



TOWNSHIP OF NORTHAMPTON

55 Township Road
Richboro, PA 18954

Zoning, Building, and Code Enforcement Department

Telephone #: 215-355-3883

Fax #: 215-357-3650

PROPANE and NATURAL GAS GENERATOR REQUIREMENTS

- An Electrical Permit Application is required for all generators.
A Mechanical Permit Application is required for propane and natural gas generators.
Show name, address, and contractor's information on all plans.
- All generators are required to comply with NFPA 37.
- All generators are required to be located at least five (5) feet from wood frame/combustible walls, shrubs, windows, doors, and other openings into the house such as dryer ducts, kitchen exhaust ducts, combustion air ducts for heaters, ventilation air ducts for finished basements, bathroom fan exhaust ducts, etc. Stucco over wood framing is not a clearance reduction.
- Some manufacturers have a reduced clearance to the building wall and shrubbery and would need to be verified on the plan review. This would not reduce the clearances to openings into the house.
- Please provide a copy of the manufacturer's installation and/or owner's manual book. In most cases, only some pages are needed. We can return the book(s), if requested, after the plan review is completed.
- Please provide a plan view of the house showing the location of the gas meter and generator with dimensions to the building and other openings into the house, as indicated above, and distances to shrubs/trees/combustibles, etc.
- For natural gas generators only, please provide a clear gas piping diagram from the gas meter to the generator and show the following information:
 1. input btu's of the generator;
 2. size of the gas piping, material (galvanized steel), and lengths of piping;
 3. all gas shut-off valves, unions, drip leg, and piping support spacing, if required;
 4. A minimum of six (6) inches is required above grade to galvanized piping.
- A natural gas piping and test is required, 3 - 5 p.s.i. for 15 minutes (show this on the plans). Please call our office to schedule an inspection.

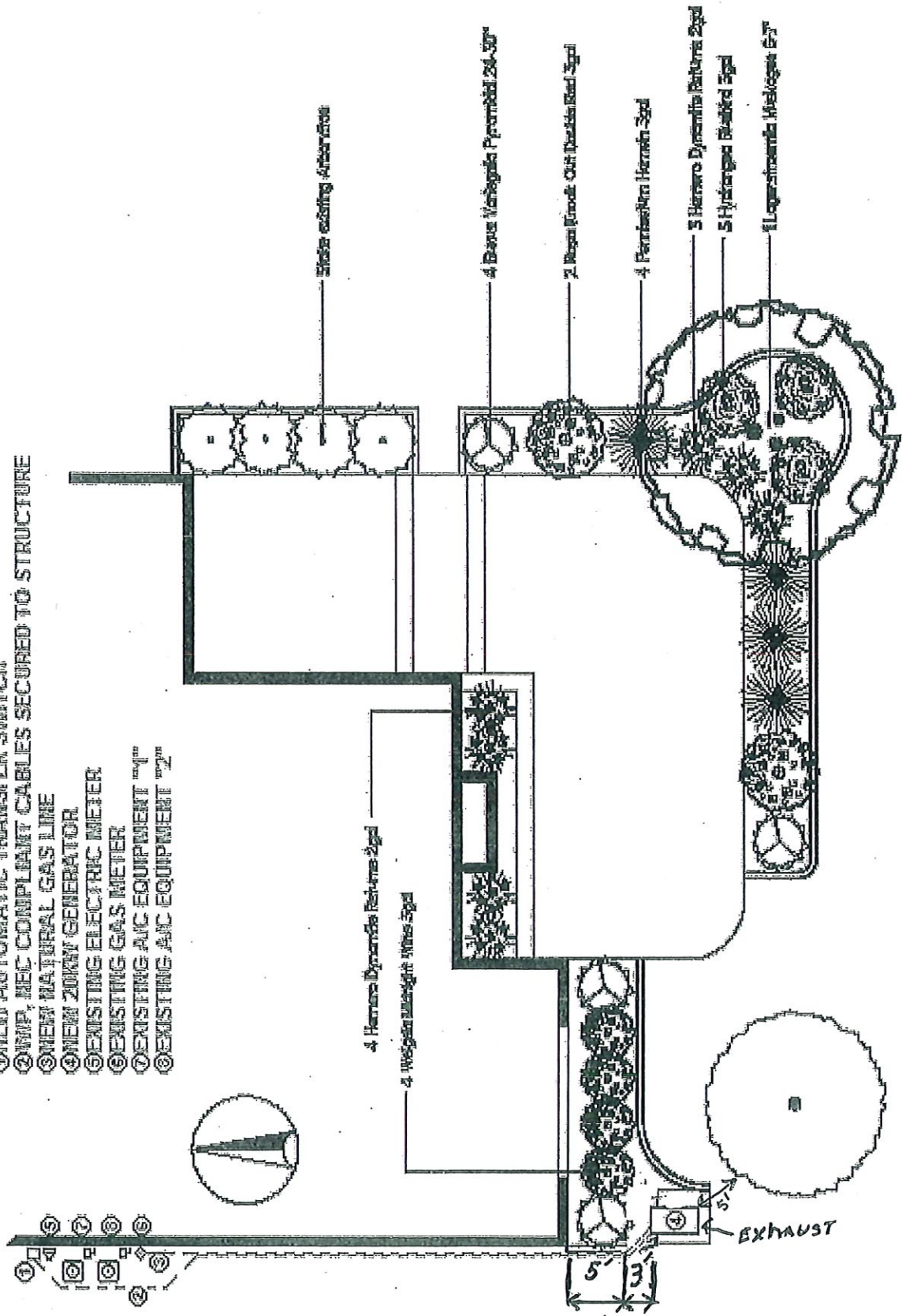
- A gas meter upgrade is required. **Please provide a copy of the PECO “Increase of Natural Gas Load” form with your generator application.** You may contact PECO at 215-956-3270. *The meter upgrade/replacement is required for final inspection.
 - Before the final inspection from our office, an electrical inspection by United Inspection Agency must be completed for all generators. Please call them directly at 215-542-9977 to schedule.
 - The final propane connection to the generator shall be performed by the propane company.
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Electrical Requirements

- An Electrical Permit Application is required for all generators. Show name, address, and contractor’s information on all plans.
- Installation of generator must comply with NEC Article 702.
- Provide local calculation of all loads connected to generator in accordance with Article 220.
- Provide a copy of the wiring diagram showing generator, transfer switch, and service panel complete with grounding.
- Provide a copy of the generator and transfer switch specifications.
- If the generator has an automatic transfer switch with load management, also include this information.
- Portable generators require a permit for the male receptacle, transfer switch, or interlock on existing panel; interlock must be listed and labeled by recognized testing lab (provide cut sheet for interlock).
- Show size of generator in kw, size of transfer switch in amps, and size of subpanel in amps on the Electrical Permit Application.

Revised: 10/3/2023

- ① NEW AUTOMATIC TRANSFER SWITCH
- ② NIP, NEC COMPLIANT CABLES SECURED TO STRUCTURE
- ③ NEW NATURAL GAS LINE
- ④ NEW 20KW GENERATOR
- ⑤ EXISTING ELECTRIC METER
- ⑥ EXISTING GAS METER
- ⑦ EXISTING A/C EQUIPMENT "1"
- ⑧ EXISTING A/C EQUIPMENT "2"



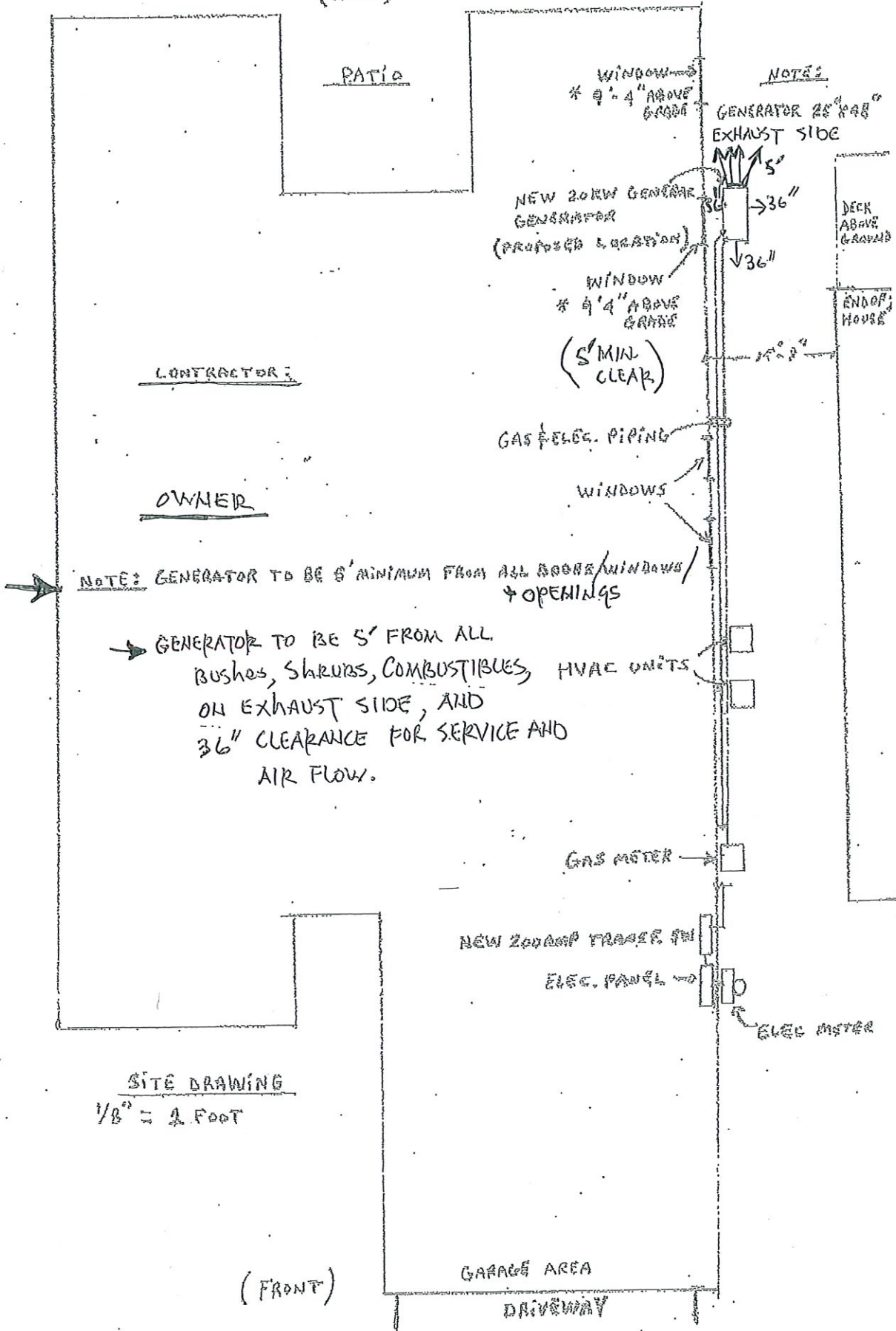
**PROPOSED NATURAL GAS
20KW STANDBY GENERATOR
INSTALLATION**

EXAMPLE

(REAR)

→ OWNER

CONTRACTOR



PATIO

WINDOW
* 4" ABOVE GARAGE

NOTES

GENERATOR 25" HIGHER
EXHAUST SIDE

NEW 20KW GENERATOR
GENERATOR
(PROPOSED LOCATION)

WINDOW
* 4" ABOVE GARAGE

(5' MIN CLEAR)

CONTRACTOR

OWNER

DECK
ABOVE
GARAGE

END OF
HOUSE

GAS & ELEC. PIPING

WINDOWS

NOTE: GENERATOR TO BE 5' MINIMUM FROM ALL DOORS/WINDOWS/
& OPENINGS

→ GENERATOR TO BE 5' FROM ALL
BUSHES, SHRUBS, COMBUSTIBLES, HVAC UNITS
ON EXHAUST SIDE, AND
36" CLEARANCE FOR SERVICE AND
AIR FLOW.

GAS METER

NEW 200AMP TRANSFER SW

ELEC. PANEL

ELEC METER

SITE DRAWING
1/8" = 1 FOOT

GARAGE AREA

(FRONT)

DRIVEWAY

EXAMPLE

OWNER

CONTRACTOR

METER TO BE SIZED (CAPACITY) FOR HOUSE AND GENERATOR

PROVIDE PECO CALC./CHANGE FORM

Existing Gas meter

1/2" FP Ball Valve

3/4" Union

1/2" FP Ball Valve

1 1/2" GALV. PIPE

1 1/2" GIP

Caution Buried Gas Line below foil tape (opt) 12" Above Line

3 1/2" MIN. ABOVE GRADE

12" MIN. Below Grade

60' LENGTH (SHOW LENGTH)

Con-stab Anodeless meter Risers (BOTH ENDS) ASTM D2513-90c Category I Listed (APMolup & CSA) Pipe threads ANSI B1.20.1 Steel Parts ASTM A53 Polyethylene ASTM D2513

1 1/2" SDR 11 Polyethylene ASTM D2513 Cat. I ASME B31.8-1995

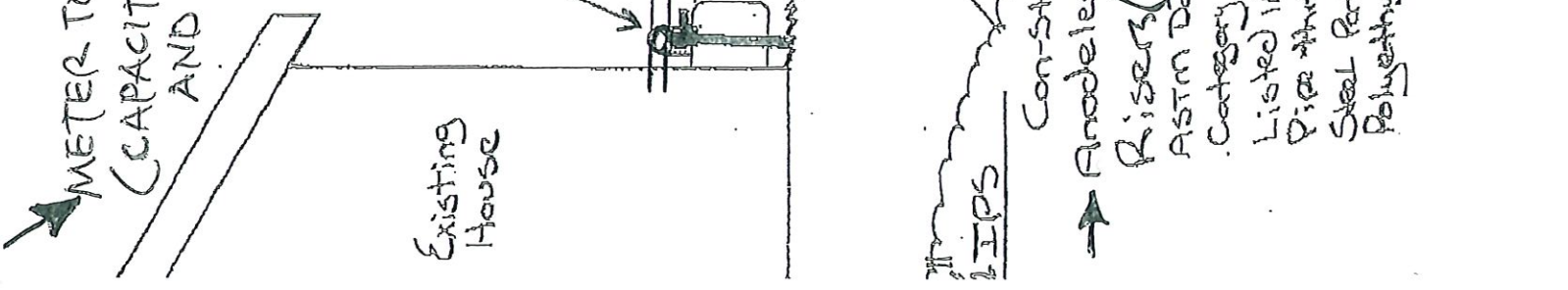
18 AWG - Solid CCS Tracer wire 30 mil HDPE # 30 mil Direct burial only yellow (Copperhead Industries)

20kW generator 307,000 BTU (SHOW SIZE)

Coupling and stub

Drip legs on the heel

AIR TEST TO BE WITNESSED BY TOWNSHIP INSPECTOR.



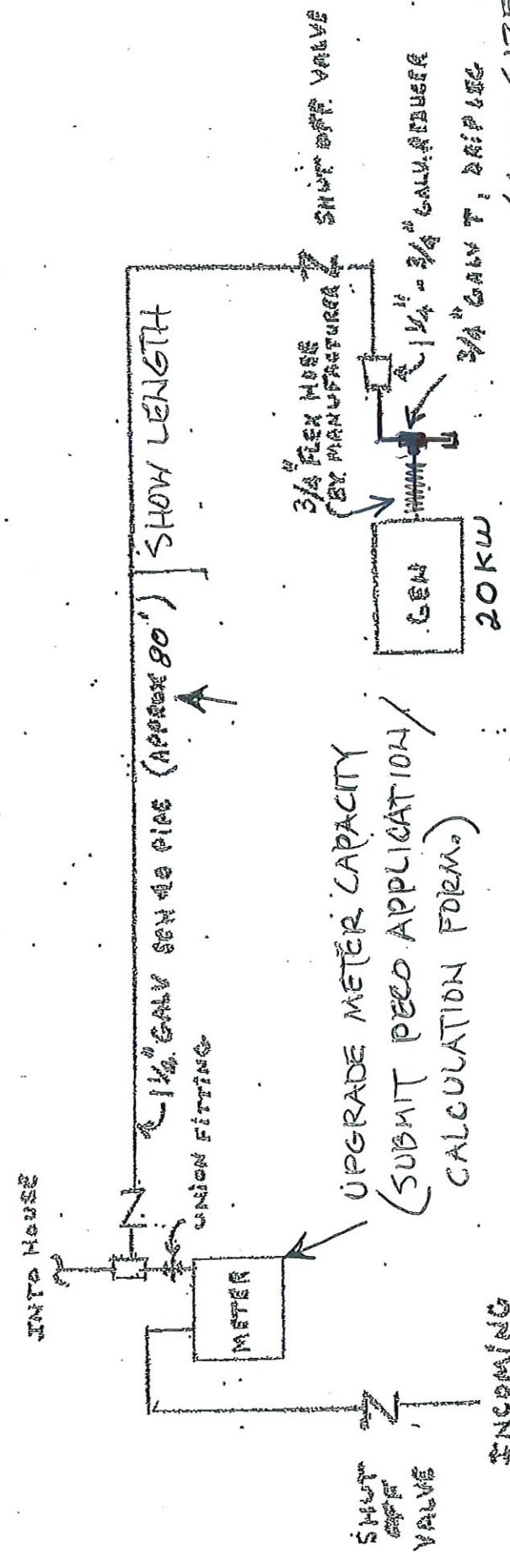
EXAMPLE

OWNER

CONTRACTOR

GAS PIPING DRAWING (NPS)

- * GALVANIZED PIPE SHALL BE SUPPORTED TO BUILDING AT 6" O.C. MAX.
- * PRESSURE TEST ON GAS PIPING TO BE WITNESSED BY TOWNSHIP INSPECTOR & PSI/ASMIN



UPGRADE METER CAPACITY / (SUBMIT PERD APPLICATION / CALCULATION FORM.)

- * MAX BTU RATING 307,800 (SHOW SIZE)
- * ALL PIPING TO BE MINIMUM 6" AFB
- * SHOW BASE / PAD INSTALLATION. IF ON A SLOPE CONTACT INSPECTION DEPT.