

ADDENDUM NO. 2

DATE: January 27, 2020
FROM: Village of Villa Park Public Works Department
TO: All Plan holders
PROJECT: **S Cornell Pumping Station Emergency Generator Replacement**

The Bidding Documents for the subject project are hereby amended as follows. The attached Acknowledgement Form must be filled out and returned with your Bid.

CHANGE THE FOLLOWING ITEM(S) IN THE SPECIFICATIONS:

IN "SPECIAL PROVISIONS":

REPLACE:

Replace Pages 16 and 17 of the Special Provisions with the attachment included in this addendum. Revisions were made to Pay Item Nos. 5, 6, and 7.

IN "PLANS":

Replace Sheet 6 of the plans with the attachment included in this addendum. A detail was added for gas piping.

END OF ADDENDUM NO. 2

ADDENDUM NO. 2 ACKNOWLEDGMENT FORM

I/We hereby acknowledge receipt of the following documents pertaining to **ADDENDUM No. 2** to the Bidding Documents for the Village of Villa Park's **S Cornell Pumping Station Emergency Generator Replacement** project.

Addendum No. 2	2 pages
Attachments	
1. Special Provision sheets	2 pages
2. Plan sheets	1 page
TOTAL	5 pages

Name: _____

Title: _____

Company: _____

Signature: _____

Date: _____

**S CORNELL PUMPING STATION EMERGENCY GENERATOR REPLACEMENT
VILLA OF VILLA PARK**

Basis of Payment. This work will be paid for on an each basis at the contract unit price as EXHAUST CAP SLEEVE.

PAY ITEM # 4 – PREPARATION OF BASE

Description. This work shall consist of constructing an aggregate base for the PCC generator pad as shown on the plans. Areas over-excavated during removal of the underground storage tank shall have all loose soil removed and backfilled with CA-6 aggregate and mechanically compacted in 8" lifts. The finished aggregate base shall be a minimum of 8" thick and extend a minimum of 6" beyond the edges of the PCC generator pad. Soil excavated during construction of this pay item shall be disposed of and paid for as part of the EXTERIOR DEMOLITION pay item.

Basis of Payment. This work will be paid for on a lump sum basis at the contract unit price as PREPARATION OF BASE.

PAY ITEM # 5 – PCC GENERATOR PAD

Description. This work shall consist of constructing a Portland cement concrete pad for the emergency generator at the location shown and as further described in the plans, and shall include steel reinforcement, anchor bars, and grounding electrode as specified. This pay item shall also include gas service piping and devices as described in the plans and providing supports for the natural gas meter and gas service line per gas company requirements. The contractor shall confirm anchor bolt and gas service locations prior to constructing the pad. The pad shall have a broom finish and a 1" chamfer along the perimeter.

Basis of Payment. This work will be paid for on a lump sum basis at the contract unit price as PCC GENERATOR PAD.

PAY ITEM #6 – EMERGENCY GENERATOR

Description. This work shall consist of furnishing and installing a 200KW natural gas fueled electric generator as indicated on the plans. The generator shall be a Kohler Model 200REZXB outdoor natural gas unit or approved equal. The generator shall provide 277/480 volts, 3-phase, and 60 Hz power @ 1800 RPM. The generator shall include a weather and sound enclosure, and an internal critical silencer and controller, a block heater, battery charger, and two (2) 12V batteries (installed at time of startup) and at least two (2) hard copies and one (1) digital copy of the Operation and Maintenance manual for the generator.

This pay item shall also include one or more startup meetings attended by the contractor, electrical subcontractor, and representatives of the major equipment suppliers during

S CORNELL PUMPING STATION EMERGENCY GENERATOR REPLACEMENT VILLA OF VILLA PARK

which the proper operation of the new emergency power system and the functionality of the S Cornell Pumping Station while powered by that new system and shall be tested to the satisfaction of the Engineer.

Basis of Payment. This work will be paid for on a lump sum basis at the contract unit price as EMERGENCY GENERATOR.

PAY ITEM #7 – AUTOMATIC TRANSFER SWITCH

Description. This work shall consist of furnishing and installing an automatic transfer switch (ATS) as indicated on the plans. The ATS shall be a Kohler Model KSS Automatic Transfer Switch, Model Designation KSS-AMTA-0400S or approved equal. The ATS shall be housed in a NEMA 1 enclosure and securely fastened to the interior wall of the pumping station. Power from the emergency generator shall enter through the bottom of the enclosure. Power leading to the existing Motor Control Center (MCC) shall exit through the top of the enclosure. The ATS shall be grounded similar to the MCC.

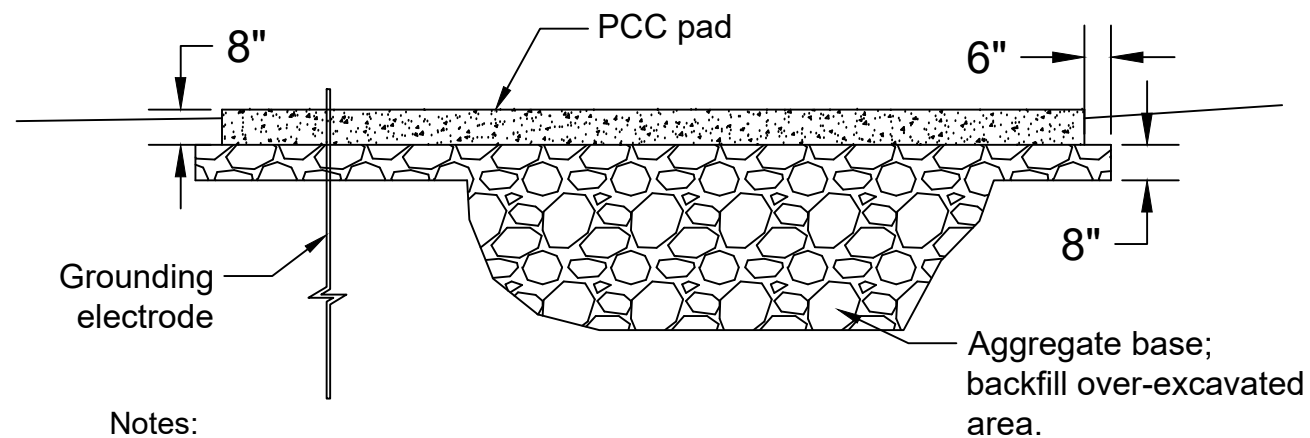
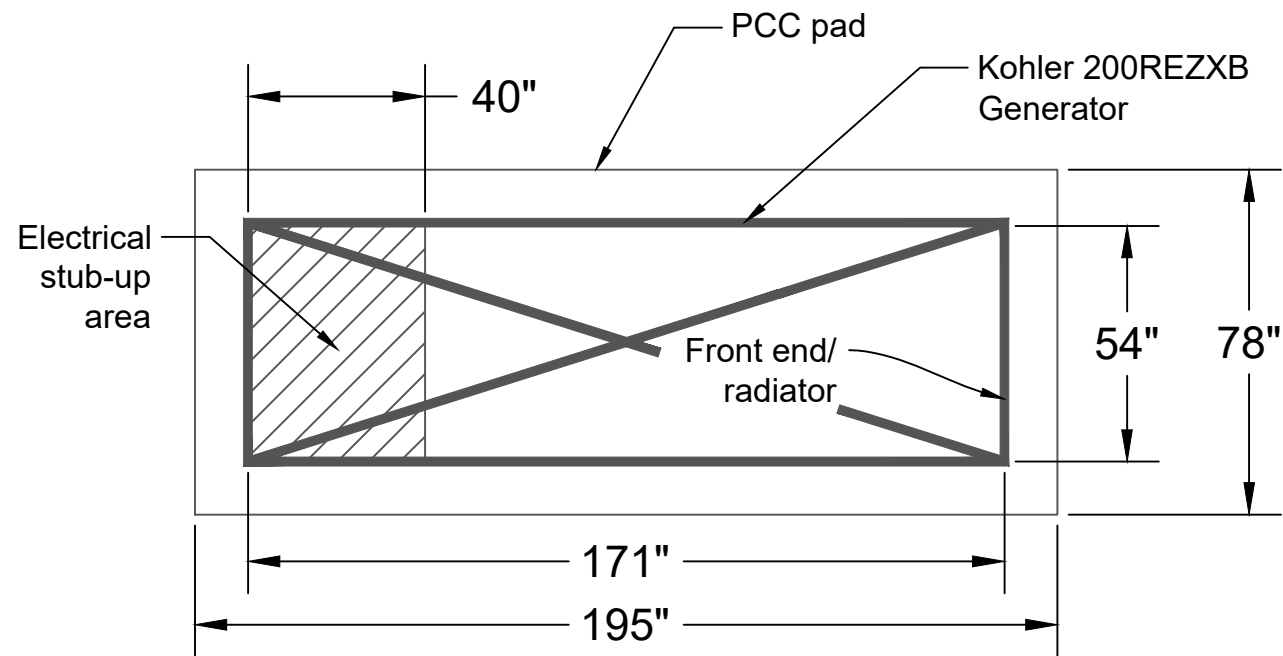
This work shall also include providing and installing the proper length, number, and size cables and connections from the ATS to the emergency generator and to the MCC to create a National Electric Code compliant and fully functional pumping station. This work shall also include any necessary re-wiring of the existing MCC so that the ATS will sense a loss of the normal power supply, start the emergency generator, switch the power source to the emergency generator, sense restoration of the normal power supply, switch the power source back to the normal power supply, and shut down the emergency generator after an appropriate cool-down period.

This pay item shall also include at least two (2) hard copies and one (1) digital copy of the Operation and Maintenance manual for the ATS.

Basis of Payment. This work will be paid for on a lump sum basis at the contract unit price as AUTOMATIC TRANSFER SWITCH.

PAY ITEM #8 – UNDERGROUND CONDUIT

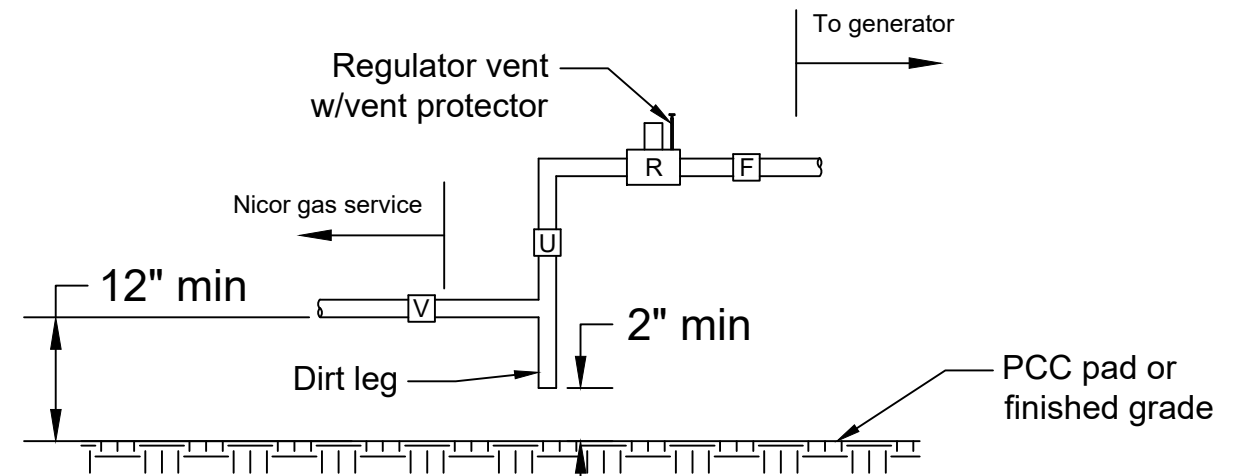
Description. This work shall consist of constructing conduit from the emergency generator to the pump station building. The conduit shall be Rigid Metal Conduit and shall be constructed in accordance with Section 810 of the Standard Specifications except as modified herein. Trench spoil shall be used to backfill the conduit trench except within two feet (2') of the PCC Generator Pad, which shall be backfilled with CA-6 gradation stone. All material used to backfill the trench shall be compacted to the satisfaction of the Engineer.



Notes:

1. Pad concrete to be 3000 PSI @ 28 days.
2. Hot Galvanized, 12" bent anchor bolts to be 3/4"-10. Confirm number and location of anchor bolts with generator manufacturer.
3. Grounding electrode to be 3/4" dia. x 10' long copper clad steel rod. Connect to generator base frame with #6 stranded copper wire.
4. PCC pad to be minimum 8" thick and reinforced with #5 rebar 3" from pad perimeter and at approximately 12" intervals both lengthwise and crosswise.
5. Top of pad to be level and a minimum of 2" above finished grade.

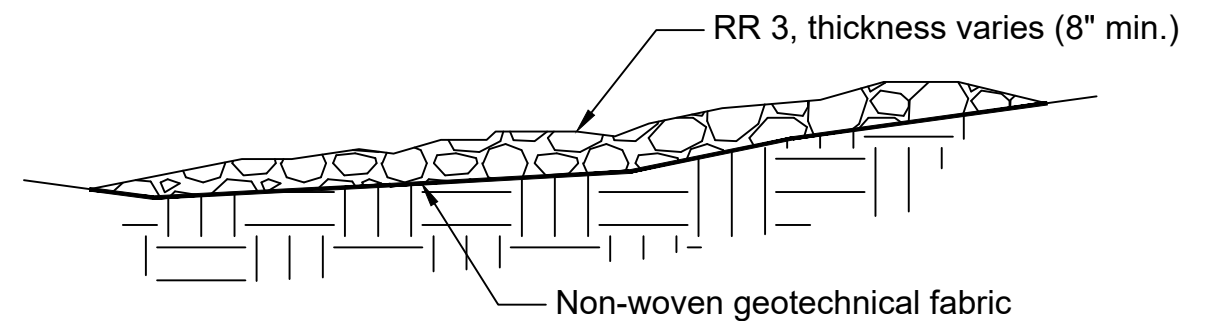
PCC GENERATOR PAD and AGGREGATE BASE



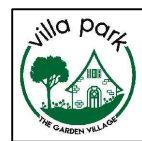
Notes:

1. All piping is gas-rated steel pipe and 2" diameter unless noted otherwise.
2. V is the Customer Fuel Line Cut Off Valve supplied and installed by gas company.
3. U is gas-rated union joint.
4. R is Maxitrol Model 210E pressure regulator or approved equal with Violet spring rated for 4"-12" water column pressure.
5. Vent on pressure regulator is 1/2" NPT with 13A25 vent protector.
6. F is fuel filter provided by generator manufacturer.
7. Piping supports to be provided per gas company requirements.

GAS PIPING DETAIL



STABILIZATION AREA



VILLAGE OF VILLA PARK
20 S. Ardmore Ave.
Villa Park, IL 60181

No.	Date	Nature of Revision	Scale:	
1	1/27/20	Add gas piping detail	Designed by:	
			Checked by:	
			Approved by:	

Title: S CORNELL PUMPING STATION
1260 S CORNELL AVE, VILLA PARK, IL
EMERGENCY GENERATOR REPLACEMENT
DETAILS

Project No.
Date: 4/24/19
Sheet 6 of 6