

PLUMBING GENERAL NOTES

- SCOPE OF WORK
 - FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE NOTES 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.
- CODES AND PERMITS: ALL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, INCLUDING CALIFORNIA TITLE 24, CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):
 - TITLE 24, PART 2, CCR (2019 CALIFORNIA BUILDING CODE W/ AMENDMENTS)
 - TITLE 24, PART 3, CCR (2019 CALIFORNIA ELECTRICAL CODE W/ AMENDMENTS)
 - TITLE 24, PART 4, CCR (2019 CALIFORNIA MECHANICAL CODE W/ AMENDMENTS)
 - TITLE 24, PART 5, CCR (2019 CALIFORNIA PLUMBING CODE W/ AMENDMENTS)
 - TITLE 24, PART 9, CCR (2019 CALIFORNIA FIRE CODE W/ AMENDMENTS)
 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS.
- SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS & EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE & FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDING FOR ANY OMISSIONS WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
- 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.
- ALL DIMENSIONS AND LOCATIONS PER ARCHITECTURAL DRAWINGS.
- 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.
- WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH & WORKMANLIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE ENGINEER AND ARCHITECT.
- GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR & MATERIAL ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP & MATERIALS FOR A PERIOD OF ONE YEAR.
- MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND, AND QUANTITY SPECIFIED.
- SUBMITTALS: CATALOG INFORMATION & DATA OF ALL EQUIPMENT, DEVICES & TRIM SHALL BE SUBMITTED FOR REVIEW (SIX COPIES OF EACH); ALL SUBMITTALS TO BE APPROVED BY ARCHITECT, ENGINEER.
- ALL HOT WATER SUPPLY AND RECIRCULATION PIPING TO BE INSULATED PER TITLE 24 TABLE 1-G AS FOLLOWS:

PIPE SIZE, IN.	INSULATION THICKNESS, IN.
(K=0.23/R-4.2)BTUH-IN ² Q.F.T. F. OR LESS	
1/2", 3/4", 1"	1"
1-1/4" through 8"	1-1/2"

- CLEAN-OUTS SHALL BE INSTALLED AS PER SECTION(S) 707 AND 719 OF THE PLUMBING CODE.
- 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 BE FULL PORT, BRONZE 1/4 TURN BALL TYPE BE NIBCO, MILWAUKEE, WATTS, CRANE, STOCKHAM OR EQUAL. 4" TO 8" SHALL BE GATE VALVE BRONZE BODY, RISING STEM BE NIBCO, MILWAUKEE, 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 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. RE-STOPPING SHALL BE AN APPROVED MATERIAL, SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO THE TIME TEMPERATURE CURVED OF SPS 1510 # 12-4.3 AND SPS # 12-4.3. 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.
- CUTTING AND PATCHING: ALL CUTTING & PATCHING OF THE EXISTING STRUCTURE SHALL BE PROVIDED. PROVIDE ALL NECESSARY REQUIREMENTS TO THE PROJECT MANAGER. PROTECTION AGAINST DUST AND DEBRIS SHALL BE TO THE SATISFACTION OF THE PROJECT MANAGER.
- CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK & LEAVE HE PREMISES CLEAN AND ORDERLY. PROVIDE NEW CEILING TILES (TO MATCH EXISTING) IF ANY DAMAGED DURING CONSTRUCTION.
- FIRE SPRINKLER SYSTEM TO BE HYDRAULICALLY DESIGNED BY FIRE SPRINKLER CONTRACTOR. ALL EQUIPMENT, COMPONENTS & PIPE RUNS SHOWN FOR REFERENCE ONLY.
- DELETED
- WASTE PIPE SIZES THAT ARE 3 INCHES OR SMALLER SHALL BE EVALUATED AT 2% SLOPE.
- WATER, SEWER, VENT, AND FIRE PIPES THROUGH CONCRETE WALLS AND FLOORS SHALL HAVE PIPE-SLEEVES WITH NON COMBUSTIBLE SEALING.
- ALL HOSE BIBBS SHALL BE EQUIPPED WITH 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. PROVIDE STAINLESS STEEL ACCESS PANELS & FRAMES FOR ALL TRAP AREAS.
- ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED. EXPOSED PIPING, WHERE NECESSARY, SHALL RUN AS HIGH AS POSSIBLE AND TIGHT TO THE WALLS.
- EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT.
- ALL VENTS AND FLUE OUTLETS SHALL BE A MINIMUM OF 10 FEET FROM ANY FRESH AIR INTAKES.
- WATER HEATERS SHALL BE SEISMICALLY BRACED.
- 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.
- DELETED
- SHOWER TUB-SHOWER COMBINATION SHALL HAVE INDIVIDUAL SHOWER CONTROL VALVE OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE, SET AT 120°F MAXIMUM.
- PLUMBING CONTRACTOR SHALL PRESSURE TEST EXISTING GAS LINES THAT IS BEING REUSED. PRESSURE TEST SHALL BE FOR 5 PSI SYSTEM AND SHALL COMPLY WITH 2019 CALIFORNIA PLUMBING CODE AND CITY OF LOS ANGELES BE FOR 5 PSI SYSTEM AND SHALL COMPLY BUILDING AND SAFETY MECHANICAL SECTION.
- TRAP PRIMERS: PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR SINKS NOT RECEIVING CONTINUOUS DISCHARGE OF WASTE WATER. PROVIDE AND INSTALL TRAP PRIMERS IN ACCESSIBLE LOCATIONS WITH ACCESS PANELS IF REQUIRED.
- NEW POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 603.9 OF THE PLUMBING CODE.

PLUMBING ENERGY REQUIREMENT NOTES

- THE CALIFORNIA ENERGY CONSERVATION STANDARDS HAVE BEEN REVIEWED AND THE DESIGN SUBMITTED CONFORMS SUBSTANTIALLY WITH THESE REGULATIONS:
- THE BUILDER SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND ORIGINAL OCCUPANTS THE FOLLOWING:
 - A LIST OF DOMESTIC WATER HEATING, FEATURES, MATERIALS COMPONENTS, AND CONSERVATION INSTALLED IN THE BUILDING, AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.
 - REQUIRED ROUTING MAINTENANCE ACTION SHALL BE CLEARLY STATE AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE MAINTENANCE MANUAL.
 - DOMESTIC WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY COMMISSION. EXCEPTION: NON-STORAGE TYPE ELECTRIC WATER HEATERS. SECTION 2-4314 (a).
 - UNFIRE HOT WATER STORAGE TANKS SHALL BE INSULATED TO A THERMAL RESISTANCE OF R-6. SECTION 2-5318 (a) (3).
 - ALL HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH TABLE 2-53E. SECTION 253.E. INSULATION MINIMUM R-VALUE FOR PIPES 2" AND SMALLER IS R-4. INSULATION MINIMUM R-VALUE FOR PIPES 2" AND LARGER IS R-6.
 - SERVICE WATER HEATER SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE. SETTING FOR THE INTENDED USE. SECTION 2-5318 (b) (1).
 - IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED. (INDICATE AQUASTAT). SECTION 2-5318 (b) (2).
 - SHOWER HEADS, LAVATORY FAUCETS AND SINK (NOT INCLUDING SERVICE SINK FAUCET) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARD. SECTION 2-5314 OR PER SPECIFICATION WHICH EVER IS MORE RESTRICTIVE.
 - LAVATORIES IN REST ROOMS OF PUBLIC AREA SHALL BE EQUIPPED WITH OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO THE MAXIMUM OF 0.5 GPM OR WITH SELF-CLOSING FAUCETS, THAT LIMIT DELIVERY TO A MAXIMUM OF 0.25 GAL. OF HOT WATER FOR CIRCULATING SYSTEMS AND TO A MAXIMUM OF 0.5 GAL. FOR NON-RECIRCULATING SYSTEMS. THESE SHALL BE EQUIPPED WITH DEVICES THAT LIMIT THE OUTLET TEMP. TO A MAX. OF 110° F. SECTION 2-5314(d).
 - 1.9.1. ALL SYSTEMS, EQUIPMENT AND/OR BUILDING COMPONENTS SHALL COMPLY WITH THE APPLICABLE MANUFACTURER PROVISIONS AND INSTALLATION PROVISIONS OF TITLE 24, PART 6, CHAPTER 2, SECTIONS 111 THROUGH 119.
 - 1.9.2. ALL APPLIANCES FOR WHICH A CALIFORNIA STANDARD HAS BEEN ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS SHALL BE CERTIFIED BY THE MANUFACTURERS AS COMPLIANT WITH THE APPLICABLE STANDARDS.

PLUMBING COMMISSIONING NOTES

- THE PROJECT SCOPE SHALL INCLUDE THE PERFORMANCE OF ENHANCED LEED COMMISSIONING. COMMISSIONING IS DEFINED AS THE PROCESS OF VERIFYING AND DOCUMENTING THAT THE INSTALLATION AND PERFORMANCE OF SELECTED BUILDING SYSTEMS MEET THE SPECIFIED DESIGN CRITERIA AND THEREFORE SATISFIES THE DESIGN INTENT AND THE OWNER'S OPERATIONAL NEEDS.
- THE COMMISSIONING PLAN WILL BE DEVELOPED AND MANAGED BY THE OWNER'S COMMISSIONING AUTHORITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PARTICIPATION IN THE COMMISSIONING PROCESS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING ACTIVITIES:
 - COMPLETION AND DOCUMENTATION OF COMMISSIONING ACTIVITIES
 - ATTENDING COMMISSIONING MEETINGS
 - REVIEW AND COMMENT ON COMMISSIONING PLAN DOCUMENTS AND COMMISSIONING SCHEDULE
 - COORDINATE STARTUP ACTIVITIES WITH COMMISSIONING AUTHORITY INCLUDING ALL PRE-FUNCTION TESTING
 - PROVIDING ALL REQUIRED O&M MANUALS
 - SCHEDULE AND COORDINATE REQUIRED TRAINING.
- THE PLUMBING SYSTEMS TO BE COMMISSIONED INCLUDE BUT IS NOT LIMITED TO:
 - HOT WATER HEATERS

FIRE PROTECTION GENERAL NOTES

- SEPARATE PLANS FOR ALL FIXED AND MOBILE FIRE PROTECTION EQUIPMENT, AND ALL FIRE ALARM SYSTEMS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR APPROVAL PRIOR TO INSTALLATION.
- THE ENTIRETY OF THE BUILDING IS TO BE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. DESIGN/BUILD SPRINKLER SYSTEMS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND COORDINATED WITH THE ARCHITECT PRIOR TO SUBMITTING TO THE CITY FIRE MARSHAL FOR APPROVAL.
- AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A:10-B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. (C.F.C. 1002 U.F.C. STANDARD 10-1, CALIFORNIA CODE REGULATIONS, TITLE 19 AND 3-29)
- AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4-A:20-B:C SHALL BE PROVIDED OUTSIDE OF EACH MECHANICAL, ELECTRICAL OR BOILER ROOM. (C.F.C. 1002, U.F.C. STANDARD 10-1, CALIFORNIA CODE REGULATIONS, TITLE 19 AND 3-29)
- BATTERY CHARGING AREAS FOR POWERED INDUSTRIAL TRUCKS, INCLUDING FORKLIFTS SHALL BE PROVIDED WITH A FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 4-A:20-B:C WITHIN 20 FEET OF THE BATTERY CHARGING APPARATUS PER C.F.C. 1108.4.
- FIRE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH IBC 904 AND COMPLY WITH THE U.S.C. STANDARDS 9-1 AND 9-2.
- ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRONICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS 100 OR MORE. (LABC 904.3.1, C.F.C. 1003.3.1)
- STANDPIPE SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF C.B.C. 904.5 AND U.B.C. STANDARD 9-2. (LABC 904.5.1, C.B.C. 1008.1.2)
- THE SUCCESSFUL C-16 LICENSED CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE AND APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM. THE SYSTEM SHALL BE IN ACCORDANCE WITH CITY OF LOS ANGELES BUILDING CODE, NFPA 13, 14 & 20-2019 EDITIONS, CITY AND STATE CODES AND INSURANCE UNDERWRITERS REQUIREMENTS.
- A COMBINED WET SYSTEM SHALL INCLUDE AUTOMATIC FIRE SPRINKLERS, WITH FIRE DEPARTMENT HOSE OUTLETS, DISTRIBUTION PIPING, INSPECTOR TEST, SYSTEM DRAIN, RISER CONTROL ASSEMBLY, FIRE DEPARTMENT CONNECTIONS, ALARM GONG AND PRESSURE SWITCH FOR ALARM TRANSMISSION AND SHALL BE APPROVED THROUGHOUT THE ENTIRE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SYSTEMS AND SHALL COORDINATE ALL REQUIREMENTS FOR ALARM SYSTEM, FIRE SPRINKLER HEADS, PRESSURE HEADS, PRESSURE TESTS, SYSTEM AUTHORITIES, FIRE DEPARTMENT, STATE, THE ENGINEER AND OTHER TRADES.
- PRIOR TO COMMENCING WORK, SUBMIT THREE COPIES OF ALL DRAWINGS AND HYDRAULIC CALCULATIONS WITH WATER SUPPLY CRITERIA TO DSA. THEN SUBMIT TO ALL GOVERNING AUTHORITIES, INCLUDING THE CITY OF LOS ANGELES, THE LOS ANGELES FIRE AUTHORITY, BUILDING SAFETY DEPARTMENT AND FIRE MARSHAL OBTAIN THE STAMP OF APPROVAL FROM EACH PARTY PRIOR TO THE INSTALLATION OF FIRE PROTECTION SYSTEMS.
- THE CONTRACTOR SHALL SUBMIT AND PAY FOR ALL PLAN CHECKS AND PERMITS REQUIRED FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM.
- LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILES SYMMETRICALLY AND FULLY COORDINATED WITH REFLECTED CEILING PLANS, GRILLES, DIFFUSERS, LIGHTING FIXTURES, ETC.
- ALL WORK SHALL CONFORM TO THE STANDARDS OF THE CODES AND ORDINANCES LISTED IN THE DIVISION 21 SPECIFICATIONS.
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR LOCATIONS OF ALL LIGHTING FIXTURES AND CEILING DEVICES.
- THE CONSTRUCTION, REMODELING OR DEMOLITION OF A BUILDING SHALL COMPLY WITH C.F.C. ARTICLE 87. (C.F.C. 8701)
- INTERIOR FINISHES SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS PER IBC CHAPTER 8
- EMERGENCY PLANS SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO OCCUPANCY. (C.F.C. 1303.4.2, CALIFORNIA CODE REGULATIONS TITLE 19, 3-09)
- BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING WITH NFPA-13 OF 2019.
- THE SPRINKLER SYSTEM MUST BE APPROVED BY THE PLUMBING DIVISION (903.2.7, 12.21A17(D)) PRIOR TO INSTALLATION.
- DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION PER CODE REGULATIONS TITLE 19 SECTION 1.14, 3.08, 3.21 AND C.F.C. 2501.5. INTERIOR FINISH MATERIALS SHALL BE TESTED AS SPECIFIED IN SECTION 803.
- PLANS FOR STANDPIPES, SPRINKLER SYSTEMS AND FIRE ALARM SYSTEMS MUST BE SUBMITTED TO AND APPROVED BY FIRE PLAN CHECK PRIOR TO INSTALLATION OF THE EQUIPMENT.

PLUMBING SEISMIC NOTES

- GENERAL:
 - ALL EQUIPMENT ANCHORAGE SHALL BE DETAILED ON DRAWINGS. DESIGN SHALL CONFORM TO 2019 CBC SECTION 162A AND TABLE 16A-0.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE NECESSARY ADDITIONAL SECONDARY STRUCTURAL MEMBER WHERE NEEDED TO ACHIEVE PROPER INSTALLATION AS PER SEISMIC REQUIREMENTS FOR ALL PLUMBING EQUIPMENT AND PIPING.
 - ALL SEISMIC BRACING SHALL BE IN ACCORDANCE WITH GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS BY SMACNA.
 - THERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER, MECHANICAL ENGINEER AND THE FIELD REPRESENTATIVE OF DSA.
- EQUIPMENT (PLUMBING):
 - ALL PLUMBING EQUIPMENT SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS PUBLISHED BY SMACNA.
 - WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND DSA.
 - A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEEP AT THE JOB SITE AT ALL TIMES.
- PIPES:
 - ALL PIPES 2 1/2" I.D. AND LARGER SHALL HAVE SEISMIC BRACING, EXCEPT IN THE BOILER ROOM WHERE PIPING LARGER THAN 1" SHALL HAVE SEISMIC BRACING.
 - THE SEISMIC BRACING AND ANCHORAGE OF FIRE PROTECTION PIPING SHALL CONFORM TO THE LATEST EDITION OF NFPA-13. THE INSTALLATION OF THE SEISMIC BRACING AND ANCHORAGE OF FIRE SPRINKLER PIPING IS SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER, MECHANICAL ENGINEER AND DSA. CONTRACTOR TO DETAIL SEISMIC BRACING AND ANCHORAGE OF FIRE PROTECTION PIPING ON THE DRAWING AND SUBMIT SUPPORTING CALCULATIONS TO DSA & OBTAIN THEIR APPROVAL.

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CM	COFFEE MAKER
COOP	CLEAN OUT DECK PLATE
CS	CLASSROOM SINK
CW	COLD WATER
DW	DISH WASHER
DN	DOWN
AAV	AIR ADMITTANCE VALVE
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOOR SINK
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IM	ICE MAKER
LV	LAVATORY
LS	LAUNDRY SINK
MIN	MINIMUM
MR	MOP RECEPTOR
OS	OUTDOOR SINK
RPZ	REDUCED PRESSURE
RTU	ROOF TOP UNIT
SAN	SANITARY
SH	SHOWER SERVICE
SK	SINK
V	VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASTE
WF	WATER FILTER
WH	WALL HYDRANT
WC	WATER CLOSET

* NOTE THAT NOT ALL ABBREVIATIONS LISTED IN THIS LEGEND WILL BE UTILIZED ON THIS PROJECT

PLUMBING DRAWING NOTATIONS

⊕	DRAWING NOTE
⚠	REVISION SYMBOL
⊕	PLUMBING RISER DESIGNATION
→	PIPING FLOW DIRECTION

* NOTE THAT NOT ALL NOTATIONS REPRESENTED IN THIS LEGEND WILL BE UTILIZED ON THIS PROJECT

PLUMBING LINE REPRESENTATION

—	NEW COLD WATER PIPING
—	NEW HOT WATER PIPING
—	NEW HOT WATER RETURN PIPING
—	NEW HOT WATER PIPING WITH TEMPERATURE MAINTENANCE CABLING
—	NEW VENT PIPING
—	NEW SANITARY OR STORM WATER PIPING ABOVE GROUND
—	NEW SANITARY OR STORM WATER PIPING BELOW GROUND
G — G	NEW GAS PIPING

* NOTE THAT NOT ALL PIPING REPRESENTED IN THIS LEGEND WILL BE UTILIZED ON THIS PROJECT

PLUMBING LEGEND

⊕	GATE VALVE
⊕	CHECK VALVE
⊕	BALL VALVE
⊕	O.S & Y VALVE
⊕	SOLENOID VALVE
⊕	VALVE WITH HOSE BIBB
⊕	FLOOR DRAIN
⊕	PIPE UP
⊕	PIPE DROP
⊕	BOTTOM CONNECTION
⊕	TOP CONNECTION
⊕	CAP
⊕	PLUG OUTLET
⊕	CLEANOUT
⊕	SHOCK ABSORBER
⊕	VACUUM BREAKER
⊕	PIPE GUIDE
⊕	UNION

⊕	LAVATORY
⊕	LAVATORY
⊕	PANTRY SINK
⊕	LAVATORY (ELEVATION)
⊕	MOP RECEPTOR
⊕	MOP RECEPTOR (ELEVATION)
⊕	URINAL
⊕	URINAL (ELEVATION)
⊕	WATER CLOSET
⊕	WATER CLOSET (FLUSH VALVE-WALL HUNG)
⊕	WATER CLOSET (ELEVATION)
⊕	WALL HUNG WATER CLOSET (ELEVATION)

* NOTE THAT NOT ALL SYMBOLS REPRESENTED IN THIS LEGEND WILL BE UTILIZED ON THIS PROJECT

PLUMBING DRAWING LIST

P000	PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS
P101	PLUMBING SPECIFICATIONS
P201	PLUMBING RISER
P301	PLUMBING SCHEDULES
P400	SITE PLAN
P500	PLUMBING WASTE AND VENT BELOW SLAB
P501	PLUMBING WASTE & VENT LEVEL 1
P502	PLUMBING WASTE & VENT LEVEL 2
P503	PLUMBING WASTE & VENT ROOF
P601	PLUMBING DOMESTIC SERVICES LEVEL 1
P602	PLUMBING DOMESTIC SERVICES LEVEL 2
P901	PLUMBING DETAILS

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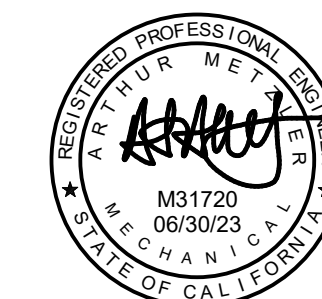
5419 SUNSET, LLC
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NO.	DATE	ISSUE OR REVISION
	05/14/2021	CD PROGRESS
	08/06/2021	ISSUE FOR PLAN CHECK

APPROVAL STAMP

SEAL/ SIGNATURE



SHEET TITLE:

PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS

PROJECT NO.
2000-000-0000

SCALE: N.T.S. DATE: 04/30/21

CHECKED BY: DRAWN BY:
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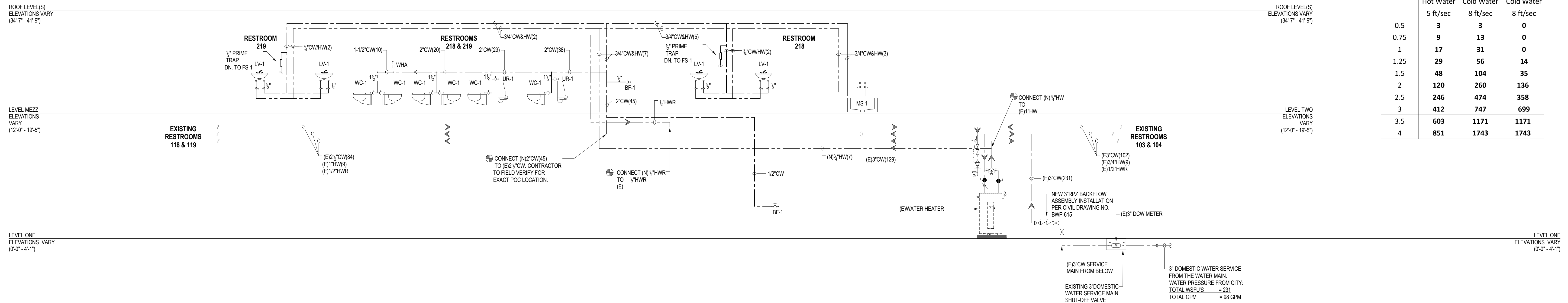
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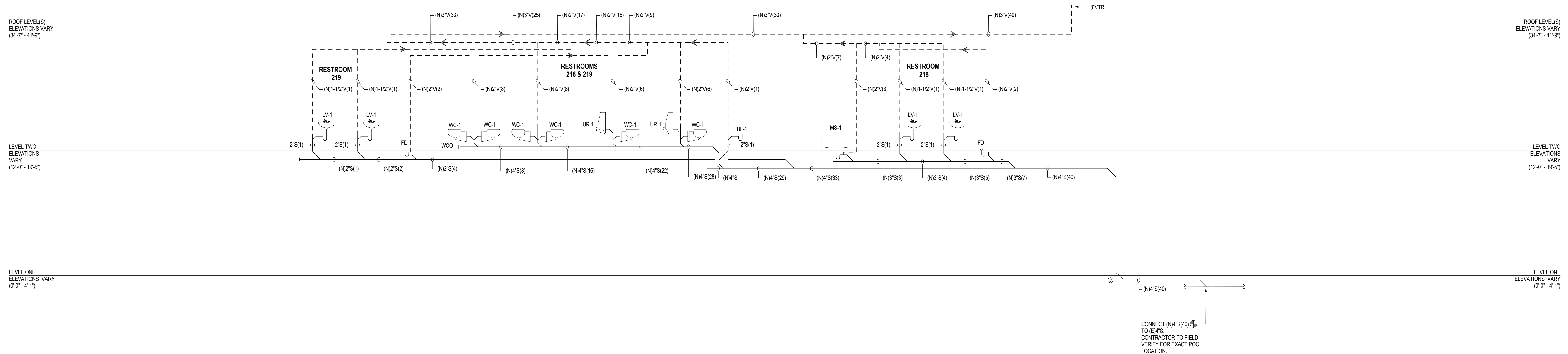


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Size (in)	Allowed Fixture Units (FU)		
	Flush Tank		Flush Valve
	Hot Water	Cold Water	Cold Water
0.5	3	3	0
0.75	9	13	0
1	17	31	0
1.25	29	56	14
1.5	48	104	35
2	120	260	136
2.5	246	474	358
3	412	747	699
3.5	603	1171	1171
4	851	1743	1743



DOMESTIC WATER RISER DIAGRAM
 NOT TO SCALE



SANITARY VENT RISER DIAGRAM
 NOT TO SCALE

NO.	DATE	ISSUE OR REVISION
05/14/2021	CD PROGRESS	
08/06/2021	ISSUE FOR PLAN CHECK	

APPROVAL STAMP

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SHEET TITLE:
PLUMBING RISER

PROJECT NO. 2000-000-0000	DATE 04/30/21
SCALE: 12" = 1'-0"	DRAWN BY: Author
CHECKED BY: Checker	DRAWN BY: Author

SHEET NO.

P201

PLUMBING APPLIANCE AND FIXTURE SCHEDULE

EQUIPMENT ID	DESCRIPTION	MANUFACTURER / MODEL NO.	TRIM AND ACCESSORIES	FLOW RATE	COLD WATER		HOT WATER		WASTE PIPE		VENT PIPE	WATER (F.U.)	DRAINAGE (D.F.U.)	ELECTRIC SENSOR	REMARKS
					SIZE	FILTERED	SIZE	TEMP. -°F	DIRECT	INDIRECT					
LV-1	LAVATORY	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	0.08 GPC	1/2"	-	1/2"	110°	2"	-	2"	2	2	YES	WALL MOUNT LAVATORY WITH SENSOR ACTIVATED FAUCET. PROVIDE CHROME PLATED 1 1/4" GRID STRAINER OUTLET TUBE AND 3/4" SUPPLIES. PROVIDE DEARBORN BRASS 1 1/4" LA CODE TRAP -
WC-1	WATER CLOSET	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	1.28 GPF	3/4"	-	-	-	4"	-	2"	2.5	4	YES	TOILET SHALL BE A WALL MOUNTED, FLUSH VALVE TYPE, ADA ACCESSIBLE. ELONGATED FRONT BOWL WITH AN OPEN FRONT TOILET SEAT.
UR-1	URINAL	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	.125 GPM	3/4"	-	-	-	4"	-	2"	2.5	4	YES	URINAL SHALL BE A WALL MOUNTED, FLUSH VALVE, ADA ACCESSIBLE. INSTALL WALL MOUNTED URINAL ON NEW WATTS MODEL CA-321 FIXTURE SUPPORT
MS-1	MOP SINK	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	2 GPM	3/4"	-	3/4"	110°	2"	-	2"	2	2	-	INSTALL FLOOR MOUNTED FIXTURE WITH MODEL 7721 038 FLAT GRID DRAIN AND WALL MOUNTED FAUCET WITH INTEGRAL VACUUM BREAKER
BF-1	BOTTLE FILLER	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	REFER TO MODULAR CONSULTANTS DESIGN FOR SPECIFICATIONS	-	1/2"	Y	-	-	2"	-	1-1/2"	-	1	-	-

WATER PRESSURE CALC

P.S.I. @ STREET HI/LOW : **103/69** P.S.I.
P.S.I. @ REGULATOR : 75 P.S.I.
TOTAL GPM OF FIXTURES : (208 WSFU) 93 G.P.M.

LOSSES :
LOSS THRU 2" METER : (EXISTING) 3.6 P.S.I.
LOSS THRU 3" REGULATOR: (WILKINS 500) 4.0 P.S.I.
LOSS THRU 3" BACKFLOW DEVICE : (WILKINS 375) 12.0 P.S.I.
STATIC HEAD LOSS 25 FT. X 0.434 : 10.9 P.S.I.
RESIDUAL PRESSURE @ FIXTURE : 25.0 P.S.I.
TOTAL LOSSES : 55.5 P.S.I.

MINIMUM PRESSURE ALLOWABLE FOR FRICTION LOSS (69 - 55.5) = 13.5 P.S.I.
ALLOWABLE FRICTION LOSS PER 100 FEET OF PIPE
 $\frac{13.5 \text{ P.S.I.}}{300 \text{ FT. RUN}} \times 100 = 3.5 \text{ P.S.I./100 FT.}$

WATER VELOCITY NOT TO EXCEED 8 F.P.S.
300 FT. RUN + 30 % FOR FITTINGS = 390 FT. FROM WATER METER TO FURTHEST OUTLET. (TOTAL DEVELOPED LENGTH)

PIPE MATERIAL SCHEDULE			
SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC WATER SYSTEM	HARD DRAWN COPPER TUBING, ASTM B88	WROUGHT COPPER FITTINGS, ASTM B16.22 OR CAST COPPER ASTM B16.18 WITH 95-5 SOLDER JOINTS	TYPE K FOR UNDERGROUND USE
DOMESTIC COLD WATER SYSTEM	SEAMLESS COPPER TUBING, TYPE L HARD DRAWN, ASTM B88	WROUGHT COPPER FITTINGS, ASTM B16.22 OR CAST COPPER ASTM B16.18 WITH SOLDER JOINTS	ABOVE FLOOR USE
SOIL, WASTE AND VENT	SERVICE WEIGHT CAST IRON SOIL PIPE	SERVICE WEIGHT CAST IRON BELL AND SPIGOT SOIL PIPE FITTINGS WITH NEOPRENE GASKET JOINTS	UNDER FLOOR AND UNDERGROUND USE UP TO 5'-0" OUTSIDE THE BUILDING
SOIL, WASTE AND VENT	NO-HUB CAST IRON SOIL PIPE	CAST IRON NO-HUB TYPE PIPE FITTINGS WITH STANDARD DUTY COUPLING JOINTS FOR ALL PIPING UP TO 6" AND HEAVY DUTY COUPLINGS FOR PIPING 6" AND LARGER	ABOVE FLOOR USE
CONDENSATE DRAIN	SEAMLESS COPPER TUBING, TYPE L HARD DRAWN, ASTM B88	WROUGHT COPPER FITTINGS, ASTM B16.22 OR CAST COPPER ASTM B16.18 WITH 95-5 SOLDER JOINTS	ABOVE FLOOR USE

NOTE: NOT ALL PIPING LISTED WITHIN THIS SCHEDULE WILL BE UTILIZED ON THIS PROJECT.

PLUMBING DRAIN SCHEDULE						
DRAIN TYPE	DESIGNATION	MANUFACTURER	MODEL #	STRAINER	LOCATION	REMARKS
FLOOR DRAIN	FD	WATTS	FD-100-A5	NICKEL BRONZE	BATHROOM	COORDINATE GRATE W/ ARCHITECT

PLUMBING FIXTURE FLOW RATES		
FIXTURE FLOW RATES		
FIXTURE TYPES	MAXIMUM ALLOWABLE FLOW RATE	NOTES
SHOWERHEADS	1.8 GPM @ 60 PSI	
LAVATORY FAUCETS, RESIDENTIAL	1.2 GPM @ 60 PSI	1
LAVATORY FAUCETS, NONRESIDENTIAL	0.35 GPM @ 60 PSI	3
KITCHEN FAUCETS	1.5 GPM @ 60 PSI	2
METERING FAUCETS	0.9 GALLONS/CYCLE	
WASH FOUNTAINS	1.8 [RIM SPACE (IN.) / 20 GPM @ 60 PSI]	
METERING FAUCETS FOR WASH FOUNTAINS	20 [RIM SPACE (IN.) / 20 GPM @ 60 PSI]	
GRAVITY TANK TYPE WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER TANK WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER VALVE WATER CLOSETS	1.28 GALLONS/FLUSH	4
URINALS	0.125 GALLONS/FLUSH	

- ### PLUMBING FIXTURE FLOW RATE NOTES
- LAVATORY FAUCETS SHALL NOT HAVE A FLOW RATE OF LESS THAN 8 GPM AT 20 PSI
 - KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT ABOVE 2.2GPM @ 60PSI AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GPM @ 60PSI.
 - WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS RATED AT .35 GPM OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
 - INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OF 1.28 GALLONS OR LESS.
 - 4.1. SINGLE FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS. THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.2/3.2.
 - 4.2. DUAL FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. FLUSH VOLUMES WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14.

PLUMBING TRAP PRIMER			
TYPE	DESIGNATION	MANUFACTURER	MODEL #
TRAP PRIMER	TP100	WATTS	LFTP300-DR
TRAP PRIMER	TP101	WATTS	LFTP300-DR

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05/14/2021	CD PROGRESS	
08/06/2021	ISSUE FOR PLAN CHECK	

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SHEET TITLE:

PLUMBING SCHEDULES

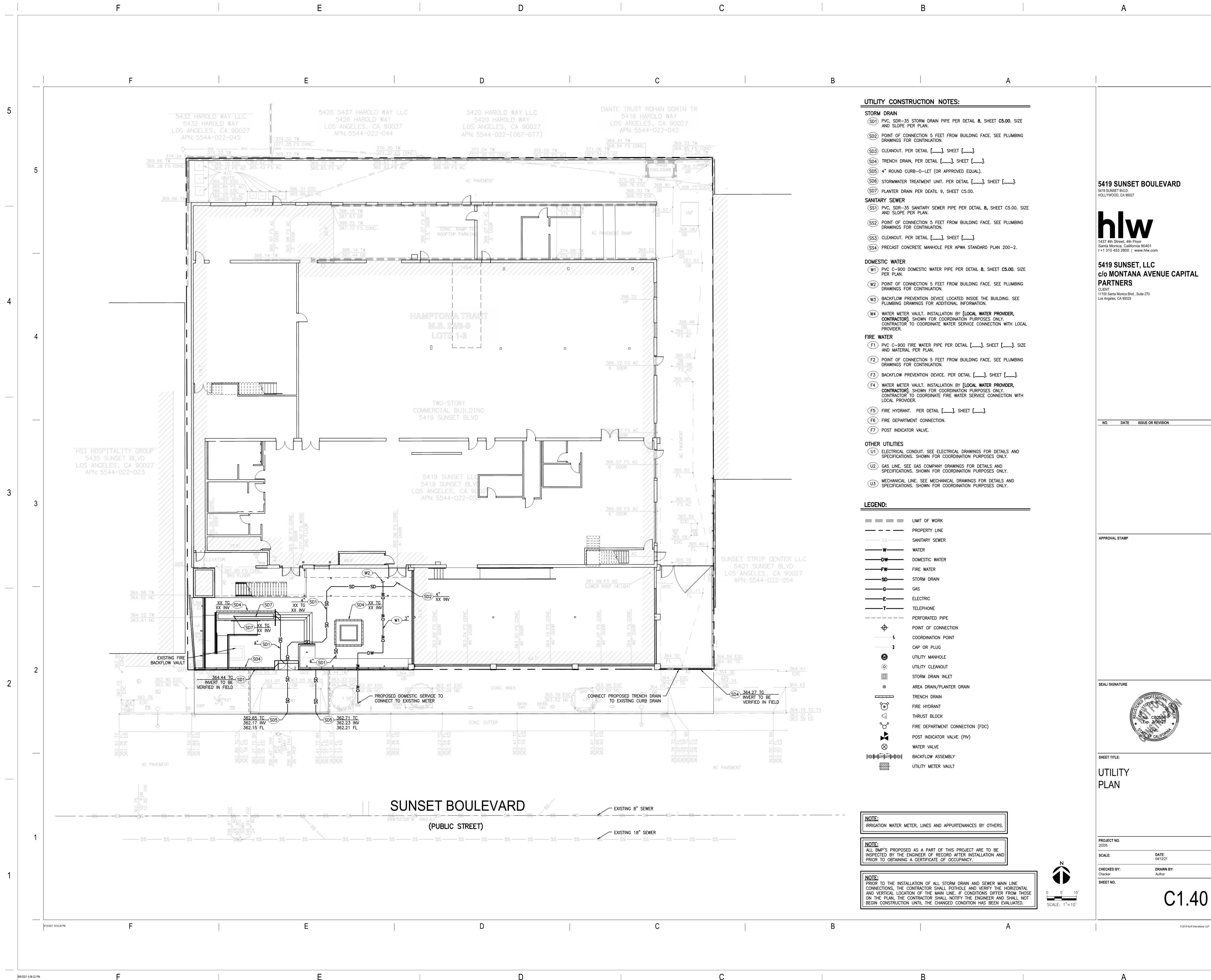
PROJECT NO.
2000-000-0000

SCALE: 12" = 1'-0" DATE: 04/30/21

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SHEET NO.

P301



UTILITY CONSTRUCTION NOTES:

STORM DRAIN

- (SD1) PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 8, SHEET C5.00. SIZE AND SLOPE PER PLAN.
- (SD2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (SD3) CLEANOUT. PER DETAIL [], SHEET [].
- (SD4) TRENCH DRAIN, PER DETAIL [], SHEET [].
- (SD5) 4" ROUND CURB-O-LET (OR APPROVED EQUAL).
- (SD6) STORMWATER TREATMENT UNIT. PER DETAIL [], SHEET [].
- (SD7) PLANTER DRAIN PER DETAIL 9, SHEET C5.00.

SANITARY SEWER

- (SS1) PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL 8, SHEET C5.00. SIZE AND SLOPE PER PLAN.
- (SS2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (SS3) CLEANOUT. PER DETAIL [], SHEET [].
- (SS4) PRECAST CONCRETE MANHOLE PER APWA STANDARD PLAN 200-2.

DOMESTIC WATER

- (W1) PVC C-900 DOMESTIC WATER PIPE PER DETAIL 8, SHEET C5.00. SIZE PER PLAN.
- (W2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (W3) BACKFLOW PREVENTION DEVICE LOCATED INSIDE THE BUILDING. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- (W4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.

FIRE WATER

- (F1) PVC C-900 FIRE WATER PIPE PER DETAIL [], SHEET [], SIZE AND MATERIAL PER PLAN.
- (F2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (F3) BACKFLOW PREVENTION DEVICE. PER DETAIL [], SHEET [].
- (F4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE FIRE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
- (F5) FIRE HYDRANT. PER DETAIL [], SHEET [].
- (F6) FIRE DEPARTMENT CONNECTION.
- (F7) POST INDICATOR VALVE.

OTHER UTILITIES

- (U1) ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- (U2) GAS LINE. SEE GAS COMPANY DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- (U3) MECHANICAL LINE. SEE MECHANICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.

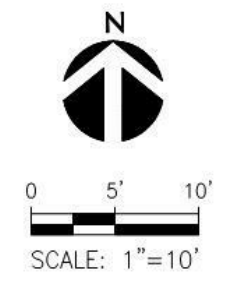
LEGEND:

- LIMIT OF WORK
- PROPERTY LINE
- SS SANITARY SEWER
- W WATER
- DW DOMESTIC WATER
- FW FIRE WATER
- SD STORM DRAIN
- G GAS
- E ELECTRIC
- T TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

NOTE:
IRRIGATION WATER METER, LINES AND APPURTENANCES BY OTHERS.

NOTE:
ALL BMP'S PROPOSED AS A PART OF THIS PROJECT ARE TO BE INSPECTED BY THE ENGINEER OF RECORD AFTER INSTALLATION AND PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

NOTE:
PRIOR TO THE INSTALLATION OF ALL STORM DRAIN AND SEWER MAIN LINE CONNECTIONS, THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE MAIN LINE. IF CONDITIONS DIFFER FROM THOSE ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED.



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NO.	DATE	ISSUE OR REVISION
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SHEET TITLE:

UTILITY PLAN

PROJECT NO.
20205

SCALE: DATE: 04/12/21

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SHEET NO. **C1.40**

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SHEET TITLE:

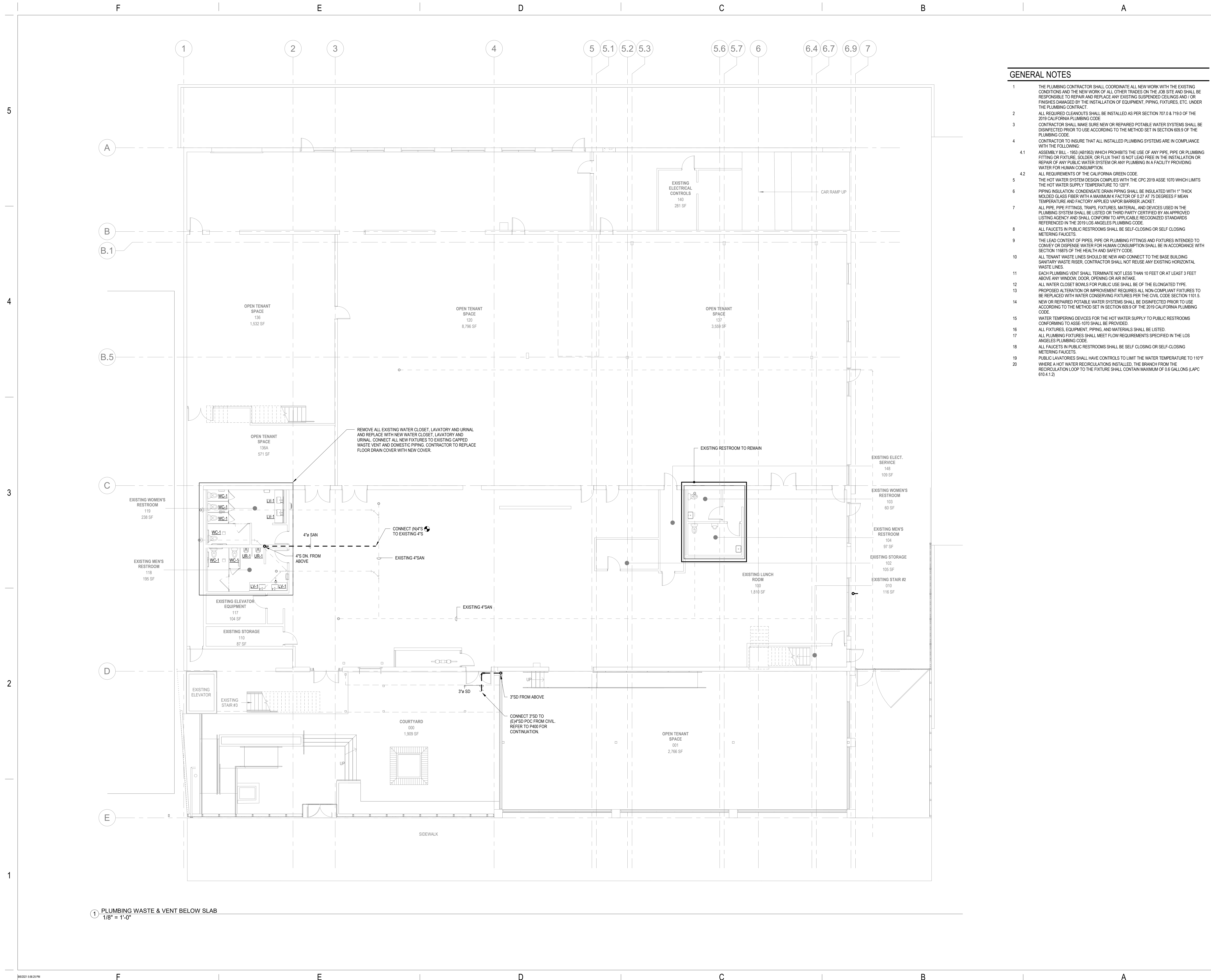
SITE PLAN

PROJECT NO.
2000-000-0000

SCALE: DATE: 08/03/21

CHECKED BY: DRAWN BY:

SHEET NO. **P400**



GENERAL NOTES

- 1 THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILING AND/OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
- 2 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE 2019 CALIFORNIA PLUMBING CODE.
- 3 CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
- 4 CONTRACTOR TO INSURE THAT ALL INSTALLED PLUMBING SYSTEMS ARE IN COMPLIANCE WITH THE FOLLOWING:
 - 4.1 ASSEMBLY BILL - 1953 (AB1953) WHICH PROHIBITS THE USE OF ANY PIPE, PIPE OR PLUMBING FITTING OR FIXTURE, SOLDER OR FLUX THAT IS NOT LEAD FREE IN THE INSTALLATION OR REPAIR OF ANY PUBLIC WATER SYSTEM OR ANY PLUMBING IN A FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION.
 - 4.2 ALL REQUIREMENTS OF THE CALIFORNIA GREEN CODE.
- 5 THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
- 6 PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
- 7 ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL AND DEVICES USED IN THE PLUMBING SYSTEM SHALL BE LISTED OR THIRD PARTY CERTIFIED BY AN APPROVED LISTING AGENCY AND SHALL CONFORM TO APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THE 2019 LOS ANGELES PLUMBING CODE.
- 8 ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 9 THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
- 10 ALL TENANT WASTE LINES SHOULD BE NEW AND CONNECT TO THE BASE BUILDING SANITARY WASTE RISER. CONTRACTOR SHALL NOT REUSE ANY EXISTING HORIZONTAL WASTE LINES.
- 11 EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING OR AIR INTAKE.
- 12 ALL WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
- 13 PROPOSED ALTERATION OR IMPROVEMENT REQUIRES ALL NON-COMPLIANT FIXTURES TO BE REPLACED WITH WATER CONSERVING FIXTURES PER THE CIVIL CODE SECTION 1101.5.
- 14 NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE 2019 CALIFORNIA PLUMBING CODE.
- 15 WATER TEMPERING DEVICES FOR THE HOT WATER SUPPLY TO PUBLIC RESTROOMS CONFORMING TO ASSE-1070 SHALL BE PROVIDED.
- 16 ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
- 17 ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.
- 18 ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 19 PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F WHERE A HOT WATER RECIRCULATION IS INSTALLED. THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC 610.4.1.2)
- 20

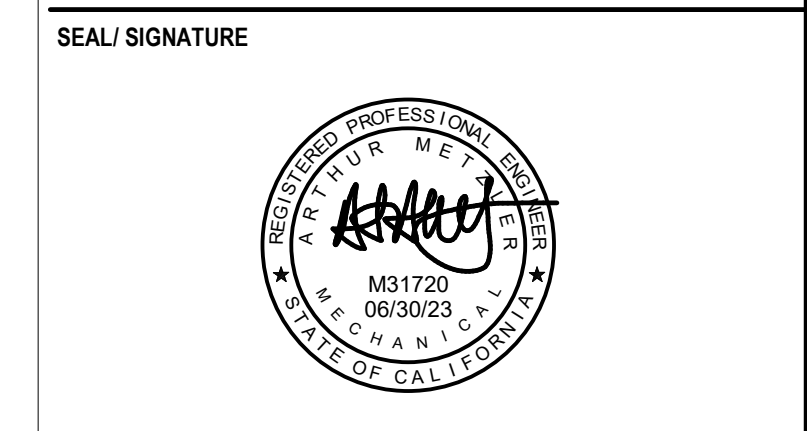
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08/06/2021		ISSUE FOR PLAN CHECK

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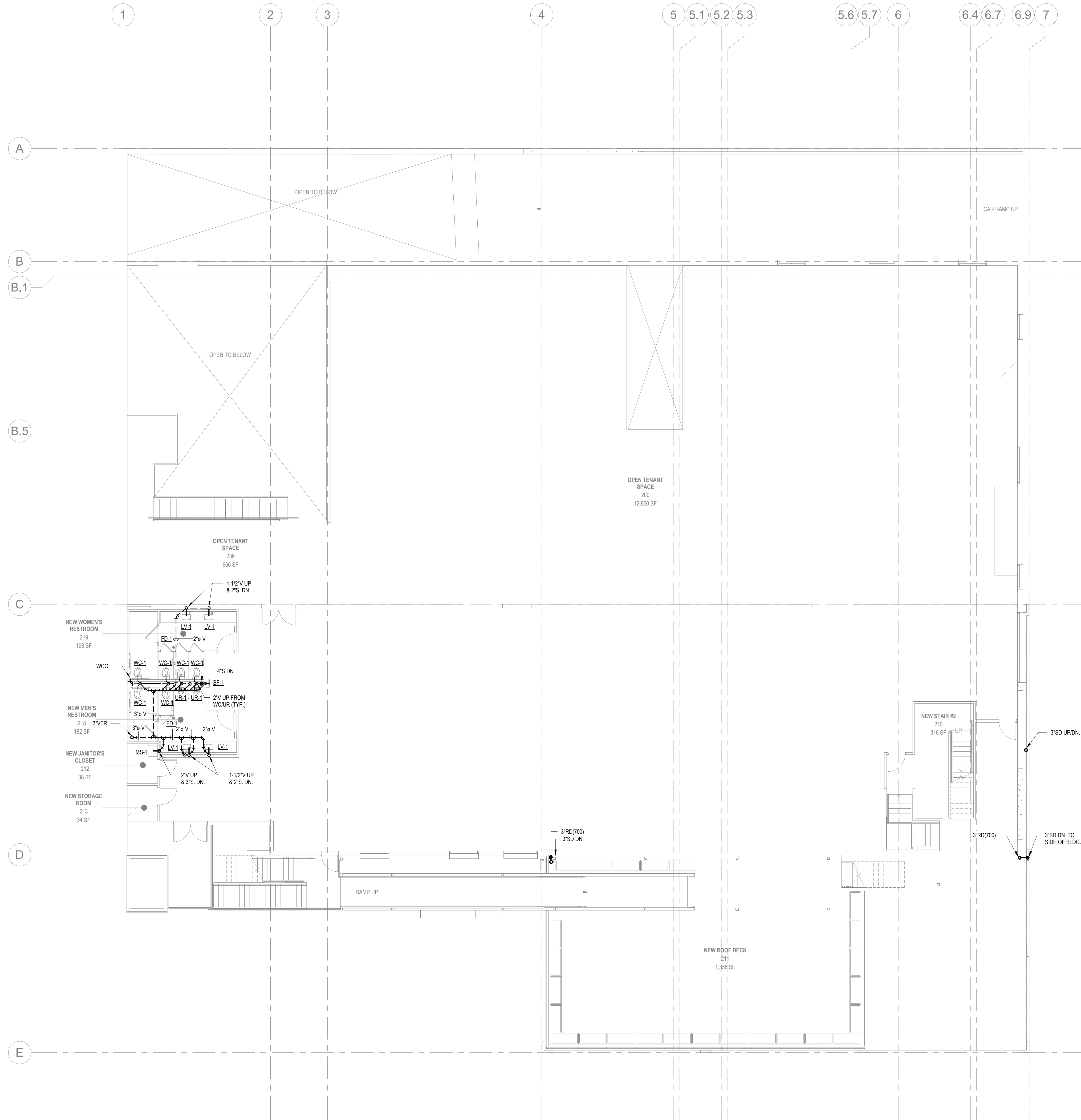


SHEET TITLE:
PLUMBING WASTE AND VENT BELOW SLAB

PROJECT NO. 2000-000-0000	DATE 09/13/21
SCALE: 1/8" = 1'-0"	DRAWN BY: Author
CHECKED BY: Checker	SHEET NO.

P500

1 PLUMBING WASTE & VENT BELOW SLAB
1/8" = 1'-0"



GENERAL NOTES

- 1 THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILING AND/OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
- 2 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE 2019 CALIFORNIA PLUMBING CODE.
- 3 CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
- 4 CONTRACTOR TO INSURE THAT ALL INSTALLED PLUMBING SYSTEMS ARE IN COMPLIANCE WITH THE FOLLOWING:
 - 4.1 ASSEMBLY BILL - 1953 (AB1953) WHICH PROHIBITS THE USE OF ANY PIPE, PIPE OR PLUMBING FITTING OR FIXTURE, SOLDER OR FLUX THAT IS NOT LEAD FREE IN THE INSTALLATION OR REPAIR OF ANY PUBLIC WATER SYSTEM OR ANY PLUMBING IN A FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION.
 - 4.2 ALL REQUIREMENTS OF THE CALIFORNIA GREEN CODE.
- 5 THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
- 6 PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
- 7 ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL, AND DEVICES USED IN THE PLUMBING SYSTEM SHALL BE LISTED OR THIRD PARTY CERTIFIED BY AN APPROVED LISTING AGENCY AND SHALL CONFORM TO APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THE 2019 LOS ANGELES PLUMBING CODE.
- 8 ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 9 THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
- 10 ALL TENANT WASTE LINES SHOULD BE NEW AND CONNECT TO THE BASE BUILDING SANITARY WASTE RISER. CONTRACTOR SHALL NOT REUSE ANY EXISTING HORIZONTAL WASTE LINES.
- 11 EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING OR AIR INTAKE.
- 12 ALL WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
- 13 PROPOSED ALTERATION OR IMPROVEMENT REQUIRES ALL NON-COMPLIANT FIXTURES TO BE REPLACED WITH WATER CONSERVING FIXTURES PER THE CIVIL CODE SECTION 1101.5.
- 14 NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE 2019 CALIFORNIA PLUMBING CODE.
- 15 WATER TEMPERING DEVICES FOR THE HOT WATER SUPPLY TO PUBLIC RESTROOMS CONFORMING TO ASSE-1070 SHALL BE PROVIDED.
- 16 ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.
- 17 ALL PLUMBING FIXTURES SHALL MEET FLOW REQUIREMENTS SPECIFIED IN THE LOS ANGELES PLUMBING CODE.
- 18 ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 19 PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°F WHERE A HOT WATER RECIRCULATION IS INSTALLED, THE BRANCH FROM THE RECIRCULATION LOOP TO THE FIXTURE SHALL CONTAIN MAXIMUM OF 0.6 GALLONS (LAPC 610.4.1.2)
- 20

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SHEET TITLE:
PLUMBING WASTE & VENT LEVEL 2

PROJECT NO.
2000-000-0000

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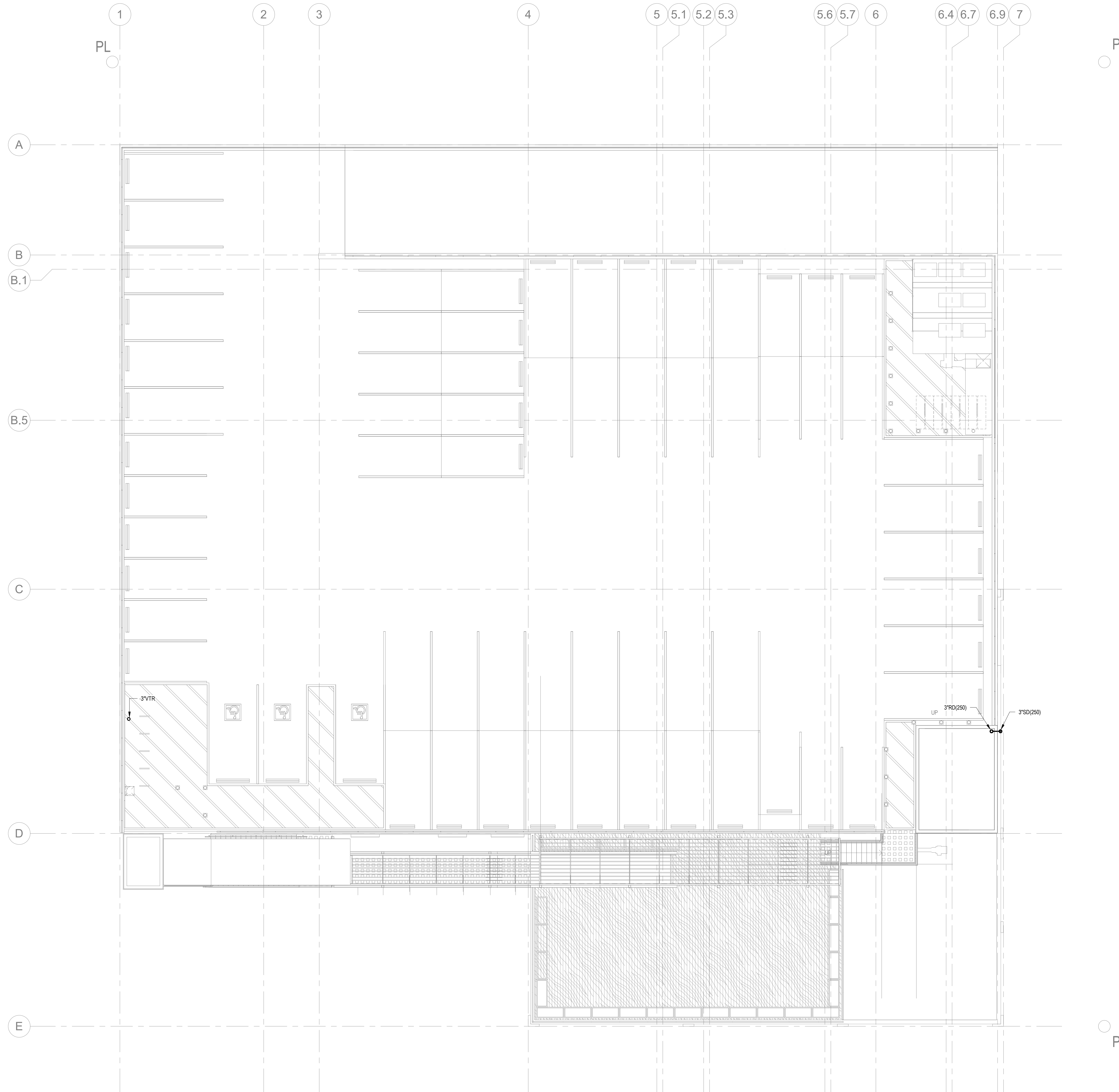
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DATE:
04/30/21

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Author

P502



GENERAL NOTES

- 1 THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILING AND/OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
- 2 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE 2019 CALIFORNIA PLUMBING CODE.
- 3 CONTRACTOR SHALL MAKE SURE NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
- 4 CONTRACTOR TO INSURE THAT ALL INSTALLED PLUMBING SYSTEMS ARE IN COMPLIANCE WITH THE FOLLOWING:
 - 4.1 ASSEMBLY BILL - 1953 (AB1953) WHICH PROHIBITS THE USE OF ANY PIPE, PIPE OR PLUMBING FITTING OR FIXTURE, SOLDER OR FLUX THAT IS NOT LEAD FREE IN THE INSTALLATION OR REPAIR OF ANY PUBLIC WATER SYSTEM OR ANY PLUMBING IN A FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION.
 - 4.2 ALL REQUIREMENTS OF THE CALIFORNIA GREEN CODE.
- 5 THE HOT WATER SYSTEM DESIGN COMPLIES WITH THE CPC 2019 ASSE 1070 WHICH LIMITS THE HOT WATER SUPPLY TEMPERATURE TO 120°F.
- 6 PIPING INSULATION: CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK MOLDED GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.27 AT 75 DEGREES F MEAN TEMPERATURE AND FACTORY APPLIED VAPOR BARRIER JACKET.
- 7 ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL, AND DEVICES USED IN THE PLUMBING SYSTEM SHALL BE LISTED OR THIRD PARTY CERTIFIED BY AN APPROVED LISTING AGENCY AND SHALL CONFORM TO APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THE 2019 LOS ANGELES PLUMBING CODE.
- 8 ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS.
- 9 THE LEAD CONTENT OF PIPES, PIPE OR PLUMBING FITTINGS AND FIXTURES INTENDED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL BE IN ACCORDANCE WITH SECTION 116875 OF THE HEALTH AND SAFETY CODE.
- 10 ALL TENANT WASTE LINES SHOULD BE NEW AND CONNECT TO THE BASE BUILDING SANITARY WASTE RISER. CONTRACTOR SHALL NOT REUSE ANY EXISTING HORIZONTAL WASTE LINES.
- 11 EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING OR AIR INTAKE.
- 12 ALL WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
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- 20

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SHEET TITLE:

PLUMBING WASTE & VENT ROOF

PROJECT NO.
2000-000-0000

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

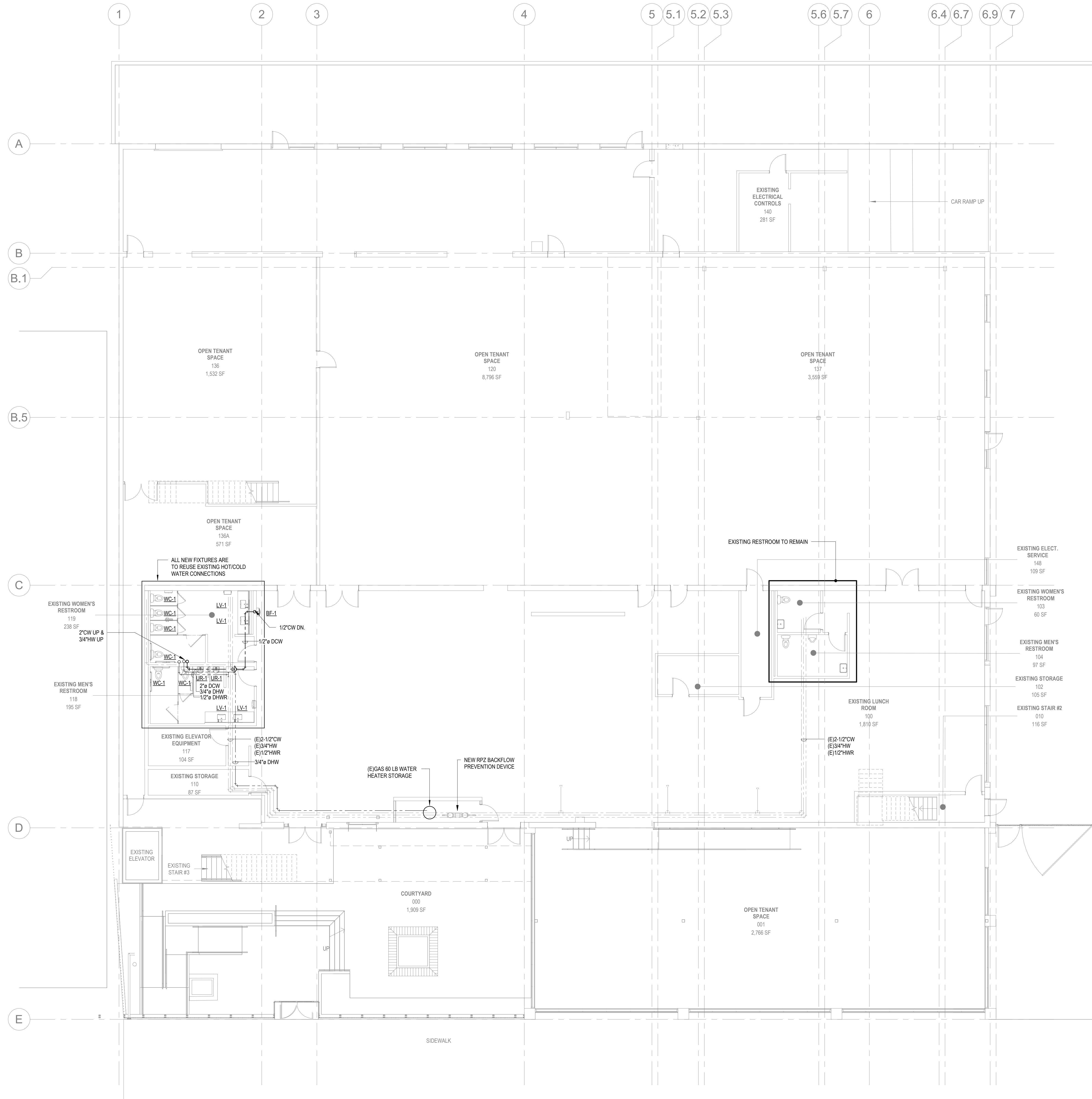
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SHEET NO.

DATE:
04/30/21

DRAWN BY:
Author

P503



GENERAL NOTES

- 1 THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILING AND/OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.
- 2 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 & 719.0 OF THE 2019 CALIFORNIA PLUMBING CODE.
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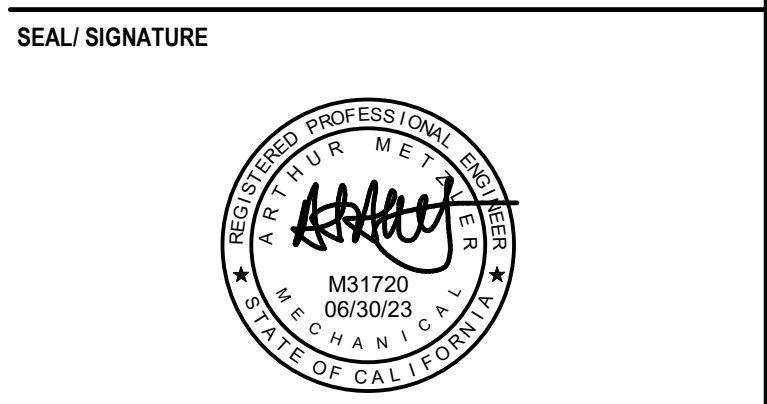
5419 SUNSET BOULEVARD
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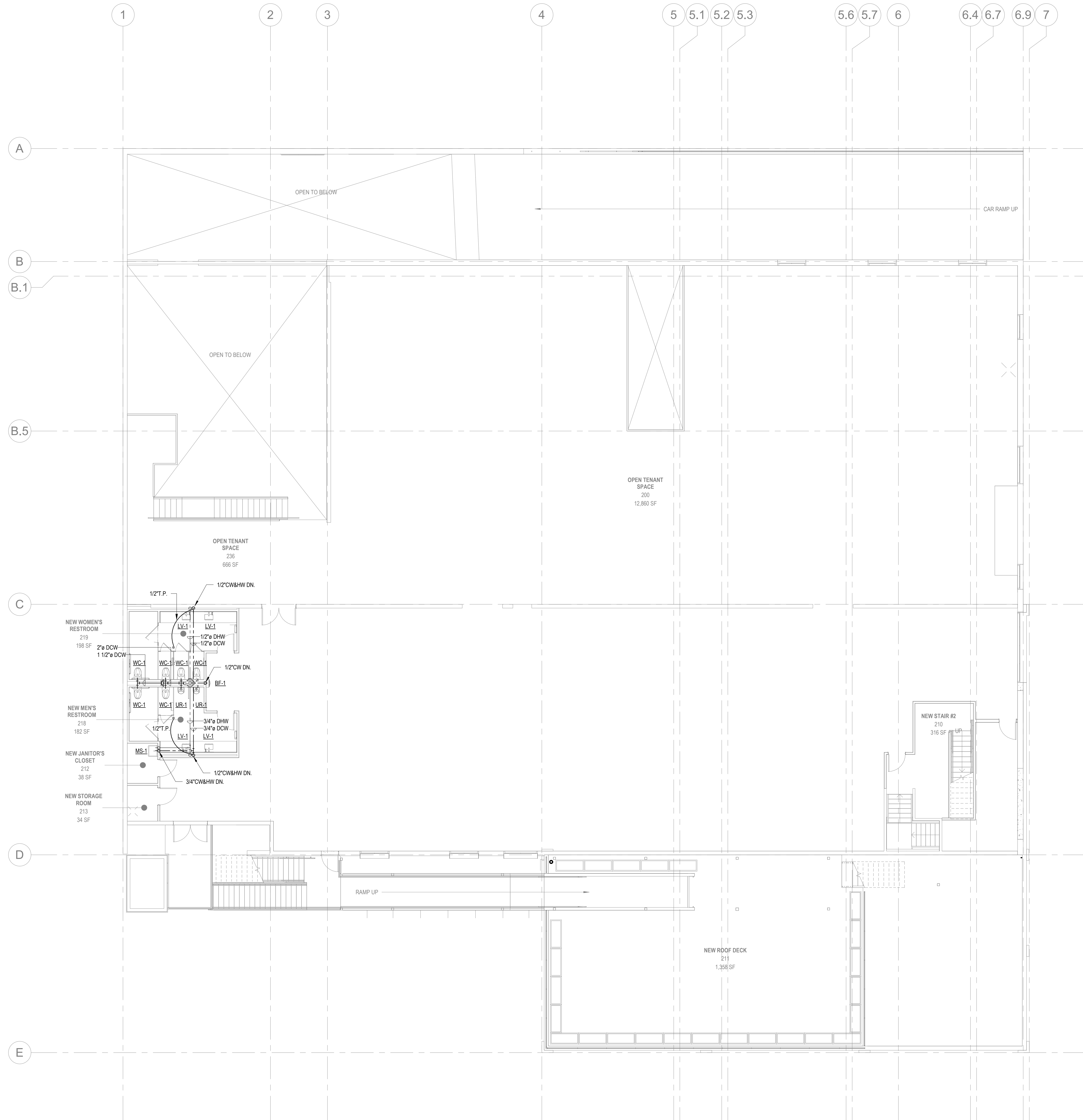
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SHEET TITLE:
PLUMBING DOMESTIC SERVICES LEVEL 1

PROJECT NO. 2000-000-0000	DATE 04/30/21
SCALE: 1/8" = 1'-0"	DRAWN BY: Author
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SHEET NO. **P601**



GENERAL NOTES

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SHEET TITLE:

PLUMBING DOMESTIC SERVICES LEVEL 2

PROJECT NO.
2000-000-0000

SCALE:
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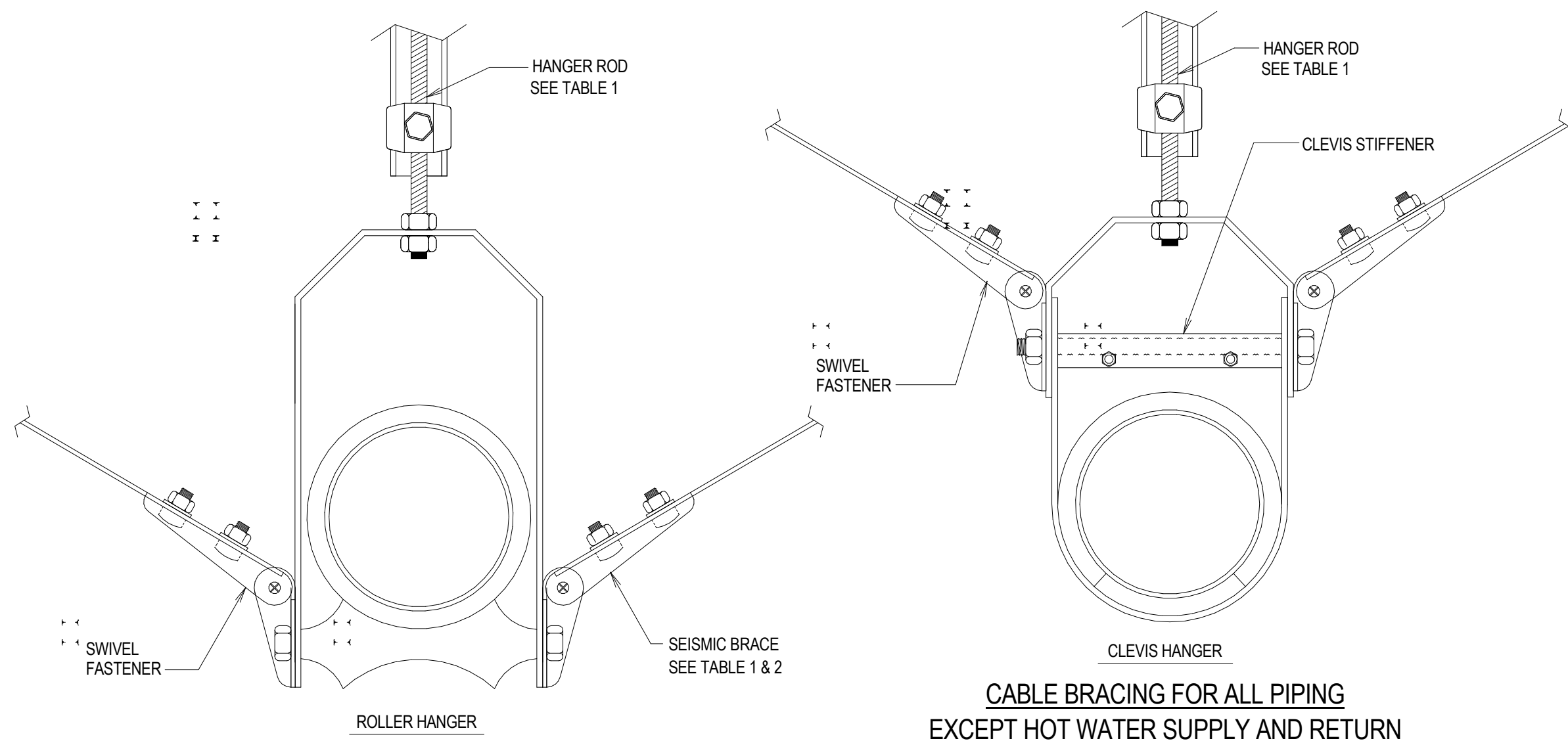
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SHEET NO.

P602



CABLE BRACING FOR HOT WATER SUPPLY AND RETURN PIPING
NOT TO SCALE

- NOTES:**
- LONGITUDINAL BRACING OF HOT WATER AND STEAM PIPING MUST BE DESIGNED FOR EACH PROJECT.
 - FOR SPACING OF BRACES AND MEMBER SIZES, REFER TO GENERAL REQUIREMENTS AND SCHEDULES ON THIS DRAWING.
 - REFER TO ASHRAE'S SEISMIC RESTRAINT MANUAL "A" PRACTICAL GUIDE TO SEISMIC RESTRAINT FOR ALTERNATIVE METHODS OF BRACING.

TABLE-4 MAX OFFSET LENGTH FOR PIPE

MAXIMUM PIPE DIAMETER	STEEL PIPE WITH WELDED OR GROOVED CONNECTIONS		COPPER PIPE WITH BRAZED CONNECTIONS	
	in	(mm)	FT	(M)
1	(25)	3	(.09)	---
2	(51)	4	(1.2)	---
2 1/2	(64)	---	---	2
				(.6)

TABLE-3 CONNECTION TO STRUCTURE

	EXPANSION ANCHORS INTO A CONCRETE SLAB		EXPANSION ANCHORS INTO A CONCRETE DECK		STEEL BOLTS INTO STRUCTURAL STEEL		LAG BOLTS INTO A WOOD STRUCTURE	
	in	(mm)	in	(mm)	in	(mm)	in	(mm)
A	3/8 x 2 1/2		3/8 x 3		3/8		3/8 x 3	
B	1/2 x 3		1/2 x 3		1/2		1/2 x 4	
C	5/8 x 3 1/2		3/4 x 5 1/4		1/2		TWO 1/2 x 4	
D	TWO 1/2 x 3		TWO 1/2 x 3		5/8		TWO 5/8 x 5	
E	TWO 5/8 x 3 1/2		TWO 5/8 x 5		5/8		TWO 5/8 x 5	
F	FOUR 5/8 x 3 1/2		FOUR 5/8 x 5		3/4		FOUR 5/8 x 5	

TABLE-2 BRACE MEMBERS

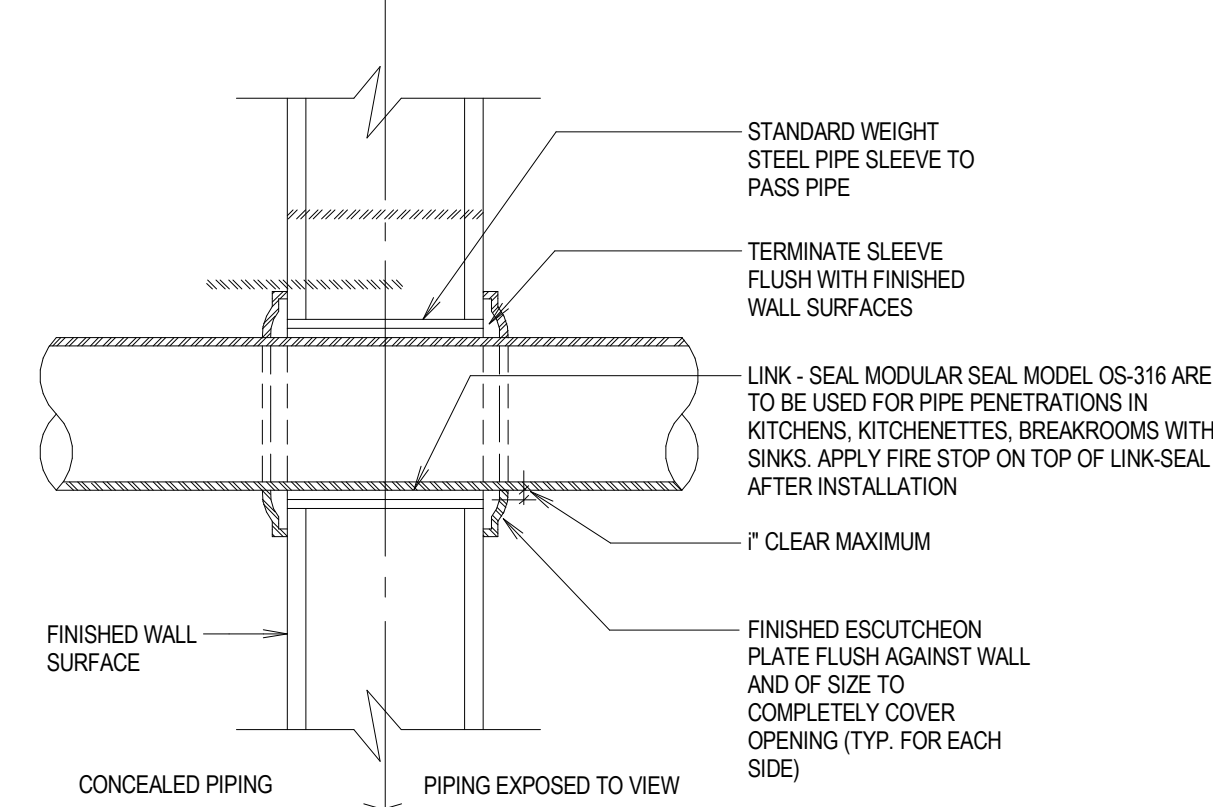
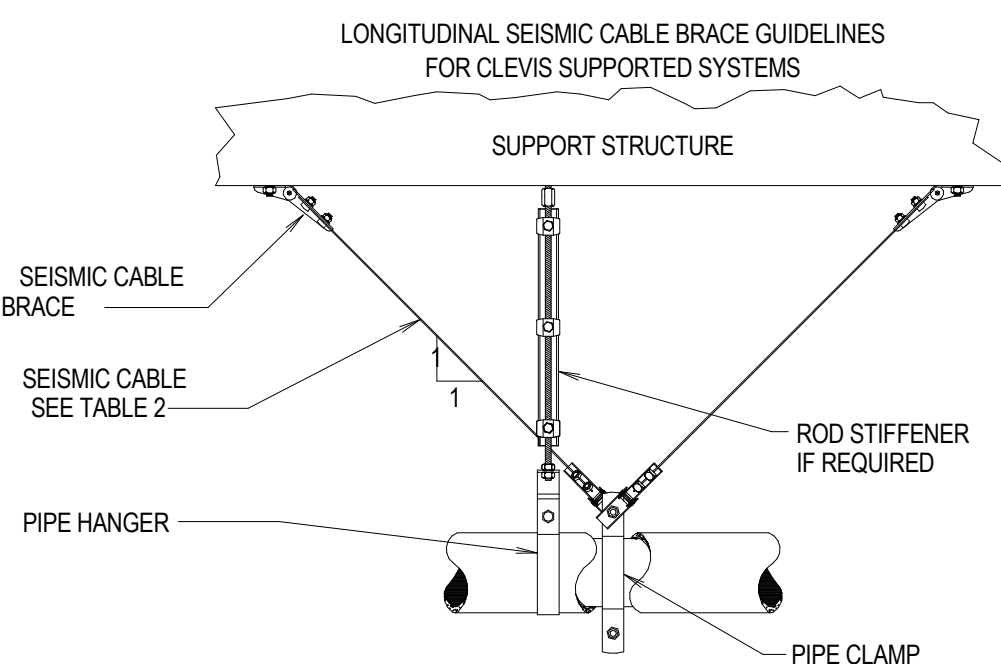
	STEEL ANGLE		12 Ga STRUT CHANNEL		STRETCHED STEEL CABLE		STANDARD STEEL CABLE		ALLOWABLE LOADS	
	MAXIMUM LENGTH	9'-0" (2.7 M)	MAXIMUM LENGTH	(2.7 mm)	MAXIMUM LENGTH	in (mm)	MAXIMUM LENGTH	in (mm)	lbs (kg)	lbs (kg)
A	2 x 2 x 1/8		1 5/8 x 1 5/8		1/8		1/4		1000	
B	2 x 2 x 1/4		1 5/8 x 1 5/8		3/16		5/16		2100	
C	3 x 3 x 1/4		1 5/8 x 3 1/4		1/4		3/8		3000	
D	4 x 4 x 1/4		1 5/8 x 3 1/4		3/8				7000	

TABLE-1 PIPE BRACING

PIPE SIZE	MAX. WT.	MAX. BRACING SPACING		CABLE BRACE MEMBER	SOLID BRACE MEMBER	BRACE CONNECTION TO STRUCTURE	HANGER ROD DIA.	HANGER ROD DIA.	MAXIMUM UNBRACED ROD LENGTH	CONNECTION HANGER ROD TO STRUCTURE CABLE	CONNECTION HANGER ROD TO STRUCTURE SOLID
		TRANSVERSE	LONGITUDINAL								
1	(25)	2.8	(4.1)	50	(15.2)	80	(24.4)	A	A	A	A
1 1/4	(32)	3.8	(5.6)	50	(15.2)	80	(24.4)	A	A	B	A
1 1/2	(38)	4.5	(6.6)	50	(15.2)	80	(24.4)	A	A	B	A
2	(51)	6.2	(9.2)	50	(15.2)	80	(24.4)	A	A	B	A
2 1/2	(64)	9.1	(13.5)	50	(15.2)	80	(24.4)	A	A	B	A

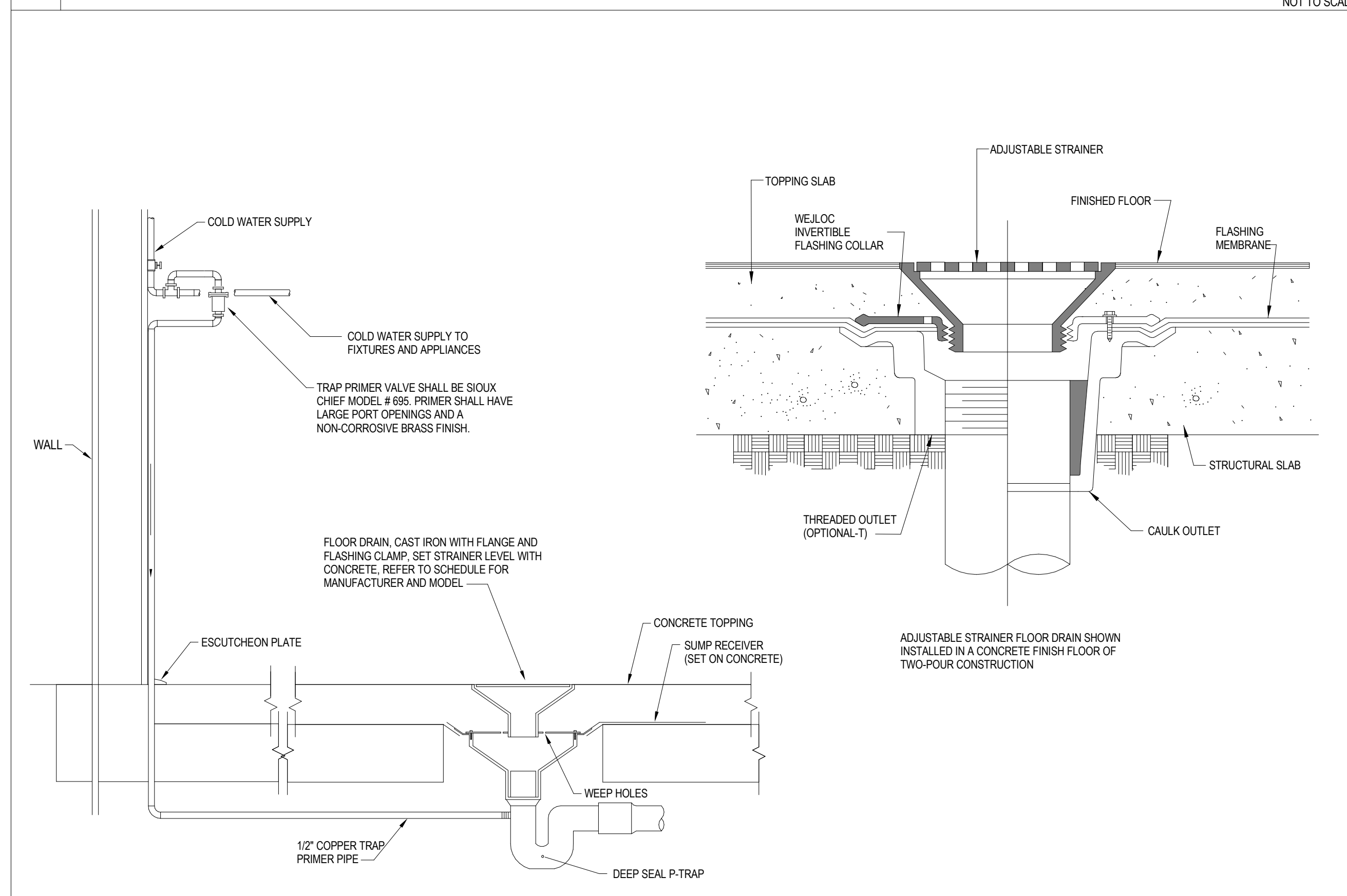
GENERAL REQUIREMENTS FOR BRACING OF PIPES

- BRACING SCHEDULES IN TABLE 1 APPLY TO STEEL AND COPPER PIPE WITH WELDED, BRAZED AND GROOVED CONNECTIONS.
- BRACING OF PLASTIC PIPES WITH SOLVENT WELDED CONNECTIONS, STEEL OR COPPER PIPE WITH SCREWED CONNECTIONS AND NO HUB PIPE WITH SHIELD AND CLAMP CONNECTIONS ARE TO BE BRACED AT 1/2 OF THE SPACING FROM TABLE 1.
- BRACE ALL PIPING AS DESCRIBED IN a, b, AND c. EXCEPTION: PIPING SUSPENDED BY INDIVIDUAL HANGERS 12-INCHES OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED.
 - BRACE ALL FUEL, OIL, GAS PIPING, SUCH AS FUEL, GAS, MEDICAL GAS PIPING, AND COMPRESSED AIR PIPING THAT IS 1-INCH NOMINAL DIAMETER OR LARGER.
 - BRACE ALL PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS, AND REFRIGERATION MECHANICAL ROOMS THAT IS 1 1/4-INCHES NOMINAL DIAMETER AND LARGER.
 - BRACE ALL PIPES 2 1/2-INCHES NOMINAL DIAMETER AND LARGER.
- PIPES WHERE THERMAL EXPANSION IS A CONSIDERATION, AN ANCHOR POINT MAY BE USED AS THE SPECIFIED LONGITUDINAL BRACE PROVIDED THAT IT HAS A CAPACITY EQUAL TO OR GREATER THAN A LONGITUDINAL BRACE. THE LONGITUDINAL BRACES AND CONNECTIONS MUST BE CAPABLE OF RESISTING THE ADDITIONAL FORCE INCLUDED BY EXPANSION AND CONTRACTION.
- FOR FUEL OIL AND ALL GAS PIPING, AS SPECIFIED IN 3(a), THE BRACING DETAILS, SCHEDULES, AND NOTES MAY BE USED, EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 25-FEET MAXIMUM, AND LONGITUDINAL BRACING SHALL BE AT 40-FEET MAXIMUM.
- TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A PIPE SECTION OF THE SAME SIZE CONNECTED PERPENDICULAR TO IT IF THE BRACING IS INSTALLED WITHIN THE LIMITS OF TABLE 4.
- PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC JOINTS OR EXPANSION JOINTS OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS. FOR THREADED PIPING, THE FLEXIBILITY MAY BE PROVIDED BY THE INSTALLATION OF SWING JOINTS. FOR PIPING WITH MANUFACTURED BALL JOINTS, SELECT THE LENGTH OF FEET PER FOOT OF HEIGHT ABOVE THE BASE WHERE SEISMIC SEPARATION OCCURS.
- A RIGID PIPING SYSTEM SHALL NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE.
- CAST IRON PIPE OF ALL TYPES, GLASS PIPE, AND ANY OTHER PIPE JOINED WITH A SHIELD AND CLAMP ASSEMBLY, WHERE THE TOP OF THE PIPE IS 12-INCHES OR MORE FROM THE SUPPORTING STRUCTURE, SHALL BE BRACED ON EACH SIDE OF A CHANGE IN DIRECTION OF 90 DEGREES OR MORE. RISER JOINTS SHALL BE BRACED OR STABILIZED BETWEEN FLOORS.
- VERTICAL RISERS SHALL BE LATERALLY SUPPORTED WITH A RISER CLAMP AT EACH FLOOR. FOR BUILDINGS GREATER THAN 6-STORIES HIGH, ALL RISERS SHALL BE ENGINEERED INDIVIDUALLY.

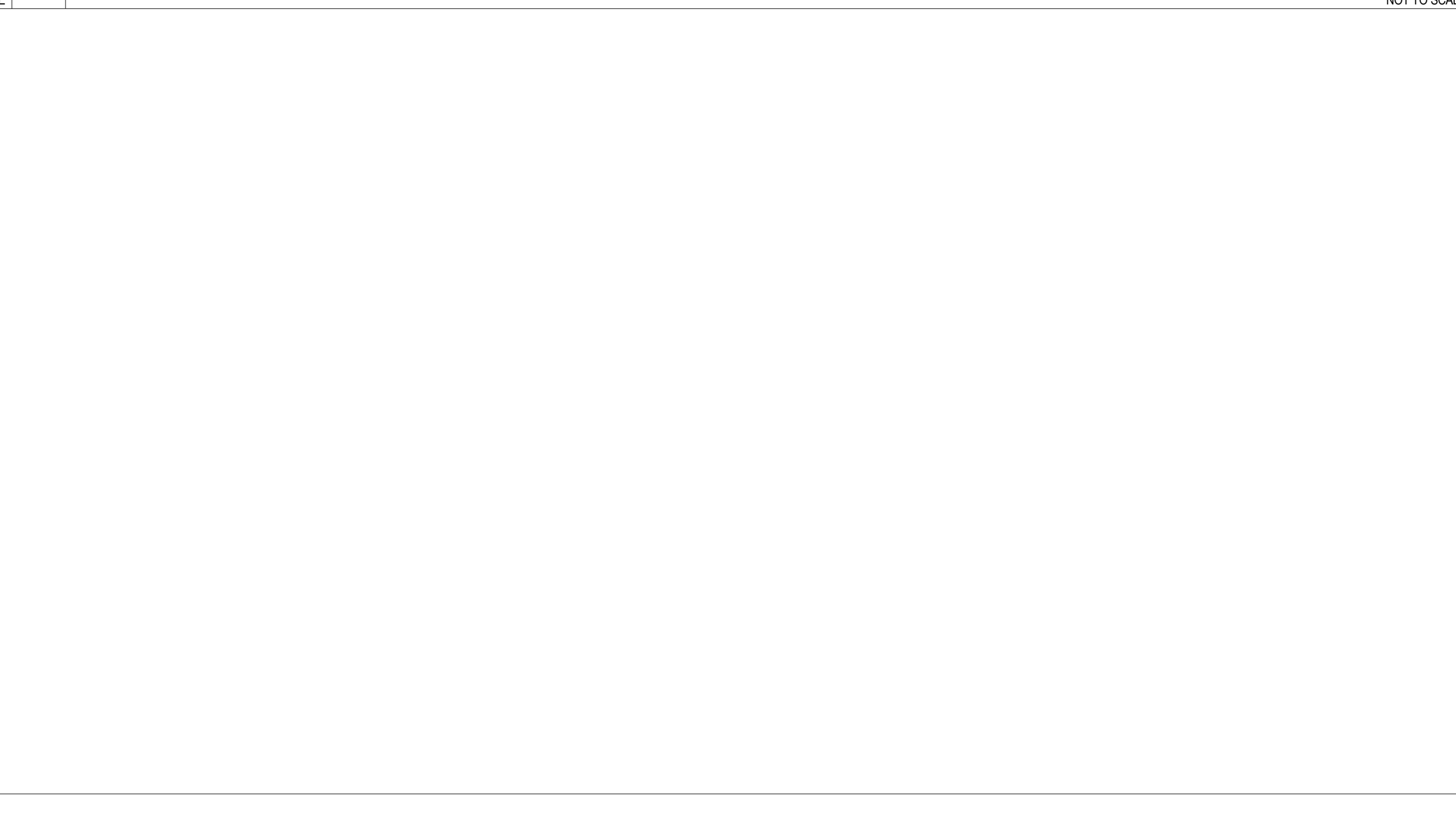


- SLEEVES AND ESCUTCHEONS**
- SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE. IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.
 - EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.
- CUTTING AND PATCHING**
- PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
 - PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH.
 - ANNUAL SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUALSAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.

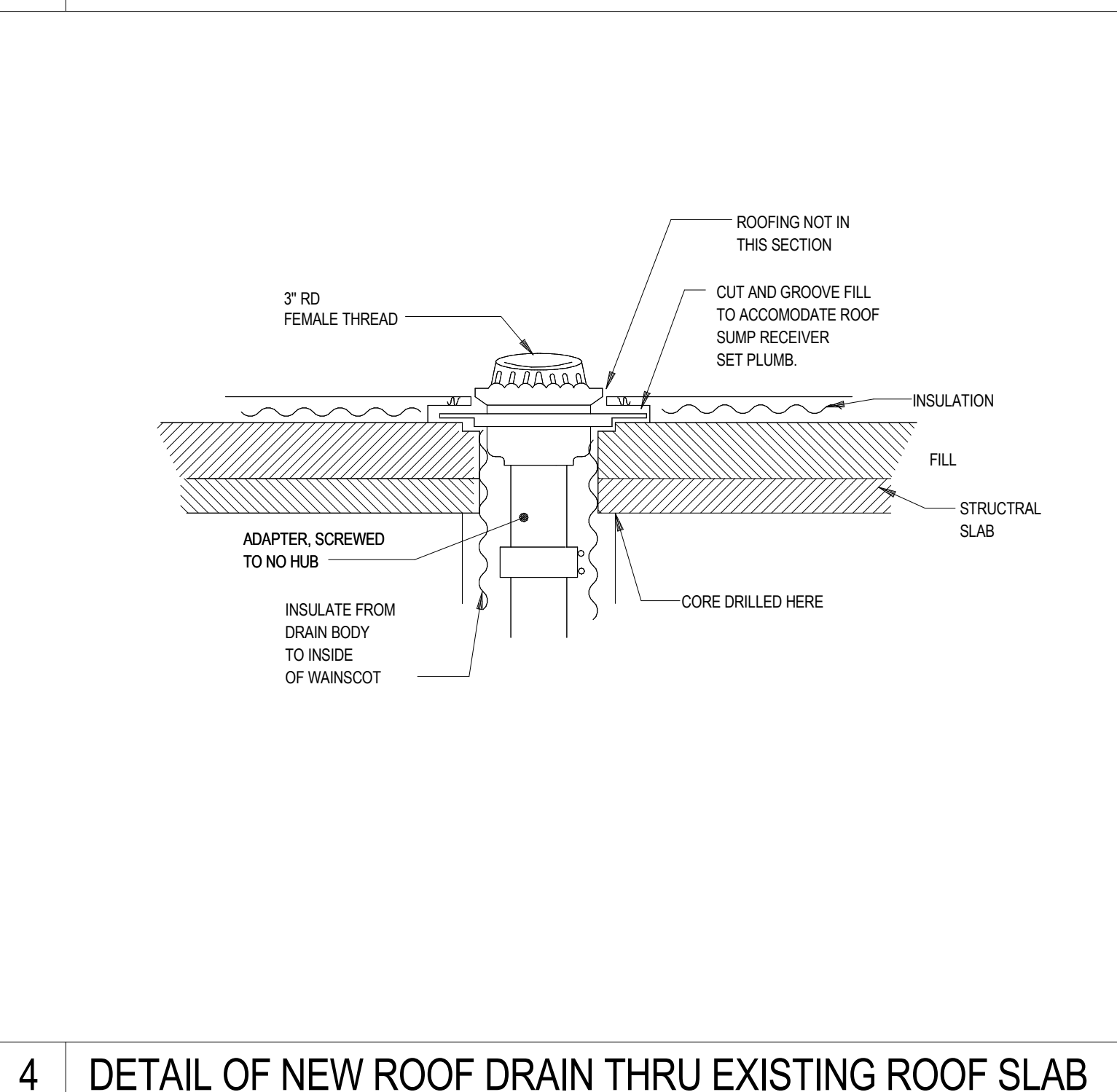
2 DETAIL OF PIPE INSTALLATION THRU A RATED WALL



3 DETAIL OF FLOOR DRAIN WITH TRAP PRIMER



1 DETAIL OF PIPE HANGERS AND SUPPORTS



4 DETAIL OF NEW ROOF DRAIN THRU EXISTING ROOF SLAB

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PLUMBING DETAILS

PROJECT NO.
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SCALE:
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SHEET NO.

DATE:
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Author

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