PLUMBING FIXTURE UNIT SCHEDULE

DRAINAGE

PLUMBING FIXTURE WASTE SCHEDULE

TAG	DESCRIPTION	DFU'S	COUNT	TOTAL DFU
P-4A	FLOOR DRAIN	2	2	4
P-2	RESTROOM HAND SINK	1	2	2
P-1	WATER CLOSET TANK	4	2	8
		GRAND TOTAL		14
REQUIRED PIPE SIZE: 4"				
REQUIRED SLOPE: 2%				

WATER SUPPLY

PLUMBING FIXTURE SUPPLY SCHEDULE

TAG	DESCRIPTION	WSFU			COUNT	TOTAL WSFU
		CW	HW	TOTAL		
D-1	COFFEE / TEA BREWER	0.5	0	0.5	2	1
P-2	RESTROOM HAND SINK FAUCET	1.5	1.5	2	2	4
J-02	KITCHEN HAND SINK	1.5	1.5	2	4	8
W-20	MOP SINK FAUCET	2.25	2.25	3	1	3
J-01	THREE COMPARTMENT SINK	3	3	4	1	4
G-10	PREP SINK	3	3	4	1	4
P-1	WATER CLOSET TANK	5	0	5	2	10
P-19	YARD HYDRANT	2.5	0	2.5	1	2.5
P-10	ROOF HYDRANT	2.5	0	2.5	1	2.5
GRAND TOTAL						39
REQUIRED GPM						26.3
REQUIRED INCOMING PIPE SIZE: 1-1/2"						

GREASE INTERCEPTOR SIZING

PLUMBING FIXTURE GREASE WASTE SCHEDULE

TAG	DESCRIPTION	DFU'S	COUNT	TOTAL DFU
P-4A	FLOOR DRAIN	2	4	8
P-6	FLOOR SINK	5	3	15
J-02	KITCHEN HAND SINK	2	4	8
W-20	MOP BASIN	3	1	3
J-01	THREE COMPARTMENT SINK	5	1	5
G-10	PREP SINK	2	1	2
	GRAND TOTAL			41

TABLE 709.1 / INTERNATIONAL PLUMBING CODE		Minimum Interceptor Volume	1250
Maximum DFU's	Interceptor volume	G.I SELECTED SIZE- 1500 US GAL	
8	500		
21	750		
35	1,000		
90	1,250		
REQUIRED GW PIPE SIZE: 4"			

WATER HEATER SIZING

WATER HEATER SIZING

TAG	EQUIPMENT	GALLONS PER HOUR DEMAND FROM CHART	QUANTITY	TOTAL GALLONS PER HOUR
J-01	3 COMP SINK	100	1	100
G-10	PREP SINK	50	1	50
W-20	MOP SINK	20	1	20
J-02	HAND SINK	5	6	30
		TOTAL		200

WATER HEATER SIZING CALCULATION:

BTU Required = GPH X (Delta T) X 8.33 / 0.8(EFF)

DELTA T =90 Deg F

THERMAL EFFECIENCY = 0.97

200 X 90 X 8.33 / 0.8 = 154577 BTU

187425 / 1000 = 154.5 MBH

STORAGE REQUIREMENT = GPH X 0.33 = 66 GAL

REQUIRED CAPACITY: BTH-199 A.O SMITH WATER HEATER WITH 100 GALLON STORAGE WITH 261 RECOVERY GPH AT 90 DEGREE F TEMPERATURE RISE HVING 97% EFFICIENCY.

BACKFLOW PREVENTION SCHEDULE

EQUIPMENT	MEDIUM HAZARD APPLICATIONS (SEE NOTE 1)	HIGH HAZARD APPLICATIONS (SEE NOTE 1 & 2)
ICE MACHINE	WATTS MODEL: SD-2	WATTS MODEL: N9
TEA/COFFEE BREWER	WATTS MODEL: SD-3	WATTS MODEL: SD-3
DRINK SYSTEM (CARBONATOR)	WATTS MODEL: SD-3	WATTS MODEL: SD-3
HOSE BIBB	INTEGRAL VACUUM BREAKER	INTEGRAL VACUUM BREAKER
WATER HEATER	WATTS MODEL: N36-M1	WATTS MODEL: N36-M1
MOP SINK	WATTS MODEL: 800M4QT	WATTS MODEL: 800M4QT
COLD WATER MAIN	SEE SHEET P-7	SEE SHEET P-7

NOTES:

1. P.C. SHALL VERIFY BACKFLOW REQUIREMENT WITH LOCAL CODE OFFICIALS. USE MEDIUM HAZARD BACKFLOW DEVICES UNLESS LOCAL CODE OFFICIALS CLASSIFY AS HIGH HAZARD.
2. P.C. SHALL INSTALL PER MANUFACTURERS RECOMMENDATIONS, AND PIPE VENT TO DRAIN WHERE NEEDED INDIRECTLY WITH 2" (MIN.) AIR GAP.
3. P.C. SHALL USE PLASTIC TUBING DOWNSTREAM OF THE BACKFLOW PREVENTER FOR THE CARBONATOR.

WATER HAMMER ARRESTOR SCHEDULE

I.P.S.	F.U. RATING	SIOUX CHIEF	UNIT SIZE	REMARKS
3/4"	1 - 11	652-A	A	P.D.I. CERTIFIED
3/4"	12 - 32	653-B	B	P.D.I. CERTIFIED
1"	33 - 60	654-C	C	P.D.I. CERTIFIED
1"	61 - 113	655-D	D	P.D.I. CERTIFIED
1"	114 - 154	656-E	E	P.D.I. CERTIFIED
1"	155 - 330	657-F	F	P.D.I. CERTIFIED

NOTE: ALL WATER HAMMER ARRESTORS PROVIDED MUST MEET ASSE-1010 REQUIREMENTS.

LEGEND

LINE TYPE

- WASTE PIPING
- VENT PIPING
- COLD WATER PIPING
- 140° — HOT WATER PIPING (140°)
- HW110 — HOT WATER PIPING (110°)
- G — GAS PIPING

SYMBOLS

- FLOOR CLEAN-OUT
- EXTERIOR CLEANOUT
- WALL CLEANOUT
- HUB DRAIN
- FLOOR DRAIN
- FLOOR SINK
- GATE VALVE
- CHECK VALVE
- MIXING VALVE
- BACKFLOW PREVENTER
- GAS COCK AND UNION
- PLUG CLEAN OUT
- TRAP PRIMER
- MECHANICAL GAS VALVE
- VENT THRU ROOF
- DFU A.F.G. — DRAINAGE FIXTURE UNIT ABOVE FINISH GRADE
- X-XX — EQUIPMENT CALLOUT, REFER TO SHEET K-1 FOR DESCRIPTION

ABBREVIATIONS

BFP	BACKFLOW PREVENTER
CP	CONDENSATE PUMP
CO	CLEANOUT
DFU	DRAINAGE FIXTURE UNIT
EF	EXHAUST FAN
EX.	EXISTING
FD	FLOOR DRAIN
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
HS	HAND SINK
ID	INSIDE DIA.
LAV	LAVATORY
MS	MOP SINK
MV	MIXING VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIA.
O/F	OWNER/FRANCHISEE
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
RTU	ROOF TOP EQUIPMENT (HVAC)
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
WC	WATER CLOSET
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

WATER PIPING SIZING CRITERIA

1. ALL PIPE SIZES SHOWN ON RISER ARE BASED ON COPPER PIPE. PEX-A IS AN APPROVED SUBSTITUTION MATERIAL (SEE SPECIFICATION SHEET). HOWEVER, IF PEX-A IS INSTALLED, ALL PIPE SIZES (EXCEPT SINGLE FIXTURE BRANCHES) SHALL BE INCREASED (1) PIPE SIZE FROM SIZES SHOWN ON RISER.
2. COPPER PIPE SIZING BASED ON DESIGN MAXIMUMS OF 8FT/SEC VELOCITY AND 5PSI/100FT TO 8PSI/100FT OF PRESSURE LOSS.
3. PEX-A PIPE SIZING BASED ON MANUFACTURER DESIGN CRITERIA AND DESIGN MAXIMUMS OF 8FT/SEC VELOCITY AND 5PSI/100FT TO 8PSI/100FT OF PRESSURE LOSS.

PLUMBING FIXTURE SCHEDULE

ALL FIXTURES SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. NOT ALL FIXTURES MAY BE USED

P-1 WATER CLOSET: (HANDICAPPED)	ZURN Z5555, WHITE VITREOUS CHINA WITH ELONGATED BOWL, ZURN Z5955SS-EL OPEN FRONT SEAT, ZURN Z6000AV-HET MANUAL FLUSH TANK, HERCULES 90241 JUMBO WAX RING, JONES CO2-993 ANCHOR BOLT PACKAGE. MOUNT FLUSH CONTROL ON WIDE SIDE OF STALL FOR ACCESSIBILITY.
P-2 TRAP PRIMER	ZURN Z1021WL-PC WATER SAVER TRAP PRIMER
P-3 LAVATORY:	ZURN Z5344 20x18 WHITE CHINA LAVATORY W/ 4" CENTERS. ZURN Z1231 LAV CARRIER, ZURN Z86500-XL-G-PT METERING CENTERSET FAUCET. ZURN Z1021-1-1/2 WATER SAVER TRAP PRIMER. TRUEBRO 102-EZ (82193) LAV GUARD TRAP AND SUPPLY COVER F/ TUBLAR P-TRAP, 2 ANGLE STOPS & 2 SUPPLIES.
P-4A FLOOR DRAIN:	ZURN MODEL #ZN415-5B-3NH, WASTE DRAIN, 5" RD., NICKEL BRONZE. PROVIDE TRAP PRIMER CONNECTION FOR RESTROOM DRAINS.
P-4B FLOOR DRAIN:	ZURN MODEL #ZN415-5B-3NH, WASTE DRAIN, 5" RD., NICKEL BRONZE. PROVIDE ZURN FUNNEL MODEL: Z329-7.
P-5 KITCHEN LAV:	PROVIDED BY EQUIPMENT SUPPLIER, INSTALLED W/TRIM BY PC. FURNISHED WITH BASKET DRAIN, WALL BRACKET, AND FAUCET.
P-6 FLOOR SINK:	ZURN FD2375-NH3-H, DRAIN GRATE, 3" FLOOR SINK, ZURN Z19001 1/2 GRATE.
P-7 WALL HYDRANT:	ZURN Z1315-3/4x10 SERIES, FREEZELESS, AUTOMATIC DRAIN, VACUUM BREAKER, BRASS FINISH, AND STAINLESS STEEL TRIM. MOUNT AT 18" A.F.G.
P-8 CLEANOUT FINISH WALL	ZURN ZS-1468 NTERIOR WALL CLEANOUTS SHALL HAVE CLEANOUT BODY PLASTERED OR TILED IN THE WALL WITH THE FACE OF THE BODY FLUSH WITH THE FINISHED WALL. 3" IPS, BRONZE PLUG W/ 7" SS COVER & SCREW.
P-9A CLEANOUT INTERIOR	INTERIOR SHALL BE ZURN ZN1400-4NH-HD-T, 4" NO HUB CONNECTION CAST IRON FLOOR CLEANOUT W/ HEAVY DUTY VENEER POLISHED NICKEL BRONZE SQUARE TOP.
P-9B CLEANOUT EXTERIOR	EXTERIOR CLEANOUTS SHALL BE ZURN ZN1400-4NH-VP 4" NO HUB CONNECTION CAST IRON CLEANOUT W/ POLISHED NICKEL BRONZE SQUARE TOP AND VANDAL PROOF SCREWS.
P-10 ROOF HYDRANT:	WOODFORD Y2-02 3/4" ROOF HYDRANT, NON FREEZE
P-11 WATER HEATER:	A.O. SMITH MODEL #BTH 199 WITH 100 GALLON STORAGE GAS WATER HEATER. CAPACITY OF 199,000 BTU INPUT WITH 97% EFFICIENCY FOR A RECOVERY OF 261 GPH AT A TEMPERATURE RISE OF 90°F. P.C. SHALL PROVIDE A.O. SMITH CONCENTRIC VENT KIT AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDED BY EQUIPMENT SUPPLIER, INSTALLED BY P.C.
P-12 3-COMP. SINK:	UNIVERSAL STAINLESS MODEL #3N-1824-2D24 STAINLESS STEEL SINK ZURN #Z842X1-XL PRERINSE ON WALL MTD. FAUCET, 8" CTRS, POLISHED CHROME PLATED PRERINSE, 3/8" SHORT SWIVEL INLETS W/ CHECK STOPS, 2 1/2" VANDAL RESISTANT COLOR CODED METAL LEVER HANDLES, 24" RISER, 36" SS SPRING HOSE, 1.6 GPM SELF CLOSING PRE-RINSE LEAD FREE. ZURN #Z-84201-XL SWIVEL SWING 8" LEAD FREE POLISHED CHROME PLATED SINK FAUCET W/ SHORT SWIVEL INLETS, 8" CAST BRASS SWING SPOUT, 2.2 GPM PRESSURE COMPENSATING AERATOR AND VANDAL RESISTANT COLOR CODED METAL LEVER. ZURN #Z89600 POT AND VEGETABLE SINK LEVER WASTE CHROME PLATED TWIST DRAIN W/ SLIP NUT AND BLIND CAT. 1 1/4" OVERFLOW, FOR 3 1/2" SINK OPENING, STANDARD 2" NPT MALE OUTLET. FURNISHED BY OWNER (FROM HED).
P-13 UTILITY WASH:	FIAT MSB2424 MOLDED MOP BASIN. ZURN Z843M1-RC SERVICE SINK FAUCET CHROME PLATED WITH VACCUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT; ZURN HOSE AND HOSE BRACKET, 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" BRASS COUPLING AT ONE END.
P-14 HUB DRAIN	ZURN CAST IRON BODY FLUSHING FLANGE WITH 6" (MIN.) ADJUSTABLE NICKEL BRONZE HUB.
P-15 1-COMP SINK	UNIVERSAL STAINLESS MODEL #IN1824-RD24 WITH FAUCET ZURN Z-80012-AF-11F ADD ON FAUCET, 14" SPOUT. FURNISHED BY OWNER (FROM HED).
P-17 GREASE INTERCEPTOR:	1500 US GALLON 3000 PSI H-20 TRAFFIC RATED GREASE INTERCEPTOR SEE DETAIL 18/P7
P-18 USED OIL TANK:	FRONTLINE INTERNATIONAL 3072-NA DIRECT PUMP WASTE COOKING OIL CONTAINMENT TANK WITH 110 VOLT, 15 AMP DEDICATED CIRCUIT AND A CAPACITY OF 200 GALLONS OF USED COOKING OIL.
P-19 YARD HYDRANT:	ZURN Z1385-2-3/4-VB-WH FLOOR/GROUND POST HYDRANT WITH 3/4" NPT INLET WITH OPTIONAL REMOVABLE LOOSE TEE KEY, NON FREEZE.
MV-1 MIXING VALVE	ZURN 12-ZW1070C, 1/2" LEAD FREE THERMOSTATIC MIXING VALVE.
MV-2 MIXING VALVE	ZURN 34-ZW1070C, 3/4" LEAD FREE THERMOSTATIC MIXING VALVE.
BFP BACKFLOW PREVENTER	WATTS MODEL LF909QT-S 2" RPZ W/ STRAINER
PRV PRESSURE REDUCING VALVE	WILKINS NR3XLDU 2" DIP 25-75 PSI DOUBLE UNION PRESSURE REDUCING VALVE.

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT & COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATION FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER REPRESENTATIVE OR DESIGN ENGINEER. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE OWNER REPRESENTATIVE OR THE DESIGN ENGINEER.
2. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR WATER, VENT, AND WASTE SYSTEM TESTS, PER LOCAL CODE REQUIREMENTS. ALL HVAC AND EXHAUST SYSTEMS MUST BE RUNNING WHILE THESE WASTE/VENT TESTS ARE BEING PERFORMED. A CERTIFICATE WILL BE REQUIRED FROM THE PLUMBING CONTRACTOR CERTIFYING COMPLIANCE AND ACCEPTANCE OF THESE TESTS.
3. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO EQUIPMENT PROVIDED UNDER HIS CONTRACT. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF JUNCTION BOXES, DISCONNECTS, AND CIRCUIT BREAKERS (PANELBOARDS). TYPE, SIZE AND NUMBER OF CONDUCTORS AND CONDUITS TO EQUIPMENT SHALL BE EQUAL TO THE JUNCTION BOXES AND DISCONNECT SWITCHES. IN CASE OF PLUMBING EQUIPMENT CONNECTION TO A CIRCUIT BREAKER, THE NUMBER AND SIZE OF CONDUCTORS AND CONDUIT SHALL CONFORM TO THE LATEST NATIONAL ELECTRICAL CODE REGULATIONS. ALL MOTOR STARTERS, SWITCHES, CONTROL DEVICES, ETC., PROVIDED BY THIS CONTRACTOR SHALL BE RECESSED IN THE WALLS, EXCEPT WHERE THESE ITEMS ARE LOCATED IN MECHANICAL ROOMS. PROVIDE A NAMEPLATE FOR ALL EQUIPMENT, SWITCHES, CONTROL DEVICES, ETC.
4. INSTALL ALL PLUMBING FIXTURES TO BE FULLY ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE "WITH THE AMERICANS WITH DISABILITIES ACT OF 1990". FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 – "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODES. ALL PLUMBING FIXTURES EQUIPMENT, TRIM, & FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES.
5. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS & CODES.
6. GENERAL CONTRACTOR SHALL PROVIDE ALL OPENINGS IN WALLS, FLOORS, AND ROOF WITH EACH CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION AND SIZES OF ALL OPENINGS REQUIRED UNDER HIS CONTRACT, UNLESS NOTED OTHERWISE ON THE PLANS.
7. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT THAT REQUIRES A WATER PLUMBING UTILITY CONNECTION, ALONG WITH ALL PIPE, VALVES, WATER HAMMER ARRESTORS, PRESSURE REGULATORS, ETC., REQUIRED FOR A COMPLETE INSTALLATION.
8. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR APPROVED FLOOR PLAN AND DIMENSIONS. DO NOT SCALE PLUMBING DRAWINGS.
9. ANY DEVIATIONS FROM SPECIFIED PLUMBING FIXTURES AND LISTED IN FIXTURE SCHEDULE SHALL REQUIRE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE DURING SHOP DRAWING REVIEW.

EXISTING CONDITIONS

10. EXISTING WASTE/VENT AND WATER SUPPLY LINES AND FIXTURES ARE SHOWN IN APPROXIMATE LOCATION. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SIZES BEFORE INSTALLATION OF ANY NEW EQUIPMENT. MAKE NECESSARY ADJUSTMENTS AS REQUIRED.

COORDINATION

11. IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER PLUMBING CONTRACT WILL FIT THE SPACE AVAILABLE. PLUMBING CONTRACTOR SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
12. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL PRIME CONTRACTORS PRIOR TO INSTALLATION OF HIS WORK.
13. MECHANICAL DUCTWORK SHALL HAVE RIGHT-OF-WAY OVER ALL PLUMBING PIPES AND ELECTRICAL CONDUITS.
14. PLUMBING CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SHEETS FOR UTILITY REQUIREMENTS.

INSTALLATION

15. ALL PLUMBING LINES ARE TO BE RECESSED WITHIN THE WALL CAVITIES UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.
16. ALL PLUMBING FIXTURES SHALL BE NEATLY CAULKED WITH SILICONE COMPOUND WHERE FIXTURE MEETS WALL.
17. ALL PIPES PASSING THROUGH FLOOR SLAB OR WALLS SHALL BE INSTALLED WITH FOAM RUBBER INSULATION.
18. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A BACKFLOW PREVENTER AT ALL EQUIPMENT CONNECTIONS AS REQUIRED BY LOCAL CODES AT ANY POINT WHERE THERE IS DANGER OF NON-POTABLE WATER COMING IN CONTACT WITH THE POTABLE WATER SYSTEM OR ANY DANGER OF BACK-FLOW. COORDINATE WITH LOCAL INSPECTOR BACKFLOW DEVICE APPROVAL.

18. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR APPROVED FLOOR PLAN AND DIMENSIONS. DO NOT SCALE PLUMBING DRAWINGS.

19. P.C. SHALL PROVIDE AND INSTALL PRESSURE GAUGES UPSTREAM AND DOWNSTREAM AT THE BACKFLOW PREVENTER, BOOSTER PUMP (IF INSTALLED), DISHWASHER, WATER SOFTENER (IF INSTALLED). PROVIDE PRESSURE/TEMPERATURE GAUGES UPSTREAM AND DOWNSTREAM FROM THE WATER HEATERS.
20. SEE SPECIFICATION SHEET SP4 FOR PLUMBING MATERIAL.

DWV PIPING

21. INSTALL ALL THREADED CLEANOUT PLUGS WITH PIPE DOPE TO ALLOW EASY REMOVAL IN THE FUTURE.
22. ALL INDIRECT WASTE LINES SHALL HAVE A MINIMUM OF 2" AIR GAP OR TWICE THE EFFECTIVE DRAIN DIAMETER (WHICH EVER IS LARGER) WHERE IT TERMINATES AT THE RECEPTOR.
23. ALL HUB/FLOOR/TRENCH DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH DEEP SEAL TRAPS.
24. SET TOP RIM OF ALL IN-FLOOR FIXTURES (DRAINS, FLOOR SINKS, CLEAN-OUTS, ETC.) FLUSH WITH FINISHED FLOOR UNLESS DRAWINGS ON SITE SPECIFY OTHERWISE.
25. CLEANOUTS LOCATED IN TRAFFIC-BEARING AREAS SHALL BE INSTALLED WITH A VEHICLE TRAFFIC BEARING BOX. THE BOX SHALL BE SET IN CONCRETE SLAB, EXTENDING AT LEAST 12" FROM THE PERIMETER OF THE CLEANOUT. THE SLAB SHALL BE NOT LESS THAN 6" THICK. THE CONCRETE SHALL BE NOT LESS THAN 2,500 PSI.
26. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDENSATE DRAIN PIPING ON AIR HANDLING AND WALK-IN REFRIG. UNITS. COORDINATE WORK WITH MECHANICAL CONTRACTOR

WATER PIPING

27. PLUMBING CONTRACTOR SHALL INSTALL SHOCK ABSORBERS/WATER HAMMER ARRESTORS TO MEET ALL STATE AND LOCAL CODE REQUIREMENTS.
28. PLUMBING CONTRACTOR SHALL INSTALL WATER SUPPLY PIPES SO THAT NO PIPE JOINTS ARE UNDER FLOOR SLAB-ALL JOINTS WILL BE ABOVE THE FLOOR IN ACCESSIBLE WALLS.
29. ALL NEW HOT AND COLD WATER PIPING IN WALLS, ABOVE CEILINGS, AND EXPOSED SHALL BE INSULATED WITH AN INSULATION HAVING A MAXIMUM K FACTOR OF 0.28 @ 75°F MEAN TEMPERATURE FOR 2" WALL, FLEXIBLE ELASTOMERIC THERMAL TYPE, CLOSED CELL INSULATION SIMILAR TO AP ARMAFLEX TUBE INSULATION (ARMACELL). INSULATE FITTINGS CONTINUOUSLY, BUT DO NOT INSULATE VALVE BODIES, NOR FIXTURE SUPPLIES.

o. LONGITUDINAL SEAMS SHALL BE SEALED.
b. LATERAL SEAMS (BUTT JOINTS) SHALL BE SEALED ON COLD WATER PIPES ONLY.
c. THICKNESS SHALL BE 3/4" FOR COLD WATER PIPES UP TO 1-1/4"ø AND 1" FOR COLD WATER PIPES 1-1/2"ø AND GREATER.
d. THICKNESS SHALL BE 1" MIN. FOR ALL HOT WATER PIPES.

P.C. SHALL INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING LOCATED IN EXTERIOR WALLS AND CEILING ON HEATED SIDE OF THE BUILDING ENVELOPE INSULATION.

P.C. SHALL CLOSELY COORDINATE PIPING INSTALLATION WITH GENERAL CONTRACTOR AND VERIFY NO BUILDING INSULATION IS COMPROMISED IN EXTERIOR WALLS.

28. HOT AND COLD WATER PIPING ABOVE GROUND SHALL BE TYPE "M" HARD DRAWN COPPER TUBING ASSEMBLED WITH WROUGHT SWEAT FITTINGS. BRANCH PIPING MAY BE CROSS-LINKED POLYTHYLENE (PEX-A) TUBING AND ASTM F-1960 COLD EXPANSION FITTINGS. ALL WATER PIPING BELOW GRADE OR BELOW CONCRETE SLAB SHALL BE TYPE "L", COPPER TUBING, JOINTS IN COPPER TUBING SHALL BE WITH SILVER SOLDER SIMILAR OR EQUAL TO SIL-PHOS.
29. ALL VALVES SHALL BE SAME SIZE AS PIPING SERVED (MIN.)
30. PLUMBING CONTRACTOR SHALL PROVIDE PRESSURE REDUCING VALVE, SWEAT TYPE, 25-75 PSIG DISCHARGE RANGE.

GAS PIPING

31. PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL GAS PIPING AS SHOWN ON PLANS. ALL GAS PIPING SHALL COMPLY WITH LOCAL CODES. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL GAS EQUIPMENT. INSTALL REGULATORS AT EQUIPMENT WHERE REQUIRED BY MANUFACTURER OR CUTS SUPPLIED BY FURNISHING CONTRACTOR.
32. NATURAL GAS (ABOVE GRADE): SCHEDULE 40 BLACK STEEL WITH 150-LB MALLEABLE IRON BLACK SCREWED FITTINGS. WHERE EXPOSED TO WEATHER MATERIALS SHALL BE PAINTED BLACK.

wd

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Hardee's

HARDEE'S
HARDEE'S T-31 SHORT CONTEMPORARY
NOLENSVILLE PIKE AT BURKITT PLACE DRIVE
2010 AVA PLACE
NOLENSVILLE, TENNESSEE 37135

HARDEE'S
NOLENSVILLE
STORE#:6625
NOLENSVILLE TN
37135

JEFFREY P. BOLAND
REGISTERED ENGINEER
AGRICULTURE
02/11/2022
COMMERCE
No. 120314
STATE OF TENNESSEE

ISSUE DATES

PLANNING	10-13-2021
90% REVIEW	01-28-2022
PERMIT	02-10-2022

REVISIONS

WD PROJECT NUMBER
CKECD0036

P1

PLUMBING NOTES & SCHEDULES

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATIONS DIVISION 15.
2. WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.
3. CONTRACTOR MUST CHECK EQUIPMENT NOT IN CONTRACT SO THAT THE SERVICE REQUIREMENTS ARE CORRECTLY TYPED, ADEQUATELY SIZED AND ROUGHED-IN PROPERLY SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOK-UP RESULTING IN A NEAT AND ORDERLY LOOKING INSTALLATION.
4. CONTRACTOR SHALL FURNISH AND INSTALL SHUT-OFF VALVES IN WATER LINES TO ALL EQUIPMENT. INSTALL 18" A.F.F. UNLESS OTHERWISE INDICATED.
5. PLUMBING CONTRACTOR TO FURNISH ALL CONDENSATE DRAINS AND INDIRECT WASTE LINES REQUIRED FOR EQUIPMENT.
6. CONTRACTOR TO FURNISH AND INSTALL 1/2" (1/4" TO TEA BREWER) FLEXIBLE METAL BRAIDED WATER SUPPLY LINE FOR FINAL CONNECTION TO EQUIPMENT. FLEXIBLE SUPPLY LINE SHALL ALLOW 12" FLEXIBLE MOVEMENT OF EQUIPMENT.
7. RAISE FLOOR DRAINS TO BE LEVEL IN KITCHEN AREA SO EQUIPMENT DOES NOT SLIDE INTO DEPRESSION.
8. COORDINATE WITH G.C. AND ALL OTHER DISCIPLINES FOR CONNECTION REQUIREMENTS AND RUN LOCATIONS TO PREVENT CONFLICTS.
9. ANY SANITARY/GREASE WASTE PIPING SHALL DROP TO ROUTE BELOW CONCRETE FOOTING.
10. ALL FLOOR RECEPTORS & ALL ASSOCIATED WASTE PIPING INSIDE OF THE FOOTING SHALL BE INSTALLED PRIOR TO POURING OF FOOTINGS & SHALL BE ENCASED IN CONCRETE.

CONSTRUCTION NOTES

1. SITE CONTRACTOR TO EXTEND SANITARY LINES TO SEWER MAIN. THIS CONTRACTOR TO COORDINATE LOCATION WITH SITE CONTRACTOR.
2. EXTEND 3" SANITARY VENT THRU ROOF. FIELD VERIFY EXACT LOCATION PRIOR TO STARTING WORK. VENT TO BE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE. SEE ROOF PLAN FOR CONTINUATION.
3. 1" PVC CONDENSATE DRAIN LINE BY P.C. TERMINATE INDIRECTLY WITH 2" AIR GAP MIN. OVER 6" HUB (MIN).
4. RUN DRAIN LINES FROM DRINK DISPENSER, COUNTER DRAIN, ICE MACHINE, AND ICE BINS UNDER COUNTER TO FLOOR RECEPTOR. MAINTAIN SLOPE TO DRAIN AND PROVIDE 2" AIR GAP. FIELD COORDINATE. SEE DETAIL 5/P7.
5. SEE CIVIL DRAWINGS, UTILITY PLAN, FOR ADDITIONAL INFORMATION. COORDINATE WITH SITE CONTRACTOR PRIOR TO STARTING WORK.
6. RUN HEAT WELL DRAIN TO FLOOR RECEPTOR PROVIDED UNDER THE MAKEUP TABLE. TERMINATE WITH 2" AIR GAP (MIN.).
7. ROUTE SANITARY LINE TO FLOOR RECEPTOR BELOW BEVERAGE BAR. SEE DETAIL 5/P7.
8. 1" PVC CONDENSATE DRAIN LINE BY FREEZER/COOLER SUPPLIER WITH HEAT TAPE (IN FREEZER) NEAR CEILING-PITCH TOWARD HUB DRAIN.
9. 3/4" PVC CONDENSATE DRAIN LINE (BY FREEZER/COOLER SUPPLIER) TO FREEZER/COOLER COIL. HEAT TRACE LINES IN FREEZER.
10. LOCATE GREASE INTERCEPTOR WITHIN 15' OF VENT IF POSSIBLE.
11. ROUTE EQUIPMENT DRAIN INDIRECTLY TO FLOOR RECEPTOR AND TERMINATE WITH AIR GAP TWICE THE DIA. OF EQUIPMENT DRAIN.
12. 1" PVC CONDENSATE DRAIN LINE BY P.C. TO FREEZER/COOLER DRAIN CONNECTION POINT.
13. SANITARY/GREASE WASTE PIPING SHALL DROP TO ROUTE BELOW CONCRETE FOOTING.
14. 1/2" TRAP PRIMER PIPING BELOW SLAB. SEE DETAIL 23/P7.
15. FLOOR RECEPTORS & ALL ASSOCIATED WASTE PIPING SHALL BE INSTALLED PRIOR TO POURING OF FOOTINGS & SHALL BE ENCASED IN CONCRETE.

IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL SHALL BID AND INSTALL THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

PLUMBING WASTE & VENT PLAN

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

1

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ISSUE DATES

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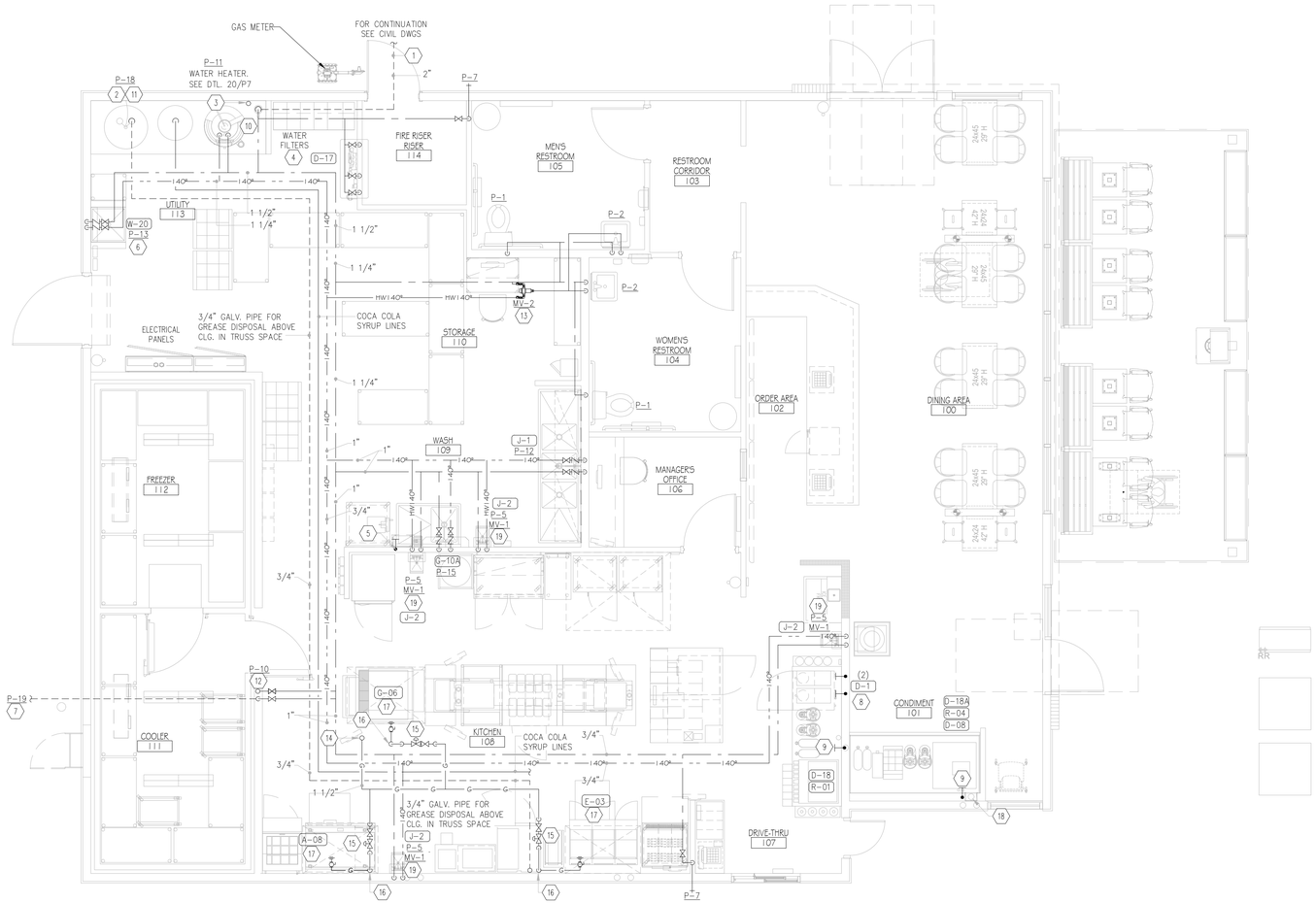
P2

WASTE & VENT PLAN



COLD/HOT WATER PIPE SIZING CALCULATION

STREET PRESSURE						
MINIMUM PRESSURE AVAILABLE AT POINT OF CONNECTION TO Building, DOWNSTREAM BFP AND METER PER Building WORK LETTER (PSI)						65
PRESSURE AT FARTHEST FIXTURE						
BFP PRESSURE LOSS						15
METER LOSSES						12
RESIDUAL PRESSURE REQUIRED (PSI)						25
TOTAL PRESSURE REQUIRED AT FARTHEST FIXTURE (PSI)						52.0
PRESSURE AVAILABLE TO OVERCOME FRICTION						
TOTAL PRESSURE AVAILABLE (AT BUILDING ENTRY - REQUIRED) (PSI)						13.0
DEVELOPED LENGTH OF PIPE (20% ALLOWANCE FOR FITTINGS, VALVES, ETC)				100	FTx 1.25	125
PRESSURE AVAILABLE x 100	=	13.0	PSI x 100	=	**10.4**	PSI
DEVELOPED LENGTH PIPE		125	FT			100 FT

CONSTRUCTION NOTES

1. SEE SHEET P1 FOR GENERAL NOTES.
2. PROVIDE METERED 1" LINE WITH BACKFLOW PREVENTER FOR LANDSCAPING IRRIGATION PROVIDED EXTERIOR OF BUILDING. IRRIGATION SYSTEM TO BE DESIGNED, SUPPLIED AND INSTALLED BY OTHERS. FIELD COORDINATE.
3. P.C. SHALL REFERENCE SHEET P1 FOR BACKFLOW PREVENTER.

CONSTRUCTION NOTES

1. PROVIDE AND INSTALL NEW WATER SERVICE. INQUIRE WITH LOCAL AUTHORITIES TO DETERMINE IF BACKFLOW PREVENTER IS REQUIRED, WHETHER INDOOR METER LOCATION AND AVAILABLE WATER PRESSURE. IF AVAILABLE PRESSURE IS LESS THAN 60 PSIG AT THE BUILDING, CONTACT HARDEE'S CONSTRUCTION REPRESENTATIVE. PROVIDE REMOTE READER. FIELD COORDINATE WITH WATER COMPANY AND SITE CONTRACTOR. COORDINATE LOCATION WITH SITE CONTRACTOR.
2. OWNER SHALL PROVIDE USED OIL CONTAINMENT TANK (P-18) AND INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSTALL TANK, PUMP, FRYER MANIFOLD, COLLECTION PORT, CONTROL PANEL AND ALL PIPING FROM FRYER TO TANK ABOVE CEILING AND ALL RELATED ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH E.C. FOR PANEL INSTALLATION.
3. GAS PIPING ROOF PENETRATION FOR WATER HEATER. SEE SHEET P4 FOR CONTINUATION AND SHEET P6 FOR SIZING.
4. PC TO INSTALL WATER FILTERS (PROVIDED BY CKE). PROVIDE CUT OFF VALVES ABOVE CEILING TO MAIN. PROVIDED BALL VALVE & BACKFLOW PREVEVENTER – FILTERED WATER CONNECTION BY PC THRU SUSP. CLG. SEE DETAIL 9/P7 AND ELEVATION P/P5.
5. P.C. TO INSTALL WATER FILTER BRANCHES AND IN WALL "DROP" FROM WATER FILTER FOR HOT WATER DISPENSER – SEE DETAIL 10/P7 AND ELEVATION M/P5. PC SHALL MAKE ALL FILTERED WATER CONNECTIONS.
6. SEE DETAIL 10/A19 FOR PRE-FAB MOP SINK.
7. INSTALL YARD HYDRANT (P-19) PROVIDED BY P.C., INSTALLED BY P.C. AT DUMPSTER ENCLOSURE. COORDINATE WITH G.C. AND CIVIL FOR EXACT LOCATION. REFER TO SP-3 FOR INSTALLATION.
8. P.C TO INSTALL FILTERED WATER BRANCHES TO WALL "DROPS" TO COFFEE/TEA BREWER FOR FILTERED WATER. SEE DETAIL 10/P7. ALL FILTERED WATER CONNECTIONS PROVIDED BY PC.
9. P.C TO INSTALL FILTERED WATER BRANCHES AND IN WALL "DROP" TO MANIFOLD FOR FILTERED WATER. SEE DETAIL 10/P7. ALL CONNECTIONS BY PC.
10. SEE CIVIL DRAWINGS FOR DOMESTIC WATER SERVICE METER AND MAIN-BACK FLOW DEVICE AND LOCATION
11. OUTLET AND VACUUM LINE FOR GREASE TANK. MOUNT AT 4' A.F.G. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
12. EXTEND WATER LINE UP FOR A ROOF MOUNTED YARD HYDRANT. HYDRANT TO BE FREEZELESS. CONTRACTOR TO DESIGN SUPPORT AND SUBMIT WITH SHOP DRAWINGS. FIELD COORDINATE. WITH GENERAL CONTRACTOR. ROOFING BY GENERAL CONTRACTOR. RUN DRAINAGE LINE TO DISCHARGE INTO NEAREST FLOOR DRAIN.
13. WATER TEMPERING VALVE (MV-2) ABOVE CEILING IN ACCESSIBLE LOCATION SET @110°F. SEE DETAIL 12/P7.
14. GAS PIPING ROOF PENETRATION FOR COOKING EQUIPMENT. SEE SHEET P4 FOR CONTINUATION AND SHEET P6 FOR SIZING.
15. ELECTRIC GAS VALVE FURNISHED BY HOOD MANUFACTURER AND INSTALLED BY PLUMBING CONTRACTOR. ELECTRIC CONNECTIONS BY ELECTRICAL CONTRACTOR.
16. GAS LINE TO BE DROPPED FROM CEILING DOWN TO COOKING EQUIPMENT.
17. PROVIDE AND INSTALL GAS CONNECTIONS TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. PROVIDE 6" DIRT LEG, UNION, GAS COCK BEFORE QUICK DISCONNECT FOR ALL GAS FIRED EQUIPMENT.
18. 4"ø PVC CONDUIT IN WALL FOR DRINK LINES-SEE 15/A13
19. WATER TEMPERING VALVE (MV-1) BELOW HAND SINK IN ACCESSIBLE LOCATION SET @110°F. SEE DETAIL 11/P7.

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WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

PLUMBING WATER SUPPLY PLAN

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

1

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P3

WATER SUPPLY PLAN

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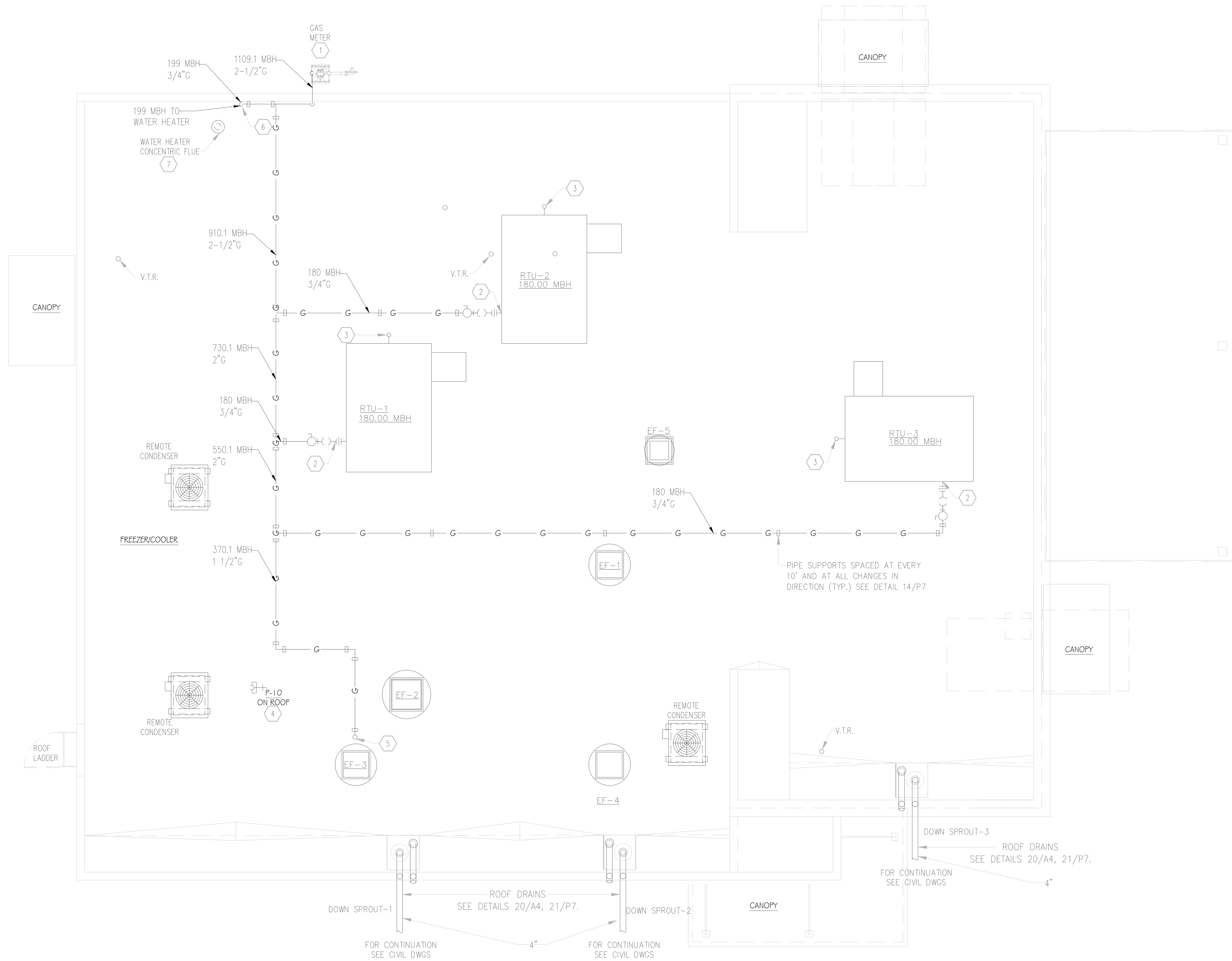

STORM DRAIN CALCULATION					
DOWN SPOUTS	LEADER SIZE	TRIBUTARY ROOF AREA S.F	RAINFALL INCH PER HR	GPM	PIPE SIZE INCH
1	4"Ø	1125	3.3	38.6	4
2	4"Ø	549	3.3	18.8	4
3	4"Ø	690	3.3	23.7	4
NOTE: SIZES BASED ON TABLE 1106.2 OF THE 2018 IPC					

PLUMBING ROOF PLAN

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

1

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATIONS DIVISION 15.
2. CONTRACTOR MUST CHECK EQUIPMENT NOT IN CONTRACT SO THAT THE SERVICE REQUIREMENTS ARE CORRECTLY TYPED, ADEQUATELY SIZED AND ROUGHED-IN PROPERLY TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOK-UP RESULTING IN A NEAT AND ORDERLY LOOKING INSTALLATION.
3. PLUMBING CONTRACTOR TO FURNISH ALL CONDENSATE DRAINS AND INDIRECT WASTE LINES REQUIRED FOR EQUIPMENT.
4. PLUMBING VENTS SHALL TERMINATE AT A HEIGHT EQUAL TO THE PARAPET WALL.
5. REFERENCE DRAWING D-3 FOR SCUPPER, AND ROOF CURB DETAILS.
6. INSTALL EVAPORATOR COIL CONDENSATE DRAIN PIPING PER RTU INSTALLATION MANUAL AND AS SHOWN IN DETAIL BELOW. P-TRAP IS PROVIDED WITH THE UNIT. DRAIN CONDENSATE TO NEAREST ROOF DRAIN WITH 1 1/2" PVC PIPE. SLOPE 1/4" PER FOOT MINIMUM.
7. COORDINATE WITH G.C. AND ALL OTHER DISCIPLINES FOR CONNECTION REQUIREMENTS AND RUN LOCATIONS TO PREVENT CONFLICTS.
8. VTR- VENT THRU ROOF TO BE PLACED CLEAR OF RTU INTAKE - MIN. 10'-0".
9. WATER HEATER CONCENTRIC VENT MUST BE AWAY FROM PARAPET WALL 2'-0" (MIN.) AND TO BE PLACED CLEAR OF RTU INTAKE 10'-0" (MIN.).

SEE SHEET P1 FOR PLUMBING FIXTURE SCHEDULE

CONSTRUCTION NOTES

1. FURNISH AND INSTALL NEW LOW PRESSURE GAS SERVICE. INSTALL NEW GAS METER PER LOCAL GAS COMPANY AND CODE REQUIREMENTS.
2. PROVIDE AND INSTALL GAS CONNECTIONS TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. PROVIDE 6" DIRT LEG, UNION, GAS COCK ON OR BEFORE ALL GAS FIRED EQUIPMENT. SEE DETAIL 17/P7.
3. PROVIDE AND INSTALL EVAPORATOR COIL CONDENSATE DRAIN PIPING PER RTU INSTALLATION MANUAL AND AS SHOWN IN DETAIL 15/P7. MINIMUM DRAIN SIZE TO BE 3/4" CONDENSATE DRAIN TO BE TRAPPED WITH TRAP DEPTH OF 1.5 x UNITS TOTAL STATIC PRESSURE (MINIMUM 4" DEEP). DRAIN SHALL BE EXTENDED TO SPLASH BLOCK ON ROOF.
4. ROOF MOUNTED YARD HYDRANT. HYDRANT TO BE FREEZELESS. CONTRACTOR TO DESIGN SUPPORT AND SUBMIT WITH SHOP DRAWINGS. FIELD COORDINATE WITH GENERAL CONTRACTOR. ROOFING BY GENERAL CONTRACTOR.
5. PROVIDE ROOF PENETRATION FOR COOKING EQUIPMENT BELOW. SEE SHEET P3 FOR CONTINUATION AND SHEET P6 FOR SIZING.
6. PROVIDE ROOF PENETRATION FOR WATER HEATER BELOW. SEE DETAIL 20/P7 AND SHEET P6 FOR SIZING.
7. OFFSET WATER HEATER CONCENTRIC FLUE PIPING TO MAINTAIN 10'-0" AWAY FROM FRESH AIR INTAKE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

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WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.

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REVISIONS

WD PROJECT NUMBER
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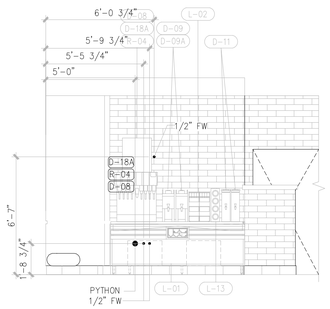
P4

PLUMBING ROOF PLAN

PLUMBING ROUGH-IN PLAN

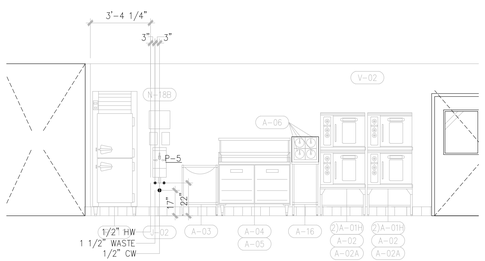
SCALE: 1/4" = 1'-0"

1



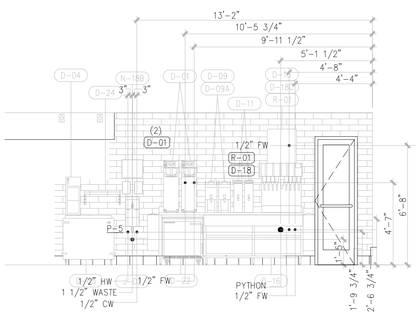
ELEVATION E/P5

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



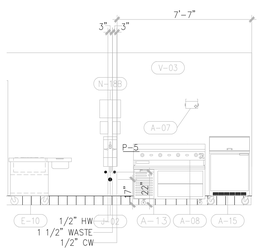
ELEVATION G/P5

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



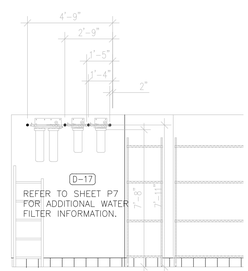
ELEVATION J/P5

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



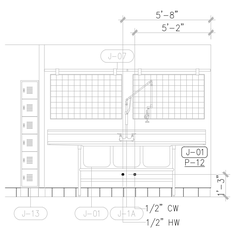
ELEVATION L/P5

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



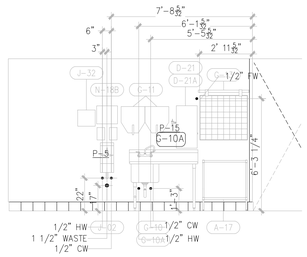
ELEVATION M/P5

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



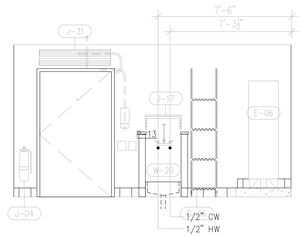
ELEVATION N/P5

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



ELEVATION P/P5

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



ELEVATION Q/P5

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

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P5

ROUGH-IN PLAN & ELEVS.

GAS PIPE SPECIFICATIONS

BLACK STEEL SCHED 40 ROLLED SEAMLESS EXTERIOR SHALL BE PRIMED AND PAINTED

GAS VALVE STYLE #80-101 TO 108 UL LISTED/BRONZE BODY/GLASS FILLED TEFLON BEARING/LEVER HANDLE/RATED 250#

PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 54 FOR NATURAL GAS SYSTEMS.

FITTINGS: MALLEABLE IRON, STANDARD WEIGHT, BLACK

GAS PRESSURE: SET 7"WC.

PROVIDE SEDIMENT TRAP (MIN 6" DEPTH) ON EQUIPMENT AND APPLIANCE CONNECTIONS.

GAS METER SHALL BE SECURELY SUPPORTED.

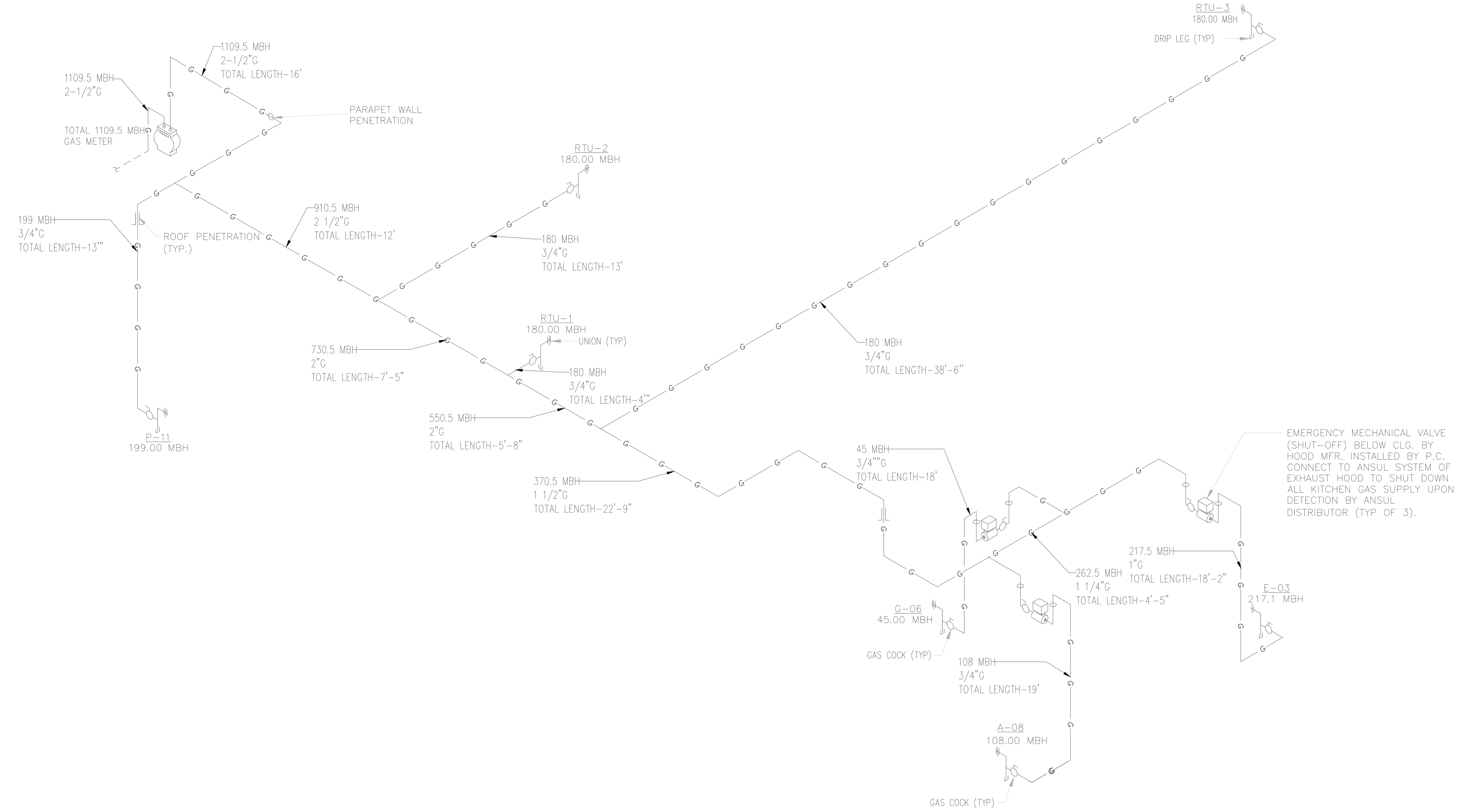
GAS REQUIREMENTS

GAS DEMAND LOAD

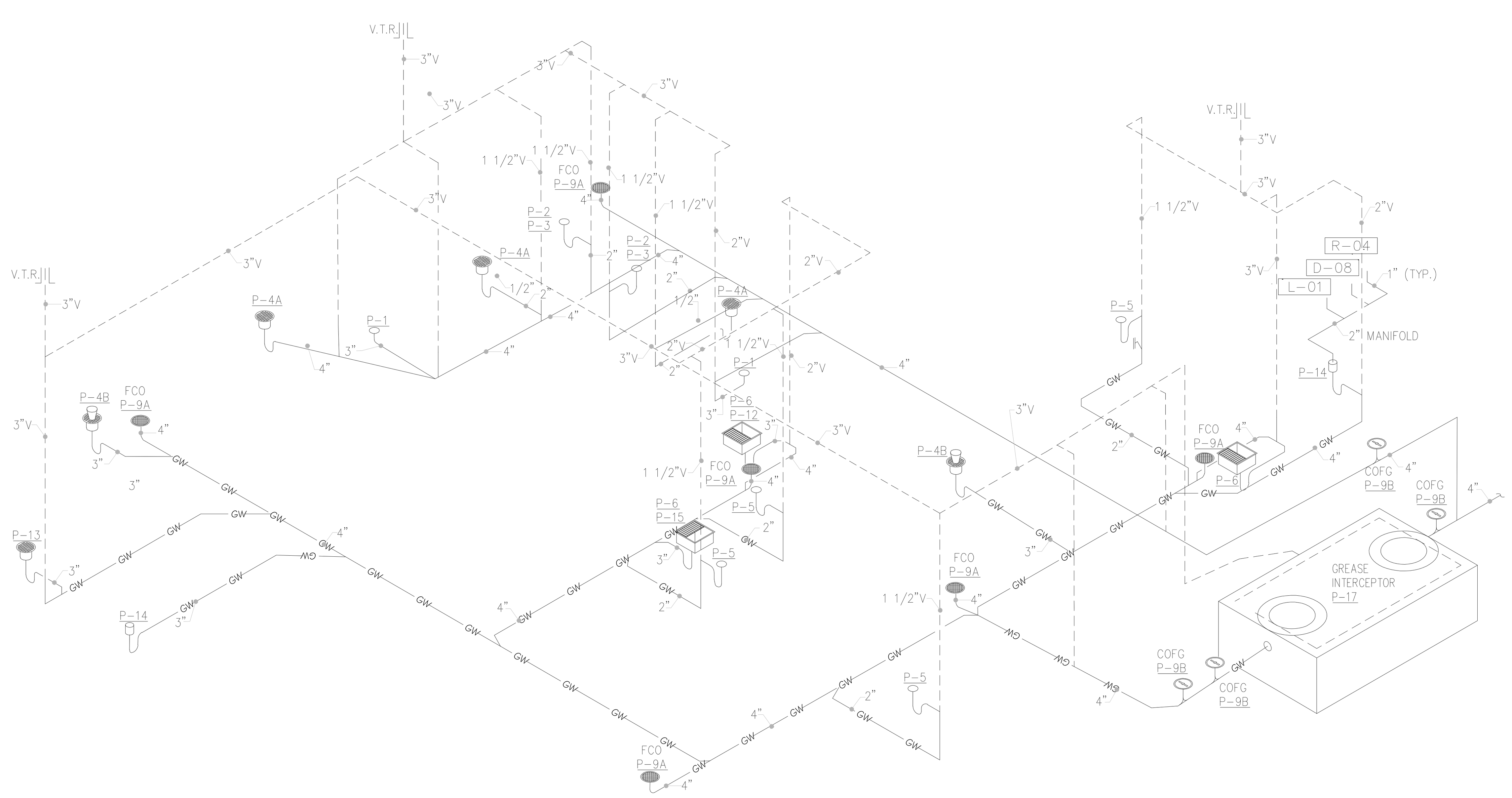
NO.	DESCRIPTION	CONN. SIZE	QTY.	INPUT (MBH/EA)	TOTAL (MBH)
A-08	GRIDDLE	3/4"	1	108	108
E-03	FRYER	1"	1	217.5	217.5
G-06	FLOW THRU CHAIN BROILER	3/4"	1	45	45
RTU-1	ROOF TOP UNIT	3/4"	1	180	180
RTU-2	ROOF TOP UNIT	3/4"	1	180	180
RTU-3	ROOF TOP UNIT	3/4"	1	180	180
P-11	WATER HEATER(S)	3/4"	1	199	199
TOTAL					**1109.5**

NOTE(S):

1. PIPE SIZES SHOWN ON THE DIAGRAM ARE BASED ON MEDIUM PRESSURE SUPPLY (LESS THAN 2 PSI.) AT A (0.3 INCH WC.) PRESSURE DROP WITH A TOTAL DEVELOPED LENGTH OF 100'-0". VERIFY ACTUAL DEVELOPED LENGTH AND REQUIRED PIPE SIZES IN THE FIELD.

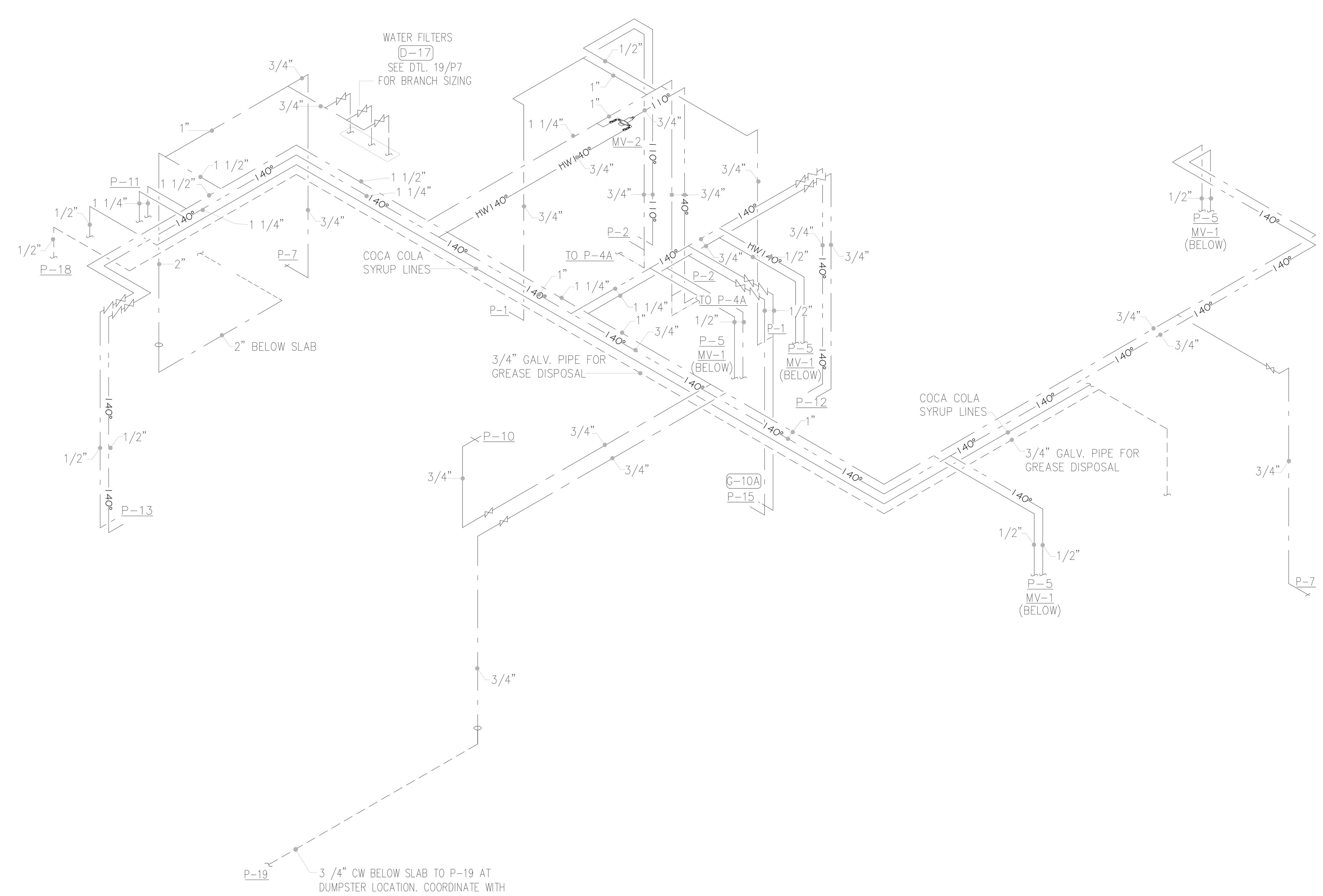


GAS ISOMETRIC	SCALE: N.T.S.	1



NOTE:
ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TRAPS.

WASTE & VENT ISOMETRIC	SCALE: N.T.S.	2



FILTERED WATER TO BE RUN BY OTHERS

P.C. TO INSTALL IN WALL "DROPS" FOR FILTERED WATER ITEMS. SEE DETL. 19/P7. FILTERED WATER SYSTEM INSTALLED BY VENDOR.

WATER SUPPLY ISOMETRIC	SCALE: N.T.S.	3

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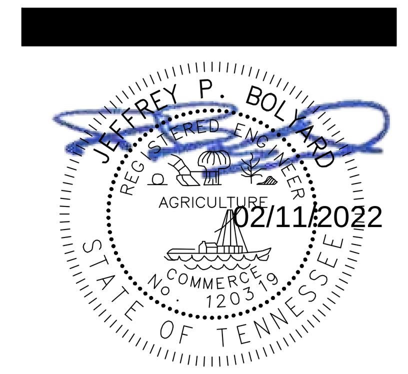

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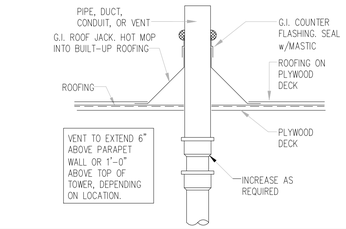
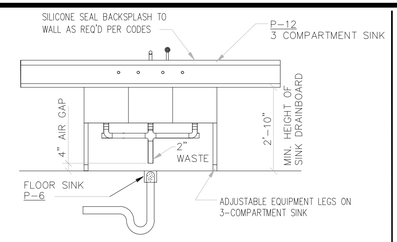
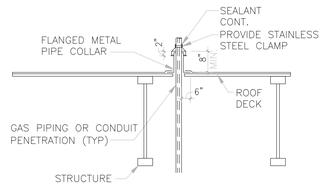
WASTE/VENT & GAS RISER



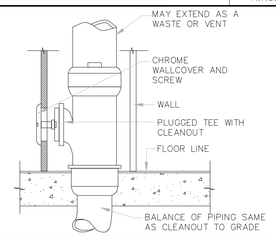
VENT THROUGH ROOF DETAIL | SCALE: N.T.S. | 1



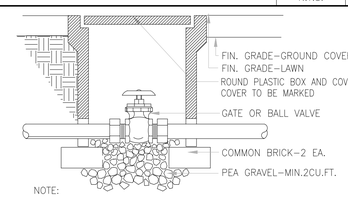
3 COMP. SINK INSTALLATION | SCALE: N.T.S. | 7



PIPE SEAL THRU ROOF | SCALE: N.T.S. | 13

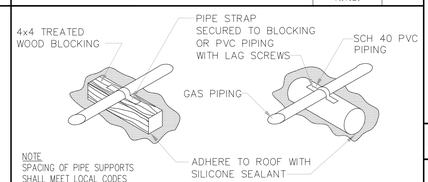


WALL CLEAN-OUT DETAIL | SCALE: N.T.S. | 2



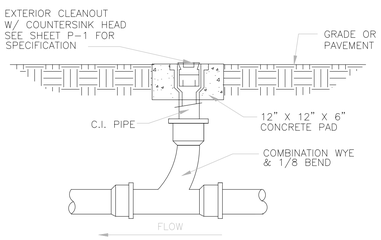
NOTE:
1. FOR GATE VALVES 2" AND SMALLER, USE HANDWHEEL. FOR LARGER THAN 2" SQ. OPERATING NUT.
2. FROST-ZONE MIN. BURIAL DEPTH = 2'-0"

GATE VALVE | SCALE: N.T.S. | 8

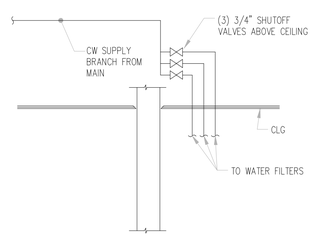


NOTE
SPACING OF PIPE SUPPORTS SHALL MEET LOCAL CODES

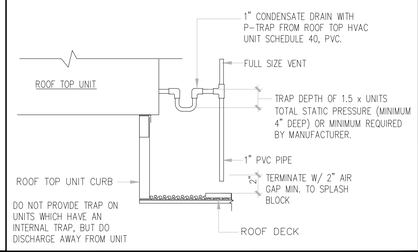
PIPE SUPPORT | SCALE: N.T.S. | 14



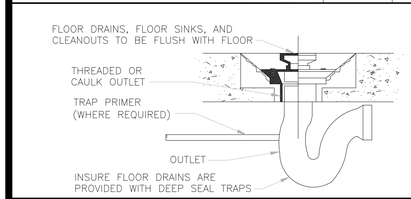
CLEANOUT FINISH GRADE | SCALE: N.T.S. | 3



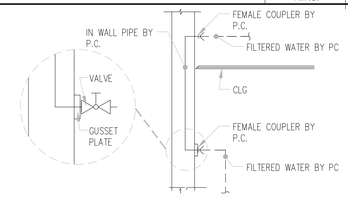
FILTERED WATER SHUTOFF VALVES | SCALE: N.T.S. | 9



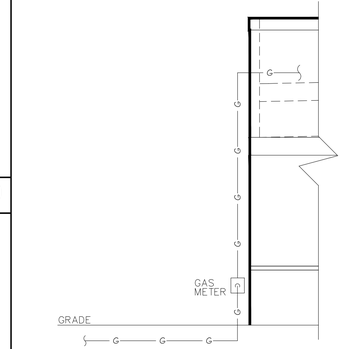
CONDENSATE PIPE DTL. | SCALE: N.T.S. | 15



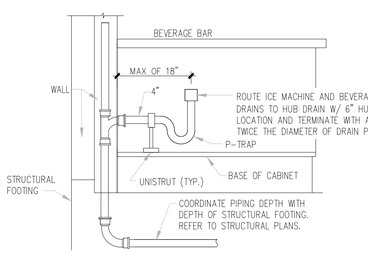
FLOOR DRAIN DETAIL | SCALE: N.T.S. | 4



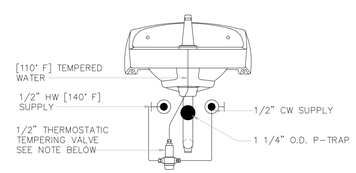
FILTERED WATER "IN WALL DROP" | SCALE: N.T.S. | 10



GAS LINE ELEVATION | SCALE: N.T.S. | 16

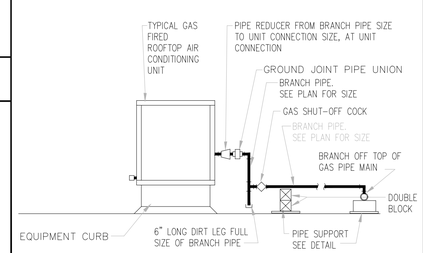


SELF-SERVE BEVERAGE BAR DETAIL | SCALE: N.T.S. | 5



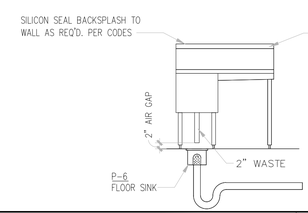
NOTES:
1. PROVIDE THERMOSTATIC MIXING VALVE WITH CHECK STOPS BELOW HAND SINKS.
2. SET SUPPLY TEMP. AT 110° F.

MIXING VALVE BELOW HAND SINK | SCALE: N.T.S. | 11

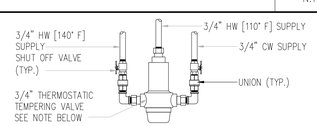


PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED.

ROOFTOP UNIT CONNECTIONS | SCALE: N.T.S. | 17

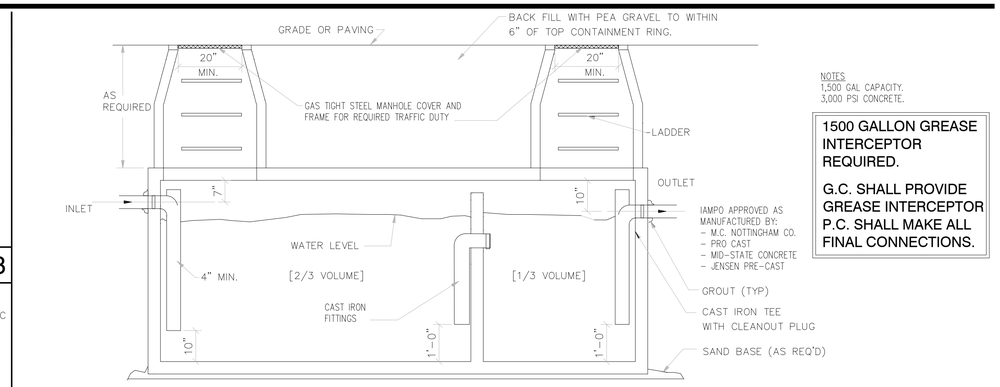


VEG. SINK INSTALLATION | SCALE: N.T.S. | 6



NOTES:
1. SET SUPPLY TEMP. AT 110° F.
2. P.C. SHALL MOUNT MIXING VALVE FOR LAVS ABOVE CEILING IN ACCESSIBLE LOCATION.

MIXING VALVE DETAIL | SCALE: N.T.S. | 12

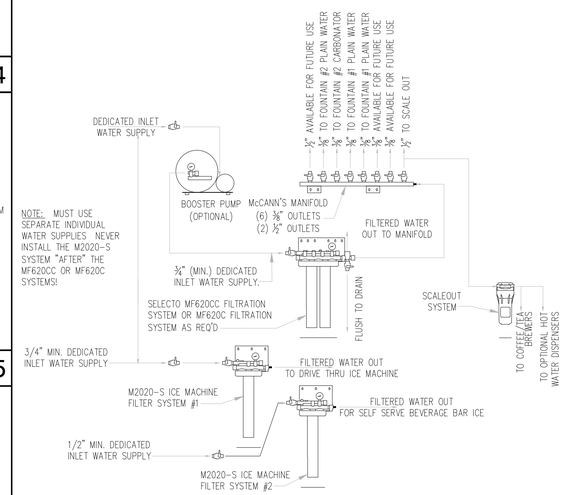


NOTES
1,500 GAL CAPACITY.
3,000 PSI CONCRETE.

1500 GALLON GREASE INTERCEPTOR REQUIRED.

G.C. SHALL PROVIDE GREASE INTERCEPTOR P.C. SHALL MAKE ALL FINAL CONNECTIONS.

GREASE INTERCEPTOR DETAILS & SPECIFICATIONS | SCALE: N.T.S. | 18

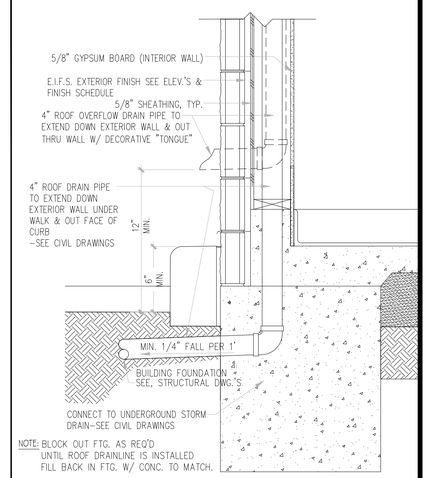


NOTE: MUST USE SEPARATE INDIVIDUAL WATER SUPPLIES. NEVER INSTALL THE M2020-S SYSTEM "AFTER" THE MF620CC OR MF620C SYSTEMS!

NOTE:
1- ONLY COCA COLA APPROVED BLACK OPAQUE TUBING IS TO BE USED FOR THE INSTALLATION OF THIS SYSTEM
2- GENERAL CONTRACTOR TO NOTIFY CONSTRUCTION PROJECT MANAGER FOR PROPER LOCATION & INSTALLATION OF FILTERS & PIPING. FILTER & PIPING FURNISHED BY CKE & INSTALLED BY P.C.

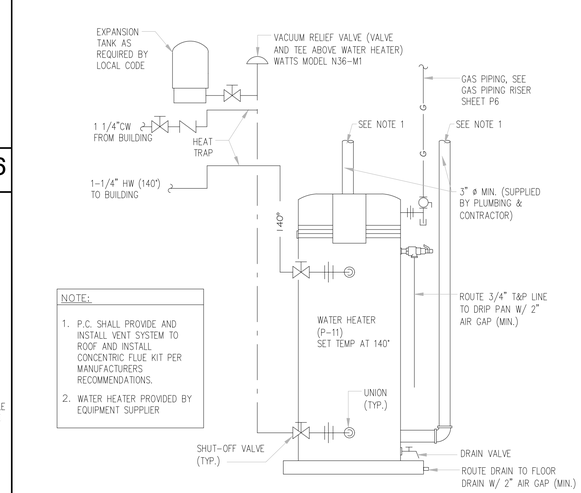
FILTERED WATER TO BE RUN BY P.C. P.C. SHALL PROVIDE "DROPS" IN WALLS.

WATER FILTER DETAIL | SCALE: N.T.S. | 19



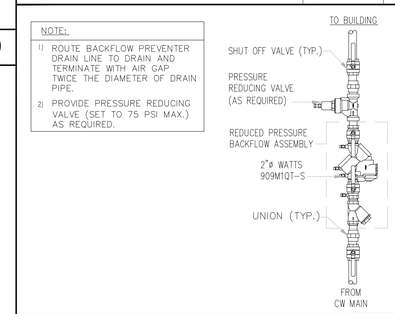
NOTE: BLOCK OUT FTG. AS REQ'D UNTIL ROOF DRAINLINE IS INSTALLED FILL BACK IN FTG. W/ CONC. TO MATCH.

ROOF DRAIN DETAIL | SCALE: N.T.S. | 21



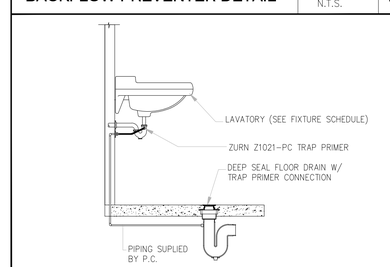
NOTE:
1. P.C. SHALL PROVIDE AND INSTALL VENT SYSTEM TO ROOF AND INSTALL CONCENTRIC FLUE KIT PER MANUFACTURERS RECOMMENDATIONS.
2. WATER HEATER PROVIDED BY EQUIPMENT SUPPLIER

WATER HEATER DETAIL | SCALE: N.T.S. | 20



NOTE:
1) ROUTE BACKFLOW PREVENTER DRAIN LINE TO DRAIN AND TERMINATE WITH AIR GAP TWICE THE DIAMETER OF DRAIN PIPE.
2) PROVIDE PRESSURE REDUCING VALVE (SET TO 75 PSI MAX.) AS REQUIRED.

BACKFLOW PREVENTER DETAIL | SCALE: N.T.S. | 22



TRAP PRIMER DETAIL | SCALE: N.T.S. | 23

wd
7007 DISCOVERY BLVD
DUBLIN, OH 43017
614.634.7000 T
WDPARTNERS.COM

HARDEE'S
HARDEE'S T-31 SHORT CONTEMPORARY
NOLENSVILLE PIKE AT BURKITT PLACE DRIVE
2010 AVA PLACE
NOLENSVILLE, TENNESSEE 37135

HARDEE'S NOLENSVILLE
STORE#:6625
NOLENSVILLE TN 37135

JEFFREY P. BOLTON
AGRICULTURE
02/11/2022
LICENSED PROFESSIONAL ENGINEER
COMMISSION 120359
STATE OF TENNESSEE

ISSUE DATES
- PLANNING 10-13-2021
- 90% REVIEW 01-28-2022
- PERMIT 02-10-2022

REVISIONS

WD PROJECT NUMBER
CKECD0036

P7

PLUMBING DETAILS