PLUMBING GENERAL NOTES

INTENT OF DRAWINGS

DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT
OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE MINIMAL AND
MUST BE FOLLOWED OR BETTERED. DO NOT SCALE DRAWINGS.
CONSULT ARCHITECTURAL DRAWINGS FOR SPACE CONDITIONS.

WORK IS NOT SHOWN IN FINITE DETAIL BUT IS INTENDED TO INCLUDE ITEMS NECESSARY FOR COMPLETION AND PROPER OPERATION.

COORDINATION OF WORK

CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO INSURE THAT ALL MATERIALS CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO, INCLUDING FINISHED SUSPENDED CEILINGS. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

ALL WORK IS NEW UNLESS DESIGNATED AS EXISTING.

WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES,
COORDINATE WITH OTHER TRADES TO INSURE THAT ALL TRADES HAVE
THE INFORMATION NECESSARY SO THEY MAY PROPERLY INSTALL ALL
THE NECESSARY CONNECTIONS AND EQUIPMENT. IDENTIFY ALL WORK
ITEMS (VALVES, DRAINS, ETC.) IN AN APPROVED MANNER IN ORDER
THAT THE GENERAL CONTRACTOR WILL KNOW WHERE TO INSTALL
ACCESS DOORS AND PANELS. CONSULT WITH OTHER TRADES

REGARDING EQUIPMENT SO, WHEREVER POSSIBLE, MOTORS AND

CONTROLS ARE OF THE SAME MANUFACTURE.

FURNISH AND SET ALL SLEEVES FOR PASSAGE OF PIPES AND CONDUITS THROUGH STRUCTURAL MASONRY AN CONCRETE WALLS AND FLOORS, AND ELSEWHERE AS WILL BE REQUIRED FOR THE PROPER PROTECTION OF EACH PIPE PASSING THROUGH BUILDING SURFACES. PROVIDE REQUIRED SUPPORTS AND HANGERS FOR PIPING, FIXTURES AND EQUIPMENT, SO LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.

ALL CUTTING AND PATCHING REQUIRED FOR PLUMBING WORK IN THE BUILDING STRUCTURE SHALL BE DONE BY THE GENERAL CONTRACTOR. PROVIDE ALL ITEMS AND WORK CALLED FOR IN THIS DIVISION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS INCLUDES ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, SUPERVISION, LABOR CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START UP AND CHECK OUT ON EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS. COMPLY WITH ALL FEDERAL, STATE, CITY, AND OTHER APPLICABLE CODES AND ORDINANCES SUBJECT TO PLUMBING DESIGN. IF ANY CONFLICT ARISES BETWEEN THESE SPECIFICATIONS, CODES AND ORDINANCES, IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT DEVIATE FROM THE SPECIFICATIONS NOR INSTALL ANY WORK WHICH MAY BE IN CONFLICT WITH CODES AND ORDINANCES UNTIL THE CONFLICT IS RESOLVED AND THE SOLUTION APPROVED BY THE ARCHITECT.

NEW YORK STATE BUILDING CODE AND PLUMBING CODE.

PIPE HANGERS AND SUPPORTS: MSS SP-58. AWWA STANDARDS.

UL COMPLIANCE.
COMPLY WITH REQUIREMENTS OF LOCAL UTILITY COMPANY.
CONFORM THE PLUMBING WORK TO THE REQUIREMENTS HEREIN.

CONFORM THE PLUMBING WORK TO THE REQUIREMENTS HEREIN.
PROVIDE OFFSETS, FITTINGS, DRAINS, AND ACCESSORIES WHICH MAY
BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS
AFFECTING THE WORK, AND ARRANGE THE WORK ACCORDINGLY.
PROVIDE SUCH PIPING, FITTINGS, VALVES, AND ACCESSORIES AS MAY
BE REQUIRED TO MEET SUCH CONDITIONS.

WORKMANSHIP: ONLY THE BEST OF WORKMANSHIP IN ACCORDANCE WITH PRESENT STANDARDS WILL BE ACCEPTABLE. ANY WORK INSTALLED AND ADJUDGED BY THE ENGINEER TO BE BELOW STANDARDS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
PERMITS AND FEES

PLACE VALVES, UNIONS, DRAINS, AND ITEMS REQUIRING MAINTENANCE, ADJUSTMENT, OR REPAIR, IN ACCESSIBLE LOCATIONS.

ALL PIPING SHALL BE INSTALLED PER SEISMIC REQUIREMENT.
PIPE HANGER AND SUPPORT INSTALLATION

REFER TO MSS-SP-58; STANDARD FOR PIPE HANGERS AND SUPPORTS.

SUPPORT, ANCHOR, AND GUIDE PIPING SYSTEMS TO WITHSTAND STATIC AND DYNAMIC LOAD CONDITIONS, TO ALLOW FOR EXPANSION AND CONTRACTION; TO PREVENT VIBRATION AND SWAYING; TO MAINTAIN ALIGNMENT AND MINIMIZE VERTICAL DEFLECTION.

DO NOT SUPPORT PIPING FROM OTHER PIPING OR DUCTWORK. DO NOT USE WIRE, TAPE, METAL BANDS, OR OTHER MAKE—SHIFT DEVICES AS MEANS OF SUPPORT OR ATTACHMENT.

PIPE SLEEVE INSTALLATION

PROVIDE FOR PIPING PASSING THROUGH WALLS, PARTITIONS, AND SLAB SLEEVES SIZED AT LEAST 1 INCH LARGER THAN OD OF PIPE FOR UNINSULATED LINES AND OF PIPE PLUS INSULATION FOR INSULATED LINES

SLEEVES ARE REQUIRED FOR PIPING PASSING THROUGH FIRE—RATED WALLS CONSTRUCTED OF METAL STUDS AND GYPSUM WALLBOARD. FLANGE ENDS OF SLEEVES TIGHT TO BOTH SIDES OF WALL. TERMINATE SLEEVES THROUGH WALLS, PARTITIONS, AND CEILINGS FLUSH WITH FINISHED SURFACES; THROUGH SLABS 1/2" ABOVE FLOOR FINISH IN HABITABLE SPACES AND 2" ABOVE ROUGH FINISH IN PIPE SPACES AND OTHER UNFINISHED AREAS.

FILL VOID SPACES BETWEEN PIPING AND PIPE SLEEVES WITH PENETRATION SEAL, OR WITH MINERAL WOOD SEALED WITH FIRE TESTED AND APPROVED ELASTOMERIC CAULKING MATERIALS.

SUBMITTALS
PLUMBING:

PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, INCLUDING RATED CAPACITIES OF SELECTED MODEL CLEARLY INDICATED, FURNISHED SPECIALTIES AND ACCESSORIES; AND INSTALLATION INSTRUCTIONS.

SHOP DRAWINGS: SUBMIT MANUFACTURER'S ASSEMBLY TYPE SHOP DRAWINGS INDICATING DIMENSIONS, ROUGHING—IN REQUIREMENTS, REQUIRED CLEARANCES, AND METHODS OF ASSEMBLY OF COMPONENTS AND ANCHORAGES.

MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR EACH TYPE OF PLUMBING FIXTURE AND ACCESSORY; INCLUDING "TROUBLE— SHOOTING" MAINTENANCE GUIDE. INCLUDE THIS DATA, PRODUCT DATA, AND AS BUILT DRAWINGS IN 3 RING BINDER AT COMPLETION OF PROJECT. ADJUSTMENTS

UPON COMPLETION OF WORK, PERFORM THE FOLLOWING ADJUSTMENT PROCEDURES:

ADJUST SYSTEMS COMPONENTS FOR PROPER PERFORMANCE.

OPEN AND CLOSE VALVES, SET IN PROPER OPERATING POSITION
PIPING IDENTIFICATION

CONSPICUOUSLY IDENTIFY PIPING WITH SELF—ADHERING VINYL PLASTIC COLOR BANDS AND PIPE MARKERS IMPRINTED WITH LEGEND, BASED ON ANSI A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".

APPLY LEGENDS TO FEED AND CROSS MAIN PIPING ADJACENT TO CHANGES IN DIRECTION, WHERE PIPES PASS THROUGH WALLS OR FLOORS, AT INTERVALS NOT EXCEEDING 40 FEET ON STRAIGHT PIPING RUNS, AND ADJACENT TO CROSS MAN CONNECTIONS WITH FEED MAIN.

CLEANING

CLEAN PIPING PRIOR TO PAINTING.

UPON COMPLETION OF WORK PERFORM THE FOLLOWING CLEANING PROCEDURES:

REMOVE PROTECTIVE COVERS AFTER PAINTING. CLEAN PIPING AND EQUIPMENT. REMOVE SURPLUS MATERIALS AND RUBBISH. RESTORE DAMAGED SURFACE FINISHES.

INSTALLATION - GENERAL

PREPARATION: CUT PIPE AND TUBING ENDS SQUARE, REMOVE BURRS AND REAM TO ORIGINAL BORE. CLEAN JOINT SURFACES PRIOR TO ASSEMBLY. WIPE OFF EXCESS JOINTING COMPOUNDS AND FLUX RESIDUE.

MECHANICAL COUPLING: USE MANUFACTURER'S MATERIALS AND METHODS.

PIPE HANGER AND SUPPORT INSTALLATION

REFER TO MSS-SP-58; STANDARD FOR PIPE HANGERS AND SUPPORT

SUPPORT, ANCHOR, AND GUIDE PIPING SYSTEMS TO WITHSTAND STATIC AND DYNAMIC LOAD CONDITIONS, TO ALLOW FOR EXPANSION AND CONTRACTION; TO PREVENT VIBRATION AND SWAYING; TO MAINTAIN ALIGNMENT AND MINIMIZE VERTICAL DEFLECTION.

DO NOT SUPPORT PIPING FROM OTHER PIPING OR DUCTWORK. DO NOT USE WIRE, TAPE, METAL BANDS, OR OTHER MAKE—SHIFT DEVICES AS MEANS OF SUPPORT OR ATTACHMENT.

FIRE/SMOKE STOPPING

FILL VOID SPACE BETWEEN PIPING AND PIPE SLEEVES WITH AN APPROVED FIRE/SMOKE SEAL.

GENERAL: TEST PLUMBING SYSTEMS TO SATISFACTION OF BUILDING OFFICIAL. DO NOT CLOSE IN, CONCEAL, OR COVER UP ANY WORK UNTIL IT HAS BEEN TESTED, INSPECTED, AND APPROVED.

FLUSH PIPING, PRIOR TO TESTING, TO REMOVE FOREIGN MATERIALS WHICH MAY HAVE ENTERED DURING COURSE OF INSTALLATION. CLEAN FILTERS AND STRAINERS AFTER

FLUSHING.

SUPPLY TWO COPIES OF A WARRANTY COUNTERSIGNED AND GUARANTEED BY CONTRACTOR, STATING THAT IMPERFECT SYSTEM OPERATION AND ALL DEFECTS IN LABOR AND MATERIALS OF WORK WILL BE REPAIRED WITHOUT COST TO OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, AND STATING THAT ALL EQUIPMENT HAS BEEN FULLY SERVICED AND LEFT IN PROPER OPERATING CONDITION.

ALSO GUARANTEE THAT SERVICING WILL BE PROVIDED WITHOUT COST DURING GUARANTEE PERIOD.

	PI LIMI	BING LEGEND				
N						
	SYMBOL	DESCRIPTION				
ŀ		COLD WATER PIPING				
ŀ		HOT WATER PIPING				
ŀ	G	GAS PIPING				
	—— w ——	SANITARY PIPING				
	SD	STORM DRAIN PIPING				
		VENT PIPING				
	111	RECIRCULATING HOT WATER PIPING				
ŀ	<u>O</u>	ELBOW UP				
		ELBOW DOWN				
		TEE UP				
	- 121	TEE DOWN				
		VALVE IN RISER				
N		GATE VALVE				
11.	<u> </u>	DS&Y GATE VALVE				
	₽-	ANGLE VALVE				
		GLOBE VALVE				
		CHECK VALVE				
		BALL VALVE				
	————	BUTTERFLY VALVE				
	≱ -	SAFETY RELIEF VALVE				
	——————————————————————————————————————	PLUG VALVE				
	XV	PRESSURE REDUCING VALVE				
		BACKWATER VALVE				
	×	PIPE ANCHOR				
		PIPE GUIDE				
		PIPE SLEEVE THRU WALL				
		P-TRAP				
		RUNNING TRAP				
	нв Ђ	HOSE BIBB				
	wh þ	WALL HYDRANT				
	—ф—	TRAP SEAL PRIMER				
		FLEX CONNECTION				
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PPORTS		FLANGE CONNECTION				
	CO ⊩——	CLEAN DUT				
	FC0@	FLOOR CLEAN OUT				
	WCOILO	WALL CLEAN OUT				
OKI	FD 🗵	FLOOR DRAIN				
PORTS	AD 🔘	AREA DRAIN				
	FS 🛅	FLOOR SINK				
	RD 📵	ROOF DRAIN				
	M	SHOWER HEAD				
	*	PRESSURE GUAGE				
	Q	THERMOMETER				
ŀ	•	CONNECT TO EXISTING				
		DISCONNECT FROM EXISTING				
		HOT WATER RECIRCULATION				
	(R1)	RISER DESIGNATION				
ŀ		TRENCH DRAIN				
	FD (FLOOR DRAIN				
		. Laur Divilla				
l						

ABBREVIATIONS LIST

CW	COLD WATER	EHWH	ELECTRIC HOT WATER HEATER
C.□.	CLEAN DUT	HLAV	HANDICAPPED LAVATORY
DN.	DOWN	HWC	HANDICAPPED WATER CLOSET
FD	FLOOR DRAIN	LAV	LAVATORY
F.C.□.	FLOOR CLEAN OUT	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	SK	SINK
HW	HOT WATER	HZAW	WASHER
MS	MOP SINK	RTU	ROOFTOP UNIT
S	SANITARY	VTR	VENT THROUGH ROOF
SK	SINK	PSK	PANTRY SINK
V	VENT	BT/SH RHW	BATH TUB/SHOWER RECIRCULATING HOT WATER
V.I.F.	VERIFY IN FIELD		
WF	WATER FOUNTAIN		
W	WASTE		
WC□	WALL CLEANOUT		

GENERAL NOTES

WATER HAMMER ARESTOR

- 1. THE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE PLUMBING SECTION OF THE BUILDING CODE OF THE STATE OF NEW YORK
- 2. CONTRACTOR SHALL SCHEDULE AND PERFORM HIS WORK IN COORDINATION WITH THE OWNERS REPRESENTATIVE.
- 3. ALL WORK SHALL BE IN COMPLIANCE WITH OWNERS REQUIREMENTS AND IN COOPERATION WITH THE OWNERS REPRESENTATIVE.
- 4. LOCATIONS OF EQUIPMENT ROUGHING SHOWN ON THIS DRAWING ARE DIAGRAMMATIC AND THE CONTRACTOR SHALL VERIFY FINAL EQUIPMENT SIZE, LOCATION AND ALL ROUGHING REQUIREMENTS.
- 5. PITCH ON DRAIN PIPING SHALL BE NO LESS THAT 1/4" PER FOOT OF RUN.
- 6. ALL PIPING INSTALLED ON THE PROJECT SHALL BE PRESSURE TESTED PER NEW YORK STATE CODE. WATER PIPING SHALL BE HYDROSTATICALY TESTED TO 200 PSIG FOR A PERIOD OF ONE HOUR WITHOUT LOSS OF PRESSURE. SANITARY, WASTE AND VENT ROUGH PIPING SHALL BE TESTED AS A SYSTEM OR IN SECTIONS. IF TESTED AS A SYSTEM ALL OPEN PIPING SHALL BE TIGHTLY CLOSED, EXCEPT THE HIGHEST OPENING, AND THE SYSTEM COMPLETELY FILLED WITH WATER TO POINT OF OVERFLOW. ALL SYSTEM JOINTS SHALL BE INSPECTED FOR WATER TIGHTNESS. ANY JOINT FOUND LEAKING SHALL BE REPAIRED AND THE TEST REPEATED UNTIL SYSTEM JOINTS ARE WATER TIGHT. IF SYSTEM IS TESTED IN SECTIONS, EACH OPENING SHALL BE TIGHTLY PLUGGED EXCEPT THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND EACH SECTION SHALL BE FILLED WITH WATER BUT NO SECTION SHALL BE TESTED WITH LESS THAN 10-FOOT HEAD OF WATER. WATER SHALL BE KEPT IN THE SYSTEM OR THE PORTION UNDER TEST FOR AT LEAST 15 MINUTES BEFORE INSPECTION STARTS. AFTER THE FIXTURES HAVE BEEN SET AND THEIR TRAPS FILLED WITH WATER, THEIR CONNECTIONS SHALL BE TESTED AND PROVED GAS AND WATER TIGHT. GAS TIGHTNESS TESTS SHALL BE CONDUCTED USING EITHER THE SMOKE OR PEPPERMINT TEST.
- 7. THE USE OF THREADED ROD FOR SUPPORTS IN COMPRESSION SHALL NOT BE ACCEPTED. THE CONTRACTOR SHALL USE B-LINE SYSTEMS B22 CHANNEL, IN SINGLE OR COMBINATION SHAPES, WITH APPROPRIATE ACCESSORIES. B-LINE B280 POST BASE SHALL BE USED FOR ALL VERTICAL SUPPORTS. FINISH SHALL BE B-LINE "DURA-GREEN" EPOXY COATING.

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