

GENERAL NOTES

1. **SCOPE:** FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY TO PROVIDE, INSTALL, TEST AND ADJUST HVAC AND PLUMBING SYSTEMS COMPLETE, OPERATIONAL, AND READY FOR USE, AS INDICATED IN THESE DRAWINGS AND SPECIFICATIONS.
2. **PERMITS, LICENSES & FEES:** PAY ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR LEGAL REMOVAL AND INSTALLATION OF THE WORK.
3. **APPLICABLE CODES AND STANDARDS:** ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION. APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - A. 2015 VIRGINIA CONSTRUCTION CODE
 - B. 2015 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
 - C. 2015 VIRGINIA ENERGY CONSERVATION CODE
 - D. 2015 VIRGINIA PLUMBING CODE
 - E. 2015 VIRGINIA MECHANICAL CODE
 - F. 2015 VIRGINIA FUEL GAS CODE
 - G. NFPA 70, NATIONAL ELECTRICAL CODE 2014
 - H. NFPA 101, LIFE SAFETY CODE
4. **DRAWING ACCURACY:** LOCATIONS AND SIZES OF EXISTING EQUIPMENT, PIPING, DUCTWORK, OUTLETS, FIXTURES, AND DEVICES SHOWN ON DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED AT THE PROJECT SITE. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO BE SCALED. WHEN INDICATED, ALL WORK SHALL BE PHYSICALLY LOCATED IN ACCORDANCE WITH ANNOTATED DIMENSIONS ON ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.
5. **SITE VISIT:** THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, EQUIPMENT, DUCTWORK, PIPING, WIRING, CONSTRUCTION, FINISHES, AND STRUCTURE PRIOR TO START OF WORK. WHEN ANY DISCREPANCY OR CONFLICT IS DETECTED AT THE PROJECT SITE, THE OWNER SHALL BE NOTIFIED IMMEDIATELY PRIOR TO COMMENCING WORK.
6. **COORDINATION:** CONTRACTOR SHALL COORDINATE AND SEQUENCE THE WORK OF ALL DIVISIONS AND TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND RACEWAYS. COORDINATE THE LOCATION OF ALL NEW EQUIPMENT, DUCTWORK, AND DEVICES WITH NEW STRUCTURE AND EQUIPMENT BEFORE FABRICATION. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.
7. **SUBMITTALS AND SUBSTITUTIONS:** CONTRACTOR SHALL PROVIDE PRODUCT INFORMATION, SHOP DRAWINGS, DOCUMENTS AND WARRANTIES FOR MATERIALS AND SERVICES TO THE OWNER FOR APPROVAL. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE IN WRITING. SUBSTITUTE MATERIAL SHALL BE COMPATIBLE WITH OTHER COMPONENTS OF THE SYSTEM.
8. **INSTALLATION OF NEW WORK:** INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY EXACT LOCATION OF EQUIPMENT, FIXTURES, ETC. COORDINATE DUCTWORK AND PIPING WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.
9. DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE CONTRACT. DESIGN DRAWINGS ARE NOT TO BE CONSIDERED AS SUBSTITUTION TO SHOP DRAWINGS. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT OF THE CONTRACT. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE MINOR CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
10. **MOUNTING HEIGHTS:** COORDINATE MOUNTING HEIGHTS OF DEVICES ON FINISHED WALLS TO PROVIDE A NEAT AND SYMMETRICAL APPEARANCE. SEE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO CENTERLINE OF EQUIPMENT.
11. **WARNING SIGNS:** PROVIDE SIGNS, BARRICADES, GUARDS, AND PROTECTION FOR SAFETY DURING CONSTRUCTION. WORK AREA SHALL BE KEPT CLEAN, CLEAR OF OBSTRUCTIONS, WELL ILLUMINATED, AND UNDER ORGANIZED MATERIAL STORAGE.
12. **FIRE STOPPING:** PROVIDE FOR CONDUIT AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS.
13. **REPAIR:** ALL WORK SHALL BE DONE IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES,

GENERAL NOTES

- CONSTRUCTION, FINISHES AND STRUCTURE. ANY DAMAGE RESULTING FROM WORK UNDER THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
14. **BUILDING SERVICE INTERRUPTION:** THE CONTRACTOR SHALL NOTIFY THE OWNER IN ADVANCE IN ACCORDANCE WITH THE SPECIFICATIONS, AND OBTAIN WRITTEN AUTHORIZATION, A MINIMUM OF 7 DAYS, PRIOR TO INTERRUPTION OF ANY BUILDING SERVICE. THE CONTRACTOR SHALL COORDINATE THE TIME AND DURATION OF SERVICE INTERRUPTION WITH THE OWNER. SERVICES THAT ARE PARTIALLY REMOVED SHALL BE CAPPED, VALVED, OR TEMPORARILY BYPASSED, SO THAT THE OCCUPIED PORTION CAN REMAIN IN OPERATION WHILE THE NEW WORK IS BEING INSTALLED.
 15. **CLEANING & MATERIAL DISPOSITION:** CLEAR ALL DEBRIS FROM THE AREA OF WORK AND LEAVE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE. ALL DEMOLISHED EQUIPMENT AND DEBRIS NOT TO BE REUSED OR SALVAGED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.
 16. **DISRUPTION:** THE WORK ON THIS PROJECT IS BEING PERFORMED IN AN OCCUPIED BUILDING. NO WORK THAT IS DISRUPTIVE TO THE BUILDING OCCUPANTS OR OPERATIONS SHALL BE PERFORMED DURING NORMAL BUSINESS HOURS (6:00 AM TO 6:00 PM). IN GENERAL, BUILDING SERVICE INTERRUPTIONS SHALL NOT BE SCHEDULED DURING NORMAL BUSINESS HOURS.
 17. **CUTTING & PATCHING:** PERFORM CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF THIS WORK. SEAL UNUSED PENETRATIONS RESULTING FROM DEMOLITION FOR THIS WORK. RESTORE SURFACES TO ADJACENT FINISH AND CONDITION.
 18. **UNKNOWN WIRING, PIPING AND DUCTWORK:** DO NOT DISTURB ANY WIRING, PIPING, OR DUCTWORK WHOSE ORIGIN, FUNCTION AND UTILITY ARE UNKNOWN WITHOUT PRIOR APPROVAL FROM THE OWNER. FIELD VERIFY ALL WIRING, PLUMBING, AND DUCTWORK IN WORK AREAS PRIOR TO START OF WORK.
 19. **HAZARDOUS MATERIALS:** IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED IN AREAS EXPECTED TO CONTAIN ACMs, PCBs, OR LEAD, THE CONTRACTOR SHALL CEASE DEMOLITION ACTIVITIES AND NOTIFY THE OWNER.
 20. PROVIDE DIELECTRIC PIPING UNIONS BETWEEN DISSIMILAR METALS.
 21. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.
 22. EXTENSIONS OF, AND NEW CONNECTIONS TO, EXISTING PIPING SYSTEMS SHALL BE MADE WITH MATERIALS OF SAME TYPE, RATING, AND COMPOSITION AS EXISTING PIPING, UNLESS OTHERWISE IDENTIFIED HEREIN.
 23. VALVES AND PIPING ACCESSORIES SHALL BE IN LINE SIZE. PROVIDE SUPPLY STOP VALVES AT ALL NON-FLUSH VALVE TYPE FIXTURES.
 24. PROVIDE CODE COMPLIANT (ASSE) BACKFLOW PREVENTER WITH SHUT OFF VALVES, UNION, AND ESCUTCHEON AT EACH EQUIPMENT CONNECTION THAT REQUIRES A POTABLE WATER CONNECTION.
 25. CONTRACTOR IS PROHIBITED FROM USING LEAD-BASED SOLDER.
 26. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT PENETRATION. PIPING PENETRATING EXTERIOR WALLS, ROOFS AND FLOOR AND CEILING SHALL BE FLASHED IN APPROVED MANNER AND SHALL BE SEALED WATERTIGHT TO MAINTAIN INTEGRITY OF SEPARATION. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE INSTALLED WITH FIRE RATED SEALS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
 27. PROVIDE ACCESS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE PERIODIC SERVICE.
 28. PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE DEVELOPMENT AND COMBUSTIBILITY.
 29. PROVIDE SHUTOFF VALVES ON BRANCH PIPING AND SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE VALVES ON ALL WATER, ETC. MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. VALVES SHALL BE INSTALLED WITH STEM UP. VALVES INSTALLED SHALL BE PERMANENTLY ACCESSIBLE FOR VALVES 3"Ø DIAMETER AND SMALLER AND SHALL BE CHAIN OPERATED FOR VALVES LARGER THAN 3"Ø.
 30. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING.
 31. **GUARANTEE:** ALL PLUMBING WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE FINAL INSTALLATION BY THE OWNER'S REPRESENTATIVE

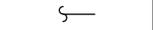
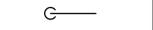
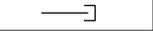
DRAWING LIST

P001	GENERAL NOTES AND PARTIAL RISER DIAGRAM
P101	SITE PLAN, FLOOR PLANS, AND RISER DIAGRAM

PIPE LINE TYPES

	GAS
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SYMBOLS

	PIPE BREAK (SINGLE LINE)
	PIPE FITTING DOWN OR DROP
	PIPE FITTING UP
	SHUT OFF VALVE
	CHECK VALVE - BACKFLOW PREVENTER
	CAP OR END OF PIPE

Consultant



Seal

Project

VIENNA TOWN HALL GENERATOR REPLACEMENT

127 CENTER STREET SOUTH
VIENNA, VA 22180

PERMIT REVIEW SET	03-27-2020
Issue Description	Date

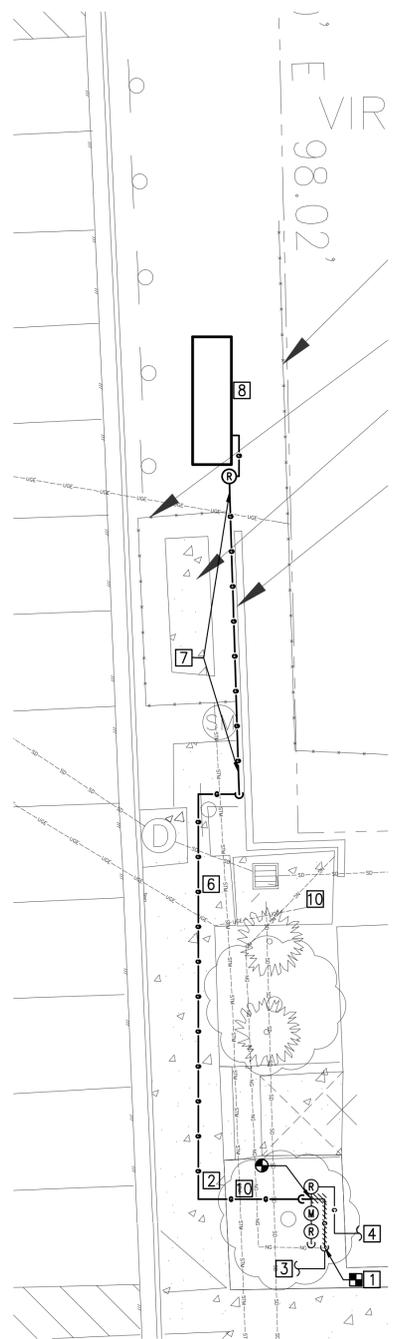
BEE Project No.	2020-014
Checked By	HAI
Drawn By	YKW
Scale	AS NOTED

Sheet Title

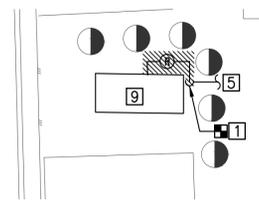
NEW WORK FLOOR AND SITE PLAN

Sheet No.

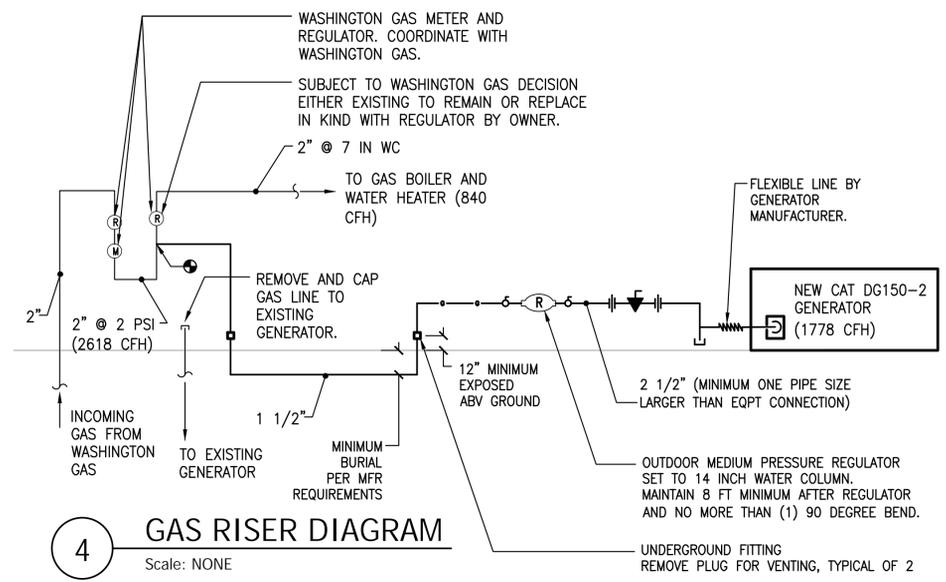
P101



2 NEW GENERATOR
Scale: 1/8" = 1'



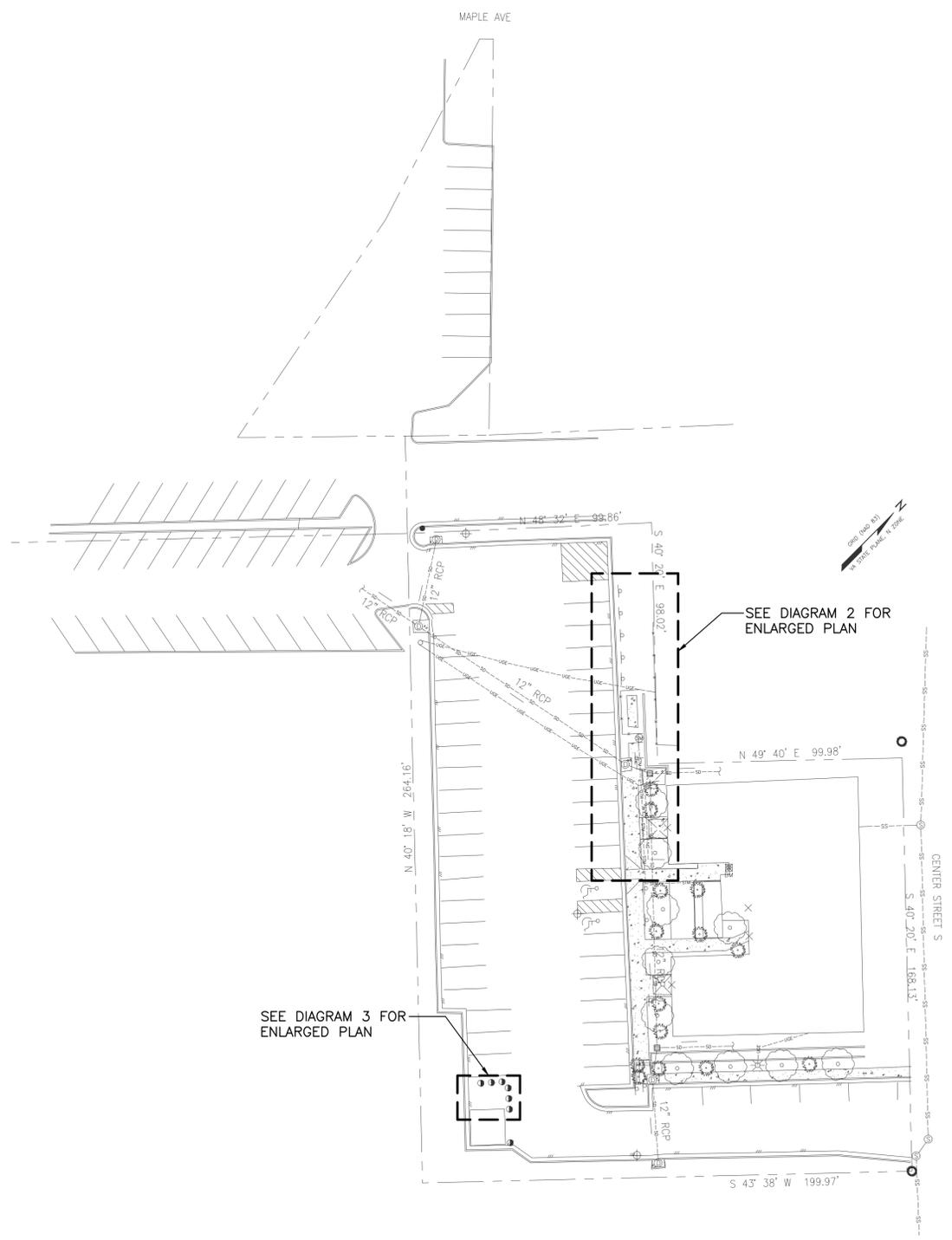
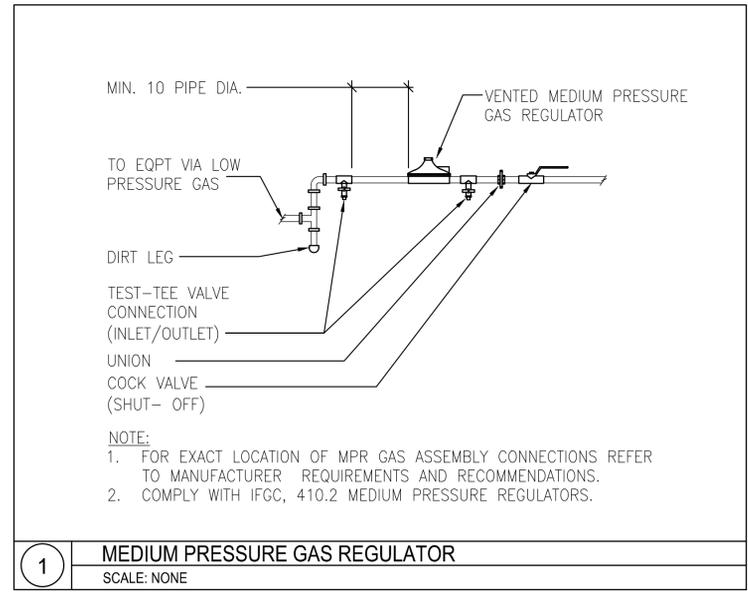
3 EXISTING GENERATOR
Scale: 1/8" = 1'



4 GAS RISER DIAGRAM
Scale: NONE

GAS DESIGN NOTES:

1. BASIS OF DESIGN IS HYBRID PRESSURE METHOD FROM 2012 IFGC
2. BASIS OF DESIGN IS TRACPIPE PS-II CSST FOR LINE TO GENERATOR
3. AFTER WASHINGTON GAS METER BRANCH TO GENERATOR
 DESIGN BASIS = TRACPIPE FLEXIBLE GAS PIPING DESIGN GUIDE AND INSTALLATION INSTRUCTIONS
 TABLE N-5: 2 PSI ELEVATED PRESSURE
 INLET PRESSURE = 2.0 PSI
 PRESSURE DROP = 1.0 PSI
 SPECIFIC GRAVITY = 0.60
 GAS PIPE EQUIVALENT = 120 FT (1778 CFH)
4. REGULATORS AND SHUT OFF VALVES SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS AS REQUIRED.
5. PROVIDE SHUT OFF VALVES FOR ALL APPLIANCES AND EQUIPMENT AS REQUIRED.
6. PROVIDE DIRT LEGS AS REQUIRED.



1 VIENNA TOWN HALL SITE PLAN
Scale: 1" = 30' - 0"

- GENERAL NOTES:**
- A. SEE DRAWING P001 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
 - B. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION NOT SHOWN.
 - C. FIELD VERIFY ADDITIONAL PIPING NOT SHOWN ON PLANS. VARIATIONS MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION.

- KEYED NOTES:** [#]
1. EMPTY AND CAP GAS LINE TO EXISTING GENERATOR.
 2. BELOW SLAB.
 3. TO EXISTING GENERATOR
 4. TO EXISTING BOILER AND WATER HEATER.
 5. FROM WASHINGTON GAS METER AND REGULATOR ASSEMBLY.
 6. COORDINATE ROUTING WITH EXISTING STORM STRUCTURES WITH MINIMUM 12 IN COVER OF GAS PIPE AND 12 IN CLEARANCE OVER EXISTING STORM PIPING. ROUTE PIPING ALONG FACE OF WALL.
 7. NEW NATURAL GAS GENERATOR. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS.
 8. EXISTING GENERATOR.
 9. EXISTING WASHINGTON GAS HIGH PRESSURE LATERAL.



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NEW WORK SITE PLAN FLOOR PLANS AND RISER DIAGRAM

Sheet No. **P101**