

ABBREVIATIONS				PIPING LEGEND & SYMBOLS		PLUMBING SYSTEM MATERIALS		PLUMBING GENERAL NOTES	
&	=	AND	ID	=	INSIDE DIAMETER (DIM)	---	SANITARY WASTER PIPING	<p>PIPING:</p> <p>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.</p> <p>DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS (LEAD-FREE SOLDER), BELOW GRADE SHALL BE TYPE "K" COPPER WITHOUT FITTINGS.</p> <p>GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS (UP TO 2" PIPE SIZE) AND WELDED FITTINGS (PIPE SIZE 2-1/2" & LARGER).</p> <p>CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS.</p> <p>INSULATION:</p> <p>ALL DOMESTIC VALVE HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS GLASS PIPE INSULATION R-VALUE 5 PER INCH: 1" THICK INSULATION FOR PIPE SIZES 1-1/2" & SMALLER.</p> <p>ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL).</p> <p>ALL ROOF LEADER PIPING SHALL BE INSULATION WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKET.</p> <p>CLEANOUTS:</p> <p>WALL: J.R. SMITH #4532S W/ ROUND STAINLESS STEEL TOP.</p> <p>PIPE INSULATION/COVERS:</p> <p>PROVIDE TRUEBRO "LAV GUARD 2" WASTE & SUPPLY PIPING COVERS FOR ALL LAVATORIES.</p> <p>VALVES & FITTINGS:</p> <p>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.</p> <p>PENETRATION FIRESTOPPING:</p> <p>ALL PIPE PENETRATIONS (AT WALL, FLOOR, CHASE, ETC.) SHALL BE SEALED & CAULKED W/ 2 HR RATED FIRESTOPPING MATERIALS.</p>	
φ	=	DIAMETER OR ROUND	IN	=	INCH	---	SANITARY VENT PIPING		
ADD'L	=	ADDITIONAL	INFO	=	INFORMATION	---	ROOF LEADER PIPING		
AFF	=	ABOVE FINISHED FLOOR	LAV	=	LAVATORY	---	DOMESTIC COLD WATER (DCW) PIPING		
AH	=	AIR HANDLING UNIT	MAX	=	MAXIMUM	---	DOMESTIC HOT WATER (DHW) PIPING		
ALT	=	ALTERNATE	MBH	=	1000 BRITISH THERMAL UNITS	---	DOMESTIC HOT WATER RETURN (DHW/R) PIPING		
ARCH.	=	ARCHITECTURAL	MECH	=	MECHANICAL	---	GAS PIPING		
BLDG	=	BUILDING	MIN	=	MINIMUM	---	CONDENSATE DRAIN PIPING		
CD	=	CONDENSATE DRAIN	NTS	=	NOT TO SCALE	---	PIPE TURN UP		
CLG	=	CEILING	OD	=	OUTSIDE DIAMETER	---	PIPE TURN DOWN		
CO	=	CLEANOUT	RD	=	ROOF DRAIN	---	PIPE TOP CONNECTION		
CODP	=	CLEANOUT DECK PLATE	RPZ	=	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	---	PIPE BOTTOM CONNECTION		
COWP	=	CLEANOUT WALL PLATE	SPEC	=	SPECIFICATION	---	SHUTOFF BALL VALVE		
CRD	=	CANOPY ROOF DRAIN	SS	=	STAINLESS STEEL	---	PRESSURE REGULATOR		
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	---			
DOAS	=	DEDICATED OUTSIDE AIR SYSTEM	W/	=	WITH	---			
DWG	=	DRAWING	W/O	=	WITHOUT	---			
EA	=	EACH	WC	=	WATER CLOSET	---			
EXIST	=	EXISTING	WT	=	WEIGHT	---			
EOD	=	EMERG. OVERFLOW ROOF DRAIN				---			
FD	=	FLOOR DRAIN				---			
GPH	=	GALLON PER HOUR				---			
HWH	=	DOMESTIC HOT WATER HEATER				---			

GENERAL CONSTRUCTION NOTES	
1.	CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ALL WALLS, FLOORS, CEILING ETC. FOR ALL PLUMBING PIPE WALL & FLOOR PENETRATIONS.
2.	CONTRACTOR IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL, ALL WALL, FLOOR & CLG. OPENINGS WHERE EXISTING PIPE, ETC. ARE BEING REMOVED. SEAL OPENING WITH 2 HR RATED FIRE BARRIER CAULK. SEE GENERAL LOCATIONS ON PLUMBING DEMOLITION PLANS.
3.	CONTRACTOR SHALL PROVIDE ROOFING PATCH WORK AND TIE-IN FOR ALL NEW CONDUIT THAT PENETRATES EXISTING ROOF.
4.	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.

Date: 3/1/21
Checked: TW
Drawn: MAM

MICHAEL J. MCGOVERN, P.E.
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Revisions:
ISSUE FOR BID
03/01/2021

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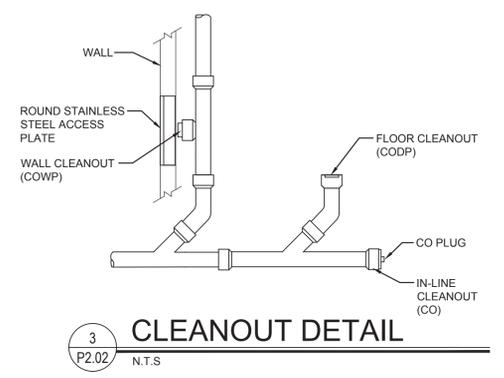
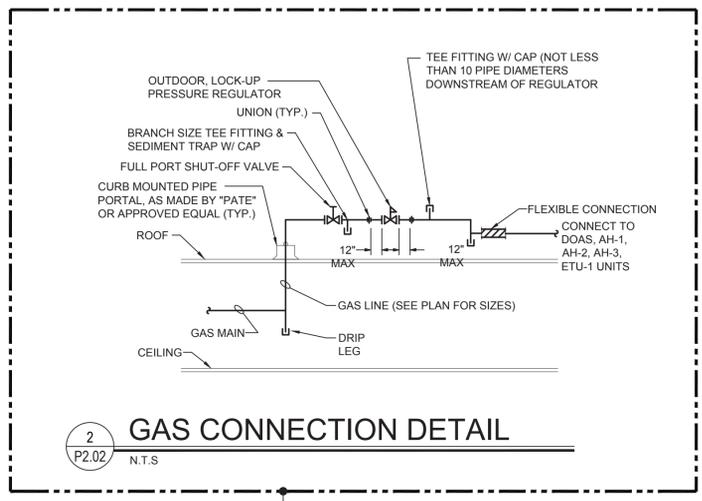
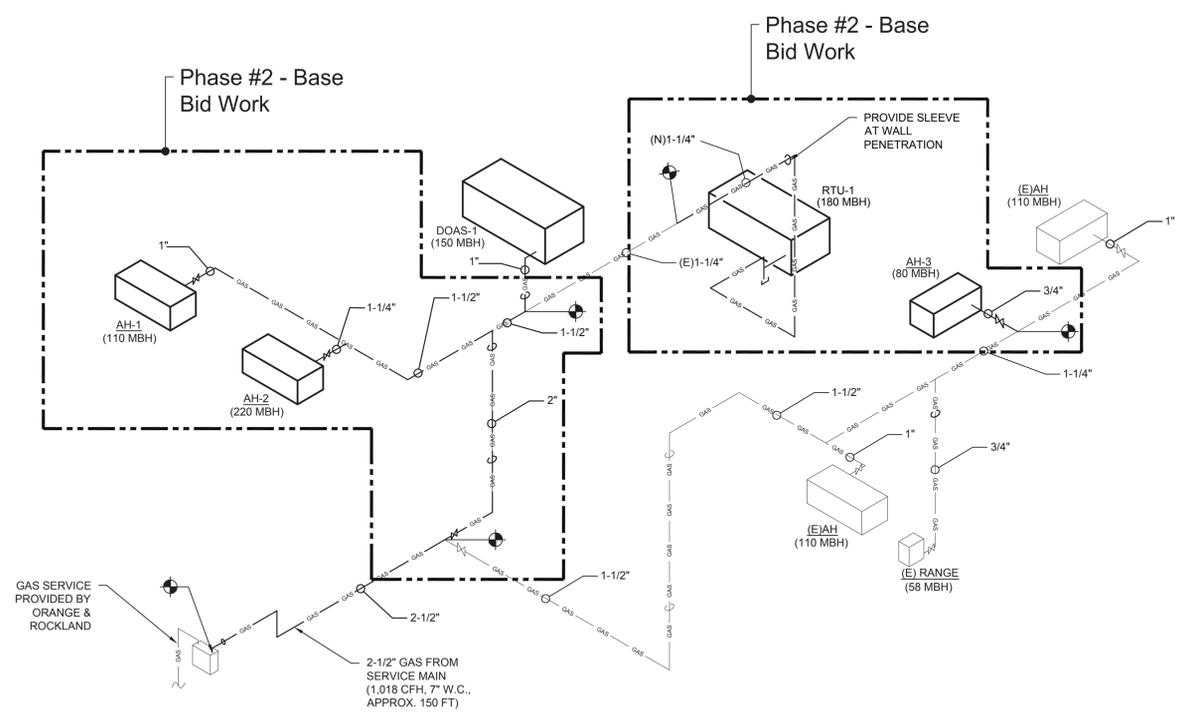
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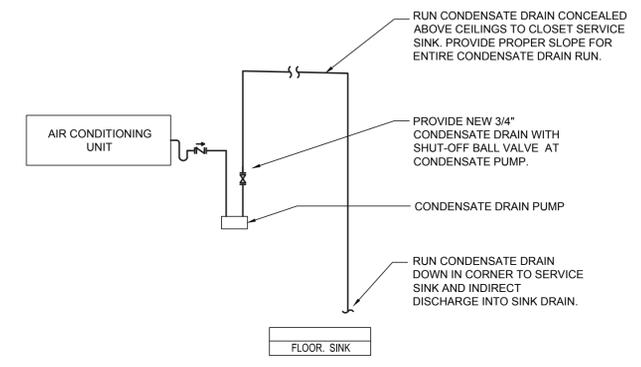
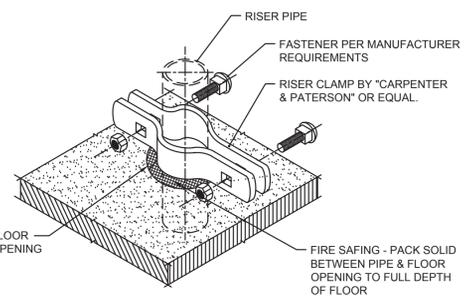
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- NOTES:**
1. GAS PIPE SIZES BASED ON 2015 IFGC TABLE 402.4(1) "SCHEDULE 40 METALLIC PIPE" FOR PRESSURES LESS THAN 2 PSI WITH A PRESSURE DROP OF 0.3" PSI.
 2. PROVIDE A GAS PRESSURE REGULATOR AT EACH UNIT TO REDUCE THE PRESSURE TO THE REQUIREMENTS OF THE APPLIANCE.
 3. PLUMBING CONTRACTOR TO PROVIDE 3/4" VENT FOR ALL INDOOR GAS PRESSURE REGULATORS. PIPE VENT RELIEF TO ATMOSPHERE. COORDINATE W/ LOCAL UTILITY COMPANY FOR GAS PRESSURE REGULATOR VENTING REQUIREMENTS. COORDINATE TERMINATION W/ ANY ROOFTOP UNIT EQUIPMENT AIR INTAKE.
 4. ALL GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS (PIPE SIZE 2" AND SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER)

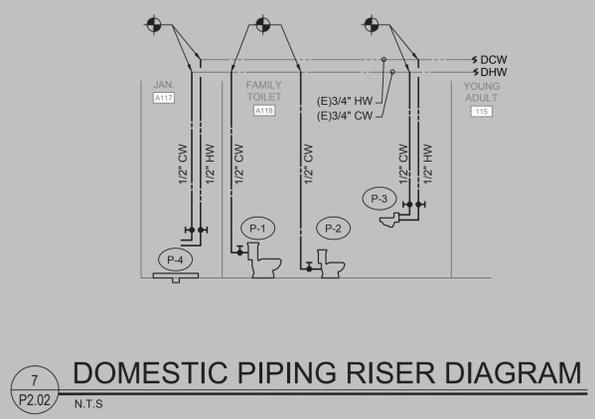
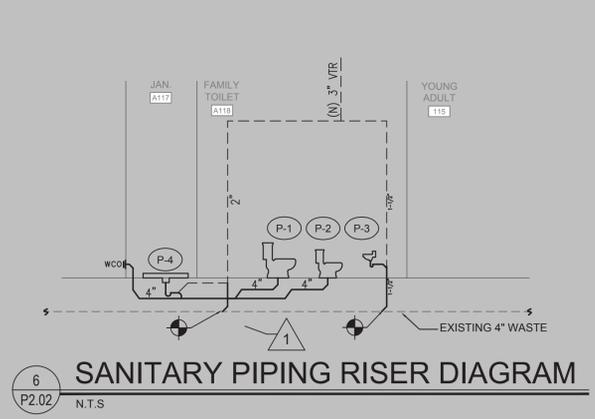


1 GAS RISER DIAGRAM
P2.02 N.T.S.

4 PIPE RISER CLAMP
P2.02 N.T.S.

5 CONDENSATE DRAIN DETAIL
P2.02 N.T.S.

NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES				gpf	gpm	DFU	WSFU	DESCRIPTION	
								TRAP	WASTE	VENT	CW						HW
P-1	WATER CLOSET	AMERICAN STANDARD	CADET FLOWISE 2467.100	--	--	--	FLOOR MOUNTED	INTEGRAL	4"	2"	1/2"	-	1.6	-	4	2.5	INCLUDE 5901.100 ELONGATED HEAVY DUTY BOWL. INSTALL ADA WATER CLOSETS TO MEET ADA HEIGHT REQUIREMENTS. WHITE COLOR.
P-2	WATER CLOSET	AMERICAN STANDARD	BABY DEVORO 2315.228	--	--	--	FLOOR MOUNTED	INTEGRAL	4"	2"	1/2"	-	1.6	-	4	2.5	INSTALL ADA WATER CLOSETS TO MEET ADA HEIGHT REQUIREMENTS. WHITE COLOR.
P-3	LAVATORY	AMERICAN STANDARD	COMRADE 0124.024	-	-	-	WALL MOUNTED	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-	2.2	1	1	INCLUDE 7385.000 RELIANT 3 FAUCET. INSTALL ADA LAVATORIES TO MEET ADA HEIGHT REQUIREMENTS. WHITE COLOR.
P-4	UTILITY SINK	AMERICAN STANDARD	FLORWELL 7741.000	--	--	--	FLOOR MOUNTED	3"	3"	2"	1/2"	1/2"	-	2.2	3	3	SINGLE COMPARTMENT, ENAMEL CAST IRON. DUAL HANDLE FAUCET MO. 8344.212 EXPLODED YOKE WALL-MOUNT UTILITY FAUCET WITH TOP BRACE.



6 SANITARY PIPING RISER DIAGRAM
P2.02 N.T.S.

7 DOMESTIC PIPING RISER DIAGRAM
P2.02 N.T.S.

Shaded Area Not In Contract

NOTE:
SHADED AREA DENOTES WORK THAT IS EXCLUDED FROM THIS CONTRACT.

3/1/21
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Drawn: MAM

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Revisions:
ISSUE FOR BID
03/10/2021

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