SYSTEMS.

ARCHITECTURAL PLANS.

- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
- 3. THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AS REQUIRED WHERE ACCESSIBILITY TO COMPONENTS (VALVES, TRAPS, CLEANOUTS, ETC.) IS REQUIRED FOR MAINTENANCE AND/OR SYSTEM OPERATION.
- 4. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- 5. ALL PENETRATIONS THROUGH FOUNDATIONS AND EXTERIOR WALLS SHALL BE SEALED WITH EDPM OR EDPM RUBBER GASKET AND SEALED WITH A WATERPROOF, NON-HARDENING SEALANT.
- 6. FURNISH AND INSTALL UNDER SINK PROTECTIVE PIPE COVER KITS ON EXPOSED PIPING AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES.
- COORDINATE FIXTURE ROUGH-INS AND INSTALLATIONS WITH THE
- 8. ALL EXPOSED DOMESTIC WATER DISTRIBUTION PIPING IS TO BE
- INSULATED.
- 9. PROVIDE SHUT-OFF VALVES AT ALL BRANCH PIPING TAKE-OFFS (UNO) AND AT ALL CONNECTIONS TO EQUIPMENT. PROVIDE UNIONS AT ALL EQUIPMENT CONNECTIONS.
- 10. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH POINTS.
- 11. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- 12. ALL REQUIRED MOTOR STARTERS SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY THE E.C.
- 13. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THIS CONTRACTOR.
- 14. WHERE INSTALLATION OR REMOVAL OF BELOW-SLAB PIPING IS INDICATED IN EXISTING CONCRETE SLAB, THIS CONTRACTOR SHALL SAW-CUT AND EXCAVATE THE EXISTING SLAB AS REQUIRED. UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL PATCH THE CONCRETE SLAB. FLOOR FINISH WORK BY G.C.
- 15. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 16. CONTRACTOR SHALL PROVIDE ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
- 17. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT: DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
- 18. IT IS THE INTENTION THAT THESE SPECIFICATIONS, AND DRAWINGS ACCOMPANYING SAME, SHALL PROVIDE FOR THE FURNISHING AND INSTALLING OF THE PLUMBING SYSTEMS COMPLETE AS SPECIFIED AND SHOWN. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY WORK CHANGES WHICH MAY BE EVIDENTLY NECESSARY TO COMPLETE THE INSTALLATION SHALL BE FURNISHED BY THIS CONTRACTOR.
- 19. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS. APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS CONTRACTOR.
- 20. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING. MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

### PLUMBING DEMOLITION NOTES:

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
- 2. REMOVE ALL EQUIPMENT AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL FITTINGS, SUPPORTS AND HANGERS.
- ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
- DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT OR PIPING FOR CONNECTION TO NEW WORK. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
- ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
- ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

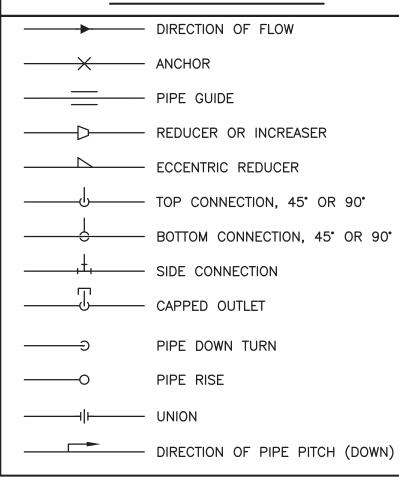
### **GENERAL PLUMBING NOTES**

- 1. KITCHEN FIXTURES ONLY SHALL BE SERVED WITH (140°F) HOT WATER. (120°F) HOT WATER WILL SERVE HAND WASHING FIXTURES IN KITCHEN.
- 2. ALL OTHER AREAS SHALL BE SERVED WITH (110°F) HOT WATER. MAXIMUM OUTLET TEMPERATURE FOR ANY FIXTURE (EXCEPT THOSE IN KITCHEN) SHALL BE SET @ 100°F.
- 3. DRAIN PIPING SHOWN ON PLANS SHALL BE INSTALLED BELOW THE FLOOR SHOWN (BELOW SLAB OR ABOVE CEILING OF LOWER FLOOR AS APPROPRIATE) UNLESS OTHERWISE NOTED.
- 4. ALL PLUMBING SUPPLY & VENT PIPING SHOWN SHALL BE INSTALLED IN THE CEILING OF THE FLOOR PLAN SHOWN, UNLESS OTHERWISE
- 5. PLUMBING CONTRACTOR IS RESPONSIBLE FOR OWN CUTTING & PATCHING AS REQUIRED. FINISHING SHALL BE BY GENERAL CONTRACTOR.
- 6. INSTALL SECTIONALIZING VALVES AT ALL MAIN 'T' ON DOMESTIC HOT & COLD WATER SERVICE.
- 7. VENT PIPING UNDER SLABS SHALL BE A MINIMUM OF 2".
- 8. WASTE PIPING UNDER SLABS SHALL BE A MINIMUM OF 3".
- 9. ALL PLUMBING FIXTURES AND TRIM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, AS WELL AS ALL ADA AND ANSI-A-117.1 REQUIREMENTS.
- 10. INSTALL CONDENSATION CONTROL INSULATION: MINIMUM 1"-INCH THICK FOR ALL PIPE SIZES.
  - A. COOLING COIL CONDENSATION PIPING TO WASTE PIPING FIXTURE OR INLET. (COORDINATE W/ MECHANICAL CONTRACTOR).
  - B. PLUMBING PIPING AS FOLLOWS:
  - a. BODY OF ROOF DRAINS AND STORM PIPE OF HORIZONTAL & VERTICAL RUNS, & OFFSETS (INCLUDING ELBOWS) OF INTERIOR DOWN SPOUT PIPING IN ALL ARFAS
  - WASTE PIPING FROM ELECTRIC WATER COOLERS TO DRAINAGE SYSTEM.
  - c. WASTE PIPING LOCATED ABOVE BASEMENT FLOOR FROM AIR HANDLING UNITS, FROM FIXTURE (INCLUDING TRAP) TO MAIN VERTICAL WASTE PIPE. (COORDINATE W/ MECHANICAL CONTRACTOR).
  - d. COLD WATER PIPING.
- 11. HOT & HOT WATER RETURN PIPING SHALL BE INSULATED PER WRITTEN SPECIFICATIONS AND NYS ENERGY CONSERVATION CONSTRUCTION CODE.
- 12. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF DRAINS AND FOR ADDITIONAL ROOF DRAIN WORK NOT SHOWN ON PLUMBING DRAWING.
- 13. ROOF LEADERS MUST BE CONVEYED INDEPENDENTLY FROM SANITARY SEWER SYSTEMS, (STORM DRAIN SHALL NEVER TIE INTO SANITARY SEWER SYSTEM).
- 14. UNLESS OTHERWISE NOTED, ALL VALVES 2"0 & SMALLER SHALL BE QUARTER-TURN BALL VALVES AND ALL VALVES 21/2" & LARGER SHALL BE GATE VALVES. ALL VALVES SHALL BE OF FULL-PORT DESIGN.
- 15. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED & PAY ALL FEES.
- 16. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING BEDDING AND BACK FILLING AS PER SPECIFICATIONS. ALL TRENCH WORK TO BE COORDINATED WITH THE GENERAL CONSTRUCTION CONTRACTOR.
- 17. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.

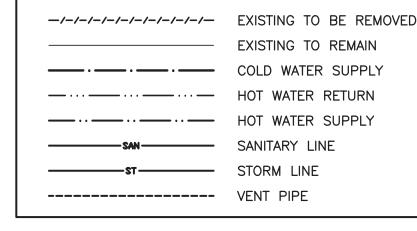
### KITCHEN PLUMBING NOTES

- 1. EQUIPMENT SUPPLIED BY A VENDOR OTHER THAN THE KEC HAVE ALL PLUMBING, ELECTRICAL, AND HVAC MECHANICAL CONNECTIONS VERIFIED PRIOR TO CONSTRUCTION.
- 2. ALL ROUGH-INS MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE STATE & LOCAL
- 3. REFER TO EQUIPMENT SPECIFICATIONS BOOKLET FOR ADDITIONAL INFORMATION ON SUPPLIED KITCHEN EQUIPMENT.
- 4. ALL ROUGH-INS AND FINAL CONNECTIONS TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
- GAS MAIN TO KITCHEN AREA REQUIRES A ELECTRIC-ACTUATED GAS SHUT OFF SOLENOID VALVE TO BE SUPPLIED & INSTALLED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- 6. KITCHEN EQUIPMENT CONTRACTOR TO FURNISH GAS COOKING EQUIPMENT WITH PRESSURE REGULATORS & ALL OTHER APPURTENANCES REQUIRED PER MANUFACTURERS SPECIFICATIONS AND LOCAL CODES.
- 7. ALL INDIRECT DRAINS LINES ARE TO BE PIPED TO FLOOR DRAINS BY PLUMBING CONTRACTOR AND AIR GAPPED AS PER CODE.
- 8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL HOT AND COLD WATER LINE CHECK VALVES AT ALL SPRAY SYSTEM UNIT MIXING VALVES.
- 9. KITCHEN EQUIPMENT TO BE PROVIDED & SET IN PLACE BY KITCHEN CONTRACTOR. ALL ROUGH-INS FINAL CONNECTIONS BY PLUMBING CONTRACTOR. COORDINATE WITH KITCHEN CONTRACTOR FOR EXACT LOCATIONS.
- 10. ALL FAUCETS FOR FOOD SERVICE EQUIPMENT FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR TO BE INSTALLED BY P.C.
- 11. ALL APPURTENANCES AND SPECIALTIES REQUIRED FOR KITCHEN EQUIPMENT (GAS PRESSURE REGULATORS, WATER PRESSURE REDUCING VALVES, ETC.) TO BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR.

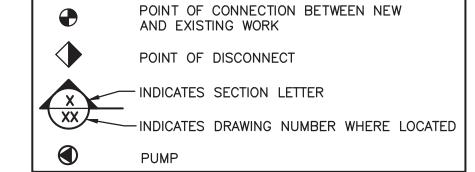
# PIPING SYMBOLS



# PLUMBING LINE TYPES



## **GENERAL SYMBOLS**



2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS

TABLE C403.11.3

INSULATION CONDUCTIVITY

(BTUxIN)/(HxFT2xF) TEMPERATURE •

ь I MEAN RATING

250

200

150

125

100

75

50

a. FOR PIPING SMALLER THAN 11/2" AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF

FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE

 $T=r[(1+t/R)^{K/k}-1]$ 

t = INSULATION THICKNESS LISTED IN THE TABLE APPLICABLE FLUID TEMPERATURE AND PIPE SIZE

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF

AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF

AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN

THESE THICKNESSES BY 1" SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE

K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE

FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 11/6"

(38mm) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B BUT NOT TO

k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID

CONDUCTIVITY

0.32 - 0.34

0.29 - 0.32

0.27 - 0.30

0.25 - 0.29

0.21 - 0.28

0.21 - 0.27

0.20 - 0.26

B) BUT NOT TO A THICKNESS LESS THAN 1".

FOR SI: 1'' = 25.4mm,  $^{\circ}C = [(^{\circ})-32]/1.8$ 

T = MINIMUM INSULATION THICKNESS

THICKNESSES LESS THAN 1".

**ENERGY CODE STATEMENT:** 

UNIFORM CODE STATEMENT:

r = ACTUAL OUTSIDE RADIUS OF PIPE

FLUID TEMPERATURE [(BTUxIN)/HxFT2x+F)]

COMPLIANCE WITH THE 2020 ENERGY CODE.

COMPLIANCE WITH THE 2020 UNIFORM CODE.

DETERMINED AS FOLLOWS:

FLUID OPERATING

TEMPERATURE RANG

> 350

251-350

201-250

141-200

105-140

40-60

< 40

AND USAGE (°F)

MINIMUM PIPE INSULATION THICKNESS (IN INCHES) a,c

4.5

3.0

2.5

1.5

1.0

0.5

0.5

OR OR OR	GATE VALVE — THREADED/FLANGED GATE VALVE WITH 3/4" HOSE ADAPTER
○ OR ☐ OR — DOC   DOC	GLOBE VALVE — THREADED/FLANGED
OR OR OR	CHECK VALVE
□ OR □ OR <del>□ □</del>	STRAINER
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
OR OR —101—	BUTTERFLY VALVE
□ OR □ OR — <b>□</b>	BALL VALVE
<b>─</b> ₩	CONTROL VALVE (CV) - FLOAT-OPERATED
OR OR OR	MODULATING CONTROL VALVE
<b>─</b> ┗	MODULATING CONTROL BUTTERFLY VALVE
, —————————————————————————————————————	TWO POSITION CONTROL VALVE
OR OR OR	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
O OR OR OR	PRESSURE REGULATING VALVE
⊚ OR ∯ OR —di—	PRESSURE REDUCING VALVE (PRV)
● OR P OR	TEMPERATURE & PRESSURE RELIEF VALVE
<b>A</b>	SAFETY OR PRESSURE RELIEF VALVE
○ OR	AUTOMATIC BALANCING CONTROL VALVE
—₩—	WATER BALANCE DEVICE
<b>─</b>	WATER FLOW MEASURING DEVICE
OR OR OR	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
OR OR OR	TRIPLE DUTY VALVE

WATER LEVEL CONTROLLER

COMBINATION BALANCING AND

TEST PLUG (PRESSURE/TEMPERATURE)

FLOW METER

PLUG VALVE

SHUT-OFF VALVE

MANUAL AIR VENT

LUBRICATED PLUG VALVE

**I**□ J OR

NOMINAL PIPE OR TUBE SIZE (INCHES)

5.0

4.0

2.5

1.5

1.0

0.5

1.0

TO <1%"|1%" TO <4"|4" TO <8"|

5.0

4.5

2.5

1.5

1.0

1.0

2.0 2.0

5.0

4.5

3.0

1.5

1.0

1.0

□ OR — Ū—

5.0

4.5

3.0

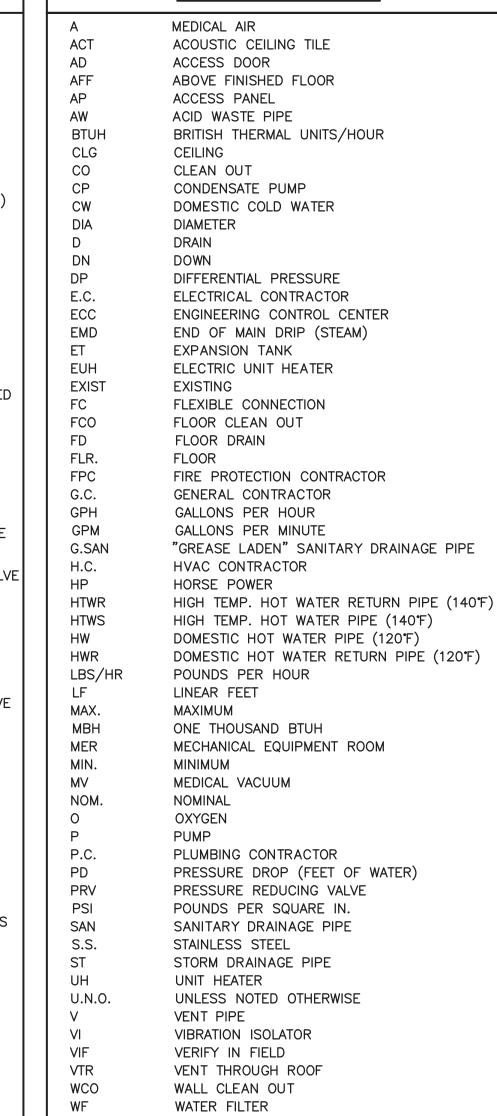
2.0

1.5

1.0

1.5

## **VALVE SYMBOLS**



**ABBREVIATIONS** 

WFM

WH

- 1. PIPE P&T VALVE TO FLOOR DRAIN.
- 2. PROVIDE BOILER DRAINS FOR EACH HEATER.
- 3. PROVIDE 4" CONCRETE HOUSEKEEPING PAD UNDER WATER HEATERS AND EXPANSION TANK.

WATER FLOW MEASURING DEVICE

- 4. PROVIDE UNIONS AT INLET AND OUTLET CONNECTIONS TO ALL EQUIPMENT.
- 5. ALL VALVES TO BE 1/4 TURN BALL VALVES, FULL PORT, UNLESS OTHERWISE NOTED.
- 6. INDEPENDENTLY SUPPORT PUMPS AS NECESSARY. ELECTRICAL
- 7. MOTORIZED SOLENOID VALVES FOR SAFETY SHUTDOWN SHALL BE INSTALLED WITH AQUASTAT CONTROLLER SET AT +15°F ABOVE DELIVERY TEMPERATURE (ADJUSTABLE). VALVES SHALL BE SELF CONTAINED, AUTOMATIC RESETTING.

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ONSTRUCTION

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### DOMESTIC WATER HEATER NOTES:

WATER HEATER

- CONNECTION BY E.C. CONTROL BY THIS CONTRACTOR.

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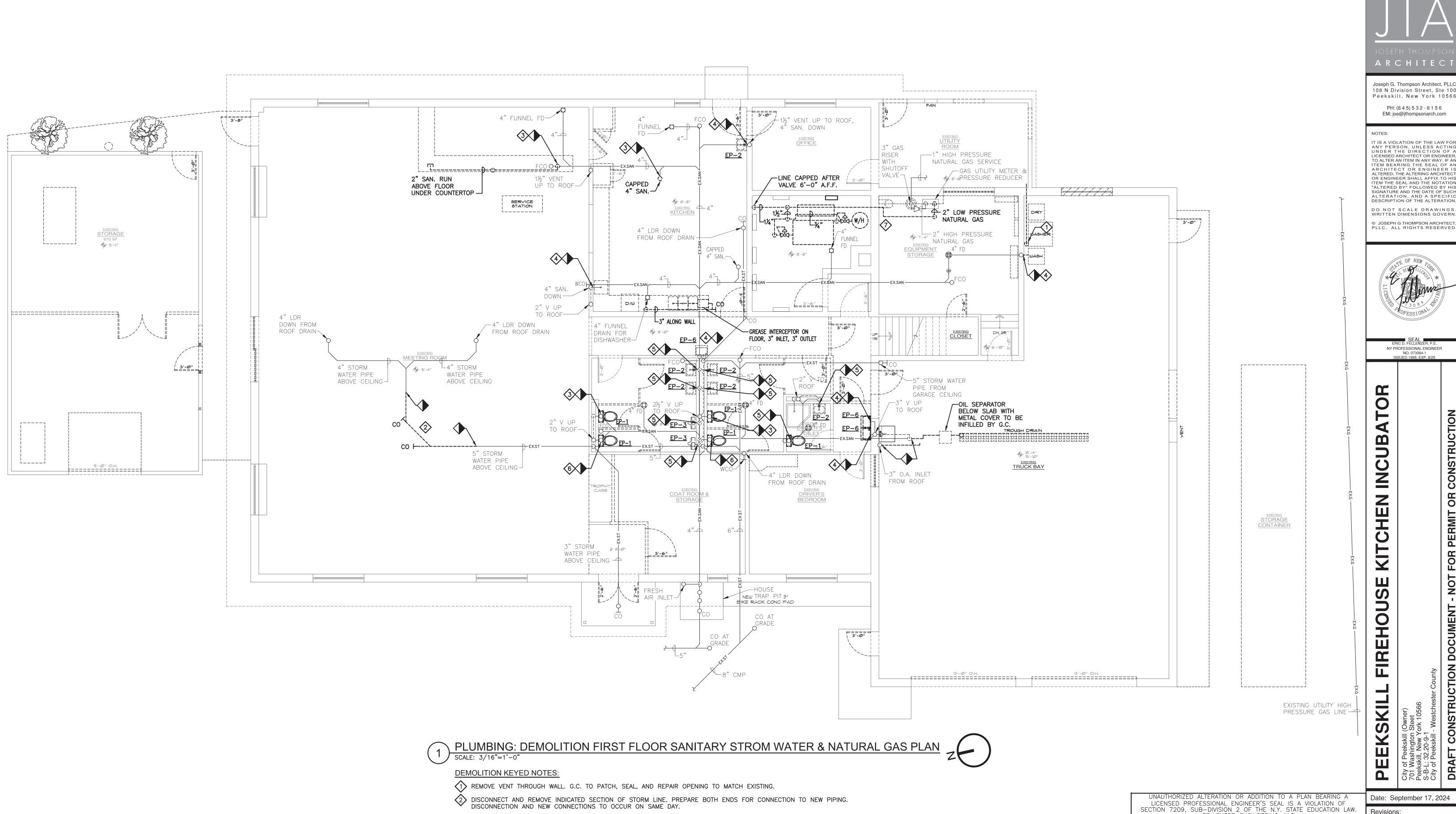
Revisions:

NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK OF LOCATING.

www.fellp.com 22 Mulberry St., Suite 2A, Middletown, NY 10940

t 845-343-1481 fx 845-343-4986 DESIGNED BY REFERENCE SCALE

Date: September 17, 2024



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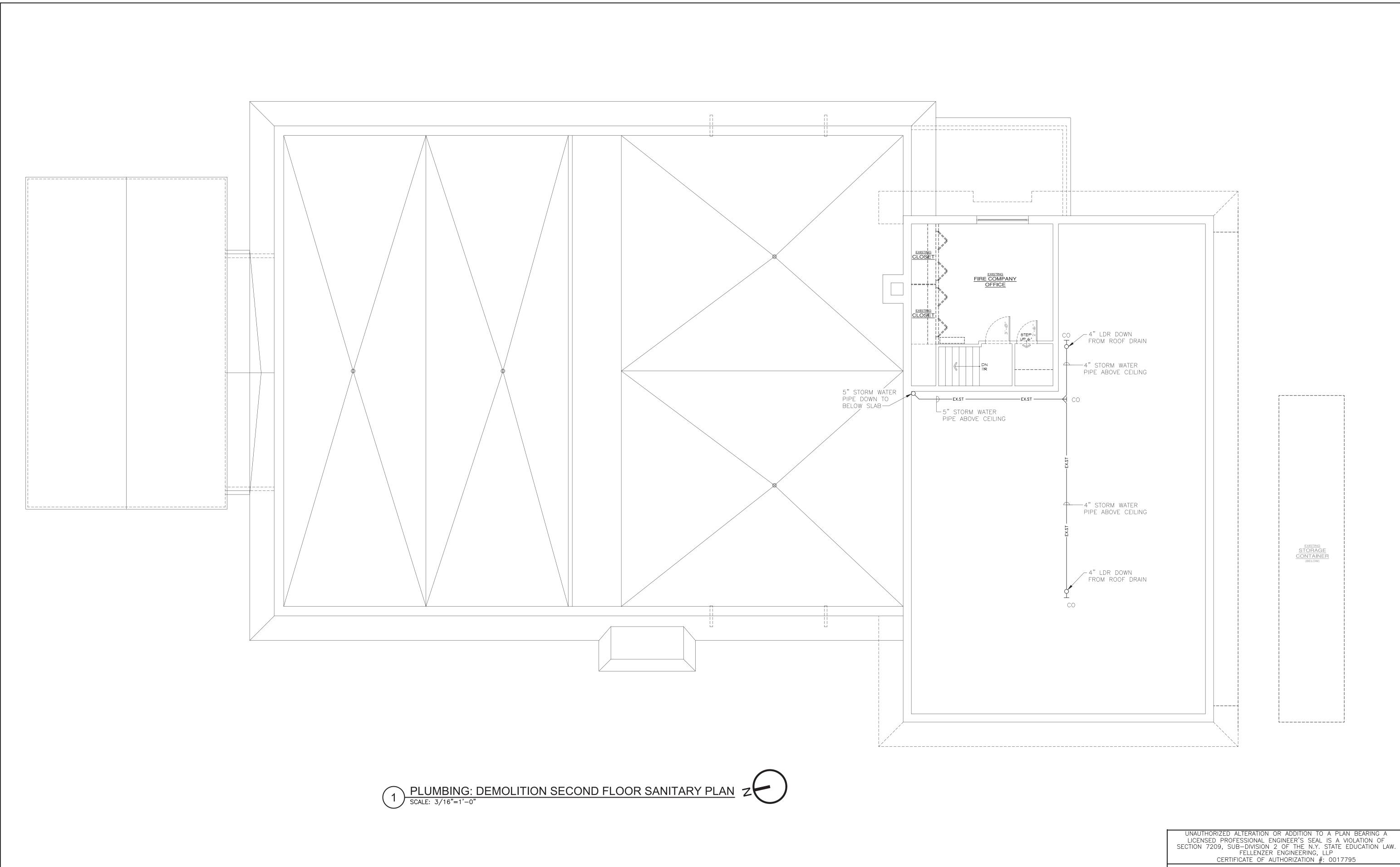
- DISCONNECTION AND NEW CONNECTIONS TO OCCUR ON SAME DAY.
- DEMO SANITARY PIPING BACK BELOW FLOOR, THEN CAP AND SEAL. G.C. TO COVER FLOOR OPENING AND PATCH, SEAL, AND REPAIR FLOOR TO MATCH EXISTING.
- DEMO TRAP AND SANITARY BACK BEHIND WALL, THEN CAP AND SEAL. G.C. TO FILL WALL OPENING AND PATCH, SEAL, AND REPAIR WALL TO MATCH EXISTING.
- 5 DEMO TRAP AND SANITARY TO SANITARY STACK AND PREPARE FOR CONNECTION TO NEW.
- (6) DEMO SANITARY PIPING BACK TO FLOOR CONNECTION AND PREPARE FOR CONNECTION TO NEW.
- DEMO NATURAL GAS PIPING BACK TO METER.

### **DEMOLITION GENERAL NOTE:**

1. ALL ROOF PENETRATIONS ARE 4" UNLESS OTHERWISE SPECIFIED.



NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK OF LOCATING.



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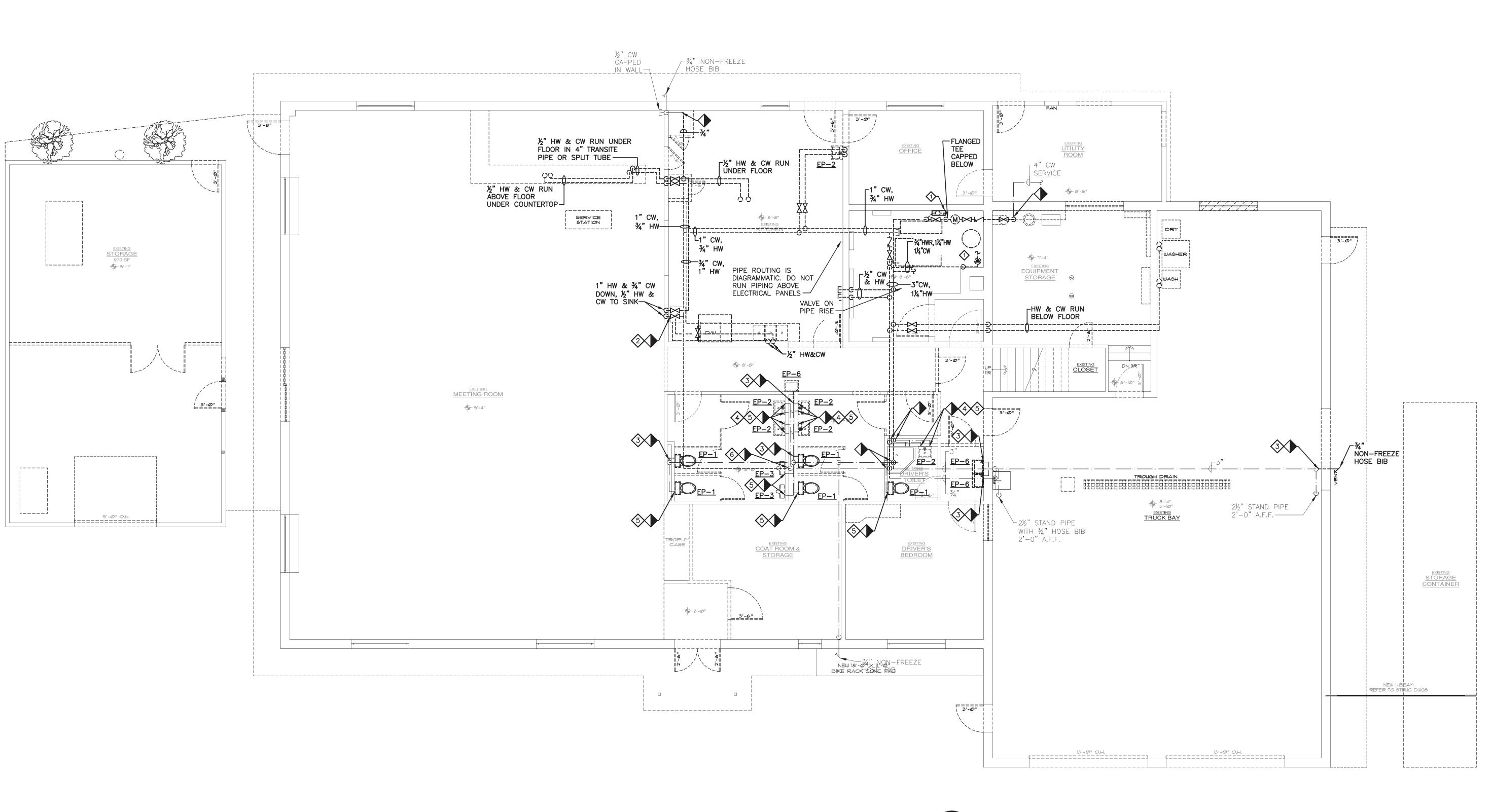
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PLUMBING: DEMOLITION FIRST FLOOR DOMESTIC WATER PLAN Z SCALE: 3/16"=1'-0"

### **DEMOLITION KEYED NOTES:**

- SEE DETAIL 1/P7.01 FOR DOMESTIC WATER PIPING IN THIS AREA.
- DEMO DOMESTIC HOT WATER WATER LINE AND SUPPLY STOP, IF PRESENT, BACK TO NEAREST TEE OR VALVE, THEN CAP AND SEAL. LEAVE NO DEAD ENDS. G.C. TO COVER OPENING AND PATCH, SEAL, AND REPAIR OPENING TO MATCH EXISTING.
- DEMO DOMESTIC COLD WATER LINE AND SUPPLY STOP, IF PRESENT BACK TO NEAREST TEE, THEN CAP AND SEAL. LEAVE NO DEAD ENDS. G.C. TO COVER OPENING AND PATCH, SEAL, AND REPAIR OPENING TO MATCH EXISTING.
- DEMO DOMESTIC HOT WATER LINE AND SUPPLY STOP, IF PRESENT, BACK TO NEAREST TEE AND PREPARE FOR CONNECTION TO NEW.
- DEMO DOMESTIC COLD WATER LINE AND SUPPLY STOP, IF PRESENT, BACK TO NEAREST TEE AND PREPARE FOR CONNECTION TO NEW.
- DISCONNECT DOMESTIC HOT WATER LINE AT TEE AND DEMO SECTION INDICATED. CAP LINE TO REMAIN AT TEE, LEAVE NO DEAD ENDS.



NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK

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LICENSED ARCHITECT OR ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO HIS ITEM THE SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

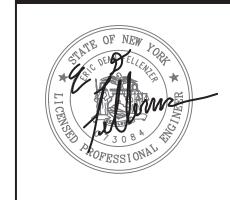
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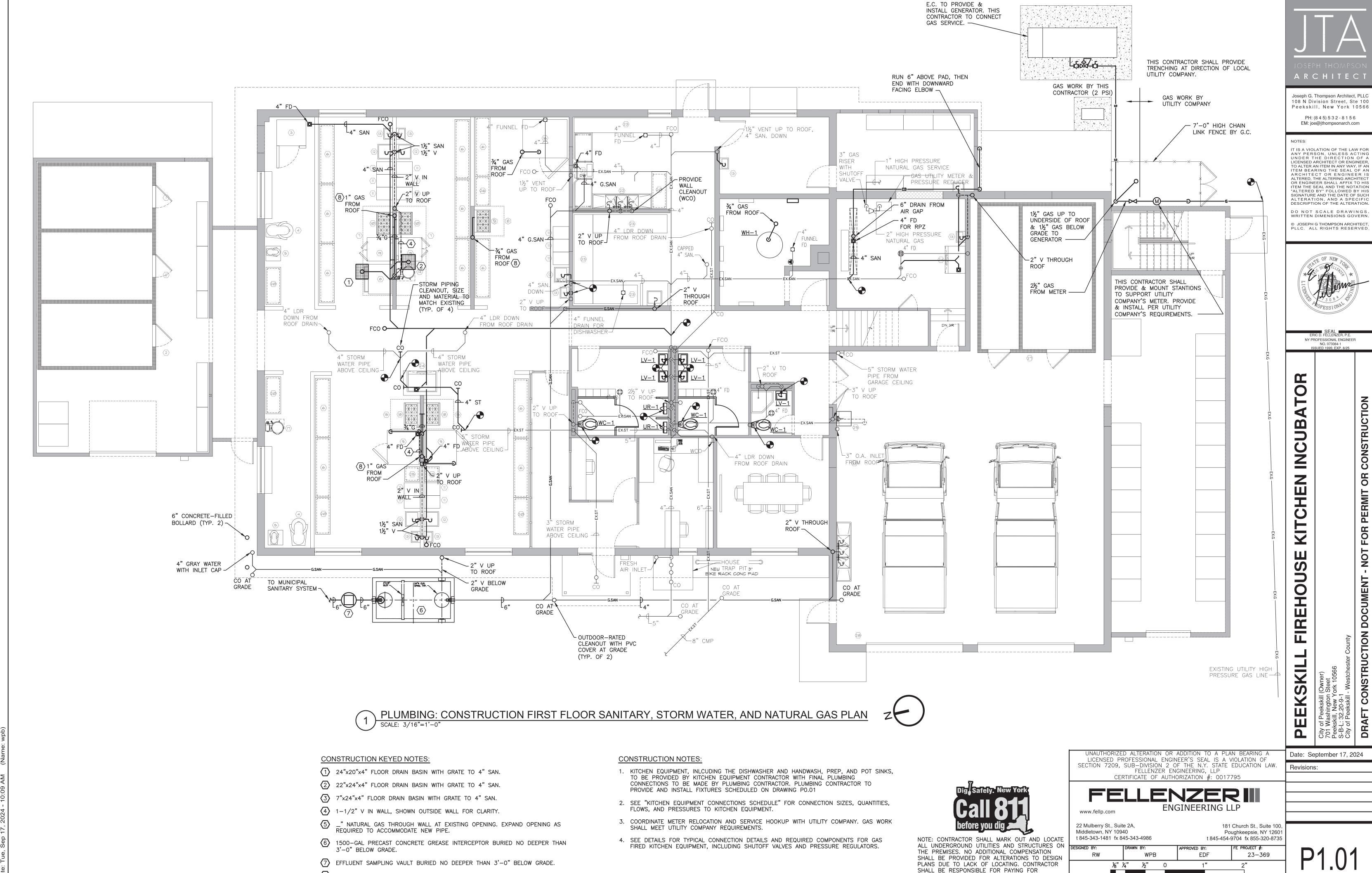
NY PROFESSIONAL ENGINEER

NO. 073084-1 ISSUED 1995; EXP. 8/25

ONSTRUCTION OR PERMIT

Date: September 17, 2024

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RE-LOCATING OR DAMAGES RESULTING FROM LACK

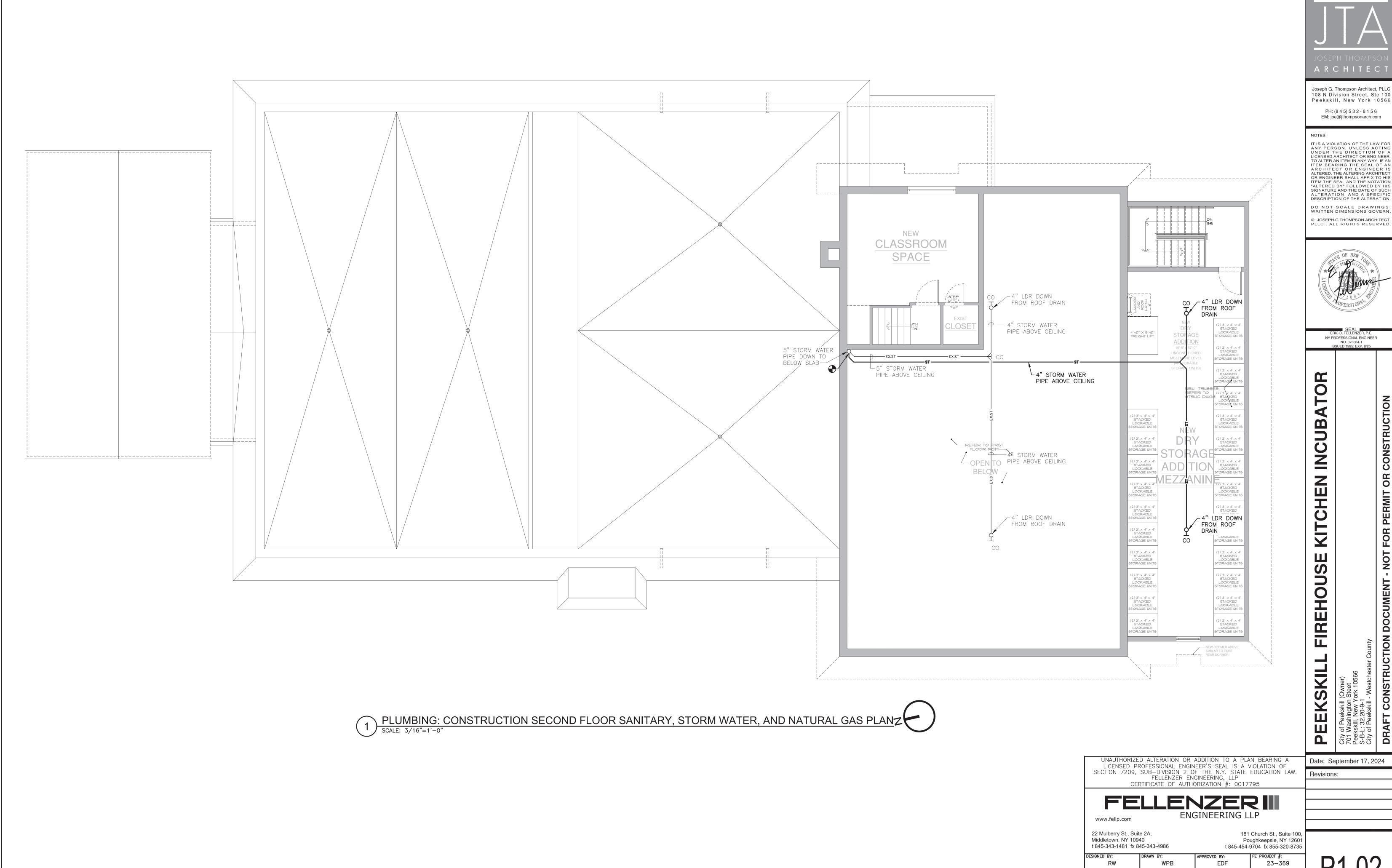
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OF LOCATING.

(8) INSTALL GAS SHUTOFF VALVE UPSTREAM OF KITCHEN APPLIANCES PER KITCHEN

HOOD DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.

File Name: F:\2023\23-369 Peekskill Firehouse Kitchen Incubator\PLUMBING\PD1.01 & P1.01 (FIRST FLOOR SANITARY).dwg



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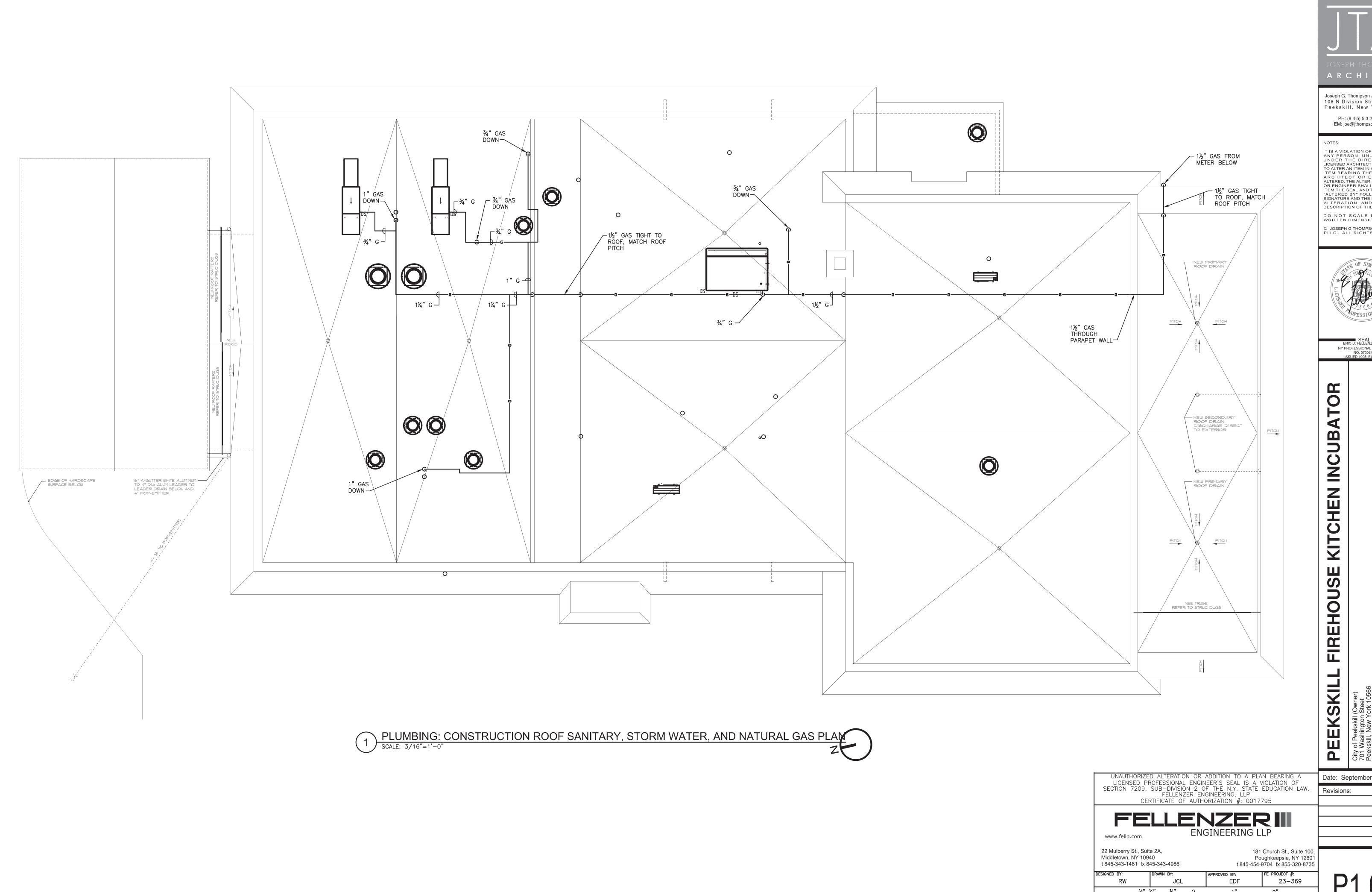
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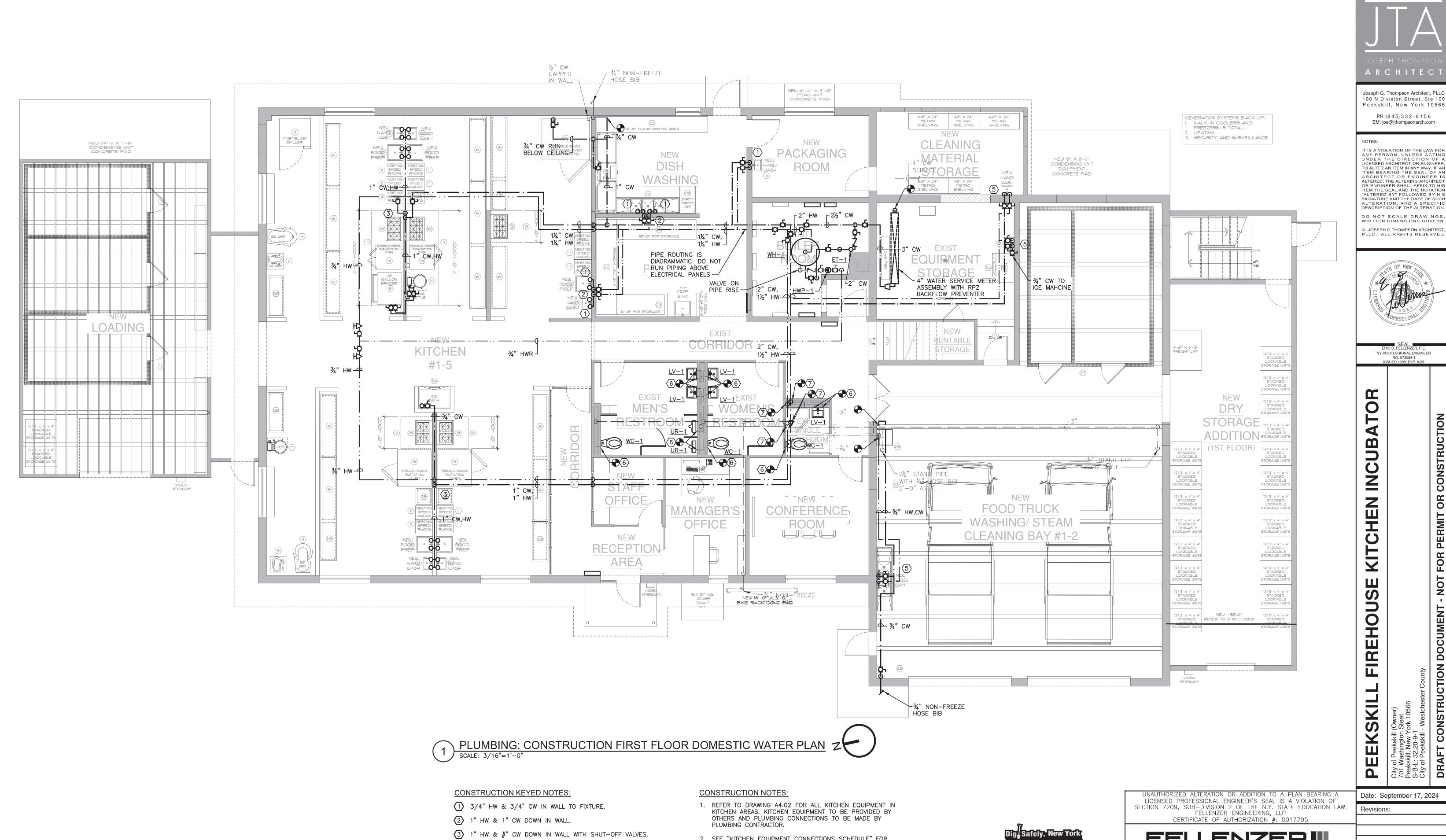
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CONNECT NEW SERVICE SINK TO EXISTING SUPPLY LINES ALONG

5 SEE DETAIL #/P7.01 FOR DOMESTIC WATER PIPING IN THIS AREA.

6 CONNECT NEW FIXTURE TO EXISTING SUPPLY LINE(S) WITH NEW SUPPLY STOP(S).

PROVIDE NEW SHUT-OFF VALVES FOR CONNECTION TO EXISTING

2. SEE "KITCHEN EQUIPMENT CONNECTIONS SCHEDULE" FOR CONNECTION SIZES, QUANTITIES, FLOWS, AND PRESSURES TO KITCHEN EQUIPMENT.



NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK OF LOCATING.

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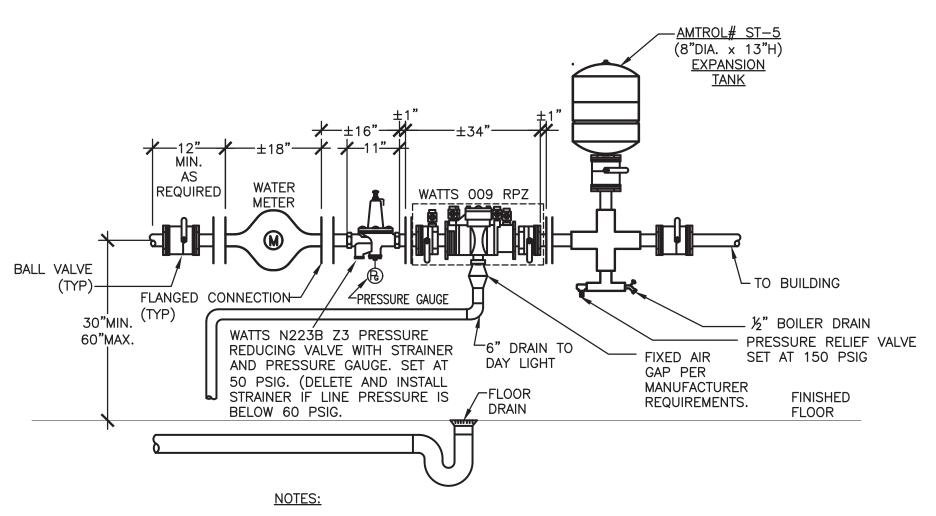
Date: September 17, 2024 Revisions:

THERMOMETER RECIRCULATING — AQUASTAT HONEYWELL PUMP L6006C1018 EXHAUST AIR-SETPOINT @ 140°F 10°F DIFFERENTIAL OUTDOOR AIR-PRESSURE RELIEF -VALVE GAS COCK EXPANSION TANK GAS SUPPLY-PIPING PROVIDE SUPPORT AS REQ'D. -TO FLOOR DRAIN 4" CONCRETE PAD ──── -CONDENSATE NEUTRALIZER WATER HEATER PIPING SCHEMATIC

HOT WATER ----

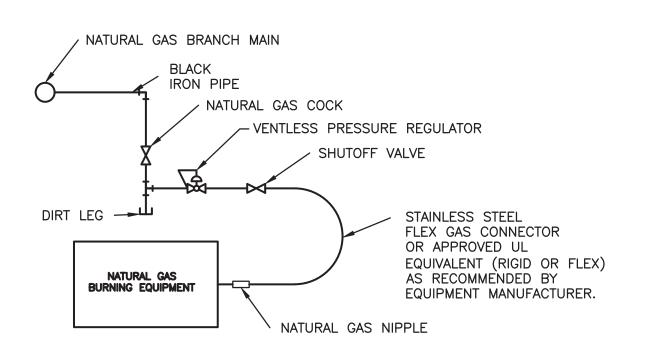
EXISTING DOMESTIC WATER HEATER PIPING DIAGRAM (TO BE REMOVED)

-3" O.A. INLET THROUGH THROUGH ROOF ROOF (TYP.)-½" HW & 1" HW & 1¼" CW ─ & CW-¾" CW ¬ ROOF ROOF 2½"-+ 00 \_-1½ Q PREWASH ₩ 1" HW & SINK — -DISHWASHER <u>EP-2</u> | <u>EP-2</u> | <u>EP-2</u> | <u>EP-6</u> 3" O.A. INLET— FROM DRAIN DISHWASHER —GREASE INTERCEPTOR FUNNEL FUNNEL OIL SEPERATOR FD EXISTING DOMESTIC WATER RISER DIAGRAM



- 1. PROVIDE 18" MINIMUM BETWEEN BOTTOM OF RELIEF VALVE AND FLOOR.
- 2. PROVIDE 12" MINIMUM CLEAR SPACE ABOVE ASSEMBLY TO ALLOW FOR SERVICING OF CHECK VALVE.
- 3. PROVIDE A MINIMUM OF 30" CLEAR SPACE BETWEEN THE FRONT SIDE OF ALL BFP AND NEAREST WALL OR OBSTRUCTION.
- 4. PROVIDE 12" CLEARANCE FROM BACK SIDE OF DEVICE TO NEAREST WALL.

WATER SERVICE WITH RPZ BACKFLOW PREVENTER



CAUTION: TO PREVENT DAMAGE TO INTERNAL COMPONENTS FROM TWISTING HOLD NATURAL GAS NIPPLE SECURELY WITH PIPE WRENCH WHEN ATTACHING THE FLEX NATURAL GAS CONNECTOR.

- 1. PROVIDE REQUIRED DISPLACEMENT PER MANUFACTURER'S RECOMMENDATIONS FOR ADEQUATE EXPANSION AND CONTRACTION.
- 2. ALL PIPING TO BE INSTALLED PER NFPA REQUIREMENTS.
- 3. INDIVIDUAL SUPPLY TO EACH BURNER TO BE AS SHOWN ON DRAWINGS. MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

NATURAL GAS BURNING EQUIPMENT GAS PIPING DETAIL



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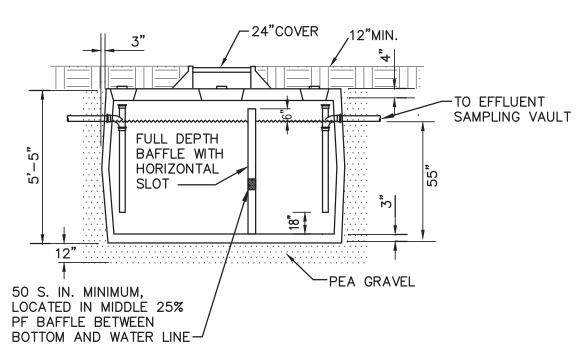


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ONSTRUCTION

Date: September 17, 2024 Revisions:



1. ONLY KITCHEN WASTES AND GRAY WATER TO ENTER GREASE TRAP.

SIDE VIEW

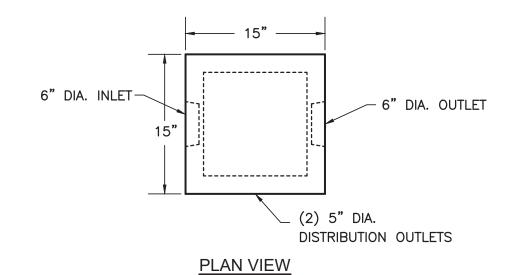
- 2. TWO-COMPARTMENT TANK SHOWN. TWO TANKS IN SERIES MAY BE USED.
- 3. PROVIDE TANK WITH HIGH LEVEL ALARM SYSTEM. COORDINATE LOCATION OF ALARM WITH OWNER.

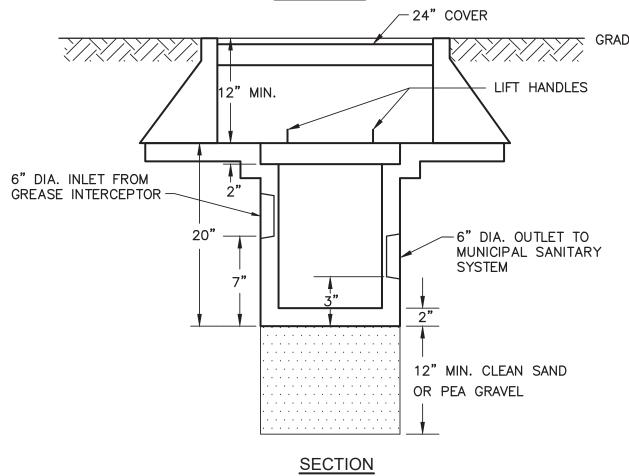
SPECIFICATIONS

USE WOODARD'S CONCRETE PRODUCTS OR APPROVED EQUAL AS FOLLOWS

- CONCRETE MINIMUM STRENGTH 4,000 PSI @ 28 DAYS.
- STEEL REINFORCEMENT 6"X6"X10GA. WIRE MESH. • CONSTRUCTION JOINT - SEALED WITH BUTYL RUBBER BASE CEMENT.
- PIPE CONNECTION POLY-LOC SEAL (PATENT PENDING).
- TANK SHALL BE TWO-COMPARTMENT OR TWO INDIVIDUAL TANKS IN SERIES, WITH THE INLET COMPARTMENT/TANK HAVING 65-75% OF
- THE TOTAL CAPACITY • TANK(S) SHALL BE VENTED
- TANK(S) SHALL HAVE AN INTERNAL BITUMINOUS COATING, CONFORM TO ASME C1613 & ASTM C990, BE CERTIFIED.

1500 GAL. GREASE INTERCEPTOR





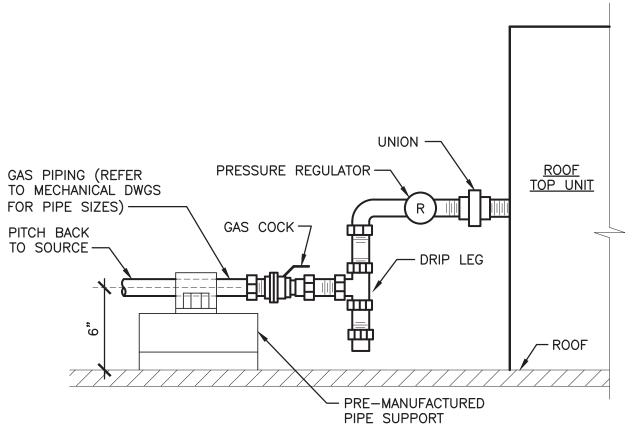
1. INLET INVERT SHALL BE AT SAME LEVEL OR UP TO 2" ABOVE CROWN OF DISTRIBUTION OUTLET.

SPECIFICATIONS

USE LAKELANDS HUDSON VALLEY CORP. OR APPROVED EQUAL AS FOLLOWS

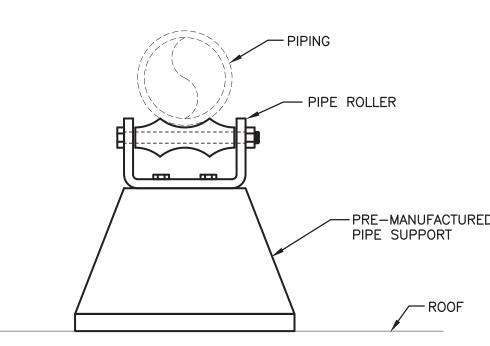
- CONCRETE MINIMUM STRENGTH 4,000 PSI @ 28 DAYS.
- REINFORCEMENT FIBER
- PIPE CONNECTION POLY-LOC SEAL (PATENT PENDING).

PRECAST EFFLUENT SAMPLING VAULT

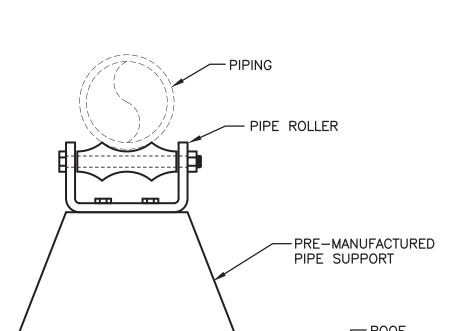


1. PROVIDE WITH PRESSURE REGULATOR 2. AFTER PRESSURE REGULATOR COORDINATE PIPE SIZE WITH UNIT INLET.

3 ROOF EQUIPMENT GAS CONNECTION DETAIL
N.T.S.



PIPING SUPPORT ON ROOF



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REFERENCE SCALE

	KIT	CHEN E	EQUIPME	NT CONNEC	CTIONS SCH	HEDULE						
			NATURAL (			WASTE/DRAIN	DOMESTIC WATER					
EQUIPMENT TAG (FROM A4.02)	DESCRIPTION	GAS FLOW (MBH)	GAS PRESSURE (IN W.C.)	CONNECTION SIZE (IN)	CONNECTION TYPE	CONNECTION SIZE (IN)	HOT WATER FLOW (GPM)	HOT WATER CONNECTION (IN)	COLD WATER FLOW (GPM)	COLD WATER CONNECTION (IN)		
[	I,280 CF WALK-IN FREEZER											
2	I,280 CF WALK-IN COOLER											
3	BLAST CHILLER	-	-	-	AIR GAP	I/2 NPTM	_	-	-	-		
4	80 QT PLANETARY MIXER	-	-	-	-	-	-	-	-	-		
5	20 QT PLANETARY MIXER	-	_	_	_	_	_	_	-	_		
6	STAINLESS STEEL WORK TABLE	-	-	-	-	-	-	-	-	-		
7	STAINLESS STEEL EXHAUST HOOD WITH FS & MUA	_	_	-	_	-	_	-	-	_		
8	40 GAL GAS BRAISER	200.0	<14	3/4 NPT	FLOOR DRAIN	2 TD VALVE	2.0	I/2 NPT	2.0	I/2 NPT		
9	SINGLE RACK ROTATING OVEN	180.0	5 - 14	I NPT	AIR GAP	1/2 NPTM	_	_	2.0	I/2 NPT		
10	6 BURNER GAS RANGE	220.0	7 - 14	I - I/4 NPT	-	-	_	-	-	-		
II	NESTING SPEED RACKS	-	-	-	-	-	-	-	-	-		
12	STAINLESS STEEL FOOD PREP SINK	_	_	-	P-TRAP	I - I/2 IPS	2.0	I/2 NPT	2.0	I/2 NPT		
13	STAINLESS STEEL HAND WASH SINK	-	_	_	P-TRAP	I - I/2 IPS	2.0	I/2 NPT	2.0	I/2 NPT		
14	25 GAL GAS KETTLE	90.0	4 - 14	3/4 NPT	FLOOR DRAIN	22" × 24" × 4"	2.2	I/2 NPT	2.2	I/2 NPT		
15	STAINLESS STEEL EXHAUST HOOD WITH FS & MUA	_	_	-	-	_	_	-	-	_		
16	DOUBLE RACK ROTATING OVEN	275.0	5 - 14	I - I/4 NPT	AIR GAP	I/2 NPTM	_	-	3.0	I/2 NPT		
17	VERTICAL CUTTER MIXER	_	_	-	FLOOR DRAIN	7-3/4" × 24" × 4"	2.2	I/2 NPT	2.2	I/2 NPT		
18	4 BURNER GAS RANGE	160.0	7 - 14	I - I/4 NPT	-	_	_	-	-	-		
19	DOUBLE DECK CONVECTION OVEN	120.0	4.5 - 13.8	I NPT	-	_	_	-	-	_		
20	STAINLESS STEEL WORK TABLE	_	_	-	-	_	_	-	-	-		
21	CORNER SLIDE-IN DISHWASHER	-	-	-	AIR GAP	5/8 NPT	-	-	*I5 PSI MIN	3/4 - II.5 NH		
22	STAINLESS STEEL THREE COMPARTMENT SINK	-	-	-	P-TRAP	I - I/2 IPS	2 × 2.0	2 × 1/2 IPS	2 × 2	2 × 1/2 ISP		
23	STAINLESS STEEL WIRE SHELVING	-	-	-	_	-	-	-	-	-		
24	ICE MACHINE	-	-	-	FLOOR DRAIN	TBD	-	-	TBD	TBD		
25	STAINLESS STEEL WORK TABLE	_	_	-	-	-	_	-	-	_		

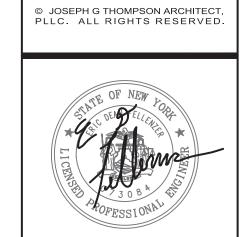
LEGEND AND SCHEDULE OF PLUMBING EQUIPMENT												
TAG	MANUFACTURER	CATALOG NO.	MOUNTING HEIGHT	MAXIMUM FLOW RATE	DRAIN	WATER CW	SUPPLY HW	DESCRIPTION				
LV-I	AMERICAN STANDARD	0355.012	32" MIN 34" MAX. AFF	0.5 GPM	1-1/4"	3/4"	3/4"	UNIT LAVATORY: "LUCERNE" WALL MOUNTED VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW. SUPPLY WITH AMERICAN STANDARD FAUCET MODEL #7385.050, TAILPIECE, SUPPLY STOPS, FITTINGS, AND ADA COMPLIANT DRAIN AND SUPPLY COVERS. ADA COMPLIANT (34" MOUNTING HEIGHT). PROVIDE WALL MOUNTING HARDWARE AND SUPPORTS. INCLUDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.				
WC-I	AMERICAN STANDARD	3043.001	FLOOR MOUNTED	1.28 GPF	4"	"		UNIT WATER CLOSET: "MADERA FLOWISE" FLOOR MOUNTED WATER CLOSET WITH ELONGATED BOWL, COLOR: WHITE. ADA COMPLIANT. SUPPLY WITH AMERICAN STANDARD FLUSHOMETER VALVE MODEL #6047.121.002. PROVIDE SEAT, COLOR TO MATCH TOILET. INCLUDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.				
UR-I	AMERICAN STANDARD	6590.501	15-1/4" MIN 24" MAX.   AFF	0.5 GPF	2"	3/4"		UNIT URINAL: "WASHBROOK FLOWISE" WALL MOUNTED URINAL WITH TOP SPUD MANUAL FLUSH VALVE. ADA COMPLIANT, MOUNT TO ADA HEIGHT WHERE INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE WALL MOUNTING HARDWARE AND SUPPORTS. INCLUDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.				
FCO	ZURN	ZN-1400	FLOOR MOUNTED					FLOOR CLEANOUT: "LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND SCORIATED POLISHED NICKEL BRONZE TOP, ADJUSTABLE TO FINISHED FLOOR, SIZED TO MATCH PIPE.				
WCO	ZURN	Z-1446	9" AFF					WALL CLEANOUT: DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW, SIZED TO MATCH PIPE.				

	GAS FIRED CONDENSING DOMESTIC HOT WATER HEATER SCHEDULE													"AO SMITH" AS STANDARD OF APPROVED EQUAL				
			MAX. WORKING	HEATING DATA				VENT	FLOW RATE	DESIGN	MAX.	WEIGHT CAPA	CADACITY	ELETRICAL DATA				
TAG	LOCATION	MODEL NO.	PRESSURE	FUEL	INPUT	THERMAL	GAS	INLET PRESSURE	DIAMETER	AT 100°F ∆T	WATER	WATER	(LBS)		VOLTS/Ø/HZ	MCA	MOCE	REMARKS
			(PSI)	TYPE	(MBH)	EFFICIENCY	CONNECTION	(IN. W.C.)	(IN)	(GPH)	TEMP. (°F)	TEMP. (°F)	(LDS)	(OAL)	VOL13/0/HZ	MCA	MOCE	
WH-I	BOILER ROOM	BTLH-500A	160	NAT. GAS	499.9	92%	I-I/2" NPT	4.8 - 14	6	557	140	180	1420	220	120/1/60	5	15	SEE NOTES

- I. PROVDE UNIT WITH CONDENSATE NEUTRALIZATION KIT. PIPE DRAIN LINE TO NEAREST FLOOR DRAIN AND PROVIDE WITH AIR GAP.
- 2. WATER HEATER TO BE ASME RATED & CERTIFIED.
- 3. PIPE DRAIN & RELIEF LINES TO FLOOR DRAIN PER MANUFACTURER'S RECOMMENDATIONS.

	"WESSELS COMPANY"												
	DOMESTIC WATER EXPANSION TANK SCHEDULE  STANDARD OR APPROVED												
	TAG			WORKING		TANK SIZE				TANK C			
		LOCATION	OCATION MODEL NO.	PRESSURE P (PSIG)				ACCEPTANCE VOLUME	WEIGHT	SUPPLY		REMARKS	
						(IN)	(IN)	(GAL)	(LBS)	(IN)	VALVE (IN)		
	ET-I	BOILER ROOM	TXA-85	150	40	16	37	21	90	I NPT	0.302 - 32NC	SEE NOTES	

- I. TANK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION VIII OF THE ASME BOILER AND VESSEL CODE AND STAMPED FOR 150 PSIG WORKING PRESSURE.
- 2. RELIEF VALVE SHALL BE SET AT MANUFACTURER'S RECOMMENDED RELIEF PRESSURE.
- 3. BUTYL BLADDER AND STEEL TANK SHALL BE FDA-APPROVED FOR POTABLE WATER USAGE.



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PROVIDE FIXTURES SCHEDULED OR APPROVED EQUALS