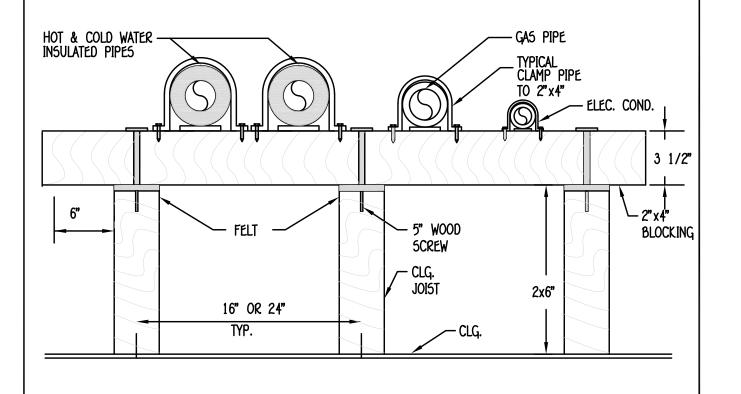
- 1. ALL WORK SHALL CONFORM TO THE 2022 UNIFORM PLUMBING CODE STANDARDS AND CALIFORNIA
- PLUMBING CODE. 2. DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 3. CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES ND POINTS OF CONNECTION BEFORE START OF WORK. MAKE A SURVEY OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK UNDER THIS
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES ND FLOOR
- 5. ALL CLEANOUTS SHALL BE OF CAST IRON AND SHALL BE ACCESSIBLE.
- 6. DO NOT SCALE FLOOR PLAN DRAWING FOR EXACT HORIZONTAL LOCATION OF PIPE RUNS.
- 7. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL HAVE ISOLATING VALVES ON WATER SUPPLY LINES.
- 8. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED. VERIFY JACUZZI/BATH TUB TRIM LOCATIONS IN FIELD. SEE ARCHITECTURAL DRAWINGS.
- 10. ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED.
- 11. ALL PIPING PENETRATING WALL, CEILINGS AND FLOORS SHALL BE ISOLATED FROM BUILDING STRUCTURES WITH RESILIENT SEALS. CLEARANCE FOR CAULKING AROUND PIPES ARE TO PREVENT NOISE AND VIBRATIONAL. SEE NOTE NO. 38 BELOW.
- 12. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 13. NOT USED.
- 14. CONTRACTOR SHALL FURNISH AND INSTALL, AT NO EXTRA COST TO THE OWNER, TRAP PRIMERS WHERE REQUIRED BY CODE. WHERE A COLD WATER SERVICE LINE TO A FREQUENTLY USED FIXTURE IS AVAILABLE, THE PRIMER SHALL BE "PRECISION PRODUCTS" WITH INTEGRAL VACUUM BREAKER. PROVIDE ADAPTER FITTINGS WITH PRIMER TAPS AS REQUIRED INCLUDING ACCESS PANEL. ALL WATER SUPPLY TRAP SEAL PRIMER VALVES SHALL COMPLY WITH ASSE 1010. DRAINAGE AND ELECTRONIC DESIGN TYPE TRAP SEAL PRIMER DEVICES SHALL COMPLY WITH ASSE 1044.1008.2.
- 15. REFER TO PIPE MATERIAL SCHEDULE ON THIS SHEET FOR PIPING MATERIALS.
- 16. IF WATER PRESSURE IN STREET IS 60psi OR MORE, INSTALL PRESSURE REGULATOR. 17. ALL PIPE PENETRATING (1) HOUR WALLS SHALL BE FIRE SAFE BY CAULKING AROUND OPENING WITH
- "3M" FOLLOWING MANUFACTURER'S INSTRUCTIONS.
- 16. ALL CLEAN-OUTS SHALL BE INSTALLED PER 2022 CPC.
- 19. NOT USED. 20. CONTRACTOR IS TO TAKE CARE TO PRESERVE ALL EXISTING UTILITIES IN THE SCOPE OF WORK FOR THIS PROJECT. CONTRACTOR IS TO REPAIR OR REPLACE ALL UTILITIES DAMAGED DURING
- 21. NO SANITARY VENT SHALL TERMINATE CLOSER THAN 10'0" FROM ANY FRESH AIR INTAKES OR ANY OPERABLE WINDOW.
- 22. THE CONTRACTOR IS TO SUBMIT TO THE OWNER FOR APPROVAL, CATALOG CUTS OF ALL FIXTURES. 23. THE CONTRACTOR IS TO VISIT THE JOB SITE PRIOR TO BIDDING TIME AND VERIFY ALL DIMENSIONS,
- LOCTIONS, AND CONDITIONS 24. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LABOR AND MATERIAL WARRANTY FOR A
- PERIOD OF (1) YEAR OR AS PER SPECIFIC AGREEMENT. 25. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT OR ENGINEER ANY ADDITIONAL LABOR AND/OR MATERIALS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM BEFORE PROCEEDING
- 26. CONTRACTOR SHALL PERFORM ALL TESTING AND PAY FOR ALL PERMITS
- 27. ALL HOT WATER PIPING SHALL BE INSULATED WITH 1/2" THERMOCELL PIPE INSULATION.
- 28. PLANS ARE DIAGRAMATIC ONLY. FIELD CONDITIONS SHALL DETERMINE EXACT LOCATION AND ROUTING of Pipes.
- 29. ALL HORIZONTAL DRAIN LINES SHALL RUN WITH 2% SLOPE MIN. 30. PROVIDE PRIMARY AND SECONDARY CONDENSATE DRAIN PIPING FROM ALL AIR CONDITIONING UNITS
- PER PLANS. 31. PLUMBING FIXTURES AND FITTINGS SHALL MEET THE FOLLOWING STANDARDS:
- WATER CLOSETS 1.28 GPF
- URINALS 0.5 GPF
- SINGLE SHOWERHEAD 2.0 GPM AT 80psi
- MULTI SHOWERHEAD 2.0 GPM AT 80psi FOR ALL COMBINED SHOWERHEADS.
- LAVATORY FAUCETS 1.5 GPM AT 60psi
- LAVATORY FAUCETS IN PUBLIC USE AREAS 0.5GPM AT 60psi. METERING FAUCETS - 0.25 GALLONS PER CYCLE
- KITCHEN FAUCETS 1.8 GPM AT 60psi
- 32. ALL UNDERGROUND STORM DRAIN PIPING AND FITTINGS SHALL COMPLY WITH DRAIN, WASTE AND VENT PIPING
- STANDARD. 2022 CPC SEC. 1102.3. 33. ALL CLEANOUTS SHALL BE PROVIDED IN COMPLINCE WITH CPC ART. 707.0.
- 34. ALL COPPER LINES FOR DOMESTIC WATER USE SHALL BE REAMED TO FULL I.D. AND USE APPROVED FLUX AND
- SOLDER. 35. PROVIDE 2X6 MIN WALLS WHERE PLUMBING IS INSTALLED.
- 36. NOTCHING AND DRILLING IS TO COMPLY WITH 2022 CPC.
- 37. COORDINATE WASTE BELOW SLAB ROUTING W/STRUCTURAL FOUNDATION PLANS.
- 36. OFFSET WATER HEATER FLUE VENT PER 2022 CPC ART. 516 & 517. USE ACUSTO-PLUMB MANUF. ISOLATIONS METERIALS FOR PIPE STUD PENETRATIONS. ETC. SEE DRAWING THIS SET FOR DETAILS
- 39. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE CAULKED WITH CITY APPROVED FIRE CAULKING.
- 40. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER CPC SECTION 707.0 & 719.
- 41. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENINGS, AIR INTAKE OR VENT SHAFT.
- 42. WATER CLOSETS BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE. 43. NEW OR REPAIRED WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN
- SECTION 609.9 OF THE PLUMBING CODE. 44. ACCESSIBLE WATER HAMMER ARRESTERS SHALL BE INSTALLED FOR QUICK-ACTION VALVES. LOCATION AND METHOD OF INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATION.
- 45. FIXTURE FLOW RATES SHALL COMPLY WITH CHAPTER 4 OF THE LA PLUMBING CODE. ALL FIXTURES PIPING &
- 46. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO PROTECT AGAINST CONTACT. PROTECTORS, INSULATION, OR BOTH SHALL COMPLY WITH ASME A112.18.9

BACKFLOW TESTING PROCESURES

- TESTING COMPANIES MUST SUBMIT "SIGNED-OFF" TEST NOTICES TO THE CROSS-CONNECTION PROGRAM NO LATER THAN 30 WORKING DAYS AFTER THE DATE OF "INITIAL TEST" IF THE DEVICE PASSED, OR NO LATER THAN 30 WORKING DAYS AFTER THE DATE OF "FINAL TEST" IF THE DEVICE INITIALLY FAILED, WAS REPAIRED AND THEN PASSED. FAILURE TO DO 50 WILL RESULT IN THE REMOVAL OF THE TESTER COMPANY AND/OR TESTER FROM THE LOS ANGELES COUNTY-CROSS-CONNECTION EMPLOYER/TESTER DATABASE. SAID COMPANIES/TESTERS MAY APPLY FOR REINSTATEMENT THIRTY DAYS AFTER SAID REMOVAL AFTER WRITTEN EXPLANATIONS ARE RECEIVED WHICH DEPICT PLAUSIBLE AND ACCEPTABLE EXTRAORDINARY REASONS FOR NOT MEETING THIS DEADLINE.
- 2. TEST NOTICES RECEIVED AFTER THE DEADLINE MENTIONED IN ITEM 1 ABOVE WILL BE SUBJECT TO FIELD AUDIT BY THIS DEPARTMENT.
- 3. THE CROSS-CONNECTION PROGRAM FROM TIME TO TIME WILL REQUEST COPIES OF TESTING/REPAIR INVOICES FROM COMPANIES PICKED AT RANDOM 50 AS TO SUBSTANTIATE ACCURACY OF TESTING "SIGN-OFF" DATES. SIGNIFICANT DISCREPANCIES UNCOVERED BY THIS AUDIT WILL RESULT IN PERMANENT REMOVAL OF THE COMPANY AND TESTER FROM THE DATABASE. SINCE THE DEPARTMENT IS INTERESTED ONLY IN TEST DATE INFORMATION, BILLING AMOUNTS ON THESE INVOICES MAY BE MASKED SO AS TO MAINTAIN PRIVACY OF THIS INFORMATION.
- 4. TESTS PERFORMED RESULTING IN SOME COMPONENT FAILURE SHOULD BE SUBMITTED TO THE PROGRAM AS SOON AS IT HAS BEEN DETERMINED THE REPAIR WORK AND RETEST IS NOT GOING TO BE PERFORMED BY THE ORIGINAL TESTING COMPANY.
- 5. ON JULY 1 OF EACH YEAR ALL GENERAL TESTING COMPANIES MUST SUBMIT ON COMPANY LETTERHEAD STATIONARY A CURRENT LIST OF CERTIFIED BACKFLOW PREVENTION DEVICE TESTERS THEY EMPLOY. A REVISED LIST MUST BE FAXED TO THE DEPARTMENT AS NEW TESTERS ARE EMPLOYED AND AS TESTERS LEAVE THEIR EMPLOYMENT.
- 6. ALL STORM WATER LINES SHALL BE FILLED TO THE TOP FOR TESTING.
- 7. ALL TESTING SHALL BE DONE BY AN APPROVED VENTURA COUNTY TESTING AGENCY.



ATTIC PIPE SUPPORT	SCALE NTS
L4x4x8	
PIPE CLAMP	

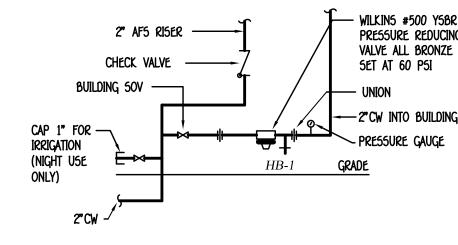
TRAPEZE HANGER

SYMBOL5	ABBR.	DESCRIPTION	
	5 OR W	SEWER OR WASTE ABOVE FLOOR OR GRADE	
	5 OR W	SEWER OR WASTE BELOW FLOOR OR GRADE	
	٧	VENT	
	CW	COLD WATER	
	HW	HOT WATER	
	HWR	HOT WATER RETURN	
CD	CD	CONDENSATE DRAIN	
O	0	DRAIN	
G	G	GAS (LOW PRESSURE)	
——MPG——	MPG	GAS (MEDIUM PRESSURE)	
5D	50	STORM DRAIN	
OD	00	OVERFLOW DRAIN	
	PCW	PURIFIED COLD WATER	
\longrightarrow	50V	SHUT-OFF VALVE	
	GC	GA5 COCK	
───	BV	BALANCING VALVE	
<u> </u>	CV	CHECK VALVE	
<u> </u>	U	UNION	
ф	FC0	FLOOR CLEANOUT	
I 	WCO	WALL CLEANOUT	
	СО	CLEANOUT	
ф—— —	YCO	YARD CLEANOUT	
•	POC	POINT OF CONNECTION	\neg
	VTR	VENT THRU ROOF	

SYM.	DESCRIPTION	MFR	MODEL	W	TRAP	>	CW	HW	REMARKS/SPECIFICATIONS	
<u>WC</u>	WATER Closet Accessible	AMERICAN STANDARD	MADERA 3043.102	3"	INT	2"	3/4"	ı	FLOOR MOUNTED TANK TYPE ADA ACCESSIBLE ELONGATED BOWL WITH OPEN FRONT	
LV	LAVATORY	AMERICAN STANDARD		2"	INT	1 1/2"	1/2"	1/2"	WALL MOUNTED ADA ACCESSIBLE LAVATORY LEVER HANDLE FAUCET INSULATE TRAP AND WATER SUPPLY.	
	LAV VALVE	AMERICAN STANDARD	R12055 OR R12555	2"	INT	2"	3/4"	3/4"	CAST IRON BODY, WASHERLESS CERAMIC DISC VALVE WITH VOLUME AND TEMPERATURE CONTROL, AND HOT LIMIT SAFETY STOP. 110° CUTOFF.	
<u>UR</u>	URNIAL	MAYBROOK	6581.001 -8.020	2"	INT	2"	3/4"	-	ULTRA HIGH EFFICIENCY UNIVERSAL WASHOUT URINAL W/ 0.125 GPF TOP SPUD.	
MS	MOP SINK	AMERICAN STANDARD	M5BIDTG 2424100	2"	INT	2"	3/4"	3/4"	FIAT 24" FLOOR MOUNT MOLDED STONE MOP BASIN W/ FAUCET, HOSE, & MOP HOLDER.	
<u>DF</u>	DRINKING FOUNTAIN	ELKAY		2"	INT	2"	1/2"	-	EZ 8 GPH WALL MOUNTED BI-LEVEL DRINKING FOUNTAIN W/ WATER COOLER AND CANE APRON OR EQUAL.	
WH	WATER HEATER	RHEEM	XE20506- 5T30U0	-	-	-	1/2"	1/2"	ELECTRIC 20 GAL. HOT WATER HEATER DUAL 3800W ELEMENTS.	
NOTE:	- FAUCETS IN PUBLIC R	ECTODOMC CUALL O	E CELE CLOCING	· 00 6	SELE CLO	CINIC		<u> </u>		

METERING FAUCETS. PUBLIC LABATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER PRESSURE TO 110°F, TITLE 24, PART 6 110.3(c)3.

> PLUMBING FIXTURE SCHEDULE WILKINS #500 YSBR PRESSURE REDUCING VALVE ALL BRONZE

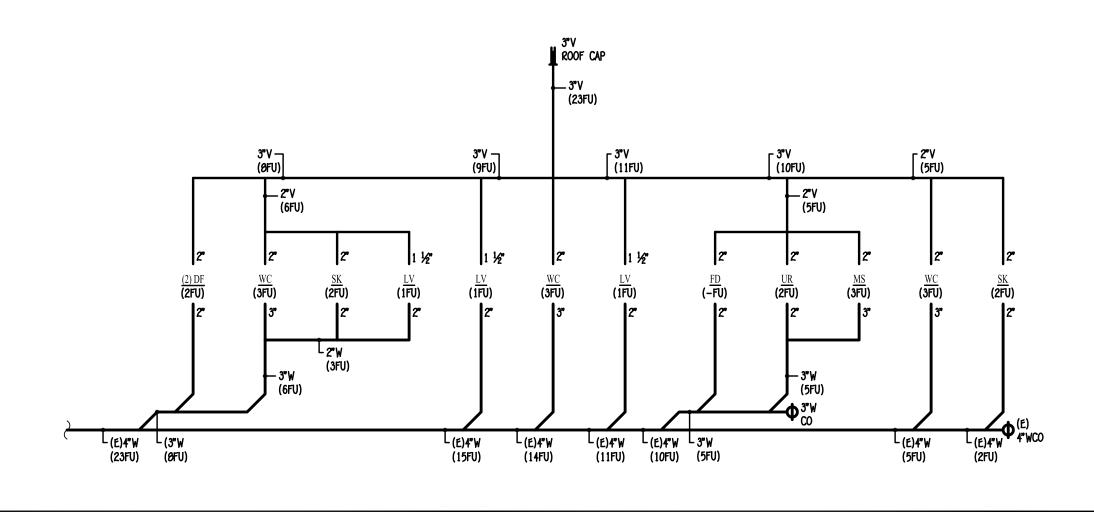


SCALE LEGEND PRESSURE REDUCER VAVLE

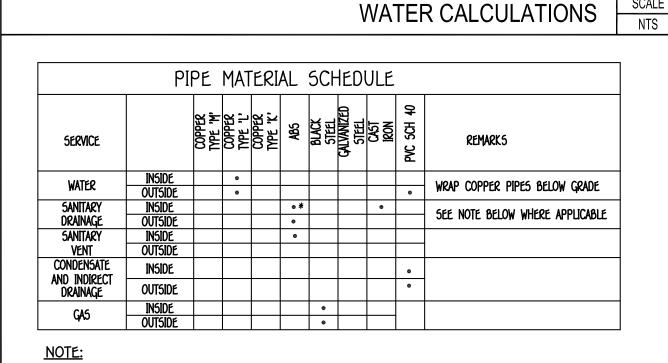
WATER PRESSURE INFORMATION: WATER PRESSURE IS 99 PSI WATER PRESSURE MAX: 150 PSI MIN: 99 PSI ELEV: FT. METER SIZE: 1 1/2" DEVELOPED LENGTH: 150' + 75' (JOINTS) = 225' PRV SET AT 60 PSI 8.0 PSI LOSS ACROSS PRV. PRESSURE (AFTER PRV): 60.0 PSI RESIDUAL PRESSURE 20.0 PSI LOSS FROM ELEV: 10' X 0.435 METER LOSS 25.6 PSI

PRESSURE AVAILABLE FOR FRICTION LOSS: 60 - 25.6 = 34.4 PSI FRICTION LOSS PER 100 FT = (34.4 PSI/225FT) * 100 = 15.8 PER 100 FT.

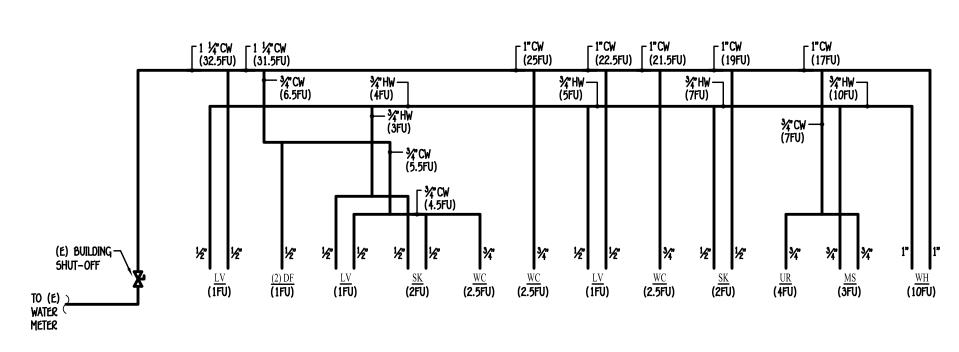
			,		FIXTURE COUNT							
SIZE	CW WC	HW	GPM	NUMBER OF	ITEM # & FIXTURE		UNITS PER FIXTURE		TOTAL			
1/2"	4	3	4	FIXTURE	PS		CW	w	CW	F/S	w	
3/4"	16	8	11	3	3/4"	WC	2.5	3	7.5	1.82	9	
1"	30	16	20		<u> </u>	LV		_			_	
1 1/4"	56	28	31	3	1/2"		1	1	3	1.63	3	
	•			1	3/4"	UR	4	2	4	2.90	2	
1 1/2"	103	46	44	1	3/4"	MS	3	3	3	2.18	3	
2"	254	119	76	2	1/2"	SK	2	2	4	3.27	4	
2 1/2"	455	245	115	2	1/2"	DF	0.5	1	1	0.82	2	
3"	719	406	165	1	1"	WH	10	0	10	4.09	0	
3 1/2"	1091	585	220	Total					32.5		23	
4"	1668	840	290	G.P.M.	G.P.M.					21		



WASTE & VENT RISER DIAGRAM



- ALL HOT AND COLD WATER LINES SHALL BE INSULATED W/ 🔏 THERMOCELL OR EQUAL INSULATION WITH A MINIMUM R=4 VALUE PER CBC-1115B.4.3 ITEM 4.
- 2. SHOWER, BATHTUBS AND WHIRLPOOL TUBS SHALL BE PROVIDED WITH SHOWER CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE 120° MAX.
- 3. ALL NON-METALLIC YARD PIPING IS TO BE PROVIDED WITH #14 AWG TRACER WIRE.





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ISSUE: DATE DESCRIPTION 04/03/23 1ST PLAN CHECK CORR.

SCALE

Drawn / Reviewed: DM/RG/AC

Issue Date 01/24/23

Sheet Name PLUMBING GENERAL NOTES, SYMBOLS &

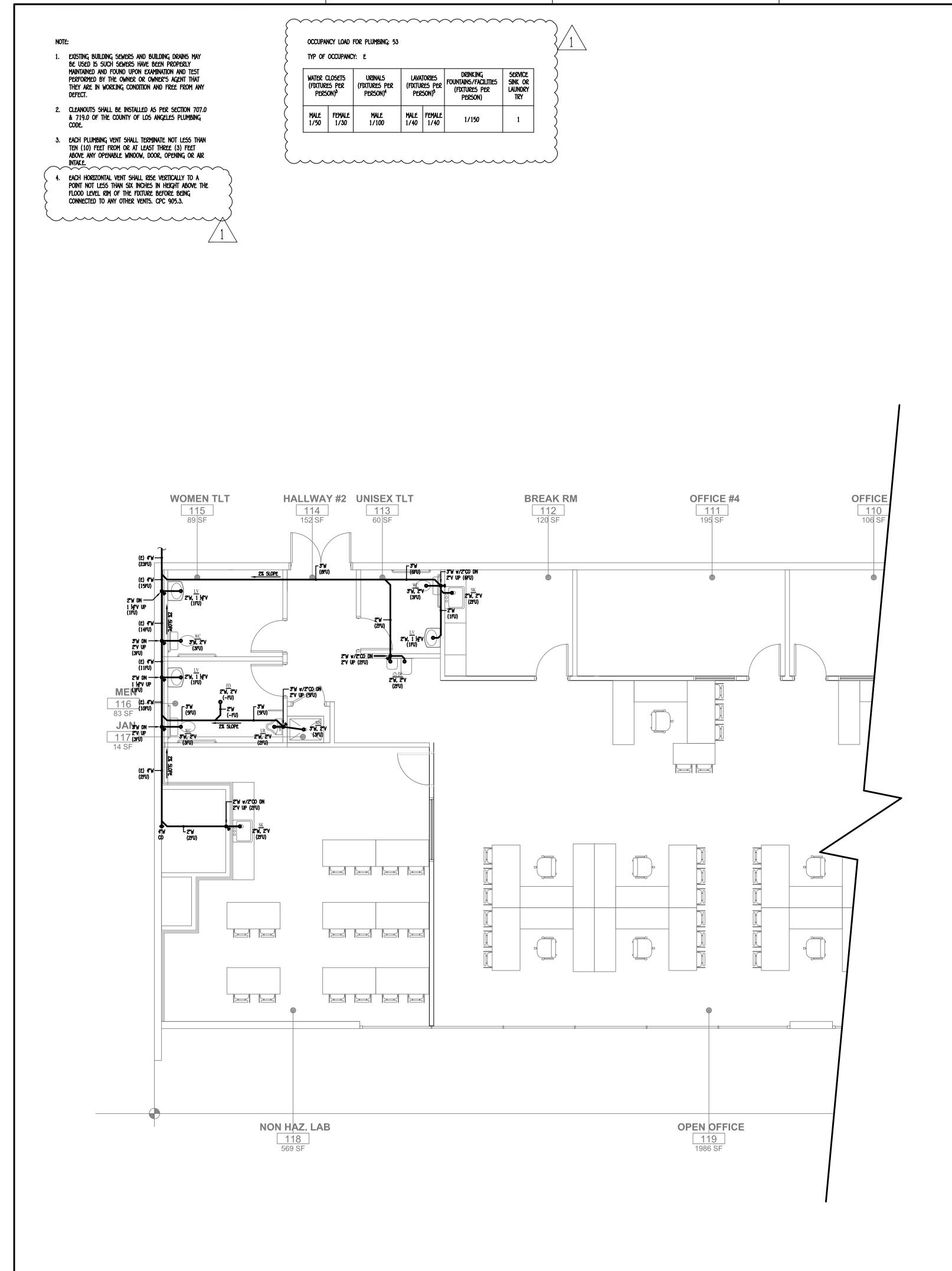
DETAILS

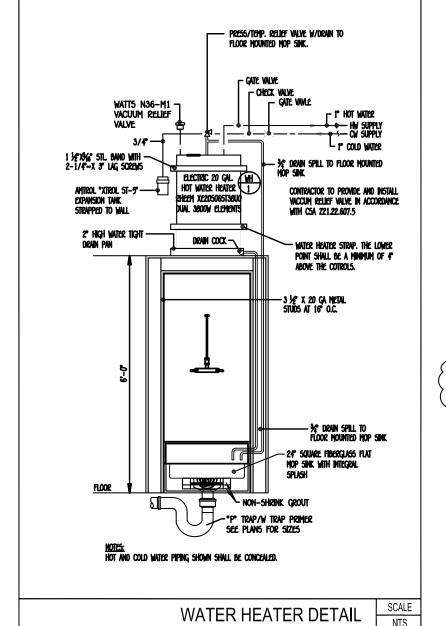
Sheet Number

SCALE

GENERAL NOTES NTS SCHEDULES

HOT & COLD WATER RISER DIAGRAM





OF LONG BEACH MUNICIPAL CODE. (CPC 301.2) MODEL ENERGY CODE REQUIREMENTS AND LABELED. BIBS, AND MOP SINKS ARE TO BE PROVIDED WITH A BACKFLOW /

 ALL WORK TO COMPLY WITH 2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA GREEN CODE (CALGREEN), 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, AND TITLE 18

b. Water PIPE and fittings with a lead content which exceed 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER. (CPC

604.2 & CALIFORNIA HEALTH & SAFETY CODE 116075). c. ALL PLUMBING FIXTURES SHALL MEET THE FLOW RATE REQUIREMENTS OF CGBC TABLE 5.303.2.3

d. ALL FIXTURES IN HANDICAP RESTROOMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA

HANDICAP CODE AND LOCAL HANDICAP CODES HAVING JURISDICTION.

e. ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED.

F. PLUMBING PIPING SYSTEMS IN RESIDENTIAL ACCOMMODATIONS SHALL BE DESIGNED AND INSTALLED IN CONFORMANCE WITH SOUND LIMITATIONS AS REQUIRED IN THE CALIFORNIA BUILDING CODE. (CPC 309.5)

g. ALL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.1. PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT TO THE WATER TEMPERATURE TO 110°F.

i. ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE

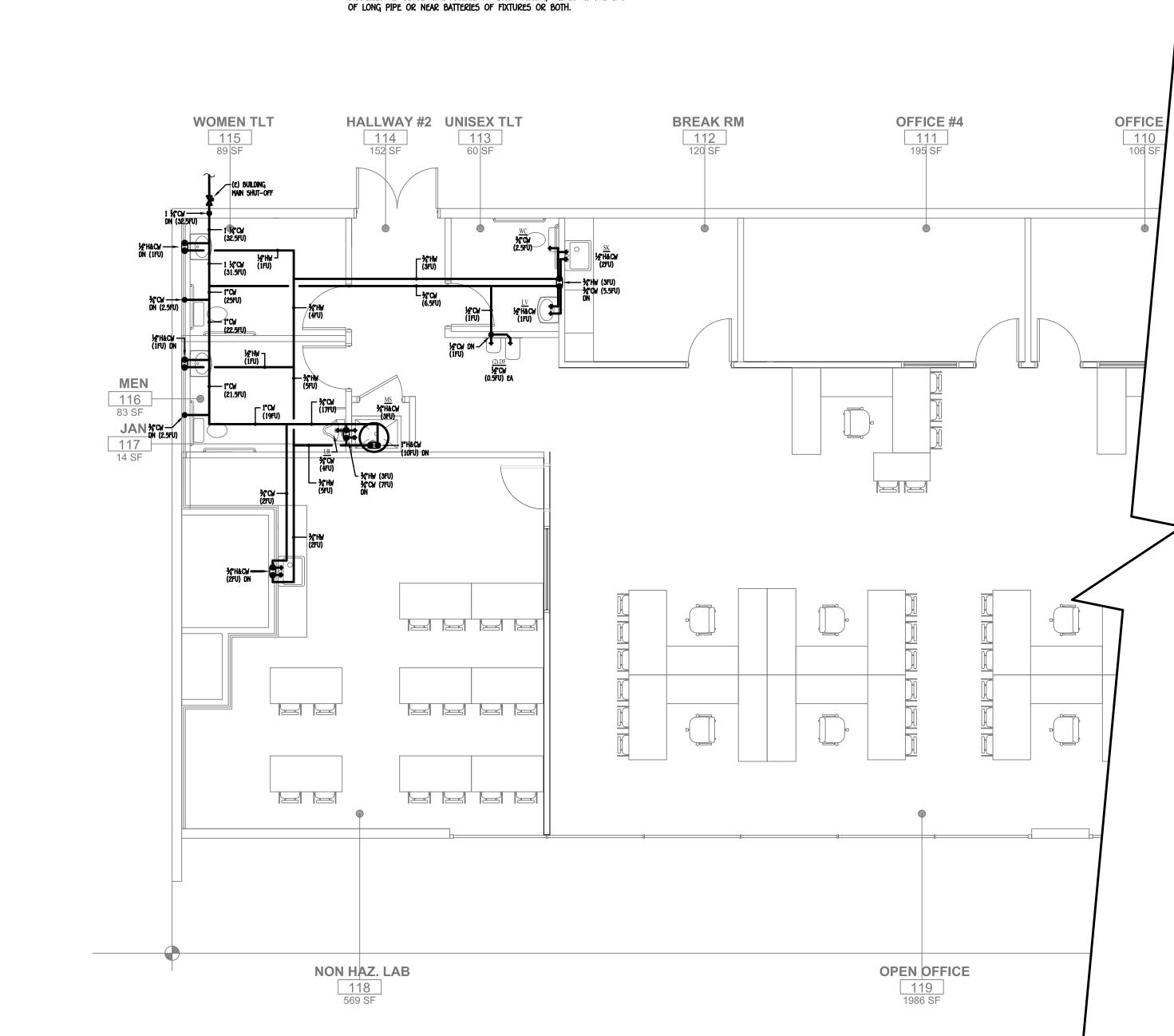
j. EACH PLUMBING FIXTURE SHALL BE INDEPENDENTLY VALVE PER CODE. k. ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, SUCH AS HOSE

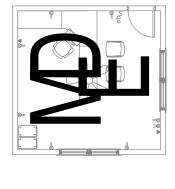
I. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN CPC SEC. 609.9.

m. INSULATION SHALL BE PROVIDED ON ALL HOT WATER AND CIRCULATING PIPING AND THE FIRST 5' ON THE COLD WATER FROM THE WATER HEATER.

THE PREMISE OWNER OR RESPONSIBLE PERSON SHALL HAVE THE BACKFLOW PREVENTION ASSEMBLY TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER AT THE TIME OF INSTALLATION.

o. WATER PRESSURE SHOCK ARRESTORS (WATER HAMMERS) SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING VALVES AT THE END







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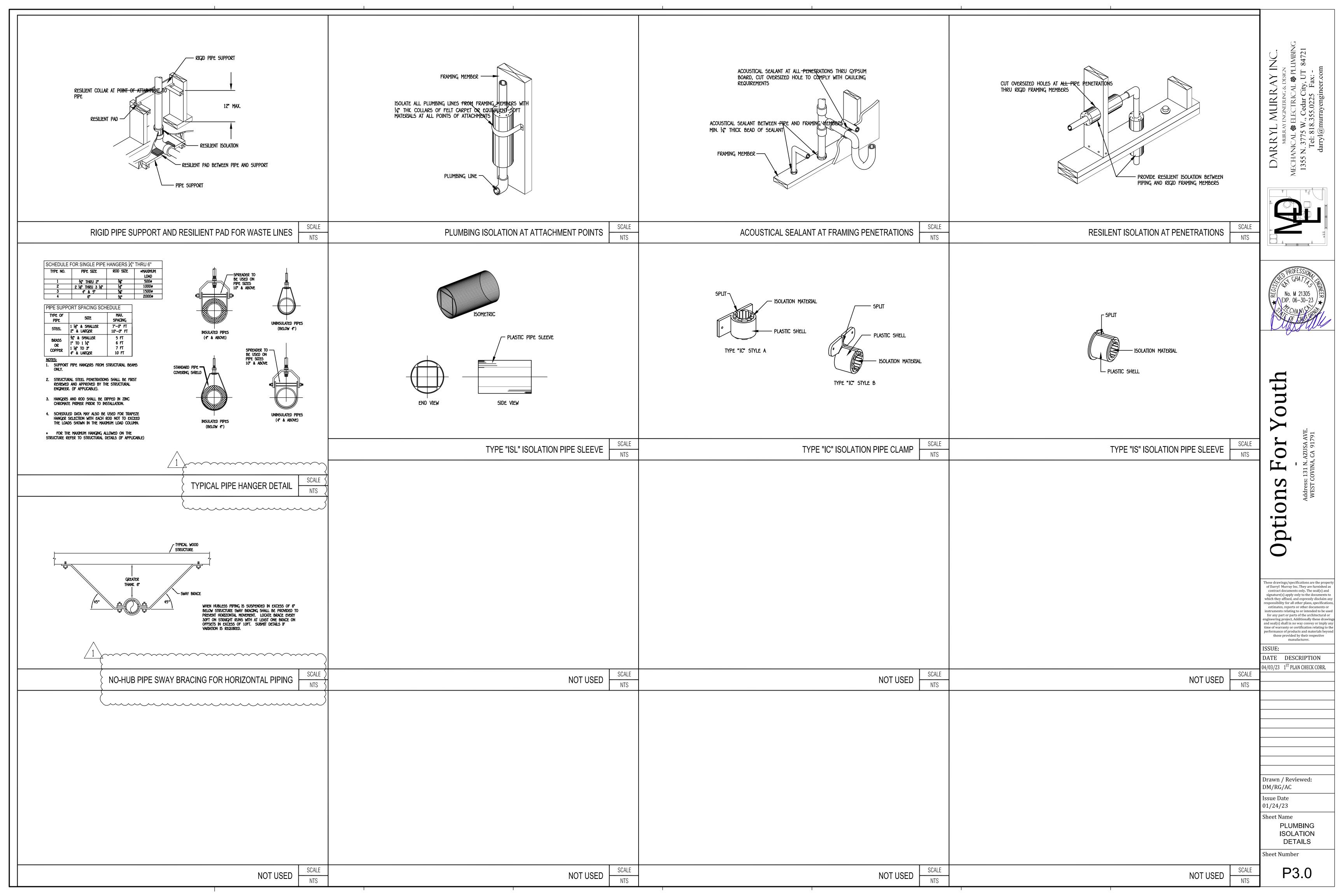
Drawn / Reviewed: DM/RG/AC Issue Date

01/24/23 Sheet Name PLUMBING WASTE/VENT & HOT/COLD WATER

PLAN Sheet Number

HOT & COLD WATER PLAN SCALE
1/4" = 1'-0

WASTE & VENT PLAN SCALE 1:0"



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Sheet Name PLUMBING TITLE 24

COMPLIANCE FORMS

Sheet Number