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PLUMBING ABBREVIATIONS PLUMBING SYMBOLS NOTE: ALL ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT ABOVE FINISHED FLOOR KIT. KITCHEN <u>SYMBOL</u> **DESCRIPTION** APPROXIMATELY APPROX. ACID RESISTANT A.R. LENGTH/LONG GATE VALVE $\longrightarrow \bigvee$ ARCH. ARCHITECT(URAL) L-#/LAV-# LAVATORY A.V. AIR RELIEF VALVE GLOBE VALVE AIR TEMPERATURE RISE METER A.T.R. MAXIMUM MAX. AUTO AUTOMATIC A.S.R. MECH. MECHANICAL BALL VALVE AUTOMATIC SPRINKLER RISER MFR. MANUFACTURER A.A.V. AIR ADMITTANCE VALVE M.H. MANHOLE **BUTTERFLY VALVE** B.D. BAROMETRIC DAMPER MIN. MINIMUM BLDG. BUILDING MISC. MISCELLANEOUS CHECK VALVE BOT. BOTTOM MTD. MOUNTED BALANCING VALVE N.I.C. CL CLG. CENTERLINE NOT IN CONTRACT NO./# NUMBER CEILING C.O. CLEAN OUT NOM. NOMINAL BALANCING VALVE COL. COLUMN N.T.S. NOT TO SCALE WITH TEST PORTS CONC. CONCRETE O.C. PLUG VALVE ON CENTER COND. CONDENSER(ATE) OVERFLOW ROOF DRAIN CONSTRUCTION ORD-# CONSTR CONTRACTOR O.S.D. OPEN SITE DRAIN CONTR. CPRSR. COMPRESSOR P.E. PNEUMATIC/ELECTRIC C.W. COLD WATER (DOMESTIC) PREFAB. PREFABRICATED P.R.V. PRESSURE REDUCING VALVE DEPTH/DEEP PIPE TURNED UP P.V.C. POLYVINYL CHLORIDE DIA/Ø DIAMETER DW. DRAWING R/RAD **RADIUS** PIPE TURNED DOWN RD-# **ROOF DRAIN** EFF. **EFFICIENCY** REQ'D. REQUIRED **ELEVATION** ELEC. ELECTRIC(AL) RM. ROOM PIPE OUT TOP **ELEVATOR** SCHED. SCHEDULE ELEV. SHT. SHEET EMER. **EMERGENCY** E.P. SIM. SIMILAR ELECTRIC/PNEUMATIC PIPE OUT BOTTOM EQUIP. SPEC(S) SPECIFICATION(S) **EQUIPMENT** STD. STANDARD EXIST. **EXISTING** EXP. **EXPANSION** DOMESTIC COLD WATER PIPING TXV THERMAL EXPANSION VALVE EXT. EXTERIOR TYP. TYPICAL EXISTING DOMESTIC HOT WATER PIPING UNLESS OTHERWISE NOTED FLOOR DRAIN DOMESTIC HOT WATER RETURN PIPING FINISHED FLOOR VENT FIRE PROTECTION VALVE FEET PER MINUTE VACUUM FS-# FLOOR SINK VACUUM BREAKER V.B. FIRE PROTECTION PIPING GAS (NATURAL) V.I.F. VERIFY IN FIELD GA. GAUGE WIDE/WIDTH NATURAL GAS PIPING GAL. GALLON G.P.M. GALLONS PER MINUTE WITH WITHOUT W/O ——RC —— RAIN CONDUCTOR PIPING WC-# WATER CLOSET HEIGHT/HIGH WALL CLEAN OUT H.W. HOT WATER (DOMESTIC) W.C.O. —— SAN —— SANITARY PIPING H.W.R. HOT WATER RETURN (DOMESTIC) WH-# WATER HEATER STORM PIPING I.D. INSUL. INSULATION/INSULATE ——CONDS— CONDENSER WATER SUPPLY PIPING INTERIOR INTR. INVERT ELEVATION I.E. ——CONDR—— CONDENSER WATER RETURN PIPING ____110°____ DOMESTIC 110° HOT WATER PIPING

——140°——

——PD ——

—— HPS ——

——HWHS——

——HWHR——

——CHWS——

——CHWR——

—— CA ——

—— STM ——

—— COND——

_____TW____

DOMESTIC 140° HOT WATER PIPING

HEAT PUMP WATER SUPPLY PIPING

HEAT PUMP WATER RETURN PIPING

HOT WATER HEATING SUPPLY PIPING

HOT WATER HEATING RETURN PIPING

CHILLED WATER SUPPLY PIPING

CHILLED WATER RETURN PIPING

DEIONIZED WATER PIPING

COMPRESSED AIR PIPING

CONDENSATE PIPING

REMOVE / DEMOLISH

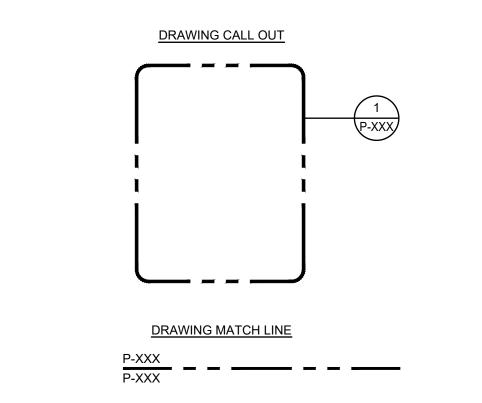
TEMPERED WATER PIPING

STEAM PIPING

PUMPED DISCHARGE PIPING

PLUMBING LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT



DEMOLITION SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

<u>SYMBOL</u>

DESCRIPTION

EXISTING SERVICE AND OR EQUIPMENT TO BE

EXISTING SERVICE AND OR EQUIPMENT TO REMAIN.

NEW SERVICE AND OR EQUIPMENT.

NEW CONNECTION TO EXISTING SERVICE AND OR EQUIPMENT.

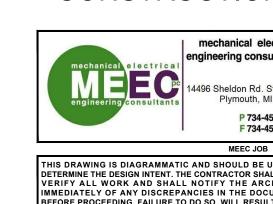
DEMOLITION GENERAL NOTES:

- COORDINATE SHUT-DOWN OF ANY SYSTEM WITH THE BUILDING SERVICES PERSONNEL PRIOR TO SYSTEM SHUT-DOWN.
- 2. REMOVE (INCLUDING DISCONNECTION OF) MECHANICAL SERVICE AS INDICATED AND/OR DESCRIBED ALONG WITH PIPING, HANGERS, SUPPORTS, CONTROLS AND ALL RELATED ACCESSORIES.
- 3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
- 4. WHERE DAMAGE OCCURS DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR AS REQUIRED SO AS TO BE COMPATIBLE WITH EXISTING. 5. WHERE DUCT AND/OR PIPE INSULATION HAS BEEN
- DAMAGED, THE CONTRACTOR SHALL REPAIR AS REQUIRED SO AS TO BE COMPATIBLE WITH EXISTING. 6. ALL ITEMS DEMOLISHED SHALL BE REMOVED FROM THE
- SITE AND DISPOSED OF PROPERLY, UNLESS NOTED OTHERWISE. 7. LIMITS OF DEMOLITION ARE INDICATED ON THE DRAWINGS.
- SHOULD EXISTING FIELD CONDITIONS REQUIRE MODIFICATIONS OF THESE LIMITS FOR THE PROPER INSTALLATION OF NEW WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH MODIFICATIONS.
- 8. CAP AND SEAL AIRTIGHT ALL UNUSED OPENINGS ON THE RETURN AND SUPPLY DUCTWORK.

PLUMBING GENERAL NOTES:

- 1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL NEW PLUMBING FIXTURES.
- 2. ALL PLUMBING RELATED CORING THROUGH FLOORS SHALL BE BY PLUMBING CONTRACTOR.
- 3. COORDINATE ALL NEW LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES THROUGH WALLS SLABS AND FOUNDATIONS WITH STRUCTURAL DRAWINGS AND EXISTING FIELD CONDITIONS.
- 4. COORDINATE ALL PIPE ROUTING WITH SITE CONDITIONS, EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ALL OTHER TRADES TO AVOID INTERFERENCES. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
- 5. ALL DOMESTIC WATER AND OVERHEAD STORM PIPING SHALL BE INSULATED AND LABELED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
- 6. ALL PIPING SHALL BE CONCEALED IN WALLS, CEILING SPACES OR ARCHITECTURAL SOFFITS.
- 7. SEAL ALL PENETRATIONS THROUGH WALLS AND FLOORS AIR AND WATERTIGHT. COORDINATE LOCATIONS AND ELEVATIONS OF ALL NEW UNDERGROUND UTILITIES WITH CIVIL SITE PLANS PRIOR TO START OF CONSTRUCTION.
- 8. CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCES (PER N.E.C.) ABOVE AND AROUND ANY NEW ELECTRICAL PANELS, EQUIPMENT AND TRANSFORMERS WHEN ROUTING OVERHEAD DOMESTIC WATER AND STORM PIPING.
- 9. FAUCETS AND PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AND COMPLY WITH LOCAL ENERGY STANDARDS.
- 10. RUN ALL UNDERGROUND SANITARY AND STORM PIPING 21 OR LESS AT 1/4" PER FOOT MINIMUM PITCH UNLESS NOTED OTHERWISE. SANITARY PIPING LESS 3" OR LARGER SHALL BE PITCHED AT 1/8" PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

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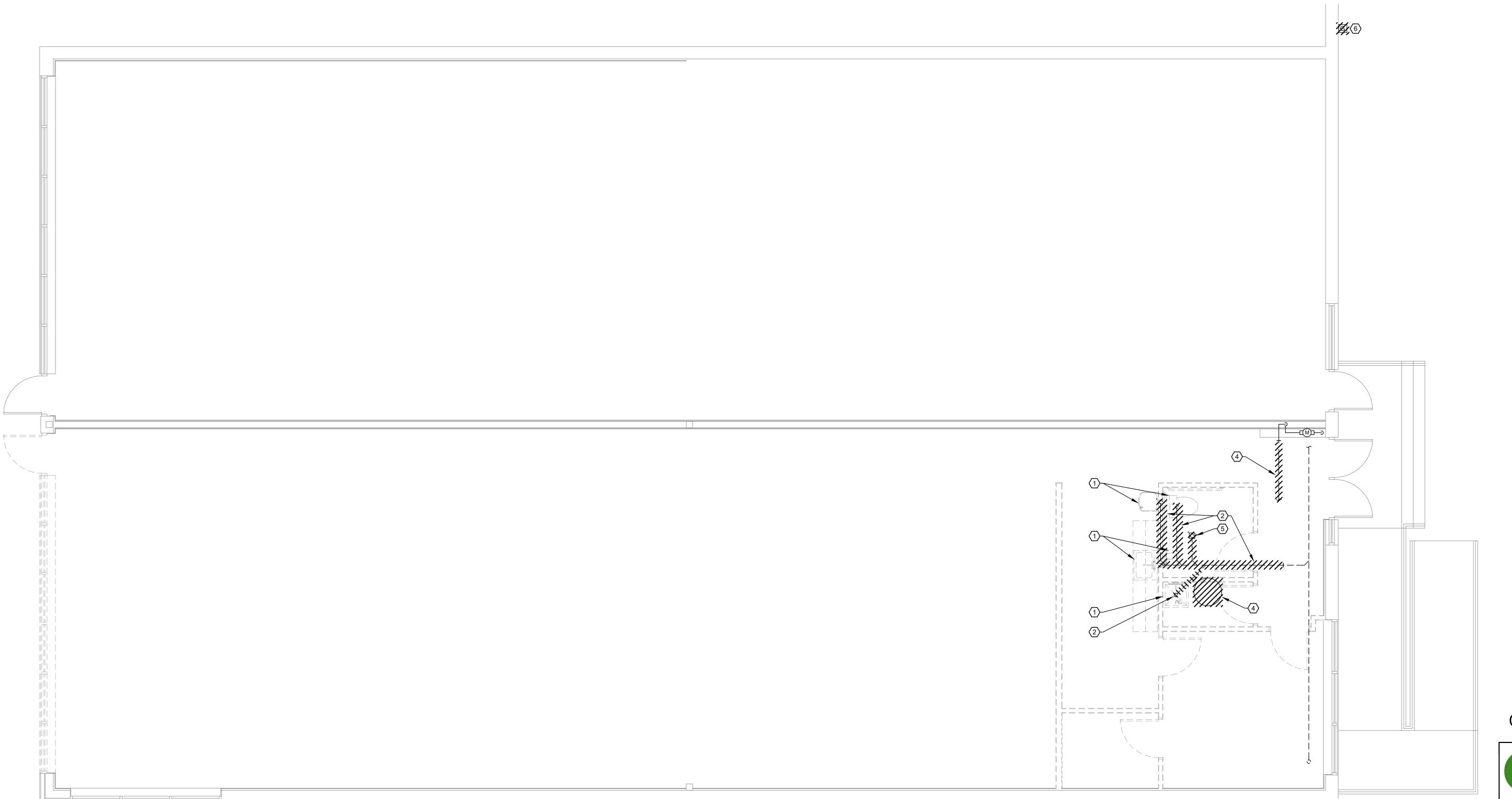
- CONTRACTOR TO COORDINATE ROUTING OF EXISTING SERVICES.
- CONTRACTOR TO COORDINATE DISPOSAL OF ALL PLUMBING FIXTURES WITH OWNER/ARCHITECT.

KEY NOTES: (#)

- REMOVE EXISTING PLUMBING FIXTURE COMPLETE.
- 2. REMOVE PORTION OF EXISTING SANITARY

AND PREP FOR NEW CONNECTION.

- 3. REMOVE EXISTING VENTING COMPLETE.
- 4. REMOVE EXISTING COLD WATER BACK TO METER AND PREP FOR NEW CONNECTION. REMOVE EXISTING WATER HEATER AND ASSOCIATED PIPING COMPLETE.
- REMOVE EXISTING FLOOR DRAIN AND SANITARY PIPING.
- 6. REMOVE EXISTING GAS METER AND ASSOCIATED PIPING COMPLETE.



FLOOR PLAN - PLUMBING DEMOLITION

SCALE: 1/4" = 1'-0"

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4. 2" GREASE SANITARY UP.

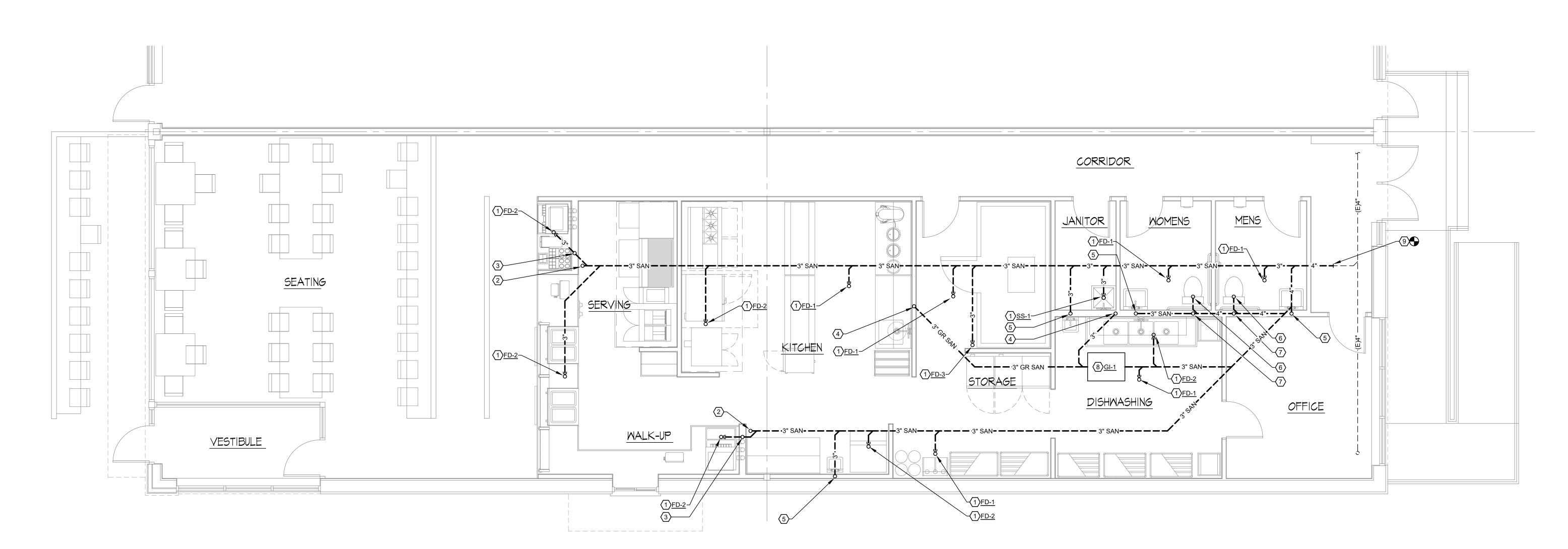
5. 2" SANITARY UP.

6. 4" SANITARY UP TO WATER CLOSET.

7. 2" VENT UP.

8. GREASE INTERCEPTOR.

9. CONNECT NEW SANITARY TO EXISTING. FIELD VERIFY EXACT SIZE AND LOCATION.

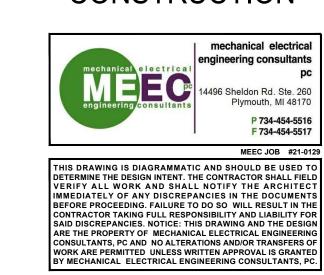


FLOOR PLAN - UNDERGROUND PLUMBING NEW WORK

SCALE: 1/4" = 1'-0"

NORTH

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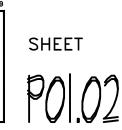
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PROPOSEL NL...
SOFO YUMM
SOFO YUMM
SOFO YUMM
TO SEE AUBURN ROAD, A
TELOOR PLAN -

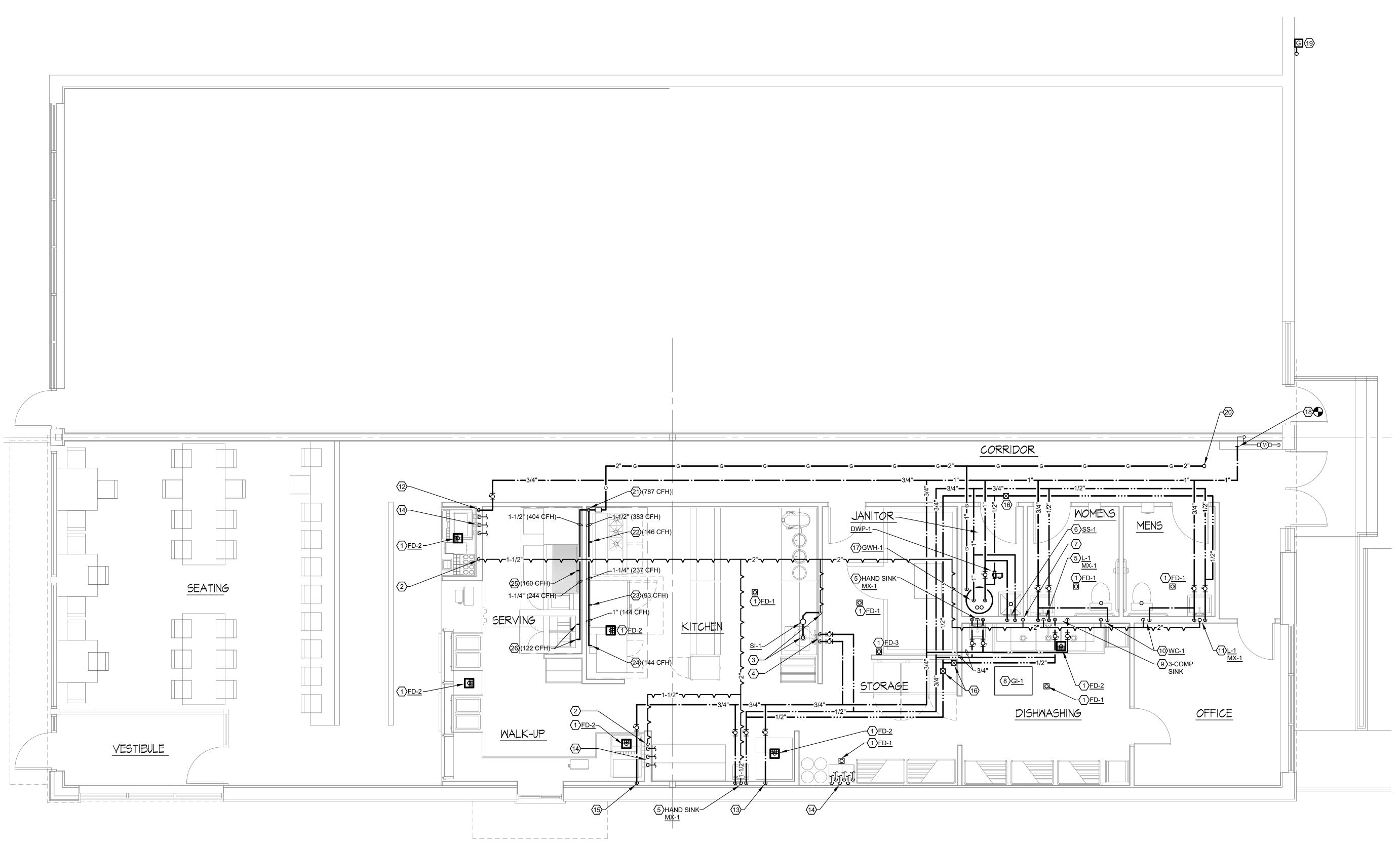
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IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING, FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES. NOTICE: THIS DRAWING AND THE DESIGN ARE THE PROPERTY OF MECHANICAL ELECTRICAL ENGINEERING CONSULTANTS, PC AND NO ALTERATIONS AND/OR TRANSFERS OF WORK ARE PERMITTED UNLESS WRITTEN APPROVAL IS GRANTED BY MECHANICAL ELECTRICAL ENGINEERING CONSULTANTS, PC.



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NORTH

FLOOR PLAN - ABOVE GROUND PLUMBING NEW WORK

SCALE: 1/4" = 1'-0"

KEY NOTES: (#)

- 1. 3" SANITARY WITH P-TRAP DOWN.
- 2. 1-1/2" VENT UP.
- 3. 1-1/2" GREASE WASTE FROM DISPOSER. ROUTE BELOW COUNTER TO SOLIDS INTERCEPTOR SI-1. ROUTE 1-1/2" GREASE WASTE IN WALL AND DOWN. 1-1/2" VENT UP.
- 1/2" HOT AND COLD WATER DOWN TO DISPOSER/SINK.
- 5. 2" SANITARY DOWN, 1-1/2" VENT UP. 1/2" HOT AND COLD WATER DOWN.
- 6. 3" SANITARY DOWN. 1/2" HOT AND COLD WATER DOWN.
- 7. 2" GREASE SANITARY DOWN. 1-1/2" VENT UP.
- GREASE INTERCEPTOR.
- 9. 1/2" HOT AND COLD WATER DOWN.
- 10. 4" SANITARY DOWN, 2" VENT UP. 1/2" COLD WATER DOWN.
- 11. 2" SANITARY DOWN, 3" VENT UP THROUGH ROOF. 1/2" HOT AND COLD WATER DOWN.
- 12. 3/4" COLD WATER DOWN TO COUNTERTOP BEHIND EQUIPMENT. ROUTE 3/8" TO CARBONATOR WITH WATTS #SD3 BACKFLOW PREVENTER. ROUTE 1/2" TO BEVERAGE DISPENSER. ROUTE 3/8" TO ICE CUBER WITH WATTS #7C DUAL CHECK. ROUTE 3/8" TO TEA BREWER WITH WATTS #7C DUAL CHECK.
- 13. 1/2" COLD WATER DOWN TO ICE MAKER WITH WATTS #7C DUAL CHECK.
- 4" GALVANIZED PIPE CHASE ROUTED IN CEILING SPACE FOR BEVERAGE LINES. COORDINATE QUANTITY AND LOCATION WITH EQUIPMENT DRAWINGS.
- 15. 3/4" COLD WATER DOWN TO EQUIPMENT.
 ROUTE 3/8" TO CARBONATOR WITH WATTS
 #SD3 BACKFLOW PREVENTER. ROUTE 1/2" TO
 BEVERAGE DISPENSER.
- 16. BALANCE VALVE SET AT 0.5 GPM.
- 17. 1" HOT AND COLD WATER. 1/2" HOT WATER RETURN. 1" G. WITH SHUT-OFF AND DRIP LEG. (125 CFH). 3" COMBUSTION AIR INTAKE AND RELIEF UP THROUGH ROOF PER MANUFACTURER.
- 18. CONNECT NEW 1" COLD WATER TO EXISTING METER.
- 19. NEW GAS METER. TOTAL CONNECTED LOAD = 1634 CFH. PROVIDE 7" WC PRESSURE TO BUILDING. COORDINATE WITH LOCAL UTILITY COMPANY. PIPING SIZED PER IFGC TABLE 402.4(2) WITH A DEVELOPED LENGTH OF 150'. 3" G. UP TO ROOF. SEE SHEET P01.03.
- 20. 2" G. FROM ROOF ABOVE. (912 CFH).
- 21. 2" G. DOWN TO COOK LINE WITH SOLENOID VALVE. (787 CFH)
- 22. 1" G. TO RANGE. (146 CFH ITEM #K-09)
- 23. 1" G. TO OVEN. (93 CFH ITEM #K-08)
- 1" G. TO CONVECTION OVEN. (144 CFH ITEM
- 25. 1-1/4" G. TO CHARBROILER. (160 CFH ITEM
- #K-02)
- 26. 1" G. TO FRYER. (122 CFH ITEM #K-05)

ROOF PLAN - PLUMBING NEW WORK

SCALE: 1/4" = 1'-0"

KEY NOTES: (#)

- 1. 3" G. FROM BELOW. SEE SHEET P01.02. (1634 CFH)
- 2. SUPPORT GAS PIPING ON ROOF TYPICAL. SEE DETAIL.
- 3. 2" G. DOWN THROUGH ROOF. SEE SHEET P01.02. (912 CFH)
- 4. 3" VENT THROUGH ROOF.

DESIGN SYSTE

CHITECTURE
OLD KENT ROAD WARREN. MICHIGAN 48



PROPOSED RESTAURANT TENANT SPACE

OF TUMM

OF TUMM

OF TOWN ROAD, AUBURN HILLS, MICHIGAN 48326

DE 3365 AUBURN ROAD, AUBURN HILLS, MICHIGAN 48326

DE 3365 AUBURN ROAD, AUBURN HILLS, MICHIGAN 48326

DE 3365 AUBURN ROAD, PLUMBING NEW MORK

NOOF PLAN - PLUMBING NEW MORK

NOOF PLAN - PLUMBING NEW MORK

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	PLUMBING FIXTURE SCHEDULE										
MADIC	ITEM						PIPE CONNECTION SIZES				
MARK	ITEM	ADA	DESCRIPTION	ACCESSORIES	W	V	CW	HW	NOTES		
WC-1	Mansfield Summit Elongated ADA 1.6 Gpf FLOOR MOUNTED VC-1 TANK TYPE X Right Height 16-3/4" high Low Consumption Two Piece Tank Toilet #2002.014		Seat: Bemis 3155SSCT Supply: McGuire #H172BV Flange 1/4 turn angle valve	4"	2"	1/2"	-	2			
L-1	WALL MOUNTED Mar LAVATORY		Mansfield 2018HBNS-4 Wall Mounted Lavatory With Backsplash	Faucet: American Standard #7385.004VA.002 Aerator: American Standard #V05 Drain: McGuire #155A Supply: McGuire #H170BV-LR 1/4 turn p-Trap: McGuire #8872C-17T 1-1/2" Chrome Plated Brass Carrier: Jay R. Smith #0700-Z	1-1/2"	1-1/2"	1/2"	1/2"	1		
SS-1 SERVICE SINK			FIAT Mop Sink #MSB2424	Faucet: FIAT #830-AA with Integral Check Valves Bracket: FIAT #832-AA Mop Hanger: FIAT #889-CC Drain Gasket: FIAT #QDC3-2 Splash Panel: FIAT #MSG	3"	-	1/2"	1/2"			
MX-1	THERMOSTATIC MIXING VALVE		WATTS LFUSG-B-M2	ASSE 1070 Thermostatic Mixing Valve			1/2"	1/2"			

APPROVED PLUMBING FIXTURE MANUFACTURERS: AMERICAN STANDARD, MANSFIELD, CRANE, TOTO, ELKAY, KOHLER, ZURN, SLOAN, FIAT, FLORESTONE, MUSTEE. APPROVED PLUMBING HARDWARE MANUFACTURERS: MOEN, AMERICAN STANDARD, DELTA, KOHLER, CHICAGO, SLOAN, ZURN, T&S, ACORN, TOTO.

(FIXTURES TO BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS)

1. PROVIDE PLASTIC TYPE PIPE COVERS EQUAL TO TRUEBRO "LAV GUARD" ON ALL ACCESSIBLE LAVATORIES AND SINKS. 2. ALL TANK TYPE WATER CLOSETS SHALL BE ORDERED WITH HANDLES ON THE OPEN SIDE (ADJACENT TO THE LAVATORY) PER CODE.

GAS FIRED DOMESTIC WATER HEATER SCHEDULE												
	=					CAPACITIES		GAS	DATA	VEI	NTS	
	MARK	MANUFACTURER	MODEL NUMBER	LOCATION	RECOVERY (GPH)	STORAGE (GALLONS)	TEMP. RISE (°F)	INPUT (CFH)	FUEL	FLUE (Ø)	C.A. (Ø)	NOTES
	GWH-1	BRADFORD	EF-60T-125E-3N	SEE PLANS	145	60	100	125	NATURAL	3	3	1 - 5

(APPROVED EQUAL: LOCHINVAR, A.O. SMITH, BRADFORD WHITE, BOCK)

1. TEMPERATURE AND PRESSURE RELIEF VALVE

2. MAGNESIUM TANK SAVER ANODE ROD

3. A.G.A. CERTIFIED 4. CONCENTRIC VENT KIT

5. RECIRC PUMP <u>DWP-1</u>. SEE SCHEDULE

	DOMESTIC WATER RE-CIRC PUMP SCHEDULE													
	MARK	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW	TOTAL HEAD	PUMP		ELECTRICAL DATA				NOTES:
IV	VIARK	WANOFACTORER	MODEL NOMBER	LOCATION	TIPE	(GPM)	(FT)	SIZE	HP	RPM	VOLTAGE	PHASE	HZ	NOTES.
D	OWP-1	GRUNDFOS	UP15-18BUC7	SEE PLANS	IN-LINE	1	13.5	1/2"	1/25	2,900	120	1	60	1,2,3,4,5

(APPROVED EQUAL: TACO, BELL & GOSSETT, ARMSTRONG)

NOTES: 1. U.L. LISTED

2. BRONZE FITTED

3. 5-FOOT CORD LINE WITH PLUG, AQUASTATAND TIMER

4. INTEGRATED CHECK VALVE 5. SEE WATER HEATER PIPING DIAGRAM

FLOOR DRAIN SCHEDULE									
MADIZ	MANUICACTUDED	MODEL NUMBER	LOCATION	DODY MATERIAL	GR	ATE	ACCESCODY	PIPE SIZE	NOTES.
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	BODY MATERIAL	TYPE	FINISH	ACCESSORY	(IN.)	NOTES:
FD-1	ZURN	ZN415-6B	SEE PLAN	DUCO CAST IRON	6" Ø	NICKEL BRONZE	-	3"	1
FD-2	ZURN	ZN1900-2	SEE PLAN	DUCO CAST IRON	1/2 GRATE	NICKEL BRONZE	BOTTOM DOME	3"	-
FD-3	ZURN	ZN415-6B	SEE PLAN	DUCO CAST IRON	6" Ø	NICKEL BRONZE	-	3"	1, 2

(APPROVED EQUAL: ZURN, JOSAM, JAY R. SMITH, SIOUX CHIEF, MIFAB)

NOTES:

1. PROVIDE "SURESEAL" IN LINE TRAP SEAL.

2. PROVIDE FUNNEL.

	GREASE INTERCEPTOR SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	INLET, OUTLET SIZE (IN.)	FLOW RATE (GPM)	WATER CAPACITY (GAL)	GREASE CAPACITY (LBS)	SOLIDS CAPACITY (GAL)	SETTING	NOTES:
GI-1	SCHIER	GB3	INSIDE	3	75	40	175.6	1.9	FULLY RECESSED	1 - 3

(APPROVED EQUAL: JAY R. SMITH, JOSAM, ZURN, PROCEPTOR)

NOTES: 1. 2,000 LB. LOAD RATED, BOLTED GAS/WATER TIGHT 24"Ø COMPOSITE COVER. 2. TELEGLIDE (SHORT 3.5"-22") (LONG 22"-37") ADJUSTABLE RISER.

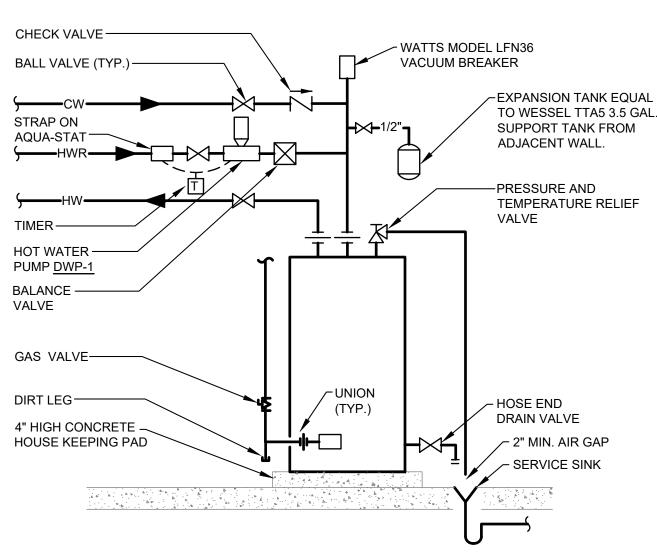
3. OPTIONAL 3" INLET/OUTLET CONNECTIONS.

SOLIDS INTERCEPTOR SCHEDULE										
MARK	MANUFACTURER	MODEL NUMBER	LOCATION	INLET, OUTLET SIZE (IN.)	CAPACITY (GALLONS)	SETTING	NOTES:			
SI-1	SCHIER	HLT-1176-1	SEE PLAN	1 1/2"	1/2	FLOOR				

(APPROVED EQUAL: J.R. SMITH, JOSAM, ZURN)

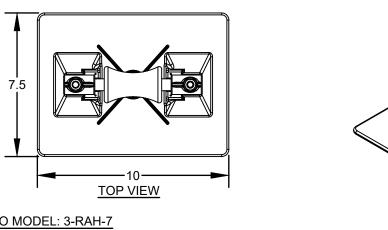
FIXTURE	HOT WATE	R USAGE SO	CHEDULE			
FIXTURE OR EQUIPMENT TYPE	# PROPOSED	WATER TEMPERATURE DEGREE RISE (° F)	WATER TEMPERATURE (° F)	GPH DEMAND (100°F)	TOTAL DEMAND GPH (140° F)	
HAND SINKS	2	60	100	5.0	10.0	
BATHROOM SINKS	2	60	100	5	10.0	
				60° RISE TOTAL GPH:	20.0	
			60°	RISE REQUIRED BTU's:	10,097.0	
			6	0° RISE REQUIRED kW:	2.9	
1-COMPARTMENT SINK	1	70	110	26.2	26.2	
3-COMPARTMENT SINK	1	70	110	78.5	78.5	
MOP SINK	1	70	110	5.0	5.0	
				70° RISE TOTAL GPH:	109.7	
			70°	RISE REQUIRED BTU's:	64,612.2	
			7	0° RISE REQUIRED kW:	18.7	
				100° RISE TOTAL GPH:	###	
			100°	RISE REQUIRED BTU's:	###	
			10	0° RISE REQUIRED kW:	###	
TOTAL H	OT WATER DEMAND @ 1	40° F (GPH)			###	
GA	S WATER HEATER EFFICI	ENCY			.99	
TOTAL REQUIRED BTU's						
TOTAL REQUIRED kW's						
ST	ORAGE REQUIRED (GALL	ONS)			50 MINIMUM	

MINIMUM PIPE INSULATION THICKNESS										
FLUID OPERATING TEMPERATURE RANGE AND USAGE	INSULATION CONDUCTIVITY	NOMINAL PIPE OR TUBE SIZE (INC								
(F°)	(BTU. IN/H.FT2.F°)	< 1	1 TO < 1-1/2	1-1/2 TO < 4						
141-200	0.25-0.29	1.5	1.5	2.0						
105-140	0.21-0.28	1.0	1.0	1.5						
40-60	0.20-0.26	0.5	0.5	1.0						



N.T.S.

GAS FIRED WATER HEATER PIPING DIAGRAM



MIRO MODEL: 3-RAH-7

KEY INFORMATION

- 3" ID maximum pipe capacity 3-3/4" OD maximum.

- Adjustable in height from 3-3/4" to 7", even load

*ACCESSORY ITEM required, maximum load is 115 lbs. Recommended spacing is not to exceed 10 feet centers depending upon the load. Make certain each pipestand is properly elevated to even load weight at all pipestands.

- Base Material: Polycarbonate - Axle, Roller and Collar material: Polycarbonate - All metal parts are stainless steel

ACCESSORIES - 3-RAH Pipe Strap - Order to Pipe O.D. - Support pad or deck plate - Eternabond: 2-sided tape

PRODUCT DESCRIPTION A "roller-bearing" pipe support used to support roof-mounted gas pipes and other mechanical piping. Unique design absorbs thermal expansion and contraction of pipes thus preventing damage to the roof membrane. Pipes rest on a self-lubricating polycarbonate resin axle and roller.

ISOMETRIC VIEW 7 MAX 4 MIN END VIEW MIRO SUPPORT PAD *ACCESSORY ITEM*

3/4" - 3"Ø GAS PIPE - ROOF SUPPORT DETAIL

NOT FOR CONSTRUCTION



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