



TOWNSHIP OF NORTHAMPTON
55 Township Road
Richboro, PA 18954
Zoning/Building/Code Enforcement Department
Telephone #: 215-355-3883
Fax #: 215-357-3650

GAS GENERATOR REQUIREMENTS

- An Electrical Permit Application is required for all generators. (See attached info sheet.) A Mechanical Permit Application is required for natural gas-fueled generators only. Show name, address, and contractor's information on all plans.
- Gas generators are required to comply with NFPA 37.
- Gas 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.
- 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 complete copy of the installation and/or owner's manual book from the manufacturer. 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.
- Please provide **a clear gas piping diagram** from the gas meter to the generator showing:
 1. the 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 gas piping and test is required, 3-5 p.s.i. for 15 minutes. Show this on the plans. **Please call our office for the inspection.**
- An electrical inspection by United Inspection Agency (215-542-9977) must be completed before the final inspection from our office.
- A gas meter upgrade is required. Please provide a copy of the PECO "Increase of Natural Gas Load" form with the generator application (PECO's telephone # is 215-956-3270). The meter upgrade/replacement is required for final inspection.

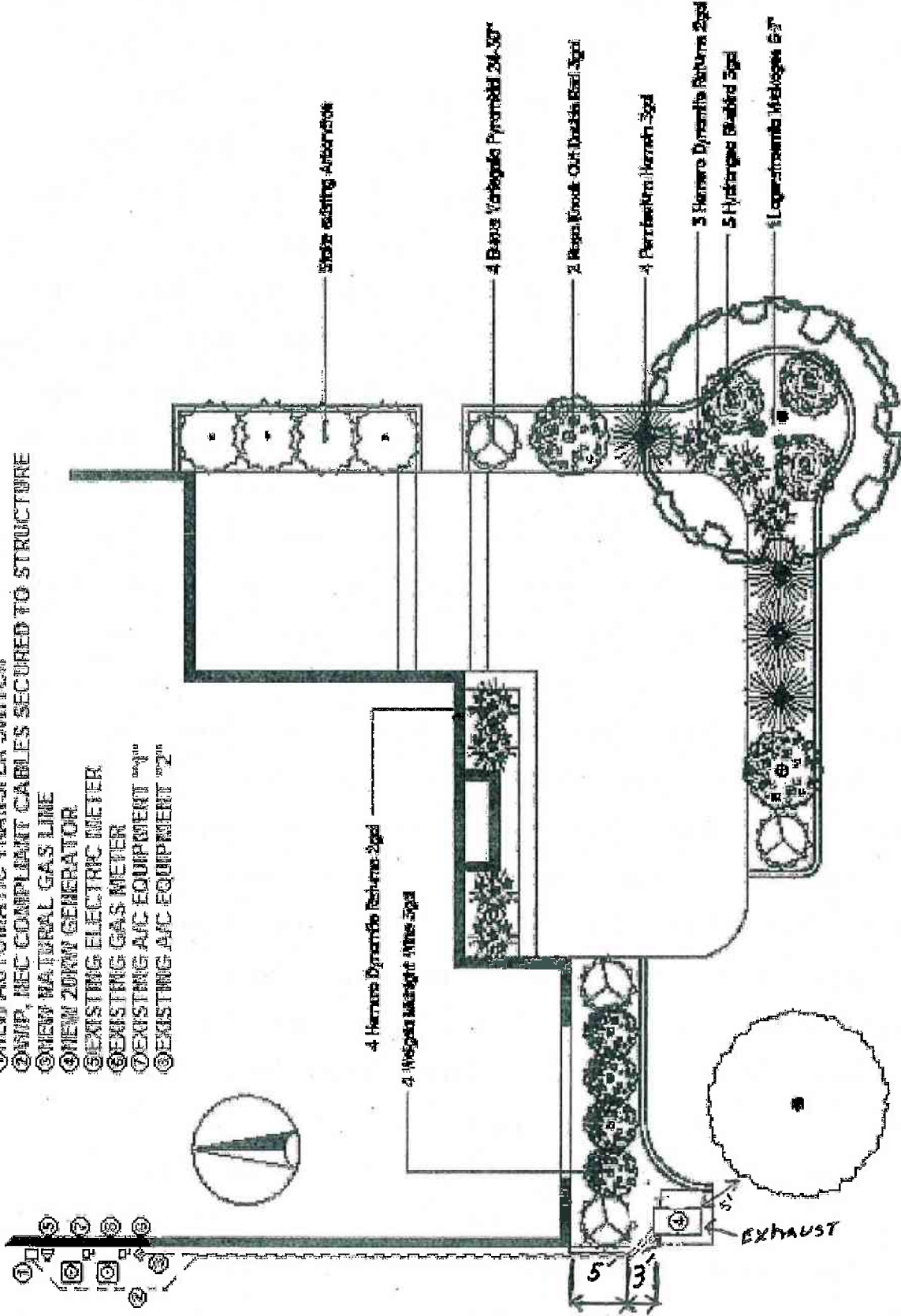


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ELECTRICAL GENERATOR REQUIREMENTS

- 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 generator and transfer switch specifications.
- If generator has an automatic transfer switch with load management, that information must be included.
- 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).
- When filling out the electrical permit application, show size of generator in kw, size of transfer switch in amps, and size of subpanel in amps.

- ① NEW AUTOMATIC TRANSFER SWITCH
- ② NEW, NEC COMPLIANT CABLES SECURED TO STRUCTURE
- ③ NEW NATURAL GAS LINE
- ④ NEW 200W GENERATOR
- ⑤ EXISTING ELECTRIC METER
- ⑥ EXISTING GAS METER
- ⑦ EXISTING AFC EQUIPMENT 1/4"
- ⑧ EXISTING AFC EQUIPMENT 1/2"



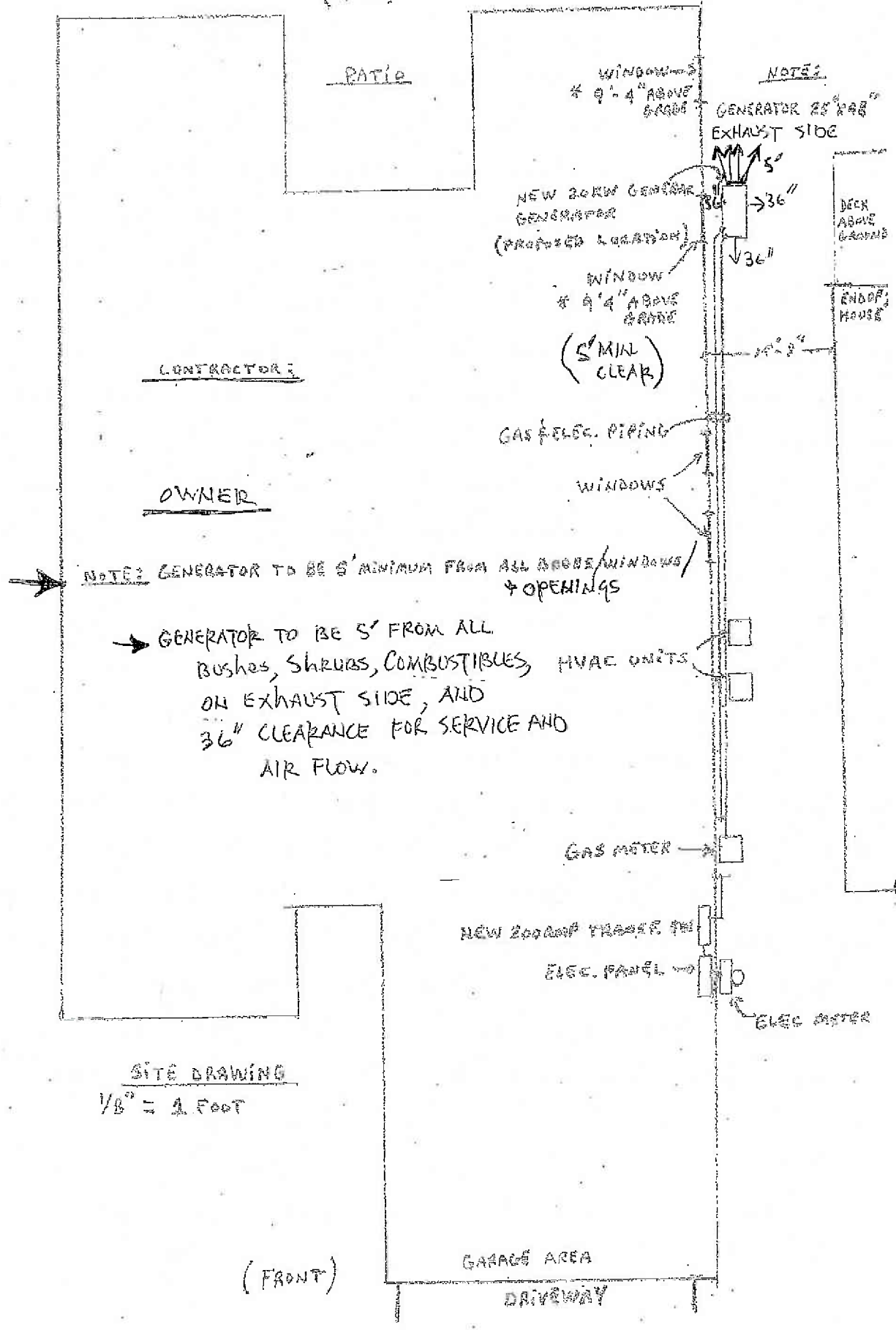
**PROPOSED NATURAL GAS
20KW STANDBY GENERATOR
INSTALLATION**

EXAMPLE

(REAR)

OWNER →

CONTRACTOR ←



CONTRACTOR

OWNER

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

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

SITE DRAWING
1/8" = 1 FOOT

(FRONT)

GARAGE AREA
DRIVEWAY

NOTES:
GENERATOR 20" FROM EXHAUST SIDE

DECK ABOVE GARAGE

END OF HOUSE

NEW 20KW GENERATOR
(PROPOSED LOCATION)

WINDOW # 9'-4" ABOVE GARAGE

(5' MIN CLEAR)

GAS & ELEC. PIPING

WINDOWS

HVAC UNITS

GAS METER

NEW 200AMP TRANSFER SW

ELEC. PANEL

ELEC. METER

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

1/2" GALV. PIPE

1/2" GIP

Caution
Buried gas
Line below Soil
Tape (opt)
12" Above Line

3 1/2" MIN.
ABOVE
GRADE

grade

12" MIN.
Below
Grade

60' LENGTH (SHOW LENGTH)

Con-stab meter
Anodeless meter
Risers (BOTH ENDS)
ASTM D3113-90C
Category I

Listed 1APmolupe & CSA
Pipe threads ANSI B1.20.1
Steel Part C ASTM A53
Polyethylene ASTM D2513

SDR 11
IPS

Polyethylene

ASTM D2513 Cat. I
ASME B31.8-1995

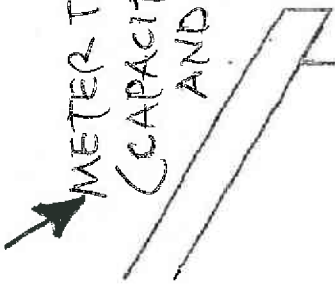
18AWG-Solid CCS Tracer wire
30 mil HDPE # 30 bolt
Direct burial only
Gullow (Copperhead Industries)

20kW generator
307,000 BTU
(SHOW SIZE)

Coupling
and
stub

Dripping
on the
head

AIR TEST TO BE
WITNESSED BY
TOWNSHIP
INSPECTOR.



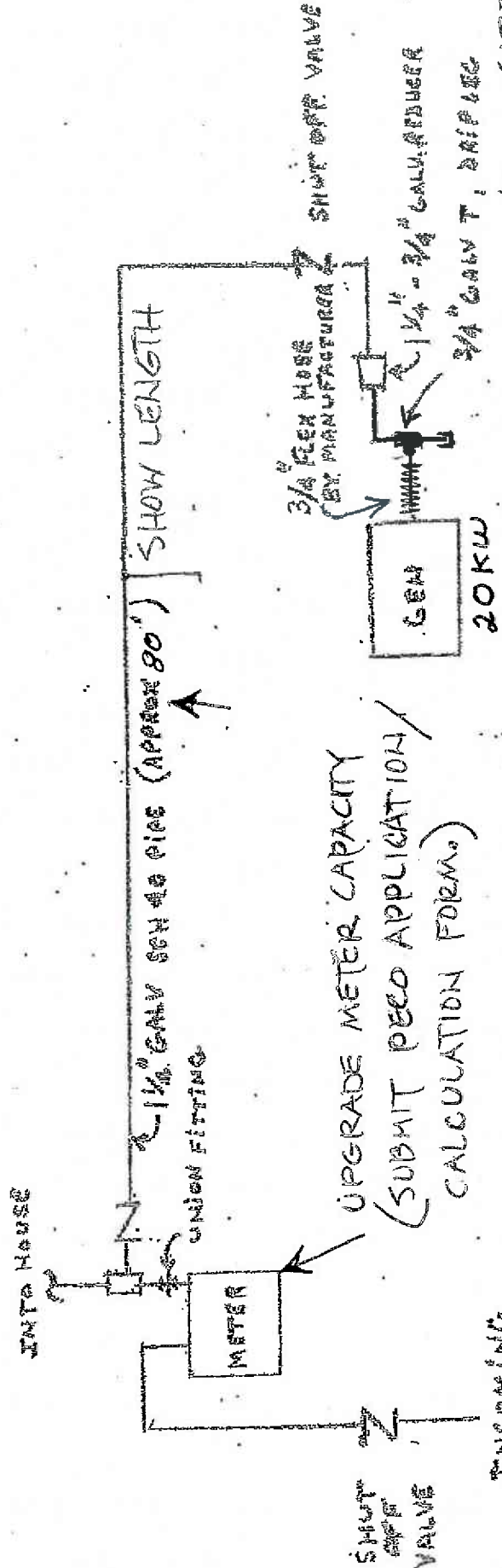
EXAMPLE

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 @ PSE/IS MIN.



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

- * MAX BTU RATING 307,000 (SHOW SIZE)
- * ALL PIPING TO BE MINIMUM 1/2" AFD
- * SHOW BASE / PAD INSTALLATION.
IF ON A SLOPE CONTACT INSPECTION DEPT.