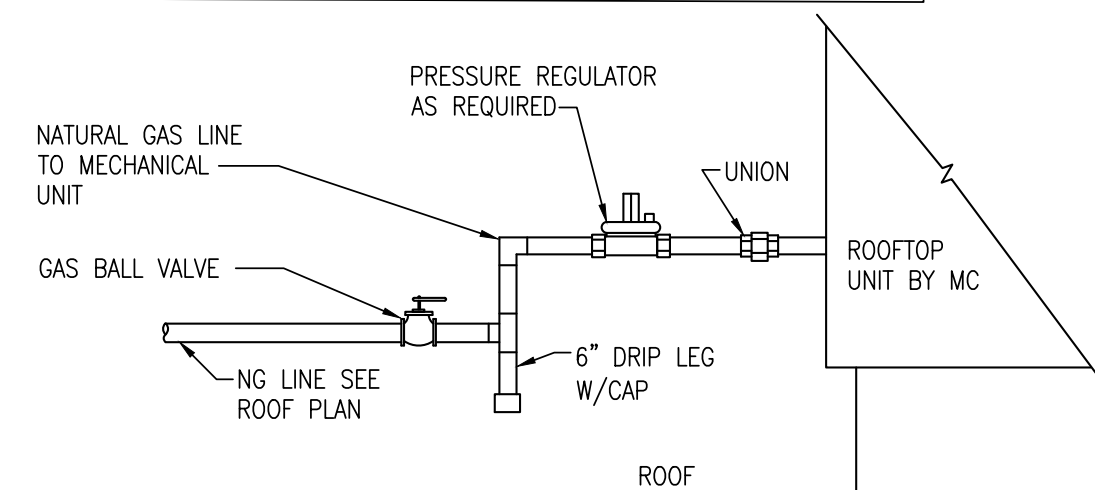
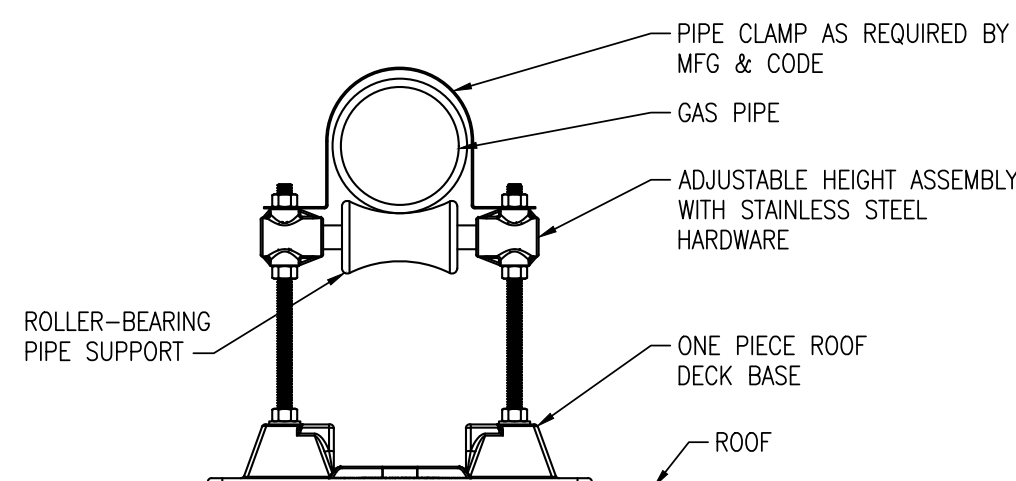
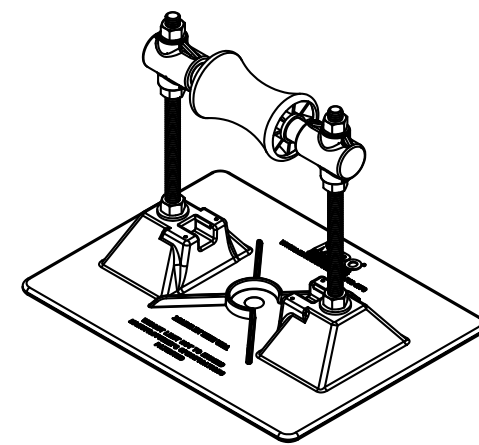


PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
ECO	EXTERIOR CLEANOUT	ZURN	Z1474-SG	GRADE	-	-	SEE PLANS	-	CAST IRON BODY, ANCHOR FLANGE, SECURED GASKETED COVER WITH Z1440 CLEANOUT FERRULE WITH PLUG. SEE DETAIL SHEET.
RD	ROOF DRAIN	ZURN	ZC100-DR-EA	ROOF	-	-	SEE PLANS	-	DURA-COATED CAST IRON BODY & DOME WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD. DECK PLATE, EXTENSION RISER.
DS	DOWNSPOUT NOZZLE	ZURN	Z199	ROOF	-	-	SEE PLANS	-	NICKEL BRONZE BODY, NO-HUB INLET, DECORATIVE WALL FLANGE AND OUTLET NOZZLE.
FWH	FREEZELESS WALL HYDRANT	WOODFORD	B65	WALL	3/4"	-	-	-	CONCEALED BOX TYPE WITH LOCKABLE HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE.

- NOTES:**
- PROVIDE GAS REGULATOR VENT PROTECTOR. INSTALL REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.
 - COORDINATE DISTANCE BETWEEN PRESSURE REGULATOR AND GAS-FIRED EQUIPMENT WITH EQUIPMENT MANUFACTURER. COORDINATE FINAL CONNECTION TO UNIT WITH MC.
 - PROVIDE ROOF PIPE SUPPORTS FOR NATURAL GAS PIPING.
 - PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK IRON. REFER TO SPECIFICATIONS FOR PAINTING PIPING YELLOW.



1 RTU GAS CONNECTION DETAIL
NOT TO SCALE



2 ROOF PIPE SUPPORT DETAIL
NOT TO SCALE

GAS LOAD TABLE					
INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES	
RTU-1	130	7"	325-3LB	2 PSI	1,2
TOTAL LOAD	130 MBH				

NOTES:

- INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.
- GAS PIPING DESIGNED FOR INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 400 FEET.

GENERAL PLUMBING NOTES

- THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
- ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CHANGES IN THE DIRECTION OF SANITARY DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- CONTRACTOR SHALL GIVE 48 HOURS HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
- ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
- COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
- ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
- VERIFY WITH ARCHITECT ON ALL EQUIPMENT AND FIXTURES REQUIRING PLUMBING PRIOR TO BID. COORDINATE EXACT LOCATIONS AND CONNECTIONS.
- ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- CONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENSES, ETC. NECESSARY FOR PROPER COMPLETION OF WORK.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PLUMBING PIPING LINETYPES

LINETYPE	DESCRIPTION
---	DEMOLITION
---	GAS
---	SANITARY ABOVE GRADE
---	SANITARY BELOW GRADE
---	STORM ABOVE GRADE
---	STORM BELOW GRADE
---	VENT ABOVE GRADE
---	VENT BELOW GRADE
---	COLD WATER
---	COLD WATER BELOW GRADE
---	HOT WATER
---	HOT WATER BELOW GRADE
---	RECIRC WATER
---	RECIRC WATER BELOW GRADE

PLUMBING PIPING LEGEND

	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	END CAP
	NEW TO EXISTING PIPE CONNECTION
	FLOW DIRECTION ARROW
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPE CONNECTION
	HAMMER ARRESTOR (PISTON TYPE)
	HAMMER ARRESTOR (BELLOW TYPE)
	PIPING LINEWEIGHT: NEW/DEMOLITION
	PIPING LINEWEIGHT: EXISTING

PLUMBING ABBREVIATIONS

AG	ABOVE GRADE	MAU	MAKE-UP AIR UNIT
ADD	ADDENDUM	MC	MECHANICAL CONTRACTOR
ADDL	ADDITIONAL	MECH	MECHANICAL
ADJ	ADJUSTABLE	MIN	MINIMUM
AFF	ABOVE FINISH FLOOR	NG	NATURAL GAS
AFG	ABOVE FINISH GRADE	NTS	NOT TO SCALE
ALT	ALTERNATE	NPCW	NON POTABLE COLD WATER
BG	BELOW GRADE	ORD	OVERFLOW ROOF DRAIN
CO	CLEANOUT	OS	OPEN SITE
COL	COLUMN	OSD	OVERFLOW STORM DRAIN
CW	COLD WATER	PC	PLUMBING CONTRACTOR
DN	DOWN	PLBG	PLUMBING
DS	DOWNSPOUT	PRES	PRESSURE
EC	ELECTRICAL CONTRACTOR	QTY	QUANTITY
ECO	EXTERIOR CLEANOUT	RD	ROOF DRAIN
EQ	EQUAL	RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT	SAN	SANITARY
FD	FLOOR DRAIN	SCH	SCHEDULE
FLR	FLOOR	SD	STORM DRAIN
FS	FLOOR SINK	SPEC	SPECIFICATIONS
FT	FOOT (FEET)	SS	STAINLESS STEEL
F	FURNACE	TEMP	TEMPERATURE
GAL	GALLON	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UR	URNAL
GPM	GALLONS PER MINUTE	V	VENT
GI	GREASE INTERCEPTOR	VTR	VENT THRU ROOF
GW	GREASE WASTE	W/	WITH
HW	HOT WATER	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN	WC	WATER CLOSET

PLUMBING SHEET INDEX

P000	PLUMBING TITLE SHEET
P100	PLUMBING SITE PLAN
P101	PLUMBING PLAN
P201	PLUMBING ROOF PLAN

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CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



KS

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KP

checked by

JULY 2024

date

revisions



MOORE
PUBLIC SCHOOLS

EARLYWINE
ELEMENTARY SCHOOL
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P000



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Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70011-00

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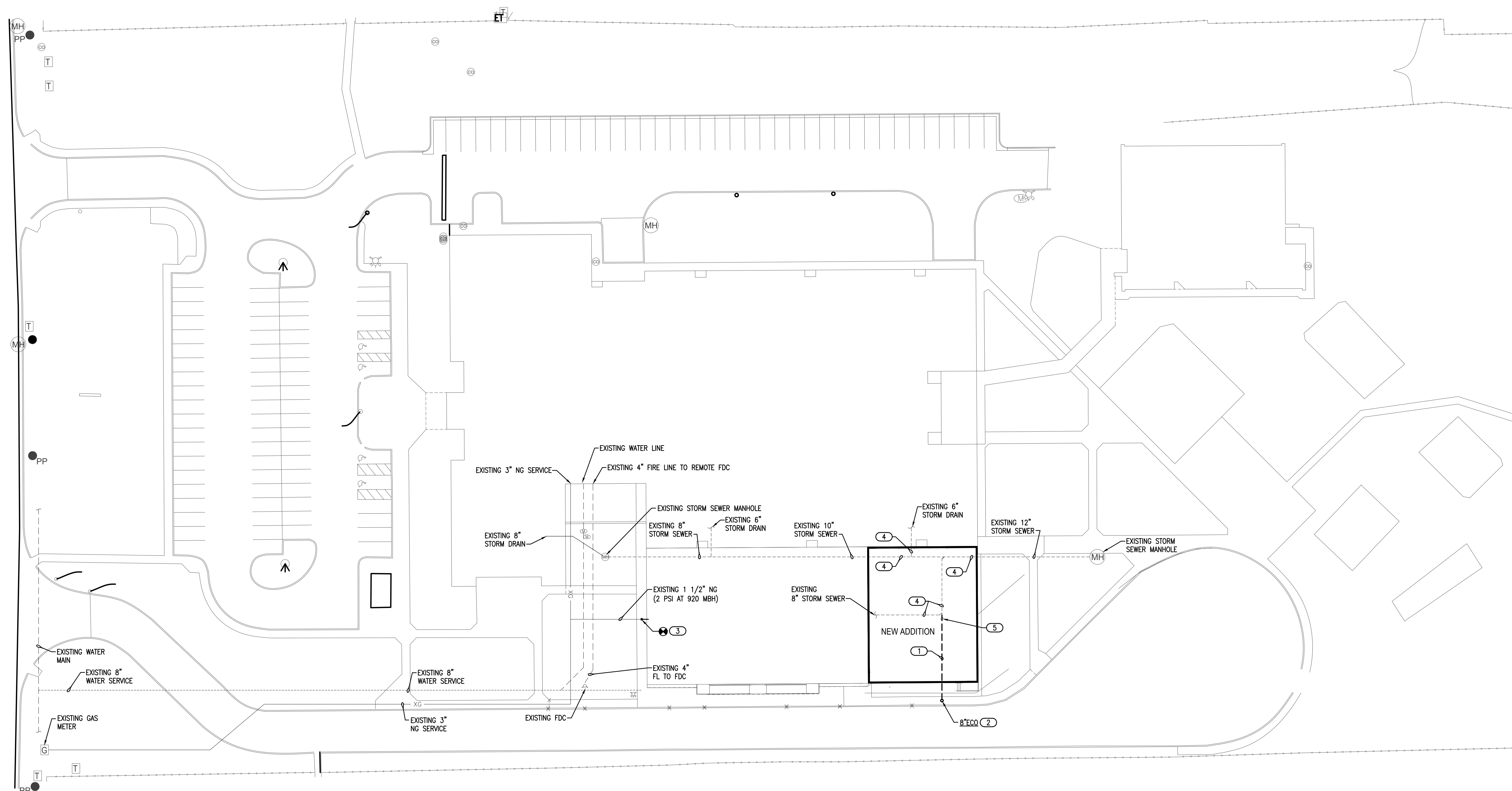
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- ### KEYED NOTES
- ROUTE NEW 8" STORM LINE TO NEW EXTERIOR CLEANOUT. CONNECT NEW STORM LINE TO EXISTING STORM LINE. FIELD VERIFY INVERT ELEVATION, SIZE AND LOCATION. NEW STORM PIPE TO BE RATED FOR BELOW INTERIOR FLOOR.
 - INSTALL NEW 8" EXTERIOR STORM CLEANOUT. COORDINATE LOCATION WITH SITE CONTRACTOR.
 - FIELD VERIFY EXISTING SIZE AND LOCATION OF NATURAL GAS LINE AND CONNECT NEW 1/2" NATURAL GAS LINE (130 MBH @ 2 PSI) TO EXISTING. ROUTE NEW GAS PIPE UP TO ROOF TO SERVE MECHANICAL EQUIPMENT. SEE SHEET P201 FOR CONTINUATION.
 - ALL EXISTING STORM PIPING BELOW NEW BUILDING TO BE VERIFIED FOR PIPE TYPE RATED FOR BELOW FLOOR. REPLACE AS REQUIRED.
 - REMOVE EXTERIOR CLEANOUT AND BRANCH PIPE DOWN TO 8" STORM SEWER PIPE.

- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 - PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR INVERT ELEVATIONS.
 - COORDINATE WITH STRUCTURAL FOR ALL BELOW GRADE PIPE ROUTING WITH FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS. REFER TO STRUCTURAL PLANS FOR BEAM DETAILS AND EXACT LOCATIONS.
 - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.



1 PLUMBING SITE PLAN

SCALE: 1/32" = 1'-0"



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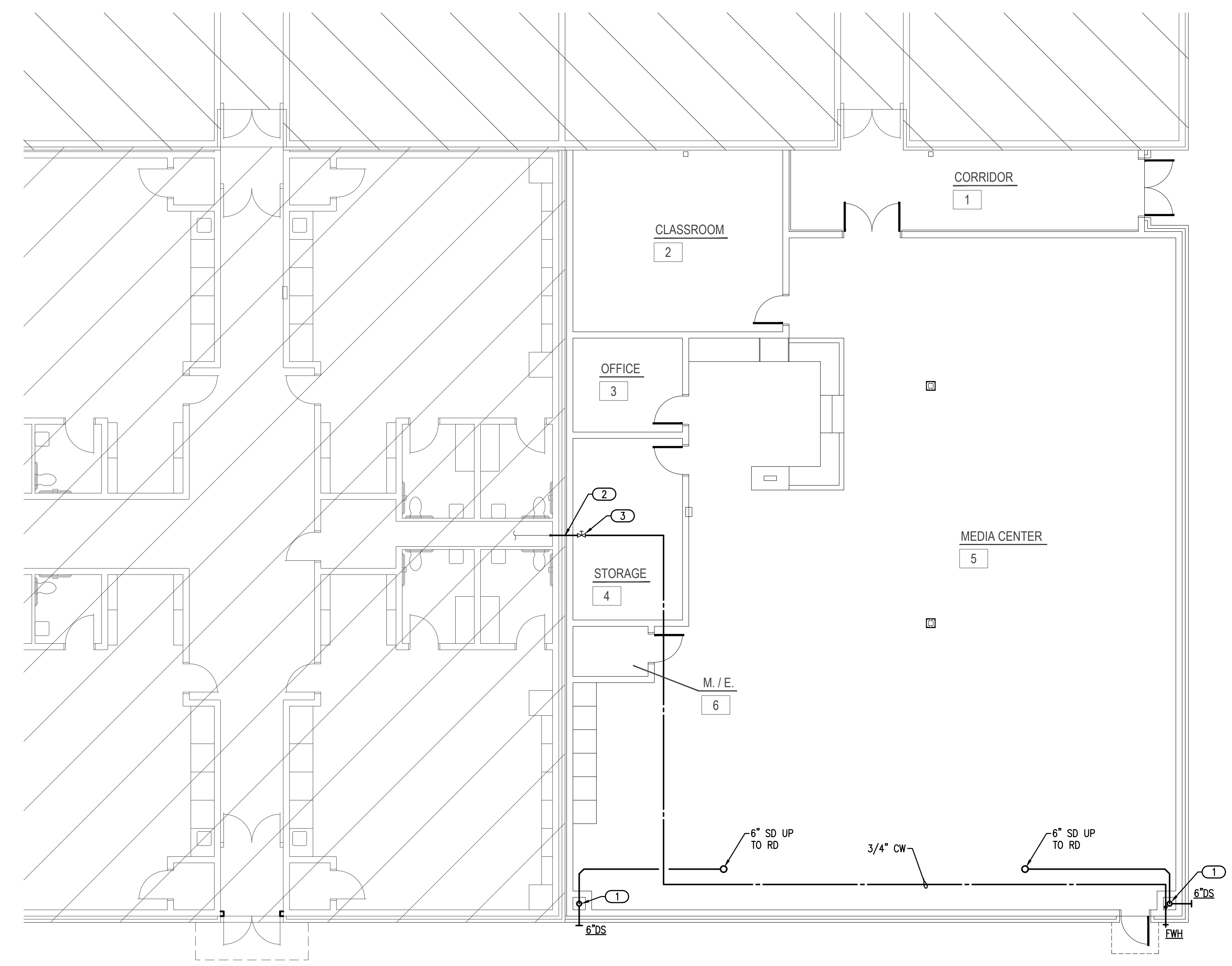
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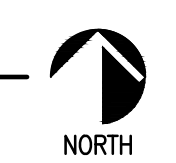
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KEYED NOTES	
1	COORDINATE CHASE SIZE WITH GC FOR INSULATED 6" STORM PIPE. INSTALL PIPE FLOOR SUPPORT AT BOTTOM ELBOW. INSULATE PIPE FROM ROOF DRAIN TO WALL PENETRATION. 1" THICK INSULATION.
2	REMOVE WATER WALL HYDRANT. CONNECT NEW INSULATED 3/4" CW TO EXISTING CW PIPE SERVING HYDRANT. EXTEND INSULATED 3/4" CW UP IN CHASE TO ABOVE CEILING OF NEW ADDITION AND ROUTE TO NEW WALL HYDRANT.
3	INSTALL BALL VALVE IN 3/4" CW PIPE ABOVE CEILING IN STORAGE ROOM.

GENERAL NOTES	
1.	COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2.	FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.



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



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- ### KEYED NOTES
- COORDINATE INSTALLATION OF ROOF DRAINS WITH STRUCTURAL AND ROOFING CONTRACTOR. SEE PLUMBING PLAN P101 FOR STORM PIPE ROUTING.
 - INSTALL 1/2" NATURAL GAS (2 PSI) LINE TO ROOFTOP UNIT. PROVIDE SHUT-OFF VALVE, DRIP LEG, PRESSURE REGULATOR AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MECHANICAL CONTRACTOR. SEE DETAIL 1/P000.
 - INSTALL ROOF PIPE SUPPORTS FOR NATURAL GAS PIPE (2 PSI). PROVIDE MIRD INDUSTRIES MODEL J-RAH-8 ROOF TOP SUPPORTS OR APPROVED EQUAL. INSTALL AT 6'-0" ON CENTER FOR 1/2" PIPE. REFER TO GENERAL NOTES FOR PAINTING GAS PIPE. SEE DETAIL 2/P000.
 - INSTALL MANUAL SHUT-OFF VALVE IN NATURAL GAS LINE AND ROUTE DOWN TO CONNECT TO EXISTING 1 1/2" NATURAL GAS MAIN. SEE SHEET P100 FOR CONTINUATION.
 - ROUTE NATURAL GAS LINE OVER ROOF PARAPET. FIELD VERIFY ROUTING.

- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 - ALL ABOVE GRADE EXTERIOR NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED THEN PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
 - PIPE IDENTIFICATION SHALL BE THE WORDS "NATURAL GAS" IN BLACK LETTERS AT 5 FOOT INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
 - ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.

