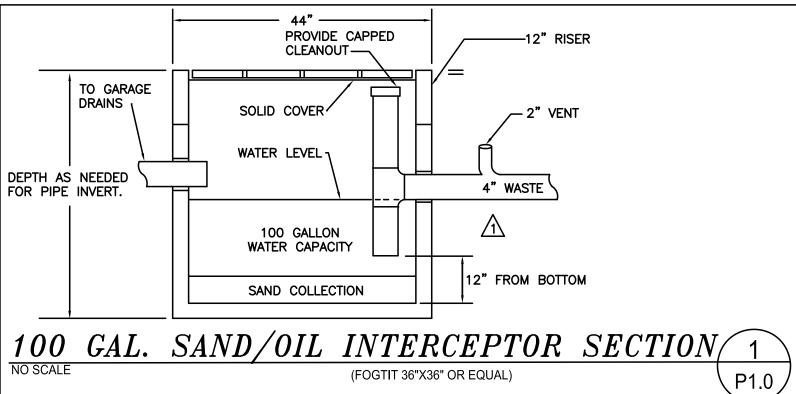


PLUMBIN	g legen	ND
1	<u>SYMBOL</u>	DESCRIPTION
ER PIPE		COLD WATER
R PIPE	—— FW——	FILTERED WATER
		HOT WATER
L PIPE		HOT WATER (140°F)
	HWC	HOT WATER CIRCULATION
		VENT
		WASTE, SANITARY
ER PIPE	GW	WASTE, GREASE
FIXTURE TAG	RL	RAIN LEADER
E #1	ORL	OVERFLOW RAIN LEADER
QUIP. TAG) AIN W/	G	GAS (7 IN-W.C.)
	CD	CONDENSATE
K	——⋈——	GATE VALVE
AIN	//	COLD WATER PEX
RAIN		HOT WATER PEX
NRAIN		CW MANIFOLD PEX/WIRSBO
RFLOW DRAIN	(HW)	HW MANIFOLD PEX/WIRSBO
N	Ø	BALANCING/SHUT-OFF VALVE
EANOUT		BALL VALVE
NOUT		PRESSURE GAUGE
EANOUT	<b>⊢</b>	UNION
SIZE	SR	SUDS RELIEF
SIZE Ze	<u>_~~</u> R	RELIEF VALVE
PE SIZE PE SIZE	니ㄴ VTR	VENT THROUGH ROOF
ZE PE SIZE	Ø VTR	VENT THRU ROOF
E SIZE		BURIED PIPE
/ UP / DOWN	-N-N- RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
P OWN	PRV	PRESSURE REDUCING VALVE
	-17-	BACK WATER VALVE
		INDICATES DEMOLITION

WATER STORAGE TANKS			
DESIGNATION:	ST 1&2		
LOCATION	FIRST FLR		
MANUFACTURER:	A.O SMITH		
MODEL:	T-120 STD		
STORAGE CAP (GAL.)	119		
CONFIGURATION	VERTICLE		
NOTES:	1, 2		
NOTES: 1. PROVIDE FIELD INSTALLED TANK INSULATION			

		PLUMBING FIXTURE CONNE					
COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH	DESIG:	ITEM:	TRAP:	WASTE	VENT:	CW:	HV
STRUCTURAL AND AT SITE PRIOR AND DURING THE EXACT ROUTING OF ALL FIFES WITH STRUCTURAL AND AT SITE PRIOR AND DURING THE CONSTRUCTION. COORDINATE WITH ARCHITECTURAL AND AT SITE FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. ALL FIXTURES REQUIRING PLUMBING SHALL BE CONNECTED TO BUILDING WASTE, VENT, COLD WATER AND HOT WATER SYSTEM AS REQUIRED BY THE CODES. WASTE	P-1	WATER CLOSET, STERLING WINDHAM # 402015 (1.6 GPF F.T.), WHITE VITREOUS CHINA, ELONGATED BOWL. PROVIDE CHROME PLATED STOP VA. MOUNTED 10.25" ABOVE FINISHED FLOOR AND BEMIS #1900CCP WHITE CLOSED FRONT SEAT WITH LID.					-
ND VENT PIPE SIZES SHALL NOT BE SMALLER THAN UPC 2012 TABLE 703.2. EE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET "P1". DT USED	P-1A	WATER CLOSET ADA, STERLING WINDHAM# 402315 (1.6 GPF F.T.), WHITE VITREOUS CHINA, ELONGATED BOWL. PROVIDE CHROME PLATED STOP VA. MOUNTED 10.25" ABOVE FINISHED FLOOR AND BEMIS #1900CCP WHITE CLOSED FRONT SEAT WITH LID.	3"	3"	2"	1/2"	-
ANOUTS PER UPC 2012 SECTION 707.0, SIZED PER TABLE 707.1 AND D BY LOCAL JURISDICTIONS. ALL CLEANOUTS SHALL BE LOCATED IN DRS IN A NOT HIGHLY VISIBLE LOCATION AS APPROVED BY THE D PIPING FOR HANDICAPPED FIXTURES SHALL BE INSULATED WITH '	P-2	LAVATORY, STERLING WESCOTT # 442040, WHITE VITREOUS CHINA WITH OVERFLOW, UNDER COUNTER MOUNT, 17"X13"X7.5" DEEP. PROVIDE WITH CHROME PLATED STOP VALVES & AMERICAN STANDARD # 2064.131 SINGLE LEVEL FAUCET WITH POP-UP	1-1/2"	1-1/2"	1-1/2"	1/2"	1/.
V GUARD (OR EQUAL). OFFSET P-TRAPS TO CLEAR WHEEL CHAIR EXPANSION AND CONTRACTION JOINTS FOR PLASTIC PIPING AS NEEDED AL JURISDICTION AND 2015 UPC. ATE WITH THE STRUCTURAL ENGINEER AND GENERAL CONTRACTOR TO STRUCTURAL SUPPORT FOR ALL EQUIPMENT.	P-2A	DRAIN LAVATORY ADA, STERLING WESCOTT # 442040, WHITE VITREOUS CHINA WITH OVERFLOW, UNDER COUNTER MOUNT, 17"X13"X7.5" DEEP. PROVIDE WITH CHROME PLATED STOP VALVES, AMERICAN STANDARD # 2064.131 SINGLE LEVEL FAUCET WITH POP-UP DRAIN, OFFSET P-TRAP WITH TRU	1-1/2"	1-1/2"	1-1/2"	1/2"	1/:
ING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS 3 SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND IENT. ING CONTRACTOR SHALL COORDINATE PLUMBING VENT STACKS WITH THE CONTRACTOR TO MAINTAIN A MINIMUM OF 10 FT. FROM THE OUTSIDE AIR S. DOF PENETRATIONS SHALL BE MINIMUM 5 FEET AWAY FROM DCCUPANCY SEPARATION WALLS.	P-3	BRO TRAP WRAP BATHTUB, STERLING # 71121120, 60" X 32" X 21" DEEP WHITE COMPRESSED MOLDED VIKRELL. PROVIDE WITH SLIP RESISTANT FLOOR, SYMMONS # C-96-2-X CHROME PLATED PRESSURE BALANCING MIXING VALVE WITH INTEGRAL STOPS, HANDLE STOP LIMIT SCREWS, TUB SPOUT, 1 MODE SHOWER HEAD, AND KOHLER # K-7163 POP-UP DRAIN ASSEMBLY.	2"	2"	1-1/2	1/2"	1/:
IPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE TE OF WASHINGTON BUILDING, MECHANICAL ENERGY, FIRE, PLUMBING AND LTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL JURISDICTIONS. EQUIPMENT SHALL BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP SHALL BE OF THE KIND AND QUALITY DESCRIBED HEREIN. IMBING CONTRACTOR SHALL CONNECT TO EACH PIECE OF EQUIPMENT WITH ALL DUIRED ACCESSORIES AND IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S COMMENDATIONS AND LOCAL CODES. TALL SHUT OFF VALVES/STOPS AT HOT AND COLD WATER SUPPLY TO EACH 'URE EQUIPMENT.	P-3A	K-7163 POP-OP DRAIN ASSEMBLY. BATHTUB (ADA), STERLING # 71121120, 60" X 32" X 21" DEEP WHITE COMPRESSED MOLDED VIKRELL. PROVIDE WITH SLIP RESISTANT FLOOR, SYMMONS # C-96-600-B30-V-X CHROME PLATED PRESSURE BALANCING MIXING VALVE WITH INTEGRAL STOPS, HANDLE STOP LIMIT SCREWS, LEVERTROL DIVERTER VALVE, TUB SPOUT, ADJUSTABLE SHOWER HEAD, AND KOHLER # K-7163 POP-UP DRAIN ASSEMBLY. PROVIDE WITH SEAT	2"	2"	1-1/2	1/2"	1/:
ALL ALL TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS. ALL TRAPS WITHOUT HAVING CONTINUOUS WATER HARGE TO BE PROTECTED AGAINST TRAP EVAPORATION AND TO HAVE MATIC TRAP PRIMERS CONNECTED TO NEAREST MOST FREQUENTLY USED JRE. 6 RELIEF SHALL COMPLY WITH UPC 2015 SECTION 711.0 . TE/DISCHARGE CONDENSATE PIPES FOR HEAT PUMPS/FURNACES TO TORY TAILPIECE IN RESIDENTIAL UNITS OR M LENGTH SHALL NOT EXCEED 2015 UPC TABLE 703.2 . FY WITH GENERAL CONTRACTOR FOR FURRING OUT PIPES OUTSIDE OF WALLS TO FLOOR STRUCTURAL FRAMING IN LINE WITH WALLS PRIOR TO BIDDING.	P-3B	SHOWER, STERLING # 72270100, 60" X 36" X 75.75" HIGH, WHITE COMPRESSED MOLDED VIKRELL, CAULK FREE INSTALLATION WITH. PROVIDE WITH SLIP RESISTANT FLOOR, KOHLER # K-706029-L FRAMELESS GLASS DOOR 0.03125" THICK, SYMMONS # $C-96-1-X$ CHROME PLATED PRESSURE BALANCING MIXING VALVE. INTEGRAL SERVICE STOPS, ADJUSTABLE HANDLE LIMIT SCREWS AND ADJUSTABLE SPRAY SHOWER HEAD, CHROME PLATED FLAT GRID STRAINER. PROVIDE STERLING # 800010112 24" GRAB LOCATED OPPOSITE SHOWER HEAD. COORDINATE LOCATION WITH ARCH.	2"	2"	1-1/2"	1/2"	1/:
FY WITH GENERAL CONTRACTOR AND ARCHITECT FOR OUTSIDE ROOF AND ( DRAINAGE LOCATIONS PRIOR TO BIDDING. (MAY NOT BE SHOWN ON THE WINGS) DRAINAGE PIPING INSIDE BUILDING SHALL BE SLOPED AT MINIMUM 1/4" FOOT (2%) UNLESS OTHERWISE APPROVED BY LOCAL JURISDICTIONS. (OTHER 1 2% SLOPE WILL REQUIRE ADJUSTMENT FACTOR [0.80 FOR 1% SLOPE] FOR	P-4	SINK, JUST # SLF-2019-A-GR, 18 GAUGE TYPE 304 STAINLESS STEEL, SINGLE COMPARTMENT WITH FAUCET LEDGE 20" X 19" X 7.5" DEEP. PROVIDE WITH JUST # J-35-FS CHROME PLATED FLAT GRID STRAINER AND KOHLER # K-15888-K CHROME PLATED GOOSE NECK FAUCET WITH LEVER HANDLES.		2"	1-1/2"	1/2"	1/:
TAL F.U. COUNT CAPACITIES PER UPC 2015 TABLE 703.2)   WATER PIPING SHALL BE INSTALLED ON THE WARM SIDE OF INSULATION.   PLUMBING, PIPING AND EQUIPMENT SHALL CONFORM TO SMACNA & LOCAL   GULATIONS FOR SEISMIC RESTRAINTS.	D-1	FLOOR DRAIN, J.R. SMITH $\#$ 2005Y-NB-B-P-050, WITH NICKEL BRONZE GRATE, TRAP PRIMER CONNECTION, DUCO CAST IRON BODY, FLASHING COLLAR, AND ADJUSTABLE STRAINER HEAD	2"	2"	1-1/2"	-	-
L PIPING SHALL BE INSULATED PER THE STATE ENERGY CODE UNLESS HERWISE NOTED. L SUMP PUMPS TO HAVE ACCESSIBLE SHUT-OFF AND CHECK VALVE.	D-2	FUNNEL FLOOR DRAIN, J.R. SMITH <b>#</b> 2005Y-NB-P050 WITH <b>#</b> 3581 FUNNEL, NICKEL BRONZE TOP, TRAP PRIMER CONNECTION, DUCO CAST IRON BODY, FLASHING COLLAR, AND ADJUSTABLE STRAINER HEAD	2"	2"	1-1/2"	-	-
X. 3 WATER CLOSETS ON HORIZONTAL BRANCH AND 4 WATER CLOSETS ON RTICAL STACK ON ANY 3" WASTE. (TYP.)	D-3	GARAGE DRAIN, J.R. SMITH # 2415Y-M, 11" SQUARE DUCTILE IRON HINGED GRATE, LOCKING SEDIMENT BUCKET, AND DUCTILE CAST IRON BODY	3"	2"	-	-	
OTHES WASHING AREA W/ CLOTHES WASHERS IN A BATTERY OF THREE (3) OR ORE CLOTHES WASHERS SHALL BE RATED AT 6 FIXTURE UNITS PER FIXTURE. CH VENT SHALL RISE 6" ABOVE THE FIXTURE FLOOD RIM BEFORE OFFSETTING DRIZONTALLY OR CONNECTING TO ANY OTHER FIXTURE PER UPC 2015 905.3	D-4	ROOF DRAIN, J.R. SMITH 1330-RDF, DUCO CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, GRAVEL STOP, & LOW PROFILE POLYETHYLENE DOME.	-	3"	-	-	
CTOR IS TO BRING UP THE DISCREPANCIES AND ITEMS WHICH ARE NOT CALLY CALLED FOR OR SHOWN BUT ARE REQUIRED FOR A COMPLETE	D-5	OVERFLOW ROOF DRAIN, SAME AS D-10 EXCEPT WITH 2" EXTERNAL WATER DAM COLLAR	_	3"	_	_	
NICAL SYSTEM AND AFFECT HIS CONTRACT PRIOR TO ENTERING AND G THE CONTRACT; AFTER AWARDING THE CONTRACT ALL SUCH ITEMS RED FOR A COMPLETE SYSTEM READY FOR THE OWNER'S BENEFICIAL USE BE FURNISHED AND INSTALLED INCLUDING ALL SUCH DISCREPANCY ITEMS ONED ABOVE, AT NO ADDITIONAL COST TO THE OWNER AND PER LOCAL ABOVE, AT NO ADDITIONAL COST TO THE OWNER AND PER LOCAL ANUFACTURER'S RECOMMENDATIONS AND APPLICABLE STANDARDS THE ARCHITECT/ENGINEER'S APPROVAL. INSTALLATION OF ALL EQUIPMENT, CONTROL, PIPING AND RELATED SORIES SHALL BE PER BASIC OWNERS' STANDARDS. PLUMBING ACTOR IS TO FAMILIARIZE HIMSELF WITH THESE STANDARDS.	(2) ALL (3) COOF (4) SHOV PER (5) NO U (6) FLOC JURI (7) DISAF REST (8) PROV (9) PROV	HANDICAPPED FIXTURES SHALL BE APPROVED FOR USE BY DIS FIXTURES SHALL COMPLY WITH LOCAL WATER CONSERVATION AC RDINATE WITH ARCHITECTURAL FOR EXACT LOCATION OF ALL PLU WERS SHOULD BE EQUIPPED WITH FLOW CONTROL DEVICES TO SHOWERHEAD. JNDERGROUND WASTE PIPING LESS THAN 2". OR DRAINS WITHOUT RECEIVING CONTINUOUS WATER SHALL HAVE SDICTIONS. BLED ACCESS WATER CLOSET TRIP LEVERS SHALL BE MOUNTED ROOMS. /IDE INTEGRAL STOPS ON ALL TUB/SHOWER VALVES. /IDE LISTED WATER HAMMER ARRESTERS TO SERVE THE PUBLIC 10. WATER HAMMER SHALL BE ENCASED IN WALL OR CEILING. EXPOSED PLUMBING FIXTURE FITTINGS SHALL BE CHROME PLAT	T REQUIRE UMBING FIX LIMIT TOTAL TRAP PRI ON THE V TOILET RO	MENTS. TURES. L FLOW TO A MERS PER S VIDE SIDE FO	PEC. AND	LOCAL AFF OR PU	UBLIC



## B-20-0078

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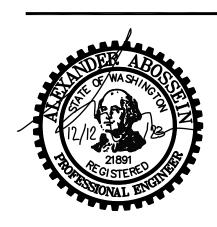
SHEET INDEX				
SHT.	DESCRIPTION			
P1.0 P2.0 P3.0 P4.0 P5.0 P6.0 P7.0	GENERAL NOTES, LEGEND, SCHEDULES & DETAILS 1ST FLOOR PLANS – PLUMBING 2ND FLOOR PLANS – PLUMBING 3RD FLOOR PLANS – PLUMBING 4TH FLOOR PLANS – PLUMBING ROOF PLAN – PLUMBING RISER DIAGRAMS PLUMBING			
P8.0	PLUMBING SPECIFICATIONS			



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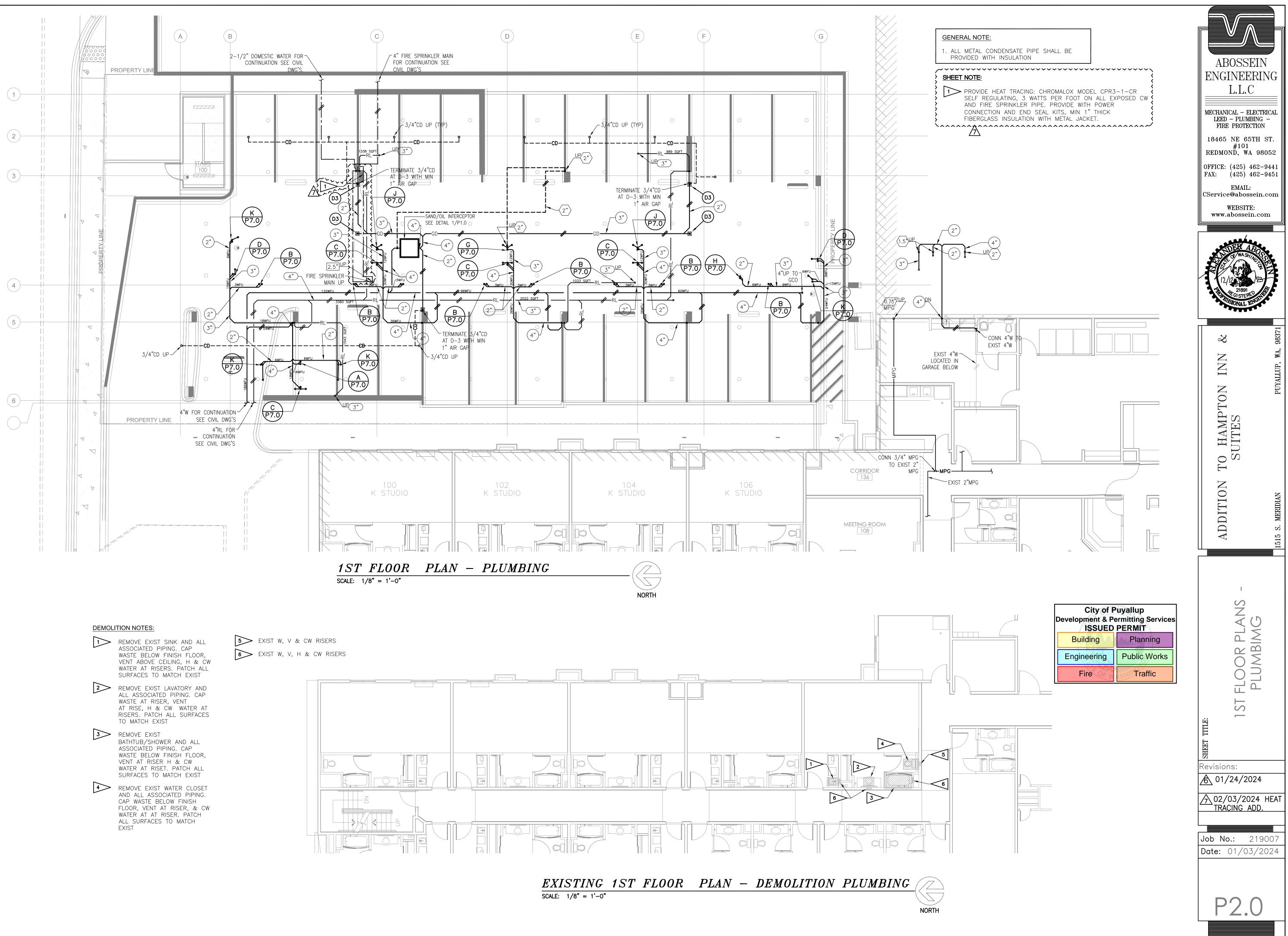


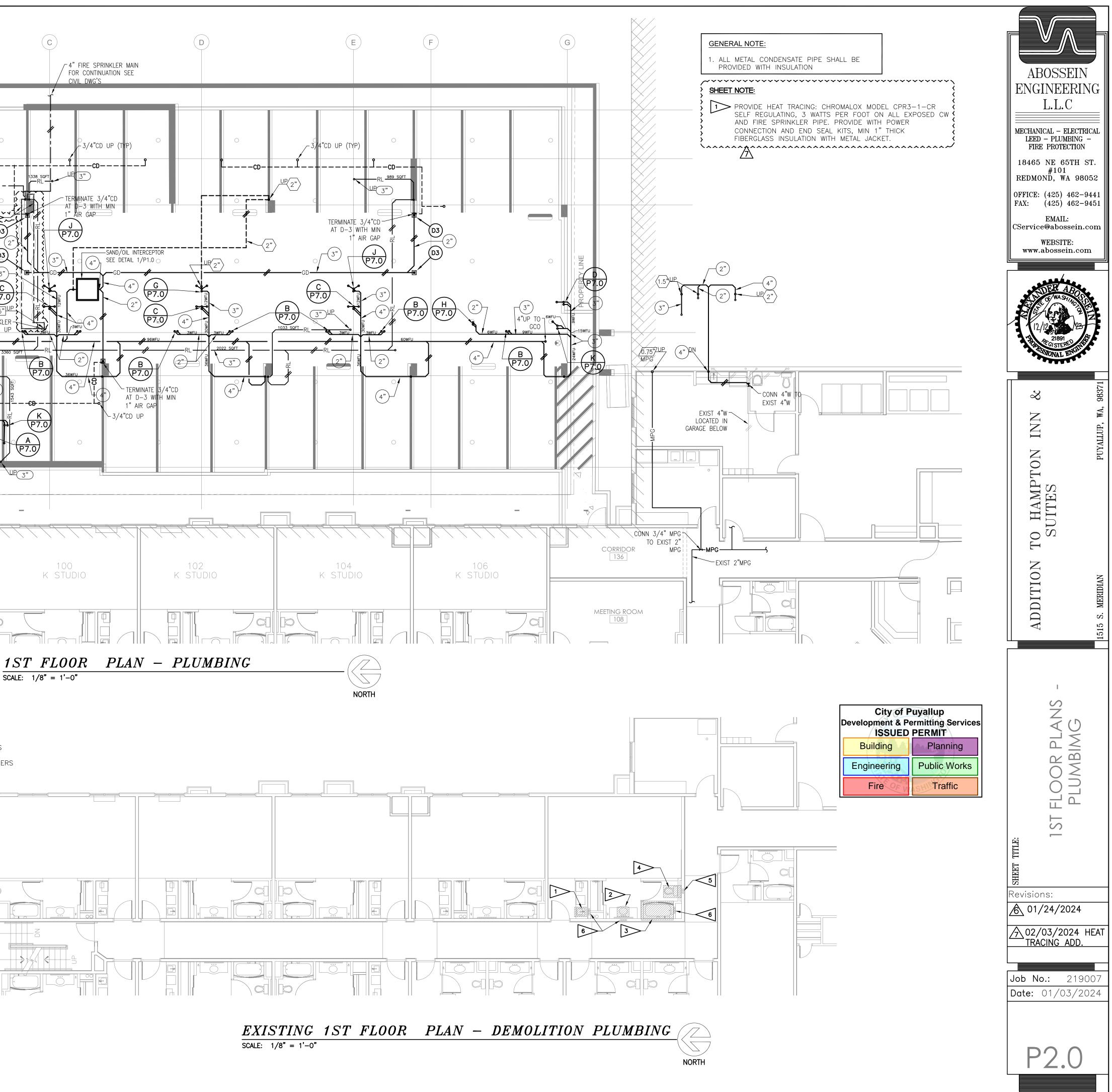


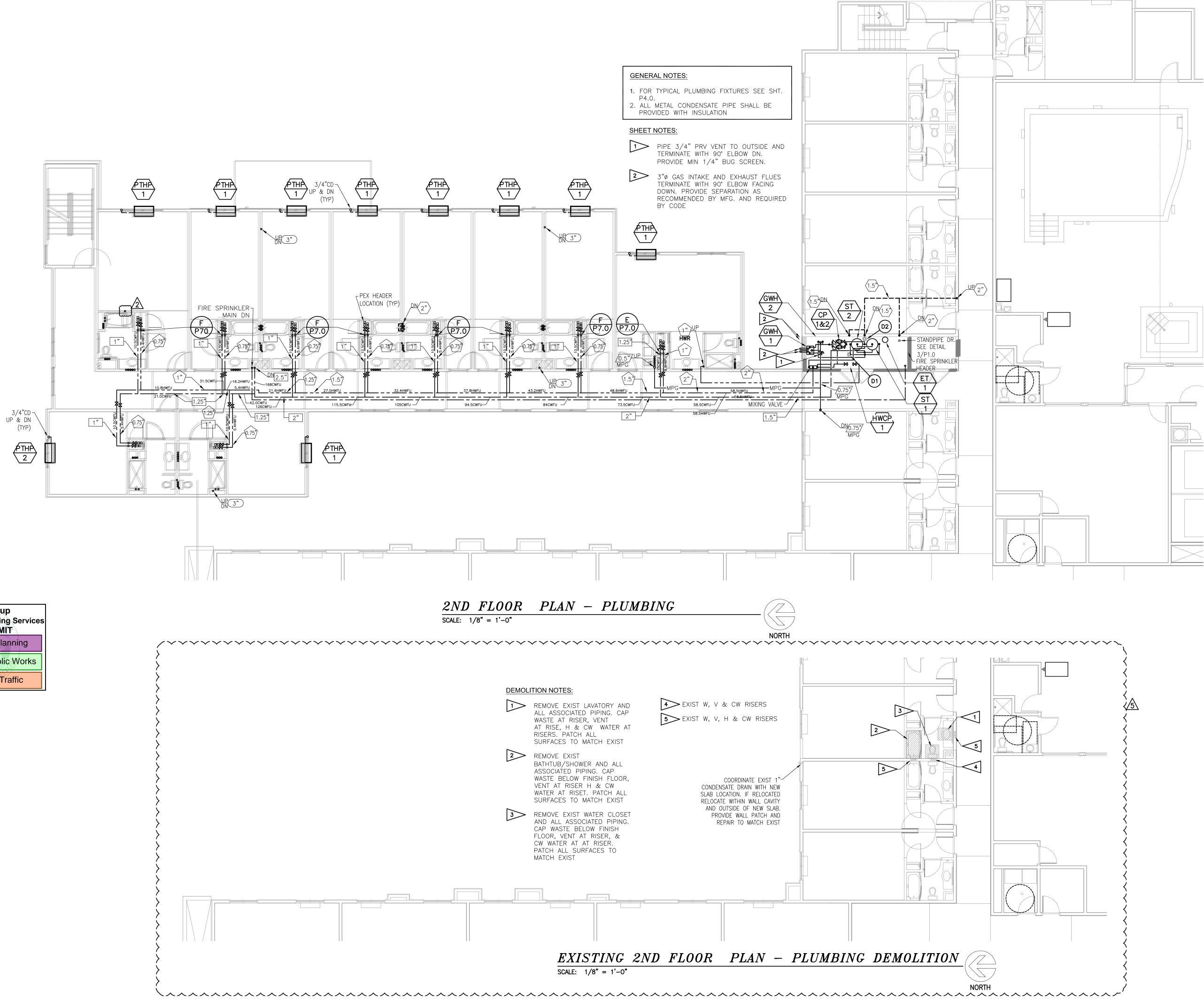
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P1.0

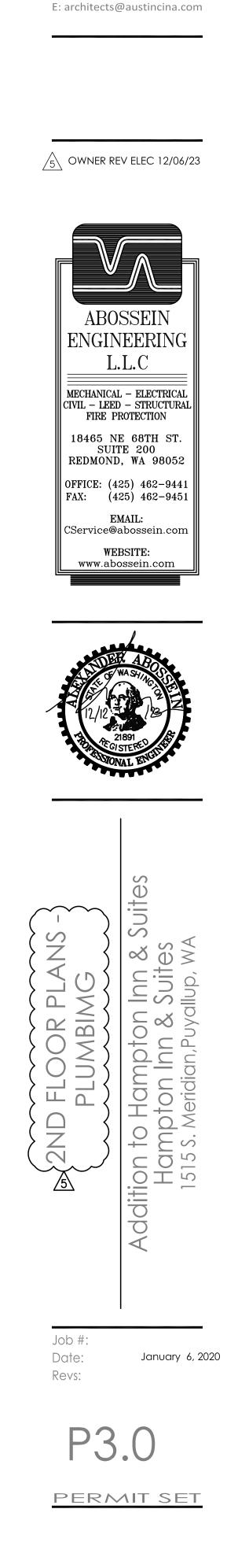






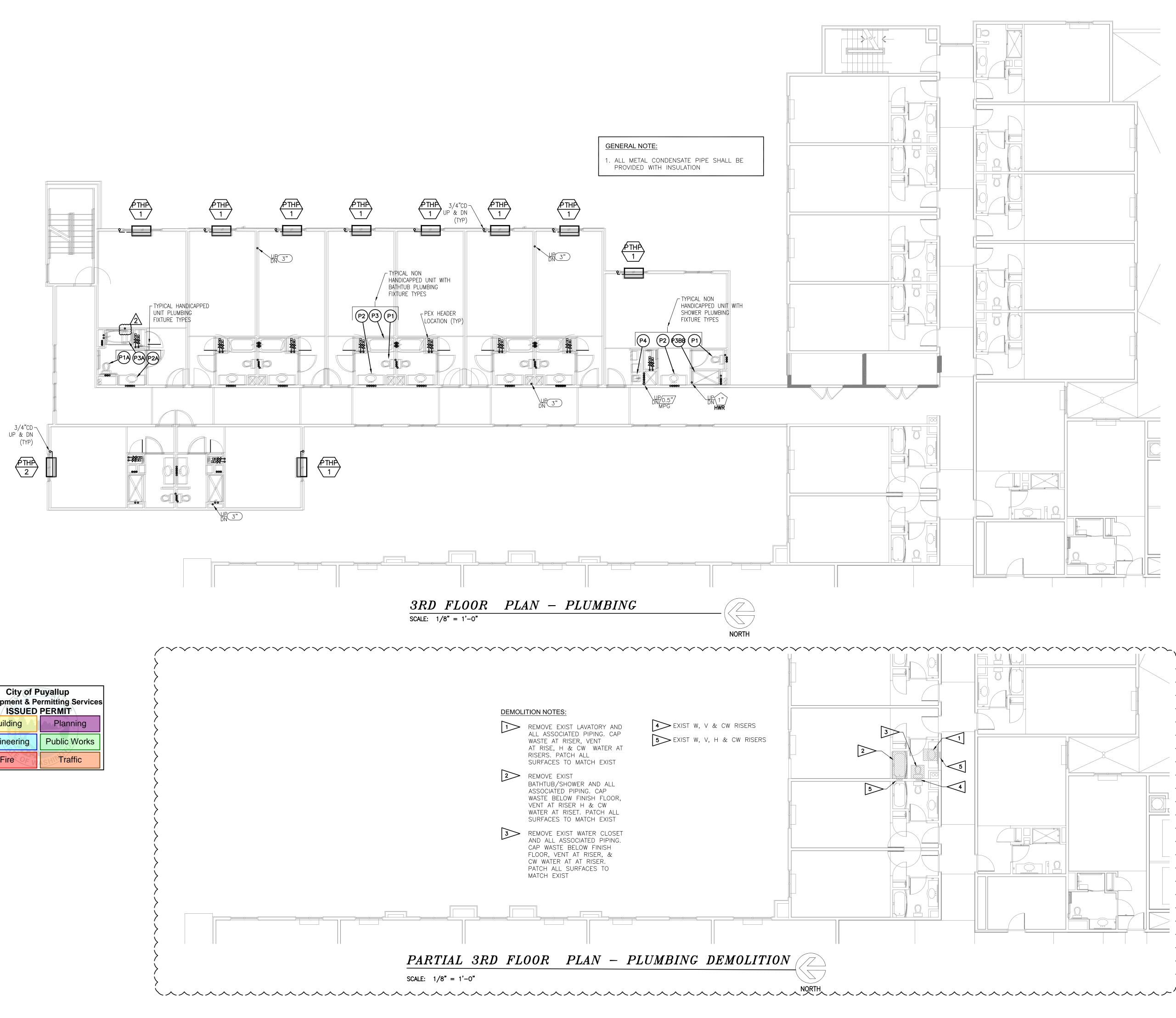
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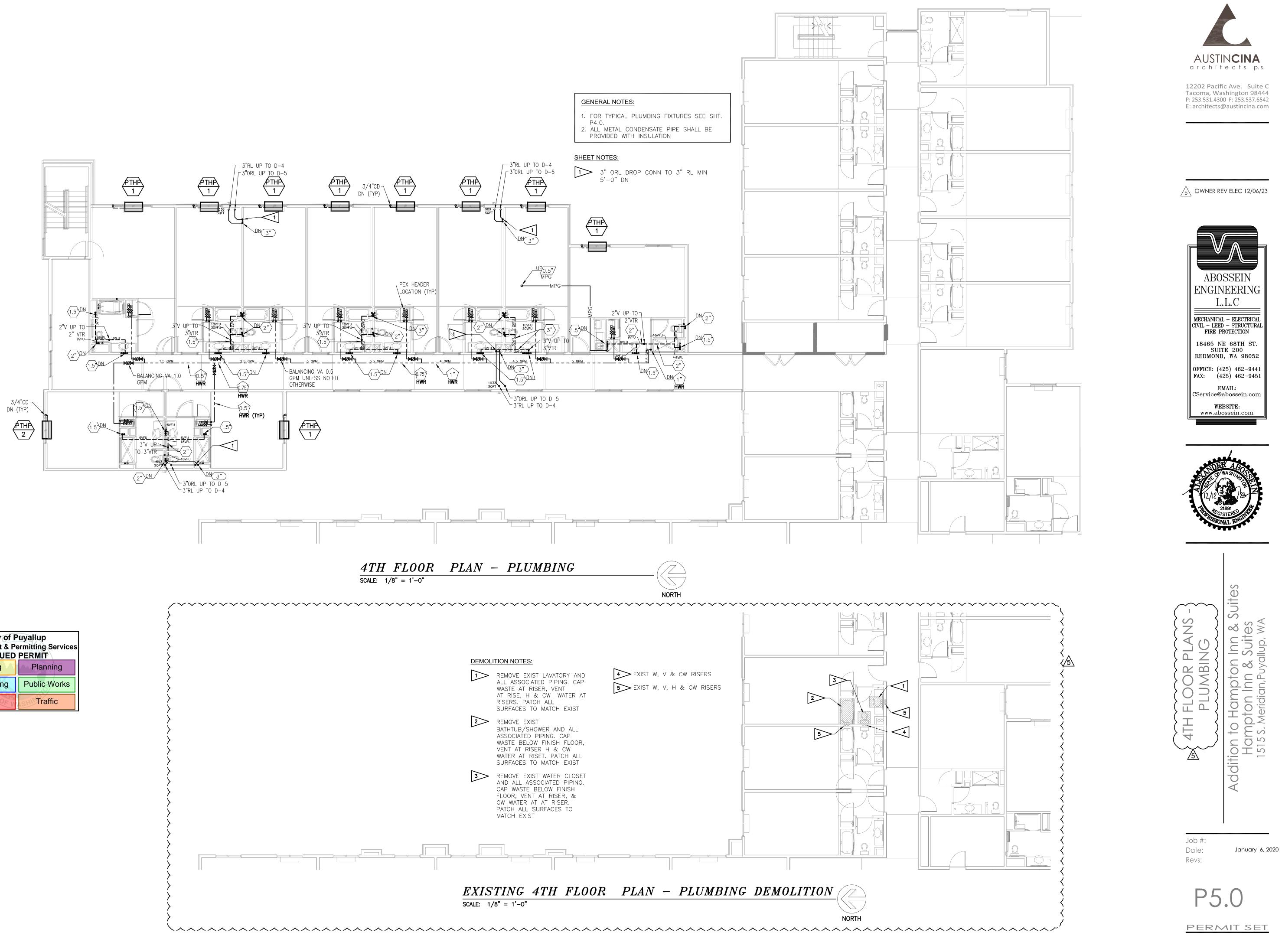
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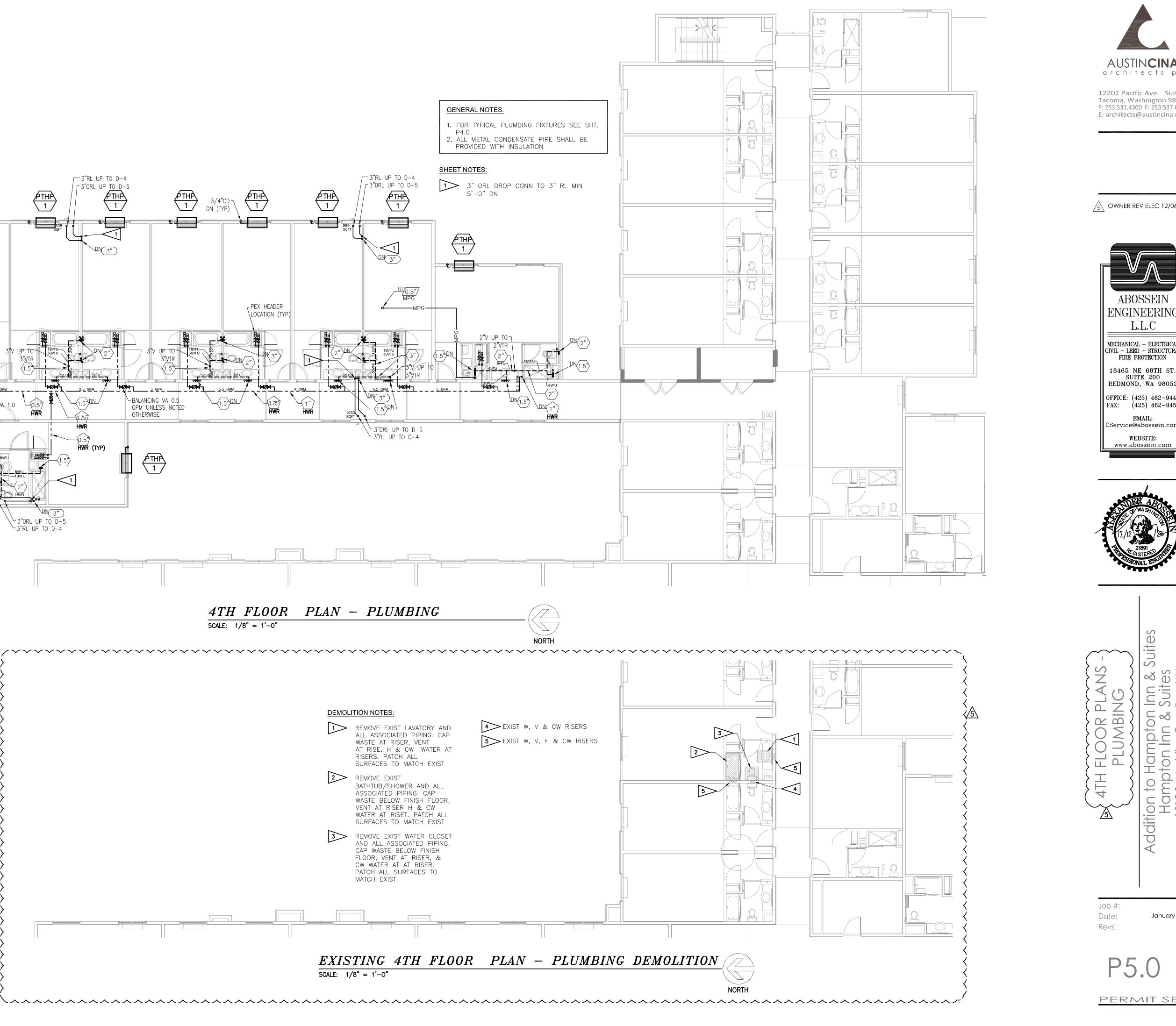
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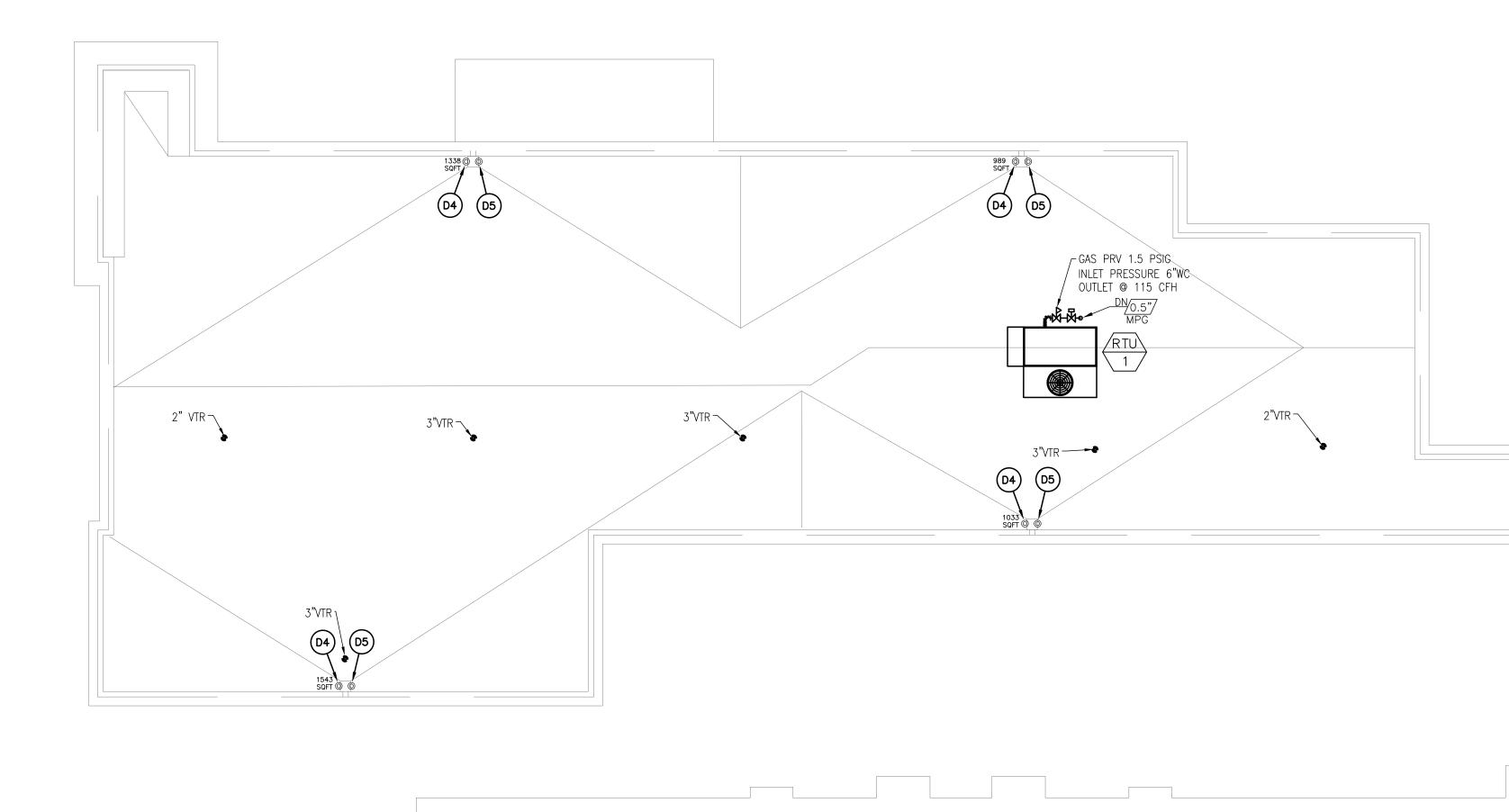
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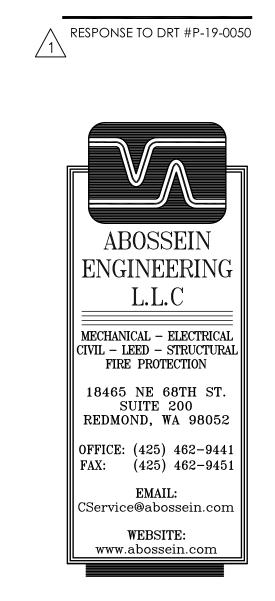


ROOF PLAN - PLUMBING SCALE: 1/8" = 1'-0"

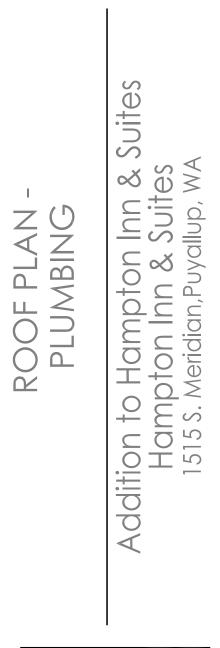




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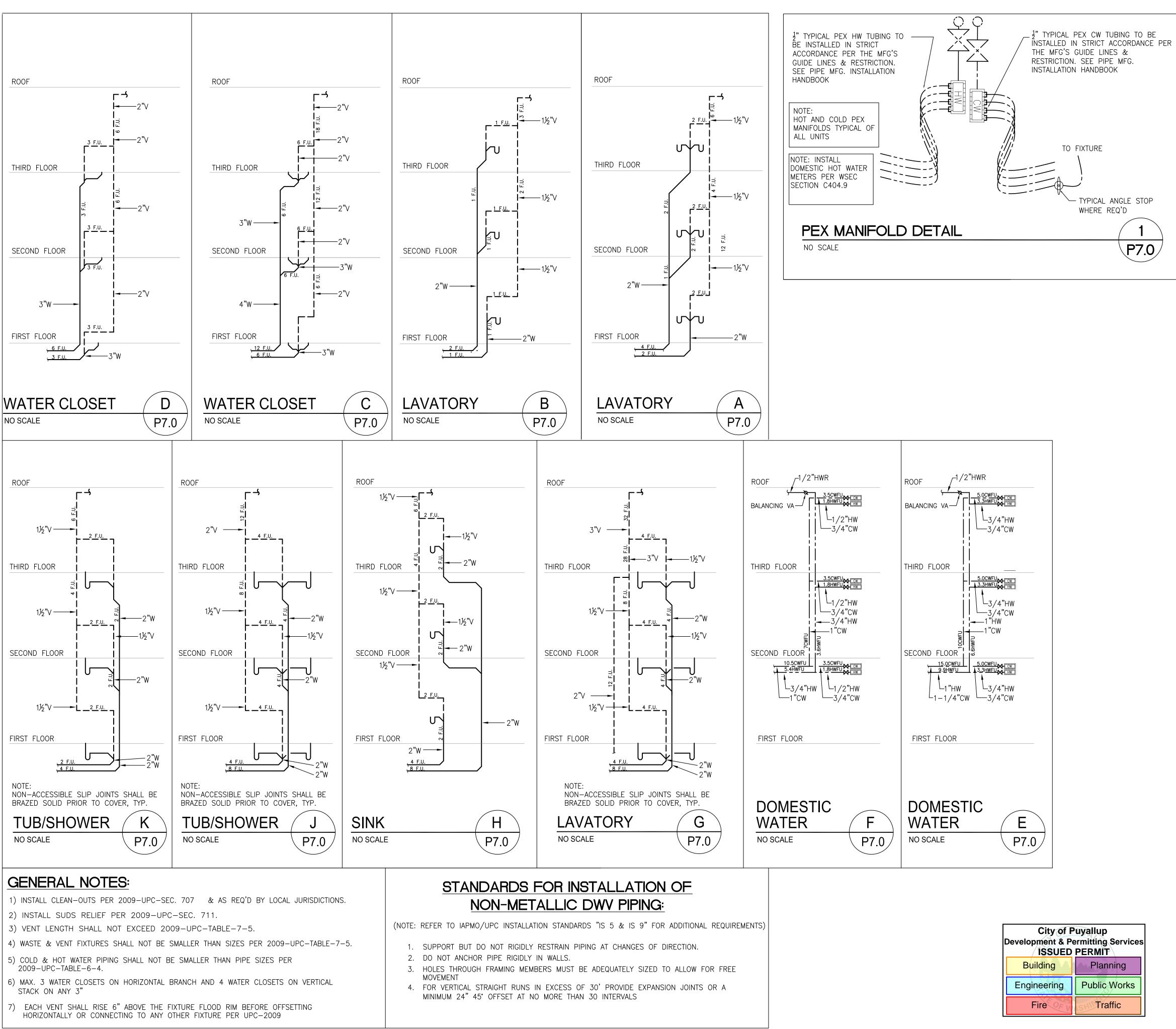


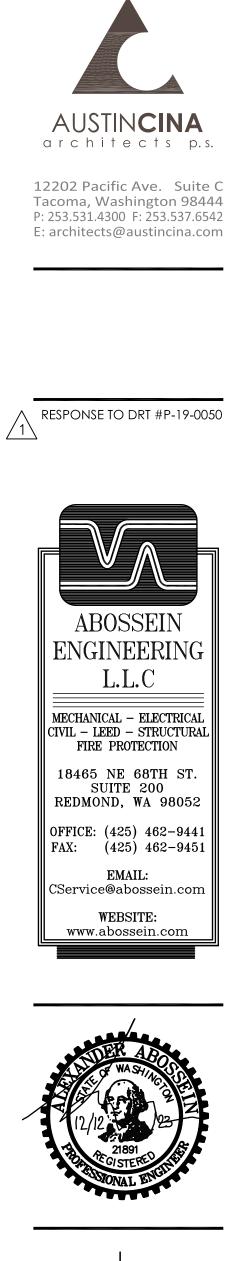
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City of Puyallup Development & Permitting Services ISSUED PERMIT			
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Fire	Traffic		

1.01	LOCAL CONDITIONS: VISIT AND INSPECT THE PREMISES TO ASCERTAIN THE EXISTING CONDITIONS BEFORE SUBMITTING A BID. NO EXTRA PAYMENT WILL BE ALLOWED FOR THE LACK OF KNOWLEDGE OF THESE
1.02	CONDITIONS. CODES: STRICTLY COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
	IMC — International Mechanical Code UPC — Uniform Plumbing Code
1.03	IFGC — International Fuel Gas Code STANDARDS: THE FOLLOWING PUBLICATIONS (LATEST EDITION) FORM A PART OF THESE REQUIREMENTS TO THE EXTENT INDICATED BY THE REFERENCES THERETO:
	NFPA PAMPHLET 54 GAS APPLIANCES & GAS PIPING NFPA PAMPHLET 90A AIR CONDITIONING & VENTILATION SYSTEMS
1.04	PLANS AND SPECIFICATIONS: THE PLUMBING DRAWINGS ARE DIAGRAMMATIC IN CHARACTER INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, ETC., AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND OUTLETS. DETERMINE THE EXACT LOCATION OF THE ELEMENTS OF THE SYSTEM FROM THE STRUCTURE AND FROM THE EQUIPMENT, NOT FROM THE DRAWINGS. DO NOT SCALE DRAWINGS FOR MEASUREMENTS NOR USE AS SHOP DRAWINGS.
1.05	PROVIDE ALL ITEMS, EQUIPMENT, MATERIALS, OPERATIONS, OR METHODS LISTED, MENTIONED OR SCHEDULED ON THE DRAWINGS, AND/OR HEREIN INCLUDING ALL INCIDENTALS AND ACCESSORIES NECESSARY AND REQUIRED FOR INSTALLATION OR MOUNTING, OR NORMALLY SUPPLIED BY COMMON PRACTICE WHETHER SPECIFICALLY MENTIONED OR NOT, TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING SYSTEMS.
1.06	BRING ANY NON-COMPLIANCES WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS, CONFLICTS AND DISCREPANCIES TO THE ENGINEER'S ATTENTION BEFORE SUBMITTING BID. A CORRECT, COMPLETE AND EASILY MAINTAINED SYSTEM IS INTENDED.
1.07	THE CONTRACTOR'S BID WILL BE CONSTRUED AS AN AGREEMENT TO COMPLETE THE WORK WITHOUT ADDITIONAL COST TO THE OWNER. WHERE CONFLICTS BETWEEN PLANS AND SPECIFICATIONS OR CONFLICTING INFORMATION ON THE PLANS OCCURS, THE CONFLICTS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO BIDDING. THE MORE COSTLY ALTERNATIVE SHALL BE INCLUDED IN THE BID PRICE.
1.08	MAKE NO CHANGES IN THE WORK SPECIFIED, UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY THE OWNER, ARCHITECT AND/OR ENGINEER. NO CHARGES FOR EXTRA WORK WILL BE PAID UNLESS SUCH EXTRA WORK HAS BEEN AUTHORIZED AND THE AUTHORIZATION CONTAINS A STATEMENT OF THE WORK TO BE ACCOMPLISHED AND THE CHARGES TO BE MADE FOR THE WORK.
1.09	THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC IN NATURE. IT DOES NOT NECESSARILY REPRESENT ALL FITTINGS, HANGERS, ETC. REQUIRED FOR A COMPLETE WORKING SYSTEM. PROVIDE ALL MATERIALS AND LABOR FOR COMPLETELY FINISHED AND OPERATIONAL SYSTEMS.
1.10	REFER TO LATEST ARCHITECTURAL DRAWINGS FOR: EXACT WALL LOCATIONS, DIMENSIONS, AND PLUMBING FIXTURE LOCATIONS AND REQUIREMENTS.
	CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ALTERATIONS REQUIRED BY THE OWNER, ARCHITECT, OR FIELD CONDITIONS. ALL EQUIPMENT SHALL BE NEW, SHALL COMPLY WITH SPECIFICATIONS ON DRAWINGS, AND
	SHALL COMPLY WITH ENERGY CONSERVATION CODE REQUIREMENTS AS ADOPTED BY THE STATE, AS WELL AS LOCAL JURISDICTIONAL BUILDING DEPARTMENT. SUBMIT DATA FOR APPROVAL PRIOR TO ORDERING EQUIPMENT. SUBMITTAL SHALL INCLUDE ENERGY CODE COMPLIANCE CERT- IFICATION.
1.13	THE CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS, INCLUDING: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND FOOD SERVICE, FOR ALL COORDINATION AND REFERENCE DATA. COORDINATE INSTALLATION WITH WORK OF OTHER TRADES.
1.14	DURING BID PERIOD: INVESTIGATE AND VERIFY EXISTING CONDITIONS, EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF EXISTING UTILITIES AND PIPING. BRING ANY DISCREPANCIES TO ATTENTION OF ARCHITECT AS SOON AS POSSIBLE.
1.15	REVIEW ELECTRICAL LAYOUT, ROUTING OF UNDERGROUND ELECTRICAL UTILITIES INCLUDING POWER AND TELEPHONE, NEW AND EXISTING UNDERGROUND ELECTRICAL CONDUIT LINES, PRIOR TO START OF WORK.
1.16	CONSULT WITH ALL TRADES AND DETERMINE EXTENT OF PLUMBING WORK DURING BID PERIOD. EXTEND ALL SERVICES TO LOCATIONS DESIGNATED AND REQUIRED, FURNISH ALL MATERIALS, AND PAY ALL COSTS NOT FURNISHED BY OTHERS.
1.17	IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A MECHANICAL SYSTEM COMPLETE, FULLY ADJUSTED, AND READY FOR OWNER'S BENEFICIAL USE.
1.18	IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY TO USE." MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.
1.19	THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS, IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION OF HIS WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR WORK.
1.20	THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.
	<b>PRODUCTS</b> MATERIALS AND EQUIPMENT SUBSTITUTIONS: THE BID PRICE SHALL BE BASED ON THE MATERIALS, EQUIPMENT AND/OR SERVICES AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN, AND/OR AS ACCEPTED PRIOR TO BIDDING.
2.02	ACCEPTANCE OF ALTERNATE OR SUBSTITUTE EQUIPMENT IN NO WAY VOIDS MATERIAL OR PERFORMANCE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ANY MATERIAL OR EQUIPMENT SUBSTITUTED FOR SPECIFIED ITEMS ACCEPTED BY THE ARCHITECT AND/OR ENGINEER BEFORE OR AFTER THE BID DATE. CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY SUBSTITUTE EQUIPMENT IN THE SYSTEM DESIGN.
2.03	CONTRACTOR SHALL PAY FOR ALL EXTRA COSTS BY ANY TRADE FOR CHANGES NECESSITATED BY MATERIAL OR EQUIPMENT SUBSTITUTIONS REGARDLESS OF ACCEPTANCE WITHOUT FURTHER COST TO THE CLIENT.
2.04	INSULATION ON HEAT TRACED 115° DOMESTIC HOT WATER PIPE SHALL BE AS FOLLOWS: 1/2"-1" - 1" THICK INSULATION, $1-1/4"-2"$ PIPE $-1-1/2"$ THICK INSULATION, $2-1/2" - 2"$ THICK INSULATION ALL OTHER DOMESTIC WATER PIPING $-1"$ THICK INSULATION, DOMESTIC COLD WATER PIPING $-$ "THICK INSULATION.
2.05	PROVIDE A 115° ELECTRIC HEAT TRACE (HWAT-G2) SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MFG. INSTRUCTIONS. INCLUDE END KITS, SPLICE KITS, TEE KITS AND LTHER MATERIAL NECESSARY FOR A COMPLETE SYSTEM. TRACE PIPING FROM HEATING MIXING VALVES TO INDIVIDUAL ISOLATION VALVES. PIPING WITHIN UNIT FROM ISOLATION VALVES TO FIXTURES SHALL NOT BE TRACED. ALL CONNECTIONS SHALL BE MADE BY THE ELECTRICAL
2.06	CONTRACTOR. DOMESTIC WATER PIPING ABOVE GROUND SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTIN OR PEX. JOINTS AND CONNECTIONS SHALL BE COMPLETED WITH 95 PER- CENT TIN, 5 PERCENT ANTIMONY OR PE JOINTS. WATER PIPING BELOW GROUND SHALL BE TYPE "K", NON-METALIC CPVC "GOLD" (OR EQUAL) MAY BE USED IN-LIEU OF COPPER PIPING IF ITEMIZED AS A "DEDUCT" IN BID AND SUBMITTED FOR THE OWNER'S CONSIDERATION
2.07	IN-LIEU OF COPPER PIPING IF ITEMIZED AS A "DEDUCI" IN BID AND SUBMITTED FOR THE OWNER'S CONSIDERATION WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH NO HUB FITTINGS. PVC OR APPRO'NON-METALIC PIPING SHALL BE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE. ALTERNATES SHALL BE SUBM OWNER AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO START OF WORK. NON-METALIC PIPING MAY BE U UNDERGROUND HOWEVER ABOVE GROUND PIPING (AND PROPERLY FIRE STOPPED) WHERE APPROVED BY LOCAL JUR SHALL BE ITEMIZED "DEDUCT" IN BID FOR OWNER'S CONSIDERATIONS. IF ALLOWED AND USED ABOVE GRADE SOUND INSULATION SHALL BE PROVIDED.
2.08	INSULATION SHALL BE PROVIDED. INSULATE ALL PIPING, VALVES, AND FITTINGS FOR DOMESTIC COLD, HOT AND RECIRC. LINES WITH (1/2" CW, 1" HW & RECIRC) PRE-FORMED FIBERGLASS INSULATION WITH "K" FACTOR OF 0.30 MAXIMUM AT 200 deg. F. MEAN TEMPERATURE. PROVIDE ALL SERVICE, SELF LAP JACKET, AND VAPOR BARRIER. INSULATE CONDENSATE DRAINS W/\" ARMAFLEX #22 OR "JM" AEROTUBE INSULATION. PROVIDE ADDITIONAL INSULATION IN AREAS SUBJECT TO FREEZING. SEE SPECIFICATION FOR TRACED-LINE

2.09	NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT, AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY HIM.		3.27 ACCESS DOORS AND PANELS AND/OR AS REQUIRED FOR DOOR OR SIZE IS NOT SHOW
2.10	PROVIDE WEATHERPROOF FLASHING AT ALL DUCT, PIPE, ETC., MECHANICAL PENETRATIONS THROUGH THE BUILDING WALLS AND ROOF. FLASHING SHALL BE DESIGNED AND INSTALLED PER SMACNA AND SHALL BE GUARANTEED WEATHER PROOF FOR THE DURATION OF THE GUARANTEE.		<ul><li>3.28 PIPING INSTALLATION: ARRANG DIRECT AS POSSIBLE. FORM</li></ul>
2.11	ALL INSULATION SHALL HAVE A COMPOSITE (INSULATION, JACKET OR FACING, AND ADHESIVE) FIRE HAZARD RATING AS TESTED BY ASTM E-84, NFPA 255, OR UL 723, NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED. ACCESSORIES SUCH AS COATINGS, TAPES, AND ADHESIVES SHALL HAVE THE SAME COMPONENT RATINGS. ALL INSULATING MATERIALS OR THEIR		CHECK MECHANICAL DRAWING WHERE DEPARTURES FROM I ARCHITECT/ENGINEER BEFORI ETC., WILL NOT INTERFERE V
	CONTAINERS SHALL HAVE A LABEL INDICATING COMPLIANCE WITH THE ABOVE RATING. REFERENCE STANDARDS: NFPA D-255, A.S.T.M. E-84, UL-723, ASHRAE 90-75 AND THE STATE ENERGY CODE (IF APPLICABLE). ACCEPTABLE MANUFACTURERS: CERTAINTEED, OWENS- CORNING, KNAUF AND MANVILLE.		3.29 CUT PIPES ACCURATELY TO SPRINGING OR FORCING. PRO WITH FITTINGS. WHERE CHAN ENDS OF PIPELINES AND OT OUT OF THE SYSTEM. INSTAL
2.12	PIPE MATERIAL: COLD WATER AND HOT WATERCOPPER "L" (LEAD FREE) WASTE AND VENTCAST IRON (ABOVE GRADE) NOTE: JOINTS AND METHOD OF CONNECTIONS SHALL BE PER THE IPC-CHAPTER #13,		PIPES CLOSE TO WALLS, PAP LOCATE GROUPS OF PIPES F INSULATION AND TO PERMIT
2.13	ASTM STANDARDS AND MANUFACTURERS RECOMMENDATIONS FOR EACH PIPË TYPE AND APPLICATIONS. PIPE INSULATION:		5.30 CONCEAL ALL PIPING IN BUILT SHALL NOT CAUSE DELAY IN KEEP FIXTURE BRANCHES COT CHROME PLATED. INSTALL CH
	COLD WATER – 1/2" INSULATION WITH VAPOR BARRIER JACKETS. HOT WATER – 1/2" INSULATION WITH VAPOR BARRIER JACKETS FOR RUNOUTS UP TO 12 FEET, AND 1" INSULATION FOR ALL PIPING UP TO 2" DIAMETER. UNDERGROUND PIPING WITH 1" CLOSED CELL FOAM INSULATION.		PARTITIONS, AND FLOORS WHE .31 PROVIDE UNIONS OR FLANGES BETWEEN SHUT-OFF AND EQU
PART 3.00	EXECUTIONS		3.32 LOCATE PIPE SUPPORT HANGE AND NOT TO EXCEED 10 FT.
3.01	PERMITS AND INSPECTIONS: APPLY AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION REQUIRED FOR THE WORK, AND AT COMPLETION, PRESENT THE OWNER WITH THE SIGNED CERTIFICATES OF FINAL INSPECTION.		5.33 PROVIDE LINE SIZE VALVES W HORIZONTAL OR ABOVE THE L PIECE OF EQUIPMENT AND AT
3.02	UTILITIES: CHARGES BY UTILITY COMPANIES FOR PROVIDING SERVICES SHALL BE PAID BY OWNER AND WILL NOT BE A PART OF THIS CONTRACT. THE CONTRACTOR SHALL DO INSTALLATION WORK NORMALLY PROVIDED IN THIS CONTRACT.		5.34 JOINTS TAPERED THREADS OF SCREW PIPE JOINT COMPOUND OR TA
	PLACE AND ARRANGE EQUIPMENT, PIPING, CONTROLS, ETC., TO FIT THE SPACE AVAILABLE. INCLUDING ALL OFFSETS IN PIPING, ETC. REQUIRED.		5.35 CUT COPPER TUBING SQUARE WITH STEEL WOOL BEFORE SV COMPOSITION LEAD FREE SOL
3.04	SUBMIT SHOP DRAWINGS FOR ALL PLUMBING FIXTURES, HOT WATER HEATERS, PUMPS, SPECIALITIES, CONTROL WIRING DIAGRAM FOR PUMP CONTROL.		5.36 FIXTURE INSTALLATION: PROVID
3.05	THE ENGINEER'S CHECK SHALL BE GENERAL, AND DOES NOT RELIEVE THE CONTRACTOR OF FINAL RESPONSIBILITY OF COMPLIANCE TO THE INTENT OF THE PLANS AND SPECIFICATIONS.		CONSTRUCTION USED. COVER WORK. INSTALL SUCH GUARDS CONSTRUCTION. PROVIDE STOP
	SUPERVISION AND WORKMANSHIP: QUALIFIED SUPERVISION FOR EACH TRADE SHALL BE IN CHARGE OF THE WORK AT ALL TIMES AND SHALL BE ON THE JOB SITE WHENEVER WORK IN THAT TRADE IS BEING ACCOMPLISHED.		UNIONS AT EACH FIXTURE TO SHALL BE MOUNTED IN ACCO ON THE DRAWINGS. SEAL WAT
	ALL WORK SHALL BE DONE IN A FIRST-CLASS MANNER BY WORKMEN SKILLED IN THE TRADE AFFECTED. CLEANING PIPING & EQUIPMENT, TESTING:		
	PLUG ALL NECESSARY OPENINGS OF THE ENTIRE DRAINAGE AND VENTING SYSTEM TO PERMIT THE COMPLETE SYSTEM OR PORTION THEREOF TO BE FILLED WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK ABOVE THE ROOF OR A VERTICAL STACK MAY BE FILLED WITH WATER TO A HEIGHT OF 10 FT. ABOVE THE HIGHEST HORIZONTAL RUN TO BE TESTED. THE SYSTEM SHALL MAINTAIN THE WATER LEVEL WITHIN 1 IN. WHEN TESTED FOR		BUILDING DEPARTMENT AND T AS NECESSARY TO PRECLUDE 5.38 GAS PIPING INSTALLATION: INS TO LOCAL CODES. PROVIDE A
7.00	30 MINUTES. WHEN AN AIR TEST IS USED, APPLY A PRESSURE OF NOT LESS THAN 5 PSI WITH A FORCE PUMP AND MAINTAIN AT LEAST 15 MINUTES WITHOUT LEAKAGE WHEN TESTED WITH A MERCURY COLUMN GAUGE.	3.	39 PIPE INSULATION: INSULATE ALI
5.09	CLEAN ALL EQUIPMENT, PIPE, VALVES AND FITTINGS OF GREASE, METAL CUTTINGS, DIRT AND SLUDGE THAT MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING. REPAIR ANY STOPPAGE OR DAMAGE TO PARTS OF THE BUILDING, TO IT'S FINISH OR FURNISHINGS DUE TO THE CONTRACTOR'S FAILURE TO PROPERLY CLEAN THE PIPING SYSTEM WITHOUT COST TO THE OWNER. ADJUST THE HOT WATER SYSTEM FOR UNIFORM FLOW. ADJUST FLUSH VALVES AND OTHER PARTS OF THE SYSTEM FOR QUIET OPERATION. AFTER CLEANING THE POTABLE WATER SYSTEM, OR PART THEROF, FILL WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALLOW TO STAND FOR SIX (6) HOURS BEFORE FLUSHING.		WITH GLASS FIBER INSULATION. FLANGES, STRAINERS, FLEXIBLE SURFACES WITH EDGES FIRMLY AND FLOORS. FINISH INSULATIC PRE-MOLDED GLASS FIBER FIT
3.10	COMPLETION: OPERATE ALL PLUMBING SYSTEMS, INCLUDING ALL EQUIPMENT FURNISHED UNDER THIS DIVISION TO PROVE THAT ALL COMPONENTS ARE PROPERLY OPERATING AND THAT THE COMPLETE INSTALLATION IS	3.	40 KITCHEN EQUIPMENT CONNECTION PLUMBING CONTRACTOR SHALL SERVICE EQUIPMENT.
	FUNCTIONING SMOOTHLY AND NOISELESSLY TO THE FULL EXTENT OF PLANS AND SPECIFICATIONS. ANY REBALANCING, READJUSTING OF SYSTEM ELEMENTS FOUND NECESSARY WHEN THE SYSTEMS ARE SUBJECT TO ACTUAL OPERATING CONDITIONS SHALL BE DONE BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.		41 PLUMBING CONTRACTOR SHALL BETWEEN STUB-OUT POINT AN
3.11	OPERATING INSTRUCTIONS: PROVIDE TYPEWRITTEN OPERATING INSTRUCTIONS IN THE BROCHURE COVERING EACH PIECE OF PLUMBING	3.	42 PLUMBING CONTRACTOR SHALL OTHER ACCESSORIES THAT ARE FINAL CONNECTIONS TO THE E
3.12	EQUIPMENT, GIVE NORMAL STARTING AND STOPPING PROCEDURES, ALONG WITH PROPER PARTIES TO CONTACT IN THE EVENT OF EMERGENCY, FAILURE OF EQUIPMENT. OUTLINE OF INSTRUCTIONS AS FOLLOWS: AS-BUILT DRAWINGS: SUBMIT AS-BUILT DRAWINGS AT COMPLETION OF WORK.	3.	APPLICABLE CODES AND ORDIN 43 ALL INDIRECT DRAIN LINES FRO AND INSTALLED BY THE PLUME VERIFY ROUTING OF DRAIN LINI
3.13	GUARANTEE: THE PLUMBING SYSTEM SHALL BE LEFT IN PROPER WORKING ORDER. REPLACE ANY WORK, MATERIAL OR EQUIPMENT PROVIDED UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION WITHOUT ADDITIONAL CHARGES. A NEW ONE (1) YEAR GUARANTEE ON THE AFFECTED ITEM OR ITEMS SHALL BE PROVIDED COMMENCING ON THE DATE OF THE APPROVED REPAIR OR REPLACEMENT.		INSULATE DRAINS SERVICE FRE 44 NO KITCHEN FAUCETS WILL BE PLUMBING DRAWINGS. 45 CAREFULLY REVIEW ALL PLUMB
3.14	OR REPLACEMENT. CUTTING AND PATCHING: CAREFULLY PERFORM ALL WORK WHERE CUTTING, CHANNELING, CHASING, OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES IS NECESSARY FOR PROPER INSTALLATION OR SUPPORT OF PIPING, OR OTHER PLUMBING EQUIPMENT.		INSTRUCTIONS REGARDING THE SIBILITIES. MAKE ALL REQUIRED REVIEW THIS PORTION OF THE PRIOR TO COMMENCEMENT OF
3.15	ANY DAMAGE TO BUILDING, PIPING, EQUIPMENT, PLASTER, WOODWORK OR METAL WORK SHALL BE REPAIRED BY SKILLED MECHANICS OF TRADES INVOLVED, AT NO ADDITIONAL COST TO THE OWNER.	3.	46 PLUMBING CONTRACTOR SHALL EQUIPMENT.
3.16	DO NOT CUT, CHANNEL, CHASE OR DRILL MASONRY OR TILE; OR CUT, DRILL OR WELD STRUCTURAL MEMBERS OF THE BUILDING, ETC., WITHOUT FIRST OBTAINING ARCHITECT'S PERMISSION, IF PERMISSION IS GRANTED, PERFORM THIS WORK IN A MANNER APPROVED BY THE ARCHITECT.	3.	47 PRIOR TO ROUGH-IN OF ANY KITCHEN WHERE APPLICABLE E AND CONFER WITH ARCHITECT,
3.17	CAULKING & WATERPROOFING: CAULK AROUND ALL PIPES, ETC. TO PREVENT AIR AND MOISTURE LEAKAGE WITH COMPOUND APPROVED BY ARCHITECT/ENGINEER.	2.	AND CLARIFICATIONS. 48 ALL VENT LINES SHALL BE SLO
3.18	SEAL AROUND ALL PIPES WITH FIREPROOF CAULKING OR GROUT WHERE THEY PASS THROUGH FLOORS, FIREWALLS, AND SHAFTS.	3.	FIXTURE IN ORDER TO PREVEN 49 ALL DRAINAGE LINES SHALL BE OTHERWISE SHOWN OR NOT AL
3.19	PROVIDE FLASHINGS WHERE ALL PIPES PIERCE OUTSIDE WALLS OR ROOF AS NECESSARY TO PREVENT MOISTURE ENTRY.	3.	50 PIPE SUPPORTS SHALL BE ADJ PIPE AND COPPER ELECTROPLA
3.20	INSERTS, SLEEVES & BLOCKOUTS: FURNISH AND INSTALL, PRIOR TO CONCRETE POURING OR OTHER CONSTRUCTION, INSERTS, SLEEVES, OR BLOCKOUTS IN WALLS, FLOOR SLABS, ROOFS AND PARTITIONS FOR PASSAGE OF ALL WORK INSTALLED UNDER THIS DIVISION.		PORTING RODS. UPPER ATTACH TO EXISTING STRUCTURE. SUPF DIAMETERS PER APPLICABLE CO SOLID RODS AT EACH HANGER.
3.21	PROVIDE GALVANIZED IRON AND STEEL PIPE SLEEVES FOR IRON PIPES. USE COPPER SLEEVES FOR COPPER PIPES. PROVIDE WOOD OR STEEL BLOCKOUTS FOR LARGE OPENINGS. SECURE ALL SUCH ITEMS FIRMLY IN POSITION.	3.	SEIEMIC REQUIREMENTS. INSULA 51 THIS CONTRACTOR SHALL PROV OR AS REQUIRED FOR COMPLE ALL EQUIPMENT INCLUDING EQU
3.22	TRENCHING AND BACKFILLING: PERFORM ALL TRENCHING AND BACKFILLING REQUIRED BY WORK PERFORMED UNDER THIS DIVISION. TRENCHING AND BACKFILLING DONE IN ACCORDANCE WITH "EXCAVATING AND GRADING" SPECIFICATIONS AND AS HEREIN SPECIFIED. TRENCHES SHALL BE EXCAVATED TO THE DEPTH REQUIRED FOR		52 SOIL, WASTE, AND VENT SYSTEI DROP. POTABLE WATER PIPES, STATICALLY TESTED AT 100 p.s
3.23	THE UTILITIES INVOLVED. THE TRENCH BOTTOM SHALL BE FREE FROM STONES OR SOFT SPOTS. BACKFILLING PIPING TRENCHES AS SOON AS PIPING IS TESTED AND APPROVED BY THE ARCHITECT AND BUILDING INSPECTOR. BACKFILL FOR A DEPTH OF 12 IN. OVER THE TOP OF THE PIPING WITH SAND, OR CLEAN		53 ALL COLD AND HOT WATER SU CONCEALED IN WALLS UNLESS AND PROVIDE HEAT TAPE WHEF 54 FUEL GAS PIPING SHALL CONN
3.24	EARTH OF SPECIFIED BACKFILL MATERIAL. UNIFORMLY PLACE AND TAMP BACKFILL BY APPROPRIATE METHODS TO ENSURE PROPER ALIGNMENT OF PIPING TO AVOID INJURY TO THE INSTALLED MATERIALS. GRADE THE BOTTOM OF TRENCHES TO SECURE THE REQUIRED FALL WITH A UNIFORM PITCH AND ADEQUATE		6 in. DIRT LEG. ALL GAS LINES INSTALLATION SHALL COMPLY W 55 PIPING SHOWN ON THE DRAWIN
	WIDTH TO ENSURE PROPER INSTALLATION OF PIPING. REMOVE DIRT UNDER CAST IRON HUBS SO THAT THE ENTIRE PIPE BARREL RESTS ON FIRM EARTH. BRING OVER-EXCAVATED OR INADEQUATELY COMPACTED GROUND TO THE PROPER LEVEL WITH GRAVEL.		JOB CONDITIONS, WORK OF OT AUTHORITIES. NO ADDITIONAL C OTHER TRADES OR LOCAL COD
	REPAIR OF DAMAGE TO STREETS OR PARKING AREAS FOR THE INSTALLATION OF PIPING SYSTEMS SHALL BE INCLUDED IN THE CONTRACT PRICE IN THIS DIVISION.	3.	56 PLUMBING CONTRACTOR SHALL UTILITIES AND SHALL BE RESPO WHETHER SHOWN OR NOT HER
3.26	MEASUREMENT, LINES AND LEVELS: ESTABLISH AND MAINTAIN ALL GRADES AND LEVELS RELATIVE TO THE INSTALLED SYSTEMS. VERIFY GRADES AS INDICATED ON DRAWINGS BEFORE STARTING WORK. VERIFY LOCATIONS OF EXISTING SEWER LINES BEFORE STARTING WORK.		TATIVE PRIOR TO START OF WC

ELS: FURNISH AND INSTALL ACCESS DOORS OR PANELS AS SHOWN ON THE DRAWINGS R PROPER ACCESS TO ALL CONCEALED EXPANSION JOINTS, VALVES, ETC. IF ACCESS HOWN, PROVIDE A SIZE APPROPRIATE TO THE CONDITIONS, BUT IN NO CASE LESS

RANGE AND INSTALL PIPING APPROXIMATELY AS INDICATED, STRAIGHT, PLUMB AND AS RM RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS. PRIOR TO INSTALLATION, WINGS, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR INTERFERENCES. M INDICATED ARRANGEMENTS ARE REQUIRED, VERIFY PROPOSED CHANGES WITH THE FORE PROCEEDING. COORDINATE WITH ALL TRADES SO THAT PIPES, CONDUITS, DUCTS, WITH EACH OTHER.

O MEASUREMENT ESTABLISHED AT THE BUILDING, AND WORK INTO PLACE WITHOUT PROPERLY CLEAR ALL WINDOWS, DOOR AND OTHER OPENINGS. MAKE CHANGES IN DIRECTION HANGES IN PIPE SIZES OCCUR, USE ONLY REDUCING FITTINGS. CAP AND/OR PLUG OPEN OTHER EQUIPMENT DURING INSTALLATION TO KEEP DIRT OR OTHER FOREIGN MATERIAL STALL HORIZONTAL PIPING AS HIGH AS POSSIBLE WITHOUT SAGS OR HUMPS. KEEP PARTITIONS, CEILINGS, OFFSET ONLY WHERE NECESSARY TO FOLLOW WALLS AS DIRECTED. S PARALLEL TO EACH OTHER. SPACE PIPING AT DISTANCES TO PERMIT APPLYING FULL MIT ACCESS FOR SERVICING VALVES.

UILDING CONSTRUCTION OR UNDERGROUND IN FINISHED AREAS. THE PIPING INSTALLATION IN THE WORK OF OTHER TRADES. ALLOW AMPLE TIME FOR TESTS AND APPROVAL. CONCEALED TO POINTS ABOVE FLOOR CLOSE TO FIXTURES. EXPOSED PIPE SHALL BE CHROMIUM PLATED WALL AND CEILING PLATES ON ALL PIPES PASSING THROUGH WALLS, WHEREVER PIPING IS EXPOSED IN FINISHED PARTS OF THE BUILDING.

GES TO ALLOW REMOVAL OF EACH PIECE TO EQUIPMENT OR CONTROL DEVICE. LOCATE EQUIPMENT.

NGERS SPACED ON STRAIGHT RUNS NOT TO EXCEED 6 FT. FOR SIZES UP TO  $1 - \$  T. FOR SIZES 2" AND LARGER.

S WHERE INDICATED. VALVES IN HORIZONTAL LINES SHALL BE INSTALLED WITH STEMS E LINE. ISOLATION VALVES SHALL BE INSTALLED IN WATER LINES CONNECTED TO EACH AT ANY OTHER POINTS INDICATED.

REW JOINTS SHALL BE PROPERLY CUT. SEAL SCREWS JOINTS WITH AN APPROVED RETAPE APPLIED TO THE PIPE THREADS AND NOT THE FITTING.

ARE AND REMOVE BURRS. CLEAN BOTH INSIDE OF FITTINGS AND OUTSIDE OF TUBING SWEATING. DO NOT ANNEAL FITTINGS AND TUBING WHEN MAKING CONNECTIONS. USE SOLDER FOR ALL JOINTS.

DVIDE ALL HANGERS NECESSARY TO PROPERLY SECURE FIXTURES TO THE TYPE OF ER ALL FIXTURES WITH MANILLA PAPER. DO NOT REMOVE UNTIL COMPLETION OF THE RDS AND BOXING AS NECESSARY TO PROTECT FIXTURES AGAINST DAMAGE DURING STOPS ON THE SUPPY PIPING TO EACH FIXTURE WHETHER SPECIFIED OR NOT. PROVIDE TO PERMIT REMOVAL OF THE FIXTURE FOR REPAIR OR REPLACEMENT. ALL EQUIPMENT CORDANCE WITH MANUFACTURER'S ROUGH-IN MEASUREMENTS UNLESS OTHERWISE NOTED WATERTIGHT THE JUNCTURE OF A FIXTURE AND THE FLOOR OR WALL.

RS AND BACK FLOW PREVENTORS AS NECESSARY TO AVOID WATER BEING DRAWN BACK PIPING. INSTALLATION SHALL BE IN FULL COMPLIANCE OF THE REQUIREMENTS OF THE D THE LOCAL HEALTH DEPARTMENT. PROVIDE SHOCK ABSORBERS IN THE PIPING SYSTEM JDE A WATER HAMMER PROBLEM WITH THE PIPING SYSTEM.

INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NFPA PAMPHLET 54 AND E A GAS COCK AND UNION AT EACH APPLIANCE AND AT THE BULDING ENTRY.

ALL HOT, COLD, AND RECIRCULATION PIPING, AS WELL AS ALL FITTINGS AND VALVES, ON. NOT REQUIRED FOR RUNOUTS TO FIXTURES, RISERS FEEDING FIXTURES, UNIONS, BLE CONNECTIONS OR EXPANSION JOINTS. APPLY ON PIPING OVER CLEAN AND DRY MLY BUTTED TOGETHER. MAKE CONTINUOUS THROUGH SLEEVES OR OPENINGS IN WALL ATION NEATLY AT HANGERS AND SUPPORTS. FOR FITTINGS, PROVIDE ONE COAT CEMENT, FITTING COVER AND FINISH WITH GLASS FABRIC EMBEDDED IN FIRE RETARDANT MASTIC.

CTION REQUIREMENTS: ALL PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS FOR ALL FOOD AND BEVERAGE

ALL ALLOW FOR INSTALLATION OF VALVES, FITTINGS, TRAPS, AND CONTROLS REQUIRED AND POINT-OF-CONNECTION ON THE EQUIPMENT.

ALL FURNISH AND INSTALL ALL SUPPLIES AND STOPS, TRAPS, VALVES, CONTROLS, AND ARE NOT AN INTEGRAL PART OF THE KITCHEN EQUIPMENT AS REQUIRED TO MAKE E EQUIPMENT FOR A COMPLETE AND OPERATING SYSTEM IN COMPLIANCE WITH ALL DINANCES.

FROM FOOD SERVICE EQUIPMENT TO THE NEAREST INDIRECT DRAIN SHALL BE FURNISHED JMBING CONTRACTOR TO CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES. LINES WITH FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR SHALL FREEZER, ICE BINS, ETC.

BE SUPPLIED UNDER PLUMBING SECTION OF WORK EXCEPT AS SCHEDULED ON THE

MBING AND FOOD SERVICE DRAWINGS WITH REFERENCE TO KITCHEN EQUIPMENT FOR HE INSTALLATION OF PLUMBING SERVICES. REVIEW PLUMBING CONTRACTOR RESPON— RED CONNECTIONS AND COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER WHERE APPLICABLE. HE PLUMBING INSTALLATION WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE OF WORK.

ALL PROVIDE SHUT-OFF VALVES AT ALL WATER AND GAS CONNECTIONS TO KITCHEN

IY FIXTURE OR EQUIPMENT, REVIEW ALL CURRENT ARCHITECTURAL, MECHANICAL, AND E EQUIPMENT DRAWINGS, EQUIPMENT/FIXTURE ROUGH-IN DRAWINGS AND DATA SHEETS CT, MECHANICAL CONTRACTOR, AND KITCHEN EQUIPMENT CONTRACTOR FOR INSTRUCTIONS

SLOPED AWAY FROM CONNECTIONS TO STACK AND TOWARD THE 'ENT THE ENTRAPMENT OF FLUIDS IN THE VENT LINE. BE SLOPED AT A MINIMUM OF 1/4 IN. PER LINEAL FOOT UNLESS ALLOWED DUE TO FIELD CONDITIONS.

ADJUSTABLE BAND HANGERS WITH ZINC ELECTROPLATING FOR STEEL PLATING FOR COPPER TUBE. SUPPORT PIPING FROM HANGERS WITH SUP-CHMENTS SHALL BE AS RECOMMENDED BY MANUFACTURER FOR SECURING JPPORT VERTICAL PIPES WITH APPROVED BRACKETS OR CLAMPS. ROD CODE. SUPPORT GAS PIPING AT 8ft. INTERVALS WITH HANGERS AND ER. ALL PIPE HANGERS SHALL BE INSTALLED TO CONFORM TO LOCAL ULATED PIPING SHALL HAVE INSULATION SHIELD.

ROVIDE PLUMBING EQUIPMENT, FITTINGS, AND TRIM WHERE SPECIFIED PLETE INSTALLATION. THIS CONTRACTOR SHALL ROUGH—IN AND CONNECT EQUIPMENT FURNISHED BY OTHERS.

STEMS SHALL BE TESTED AT 10 ft. STATIC HEAD 30 min. WITH NO ES, VALVES, AND FITTINGS SHALL BE DISINFECTED, AND HYDROp.s.i.g. FOR 30 min. WITH NO DROP IN PRESSURE.

SUPPLY LINES SHALL BE RUN CONCEALED ABOVE CEILING AND/OR SS OTHERWISE NOTED. INSTALL ON BUILDING SIDE OF INSULATION HERE NECESSARY TO KEEP LINES FROM FREEZING.

NNECT TO APPLIANCES OR EQUIPMENT WITH GAS COCK, UNION, AND NES SHALL BE SUPPORTED 8 ft. ON CENTER. MATERIALS AND ( WITH UNIFORM PLUMBING CODE CHAPTER 12.

WINGS IS DIAGRAMMATICAL AND SHALL BE COORDINATED WITH ACTUAL OTHER TRADES, HEALTH DEPARTMENT, BUILDING DEPARTMENT INSPECTION COST WILL BE ALLOWED FOR RELOCATION DUE TO CONFLICTS WITH ODE REQUIREMENTS.

ALL VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND SPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, IEREON. REVIEW ENTIRE INSTALLATION WITH FRESH CHOICE REPRESEN— WORK.

