



# Innovative Engineering Group, LLC

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Project:

## SEMINOLE NATION OF OKLAHOMA

## GENERATOR ADDITION

Revisions:

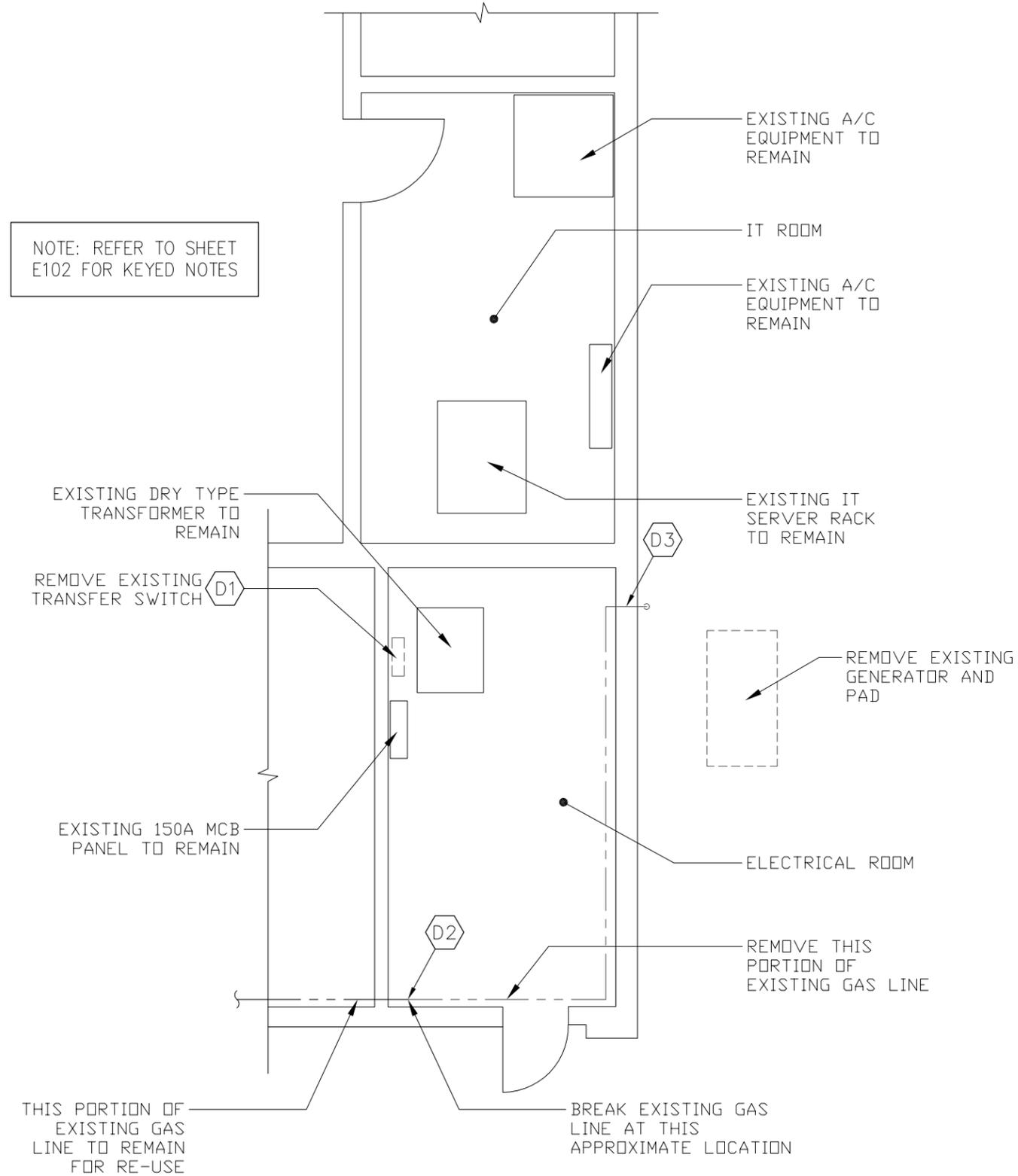
CONSTRUCTION 9/30/14

Sheet Name:

COMMUNITY SERVICE DEMOLITION PLAN

Sheet Number:

# E100



### COMMUNITY SERVICE DEMOLITION PLAN

1/4" = 1'-0"





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## GENERATOR ADDITION

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CONSTRUCTION 9/30/14

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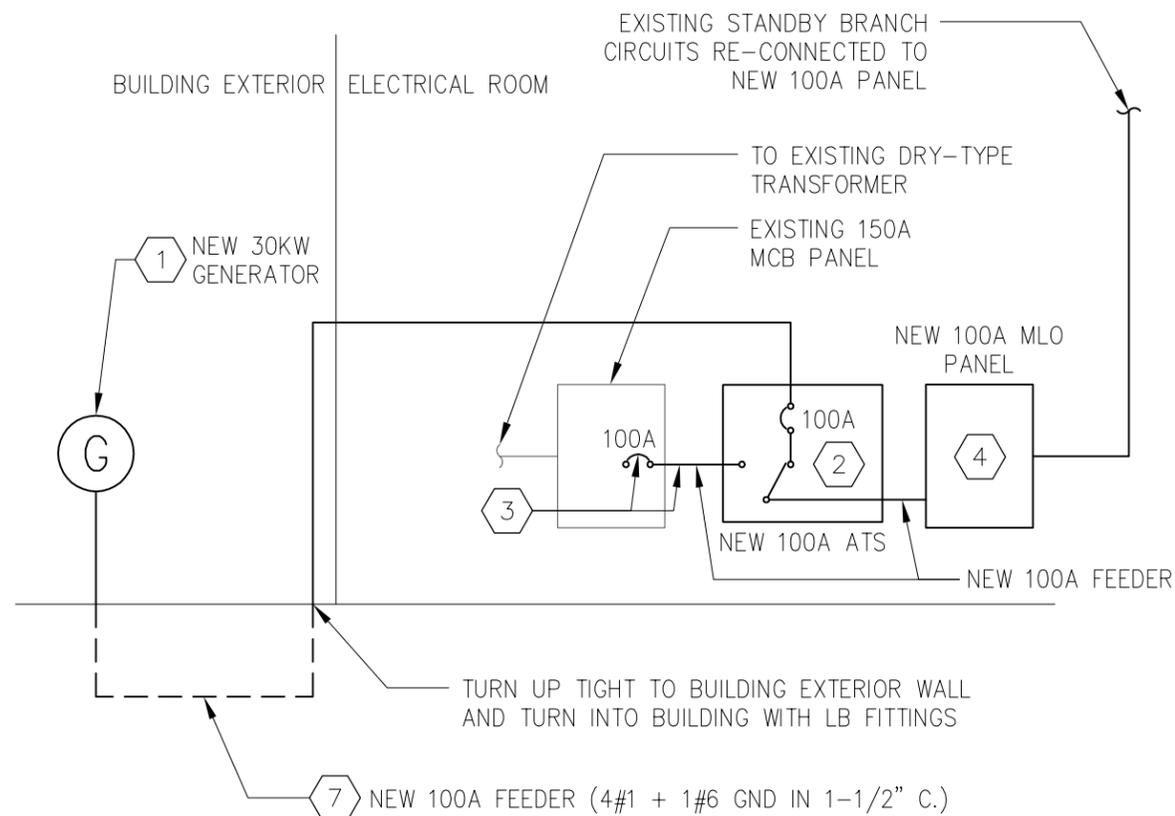
COMMUNITY SERVICE ELECTRICAL PLAN

Sheet Number:

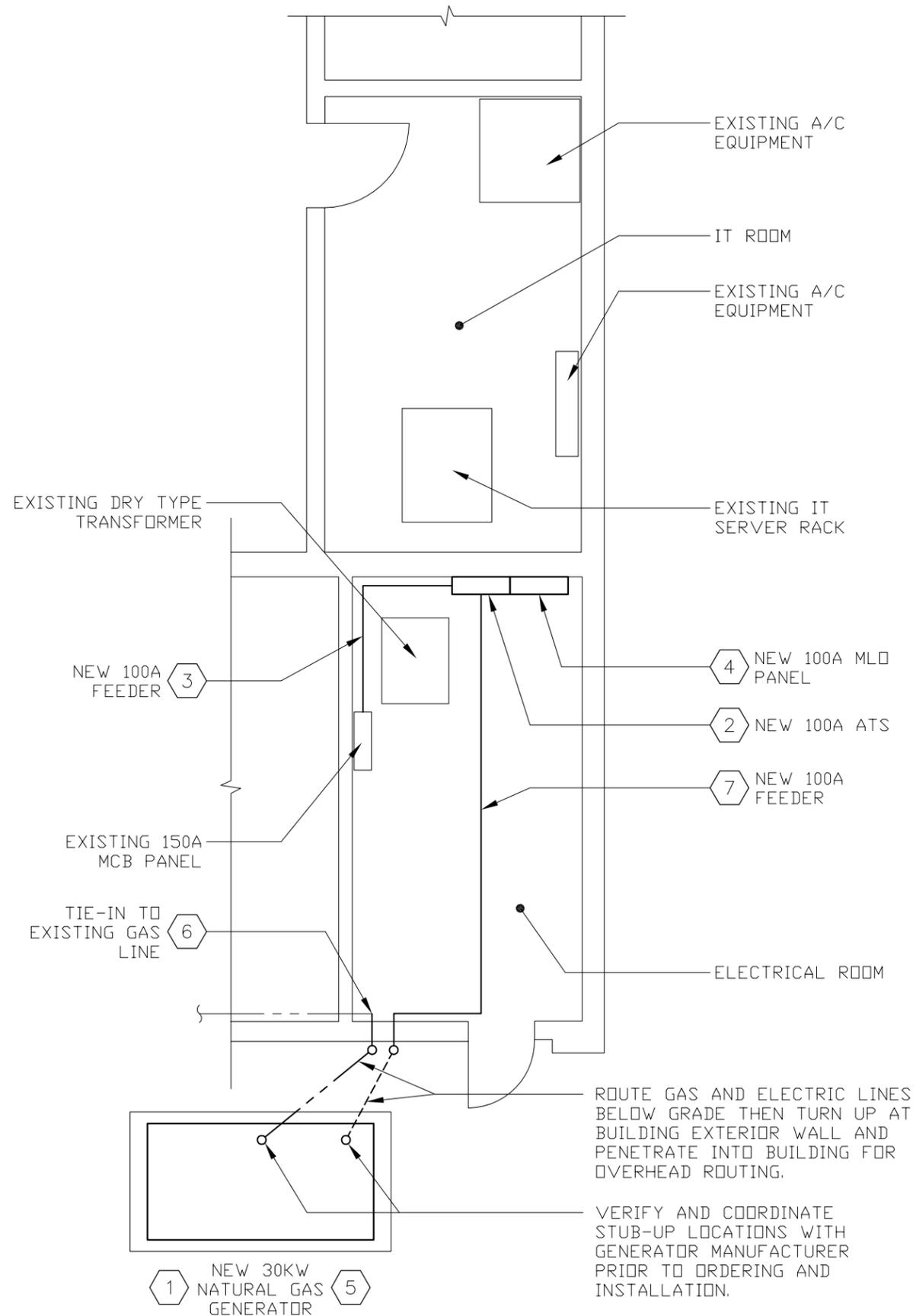
# E101

NOTE: PROVIDE AS-BUILTS AS DESCRIBED IN KEYNOTE 8, SHEET E102

NOTE: REFER TO SHEET E102 FOR KEYED NOTES



COMMUNITY SERVICE PARTIAL ONE-LINE DIAGRAM  
NOT TO SCALE



COMMUNITY SERVICE ELECTRICAL PLAN  
1/4" = 1'-0"





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PROJECT: Seminole Community Center I.T. Room Generator

## Demolition Notes:

- D1 Remove existing Generac Transfer switch and all associated conduit and wire. Cap any penetrations in existing panels that will not be reused for the new equipment installation.
- D2 Locate Existing Gas line. Remove Gas line back to a point to penetrate the wall adjacent to the generator location. (SEE Installation Note 5).
- D3 Seal existing pipe penetration through the wall with Mortar or appropriate sealant.

## Install Notes:

- 1 SCOPE:  
Contractor shall furnish and install (1) NEW generator for Automatic back-up power for the I.T. room equipment. This generator is sized to accommodate existing loads as well as future expansion.
  - 30kW Natural Gas Generator.
  - The generator shall run at 1800RPM.
  - Enclosure shall be rated at a minimum of **67 dBA @ 23 ft.**
  - 120/208V 3 ph. 4W
  - 100A 3P 100% Rated Output Breaker.
  - NFPA 110 compliant.
  - 10 amp Battery Charger,
  - -20 degree block heater
  - Remote annunciator (Location per owner)
  - 5 year comprehensive warranty.
  - Generator Manufacturers: Taylor Power Systems, MTU Onsite Energy, Kohler or Equal.
  - Generator supplier must Furnish complete system with Start up by factory trained technician and full training of owner. Test full load transfer.
  - Contractor shall be responsible to install a complete working system to owner's satisfaction.
  - Contractor shall provide "As built" Mark ups showing all new work after final project completion. ALL panels shall be RE-labelled properly on ALL panel circuit cards
- 2 Provide and Install NEW 100A 3 pole, 120/208V ATS, NEMA 1, ASCO 300 series. Field verify NEC-required working space will be provided prior to rough-in.
- 3 Provide new 100A 3 Pole breaker in existing 150A panel to feed the NEW ATS using 4#1 + 1#6 GND in 1-1/2" conduit.
- 4 Provide and install a NEW 100A / 24 circuit M.L.O. panel adjacent to the new Transfer Switch. Wire to ATS using 4#1 + 1#6 GND in 1-1/2" conduit. Locate existing breakers for the I.T. Equipment. Intercept and re-route the existing circuits to the new 100A Panel matching breaker and wire sizes. Provide breakers in the new panel to accommodate existing I.T. circuits and provide matching spare breakers for future expansion. Field verify NEC-required working space will be provided prior to rough-in.

- 5 Locate the new 30kW generator as shown on plan. With 4" pad, 48"x 90". Verify stub-up areas with supplier. Locate generator so as to minimize the length of electrical feeders and gas lines, while still maintaining clearance to allow all doors to open fully and to maintain NEC-required working space. Obtain approval of final location from owner or owner's representative prior to rough-in.
- 6 Locate existing Gas line. Penetrate wall adjacent to generator gas location to feed the new 30kW Generator. Verify size and test existing pressure to accommodate 11-14" W.C. and ability to supply minimum 430 cfm / 500,000 btu/hour.
- 7 Provide and install 100A feeder from the generator to the new 100A ATS generator connection pole.
- 8 Contractor shall provide "As built" Mark ups showing all new work after final project completion.

Project:

## SEMINOLE NATION OF OKLAHOMA

## GENERATOR ADDITION

Revisions:

CONSTRUCTION 9/30/14

Sheet Name:

COMMUNITY SERVICE  
GENERATOR SCOPE NOTES

Sheet Number:

# E102