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ABBREVIATIONS

&	=	AND	JAN	=	JANITOR
Ø	=	DIAMETER OR ROUND	MAX	=	MAXIMUM
ADD'L	=	ADDITIONAL	MC	=	MECHANICAL CONTRACTOR
AFF	=	ABOVE FINISHED FLOOR	MECH	=	MECHANICAL
ALT	=	ALTERNATE	MIN	=	MINIMUM
ARCH.	=	ARCHITECTURAL	NTS	=	NOT TO SCALE
BLDG	=	BUILDING	PC	=	PLUMBING CONTRACTOR
CD	=	CONDENSATE DRAIN	PV	=	PLUMBING VENT
CDP	=	CONDENSATE DRAIN PUMP	RD	=	ROOF DRAIN
CLG	=	CEILING	RL	=	ROOF LEADER
CO	=	CLEANOUT	SPEC	=	SPECIFICATION
CODP	=	CLEANOUT DECK PLATE	SP	=	SUMP PUMP
COWP	=	CLEANOUT WALL PLATE	SS	=	STAINLESS STEEL
DCW	=	DOMESTIC COLD WATER	STD	=	STANDARD
DDC	=	DIRECT DIGITAL CONTROL	T&P	=	TEMPERATURE & PRESSURE
DHW	=	DOMESTIC HOT WATER	TMV	=	THERMOSTATIC MIXING VALVE
DHWR	=	DOMESTIC HOT WATER RETURN	TYP	=	TYPICAL
DN	=	DOWN	VTR	=	VENT THROUGH ROOF
DWG	=	DRAWING	W/	=	WITH
GC	=	GENERAL CONTRACTOR			
EA	=	EACH			
ESP	=	ELEVATOR SUMP PUMP			
EXIST	=	EXISTING			
FD	=	FLOOR DRAIN			
GPH	=	GALLON PER HOUR			
GPM	=	GALLON PER MINUTE			
HWH	=	DOMESTIC HOT WATER HEATER			
ID	=	INSIDE DIAMETER (DIM)			
IN	=	INCH			
INFO	=	INFORMATION			

PIPING LEGEND & SYMBOLS

NOT TO SCALE

	SANITARY WASTE/ROOF LEADER PIPING ABOVE GRADE
	SANITARY WASTE/STORM PIPING BELOW SLAB
	SANITARY VENT PIPING
	DOMESTIC COLD WATER (DCW) PIPING
	DOMESTIC HOT WATER (DHW) PIPING
	DOMESTIC HOT WATER RETURN (DHWR) PIPING
	GAS PIPING
	CONDENSATE DRAIN PIPING
	PIPE TURN UP
	PIPE TURN DOWN
	PIPE TOP CONNECTION
	PIPE BOTTOM CONNECTION
	SHUTOFF BALL VALVE
	POINT OF CONNECTION OF NEW PIPING TO EXISTING
	POINT OF DISCONNECTION OF DEMOLISHED PIPING FROM EXISTING

PLUMBING SYSTEM MATERIALS

**PIPING:**

WASTE & VENT PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS. ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS.

ROOF LEADER & STORM PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS, ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS.

DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS (LEAD-FREE SOLDER). BELOW GRADE SHALL BE TYPE "K" COPPER WITHOUT FITTINGS.

GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS (PIPE SIZES 2-1/2" & SMALLER) AND WELDED FITTINGS (PIPE SIZES 3" & LARGER). PRIME & PAINT W/ TWO (2) FINISH COATS OF YELLOW COLOR PAINT.

CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS.

FORCED DRAIN PIPING SHALL BE SCH. 40 GALVANIZED STEEL PIPE W/ THREADED FITTINGS OR TYPE "L" COPPER PIPING W/ SOLDERED FITTINGS (LEAD-FREE SOLDER).

COMPRESSED AIR PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS.

**INSULATION:**

ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.

ALL ROOF LEADER & STORM PIPING ABOVE GRADE SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.

ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL).

**CLEANOUTS:**

FLOOR: J.R. SMITH #4023S W/ ROUND NICKEL-BRONZE TOP.

WALL: J.R. SMITH #4532S W/ ROUND STAINLESS STEEL TOP.

**PIPE INSULATION/COVERS:**

FOR ALL LAVATORIES, INSTALL PROTECTIVE ENCLOSURE "LAV SHIELD" W/ TAMPER-RESISTANT SCREWS BY TRUEBRO OR APPROVED EQUAL.

**VALVES & FITTINGS:**

ALL VALVES & FITTINGS FOR DOMESTIC WATER SYSTEM SHALL BE LEAD FREE TYPE IN COMPLIANCE W/ REQUIREMENTS OF NSF/ANSI STANDARD 61. ALL BALL VALVES SHALL BE FULL-PORT TYPE.

**PENETRATION FIRESTOPPING:**

ALL PIPE PENETRATIONS (AT WALL, FLOOR, CHASE, ETC.) SHALL BE SEALED & CAULKED W/ 2 HR RATED FIRESTOPPING MATERIALS.

GENERAL CONSTRUCTION NOTES

- REFER TO "MULTIPLE PRIME CONTRACT NOTES" ON DWG. A1.00 & SPECIFICATION SECTION 011200 - SPECIAL PROVISIONS FOR CONTRACTORS' RESPONSIBILITIES.
- CORE DRILLING SHALL BE PERFORMED BY EACH INDIVIDUAL PRIME CONTRACT. REFER TO SPECIFICATION SECTION 011200 - SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. SEE DRAWINGS FOR APPROXIMATE LOCATIONS OF PIPES, DUCT, ETC.
- EACH INDIVIDUAL PRIME CONTRACTOR IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL ALL OPENINGS WHERE EXISTING EQUIPMENT, PIPES, ETC. ARE BEING REMOVED. SEAL OPENING WITH 2 HOUR FIRE BARRIER CAULK. SEE GENERAL LOCATIONS ON PLUMBING DEMOLITION PLANS. SEE SPECIFICATION SECTION 011200 - SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- WHERE A FIREPROOFING MATERIAL THAT IS INTEGRAL TO THE RATING OF AN EXISTING FIRE-RATED ASSEMBLY IS REMOVED OR DISTURBED, CONTRACTOR IS REQUIRED TO REPLACE THE MATERIAL TO PRESERVE THE RATING.

PLUMBING GENERAL NOTES

- ALL WORK SHALL CONFORM TO LATEST EDITION OF NEW YORK STATE ENERGY CODE & PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
- CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
- CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
- INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK.
- CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
- PIPE INSTALLATION AS FOLLOWS:
  - RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS.
  - ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES. STORM AND WASTE PIPING SHALL BE SLOPED PER LATEST PLUMBING CODE.
  - SLEEVE PIPING THAT PASSES THROUGH WALLS.
  - INSTALL PITCH POCKETS & FLASH ALL PIPING THAT PASSES THROUGH ROOF.
  - PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER SPECIFICATION.
  - PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED.
  - PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS.
  - CORE-DRILL FLOOR SLABS & PROVIDE 2-HR RATED FIRE STOPPING MATERIALS FOR ALL PIPE PENETRATION THROUGH FLOOR SLABS.
- CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER, PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
- SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
- PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.
- CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.

1/10/20

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REGISTERED ARCHITECT

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PLUMBING NOTES

2019 BOND REFERENCE

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Job No. 4,1092.72.2

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