | 1½" | - | - | 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 | - | - | ½" | - | - | - | PRECISION PLUMBING PRODUCTS MODEL # P-2 WITH SHUT-OFF VALVE AND 12"x12" ACCESS PANEL AS KARP MODEL #214M |
| FCO | FLOOR CLEANOUT | SEE PLANS | - | - | - | - | - | PROVIDE STAINLESS STEEL ACCESS PANEL IN TILED WALLS & ALL PUBLIC BATHROOMS CONFIRM FINISH OF ALL OTHER ACCESS PANEL WITH ARCHITECT |
| S-1 | HAND SINK | 2" | 1½" | 1" | 1" | 2 | 1.5 | J.R. SMITH #4020S IRON BODY, ABS PLUG WITH BRONZE COVER WITH GASKET. |
| | | | | | | | | SPECIFICATIONS BY ARCHITECT. |

PLUMBING EQUIPMENT SCHEDULE

SCALE NONE 1

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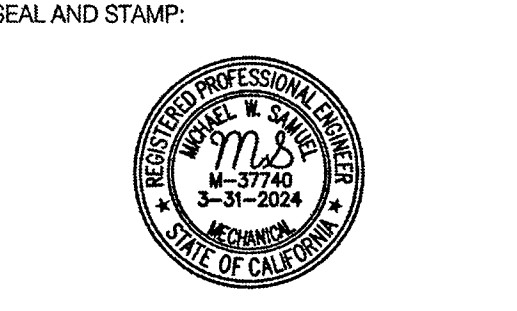
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creative engineering group

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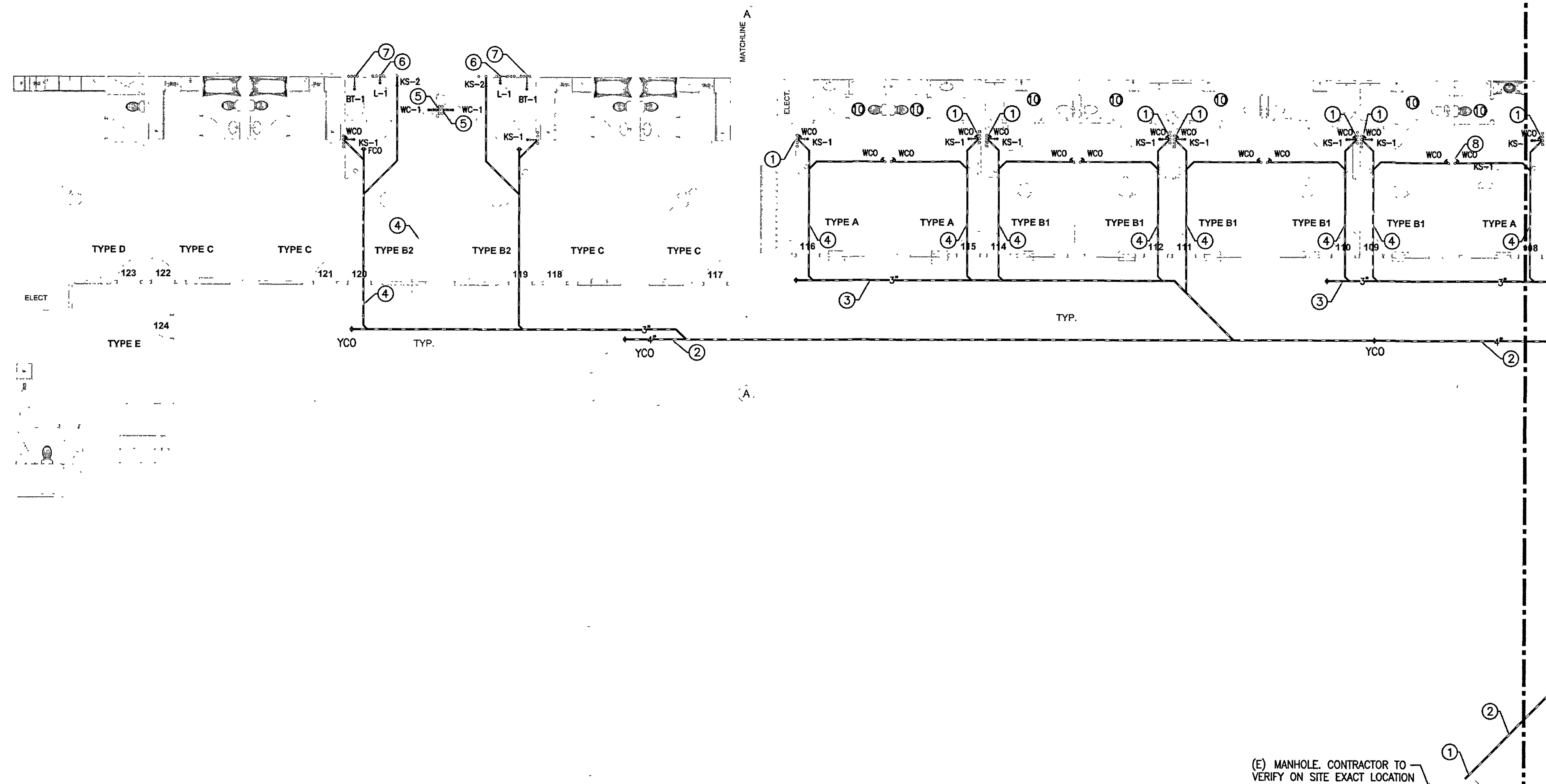


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| DRAWN: CEG | |
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| SHEET TITLE | |

PLUMBING SCHEDULE AND DETAILS

SHEET NO

P1.2



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.

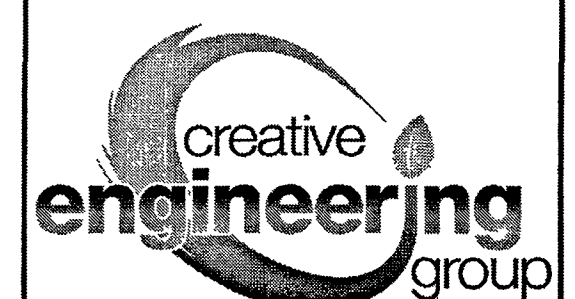
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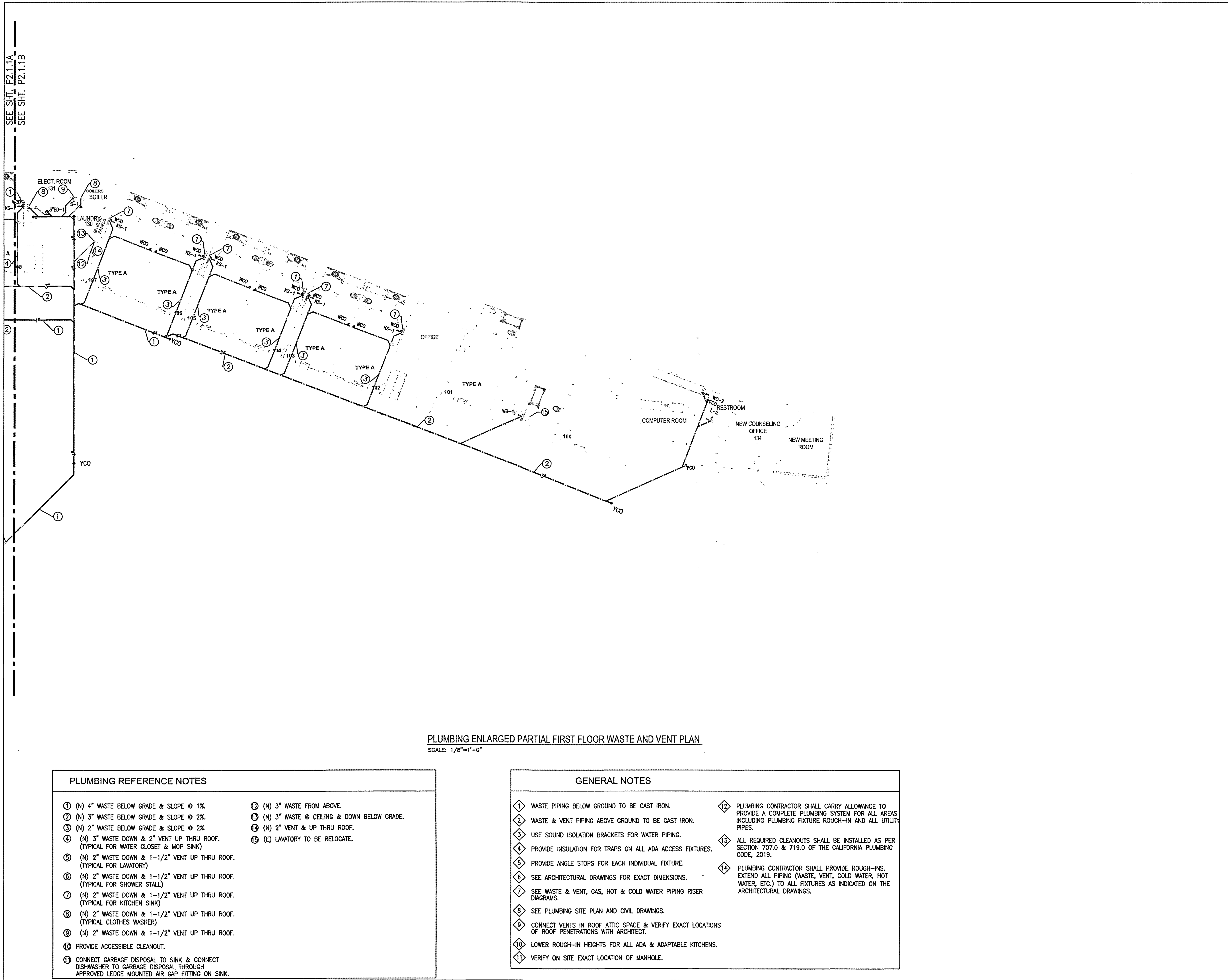
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| SCALE: | CEG |
| DRAWN: | 02/28/2023 |
| DATE: | |

SHEET TITLE

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

SHEET NO.

P2.1.1A



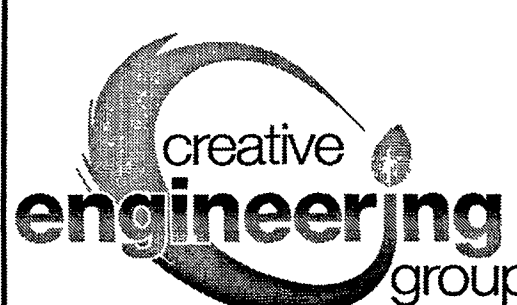
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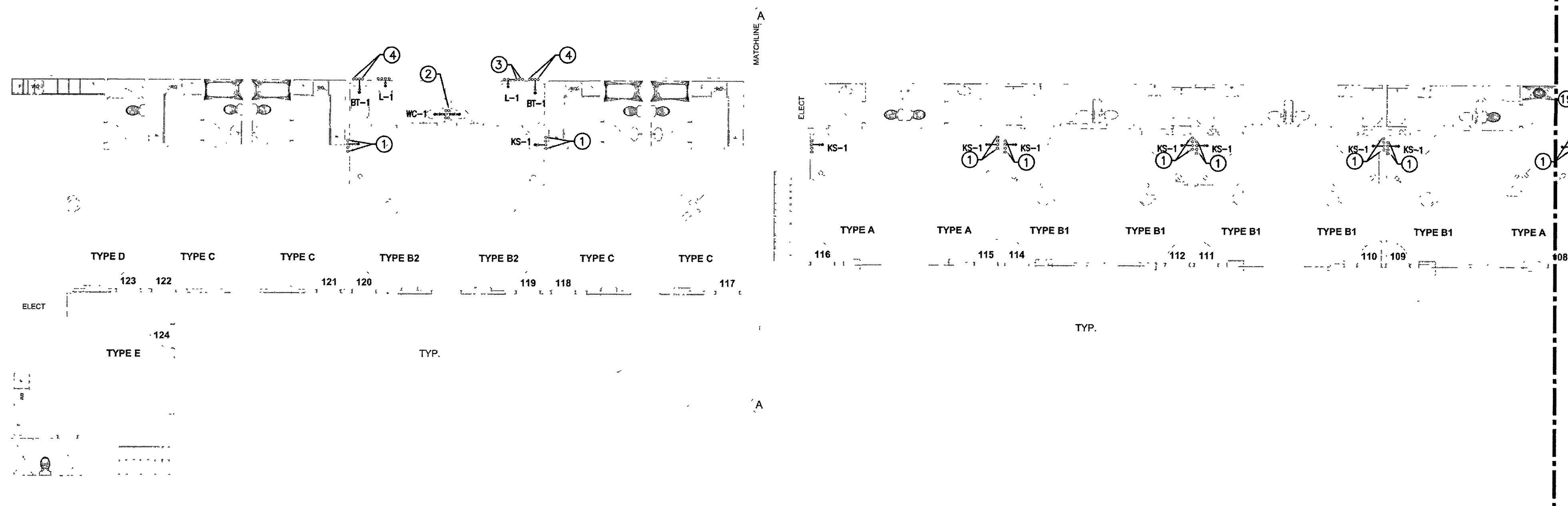
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**PLUMBING
ENLARGED
PARTIAL FIRST
FLOOR WASTE &
VENT PLAN**

SHEET NO

P2.1.1B



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

PLUMBING REFERENCE NOTES

- 1" COLD WATER & 1" HOT WATER SUPPLY FROM ABOVE & DOWN TO KITCHEN SINK. SEE HOT & COLD WATER RISER DIAGRAMS. (TYPICAL)
- EXTEND COLD WATER PIPING FROM REMOVED (E) WATER CLOSET.
- EXTEND HOT & COLD WATER PIPING FROM REMOVED (E) LAVATORY.
- 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

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

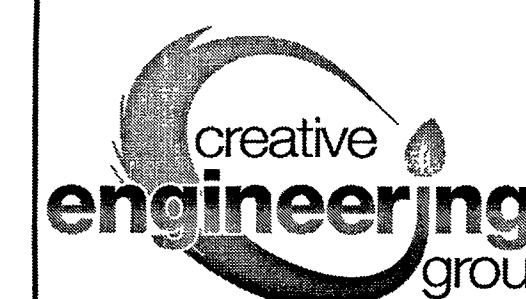
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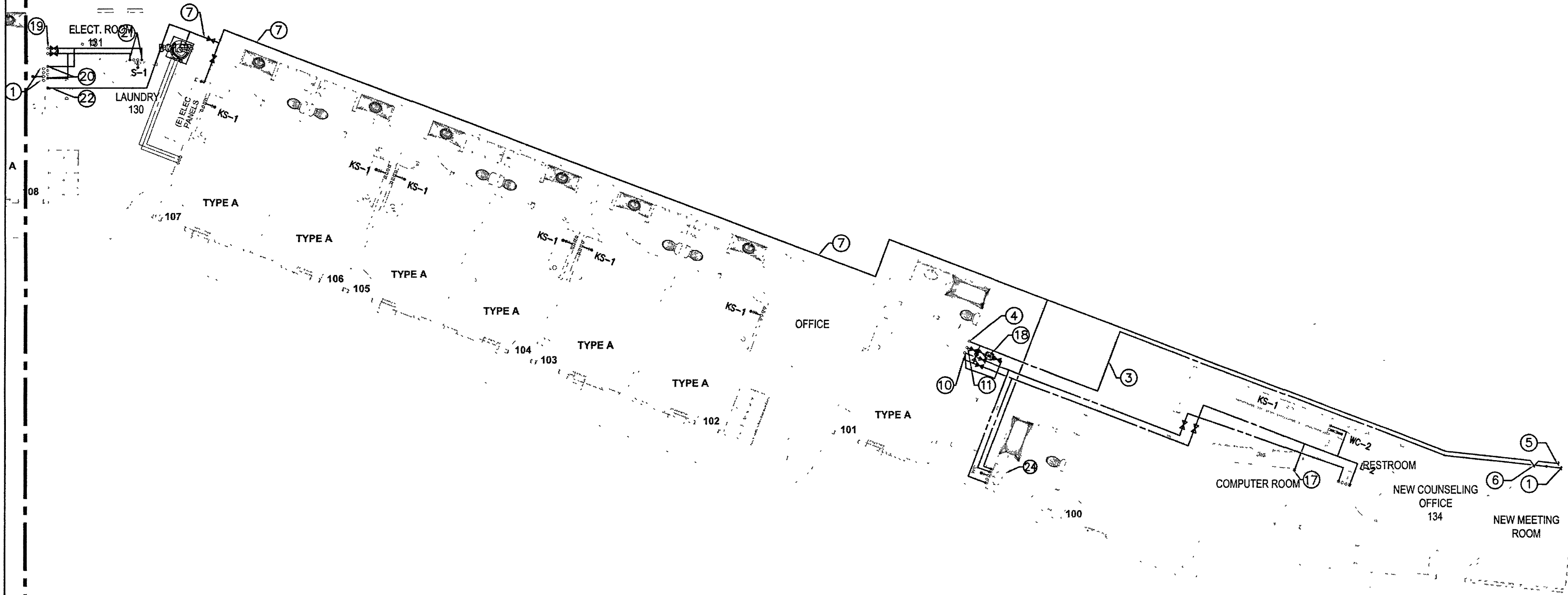
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DRAWN CEG
DATE 02/28/2023

SHEET TITLE
**PLUMBING
ENLARGED
PARTIAL FIRST
FLOOR WATER &
GAS PLAN**

SHEET NO.

P2.1A

SEE SHT. P2.1A
SEE SHT. 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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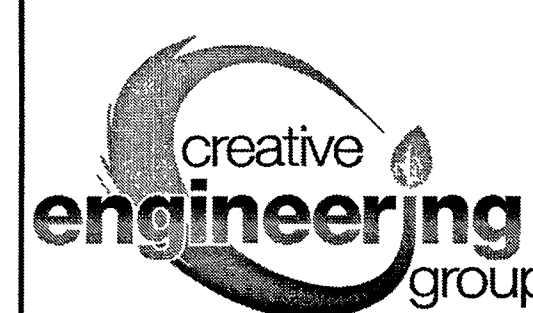
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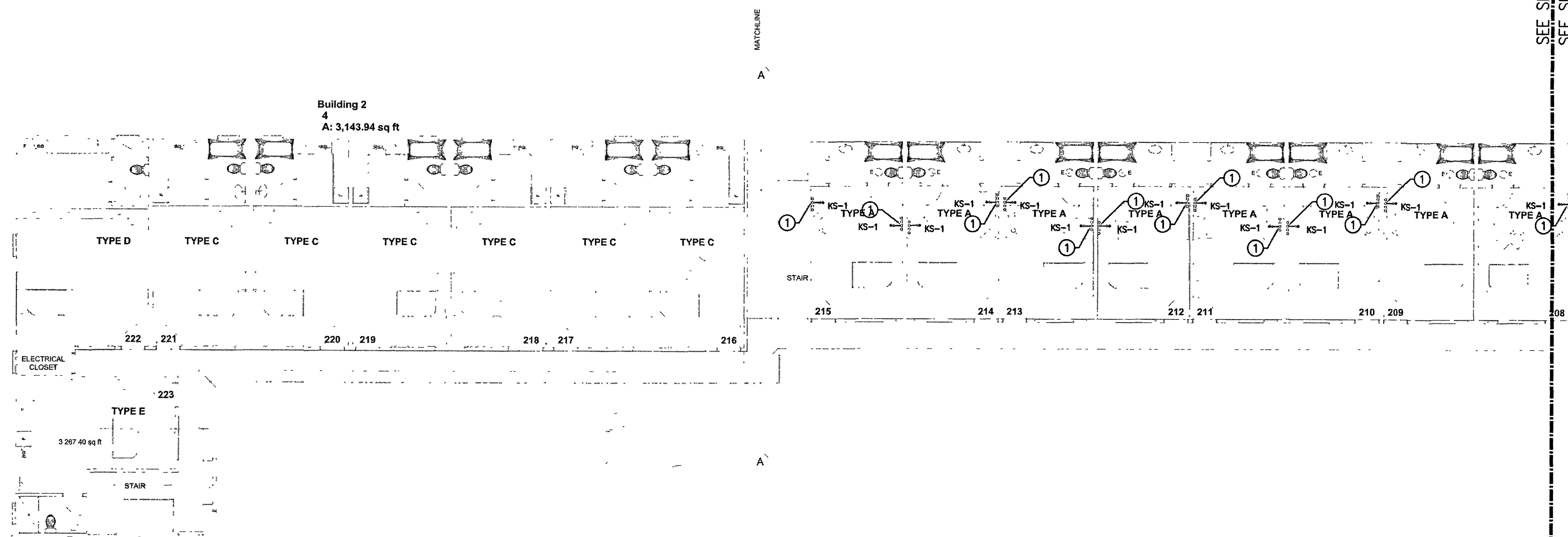
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PLUMBING
ENLARGED
PARTIAL FIRST
FLOOR WATER &
GAS PLAN

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. |
| 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 DIAGRAM. |
| 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. |

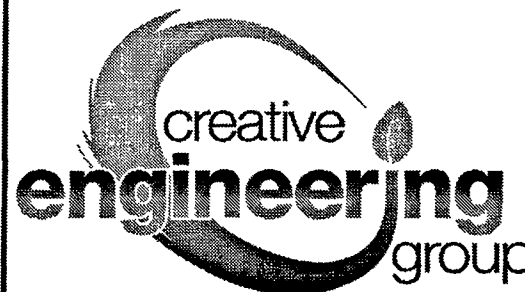
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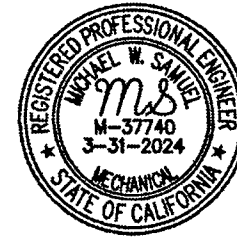
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| DATE: | 02/28/2023 |
| SHEET TITLE | |

PLUMBING ENLARGED PARTIAL SECOND FLOOR WASTE & VENT PLAN

SHEET NO.

P2.2.1A

[illegible]

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

- 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.

| | | | |
|----|---|----|---|
| 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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SEAL AND STAMP

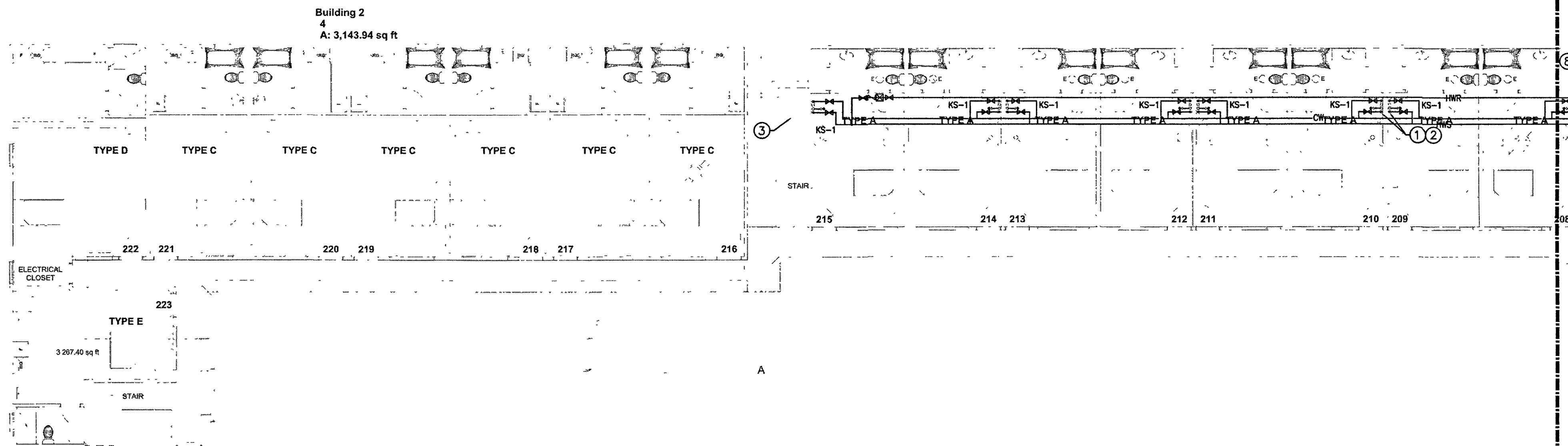


| ISSUE DATES | |
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| DESCRIPTION | DATE |
| MEP REVISION | 02/28/2023 |
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| JOB | |
| SCALE | AS SHOWN |
| DRAWN: | CEG |
| DATE: | 02/28/2023 |

SHEET NO.

P2.2.1B



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

PLUMBING REFERENCE NOTES

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

GENERAL NOTES

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

WARNING: THIS DRAWING MAY HAVE BEEN REDUCED DURING PRINTING. VERIFY SCALE BEFORE MEASURING ANY PART OF THE DRAWING.

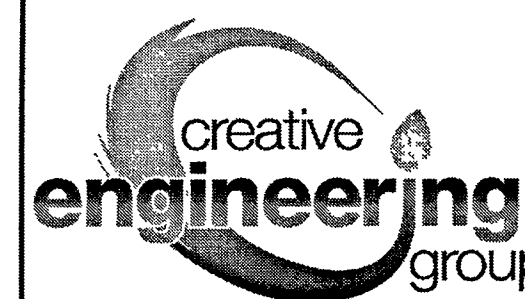
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| JOB | AS SHOWN | CEO |
| DRAWN: | | |
| DATE: | 02/28/2023 | |

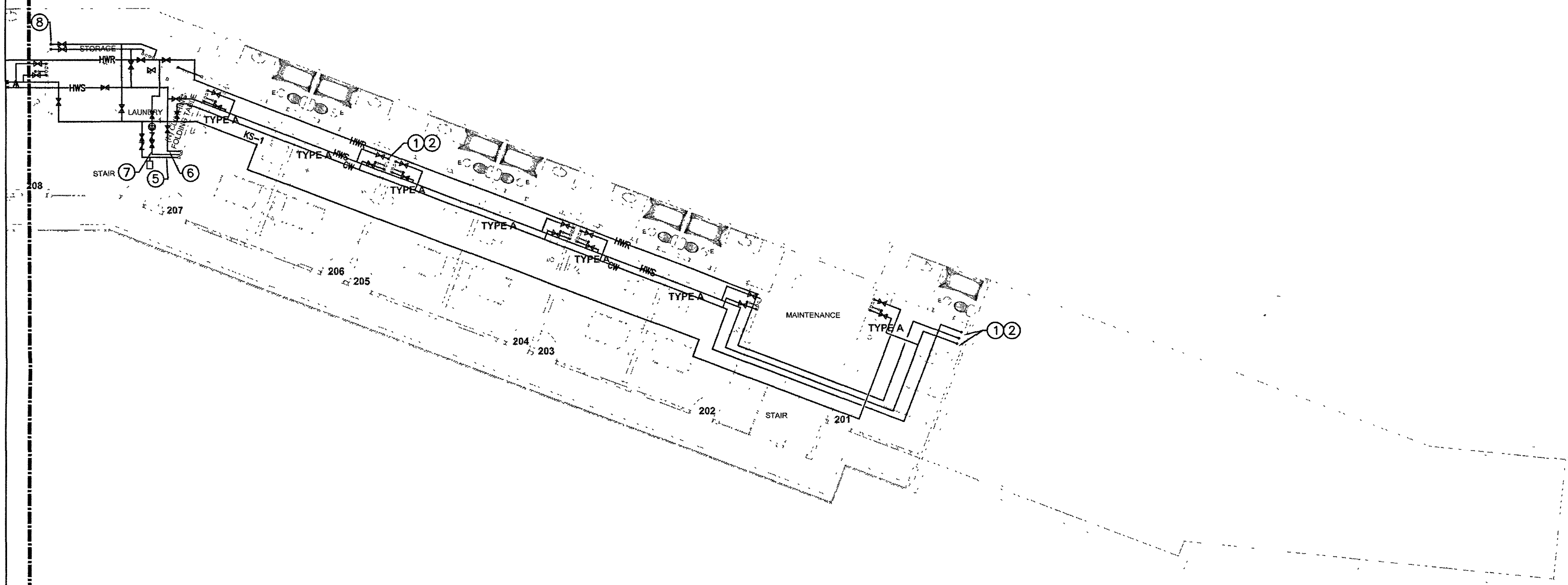
SHEET TITLE

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. | 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. | |

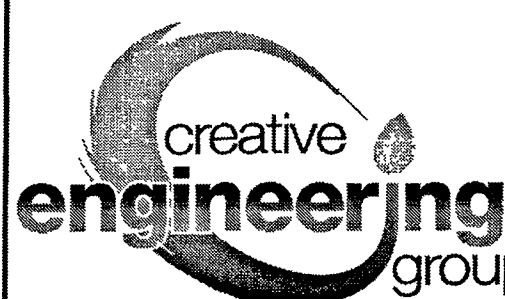
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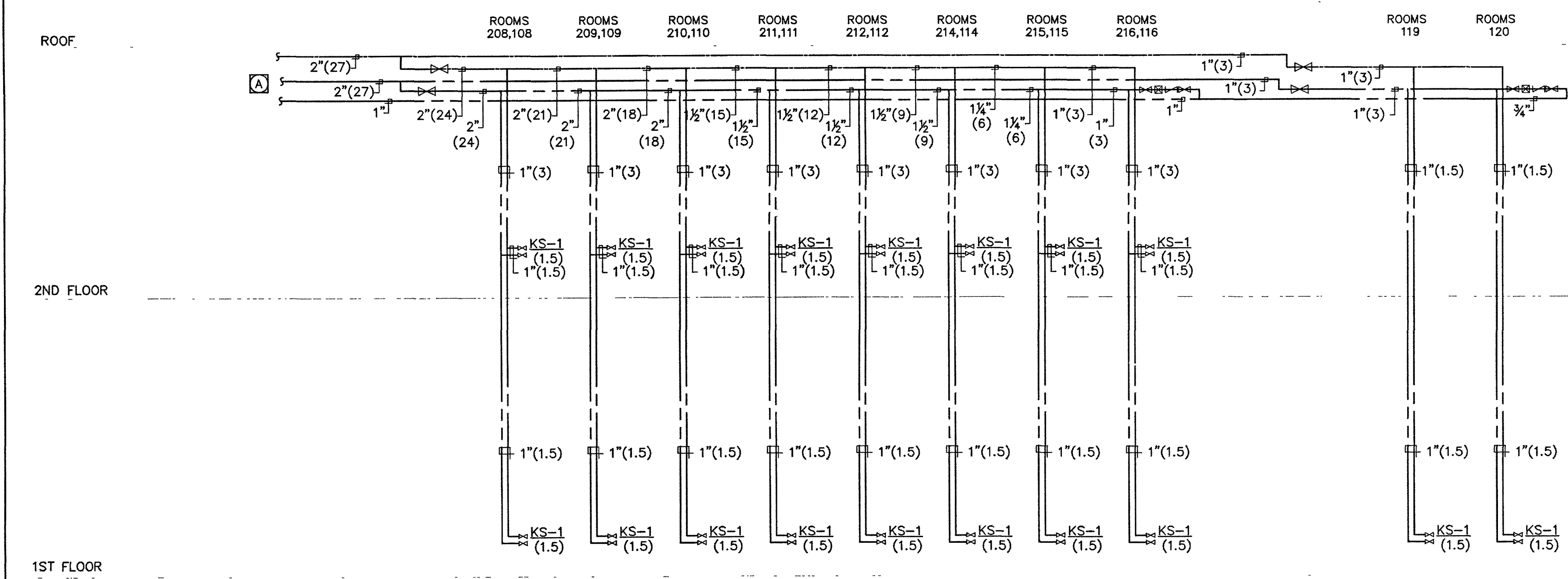
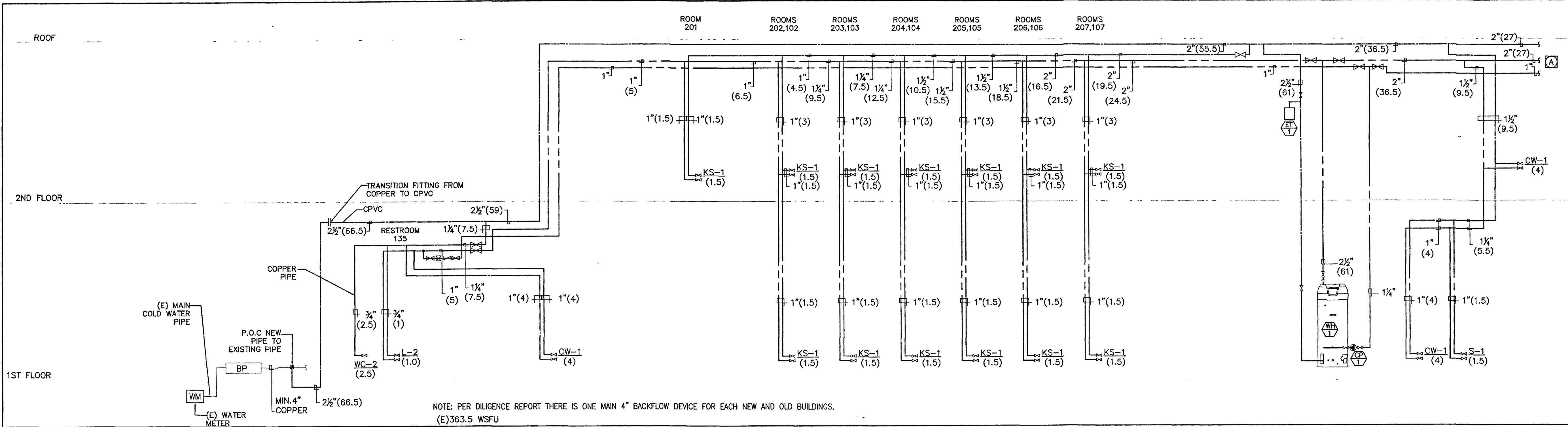
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| DATE: | 02/28/2023 |

SHEET TITLE

PLUMBING
ENLARGED
PARTIAL SECOND
FLOOR WATER
AND GAS PLAN

SHEET NO.

P2.2B



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 | - | - | - | - | - | - | - | - |

(HOT WATER)

DISTRIBUTION PIPE SIZING CHART
1.0 PSI/100 FT MAXIMUM FRICTION LOSS
MAXIMUM VELOCITY OF 6 FEET/ SECOND

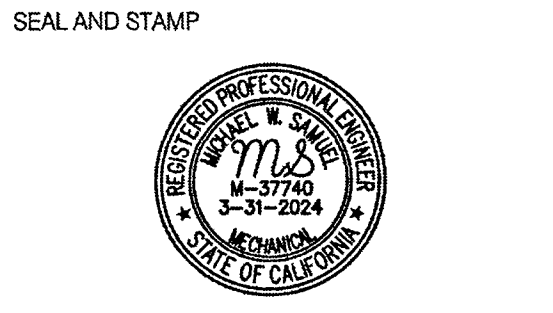
| PIPE SIZE | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" |
|-----------|------|----|--------|--------|----|--------|-----|-----|
| GPM | 2 | 4 | 7 | 11 | 23 | 50 | 90 | 180 |
| FT FU | 1 | 4 | 8 | 15 | 36 | 127 | 326 | 809 |
| FV FU | - | - | - | - | - | - | - | - |
| VEL | - | - | - | - | - | - | - | - |

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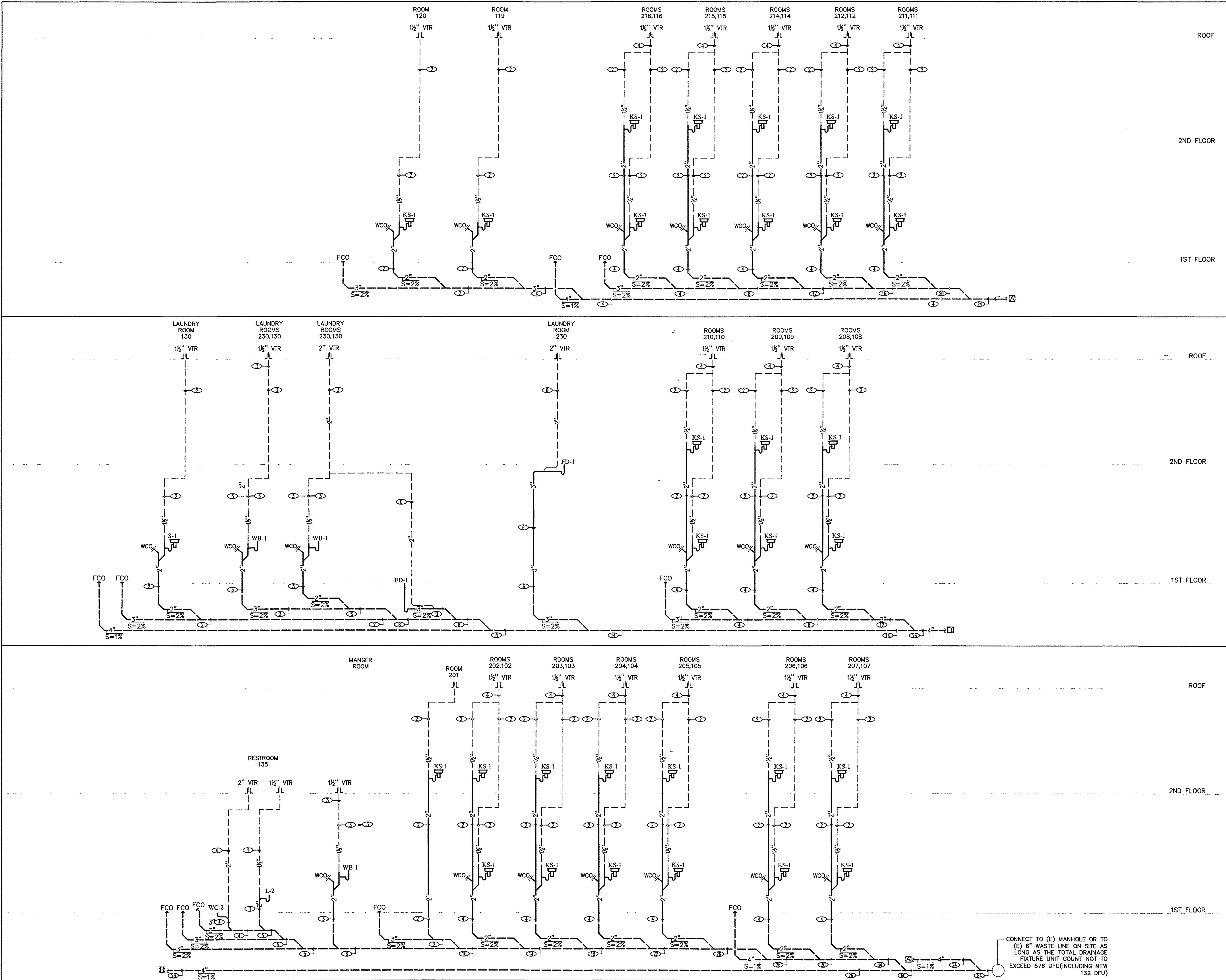
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SCALE: AS SHOWN
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DATE: 02/28/2023
SHEET TITLE: _____

PLUMBING HOT AND COLD WATER RISER DIAGRAMS

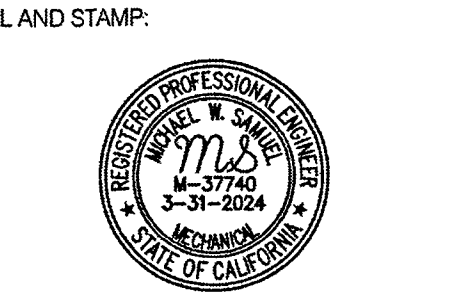
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| JOB: | AS SHOWN |
| SCALE: | CEG |
| DRAWN: | DATE: 02/28/2023 |
| SHEET TITLE: | |

**PLUMBING
WASTE AND
VENT RISER
DIAGRAMS**

SHEET NO:
P4.1

