

**VILLAGE OF DOWNERS GROVE**  
**REPORT FOR THE VILLAGE COUNCIL MEETING**  
**OCTOBER 9, 2012**

SUBJECT:	TYPE:	SUBMITTED BY:
Installation of 350KW Generator at the Police Station	Resolution Ordinance ✓ Motion Discussion Only	Michael Baker Deputy Village Manager

**SYNOPSIS**

A motion is requested to authorize award of a contract to F. H. Paschen, S.N. Nielsen & Associates LLC in the amount of \$281,410.48 for the construction of an enclosure and installation of a 350KW diesel generator at the existing Police Station and for potential future use.

**STRATEGIC PLAN ALIGNMENT**

The goals for 2011-2018 identified *Top Quality Village Infrastructure & Facilities*.

**FISCAL IMPACT**

The FY2012 budget includes \$325,000 in the Capital Projects Fund for this project.

**UPDATE & RECOMMENDATION**

This item was discussed at the October 2, 2012 Village Council meeting. The Village Council asked staff to provide additional information on existing generators. The Police Department building currently has one diesel generator and one natural gas generator. Staff recommends approval on the October 9, 2012 Consent Agenda.

**BACKGROUND**

The Downers Grove Police Station back-up emergency power currently consists of two small generators: 1) a 35 year-old 45KW generator that powers the multi-purpose room and a small number of light fixtures, including exit and stairway lighting, and 2) a 13 year-old 100KW generator that powers the dispatch center, police records division, booking area, phone room and a limited number of electrical outlets. The current provisions for emergency power only allow for the operation of the HVAC system in limited portions of the station and most of the facility is left without lights or access to computers or other electronic devices during a power outage.

Following the storms of 2011, when large portions of the Village were left without power for several days, including the Police Station, and Village staff was taking extraordinary measures to provide emergency services to the community as a result of the storm damage, it became apparent that a solution that provided a more reliable and continuous back-up power source to the Police Station was needed. As such, the project to install a generator was incorporated into the FY2013 Budget and Community Investment Plan.

The proposed new generator will provide complete emergency power coverage for the Police Station and allow for uninterrupted operations during power outages. The existing 100KW generator will remain as an additional back-up unit for the Dispatch Center. In the event that the Village decides to remodel or relocate from the existing Police Station in the future, the new generator will have a useful life that allows it to be used for another purpose.

After carefully reviewing available options, the Village obtained pricing from and is recommending that the work be completed by F.H.Paschen, S.N. Nielsen & Associates LLC. The work was awarded to through a Job Order Contract, which is a competitive bidding process conducted by the State of Illinois pursuant to 30ILCS 525 (Procurement #11-082). The process allows municipalities to participate in using any of the pre-qualified contractors. Although not a requirement, staff did informally seek pricing from another contractor and found the costs as established through the State-based process to be favorable. Staff has conducted reference checks for work performed by this company and is confident that they can satisfactorily perform the work involved. The Village has used this contractor to perform work at the Finley Avenue Well House and has been extremely satisfied with the quality of their work.

**ATTACHMENTS**  
Contract Form

# Job Order Contract

## Proposal Review Summary - CSI



Date: September 27, 2012  
Contract Number: 11-082  
Job Order Number: 012276.00  
Job Order Title: Village of Downers Grove - 325 kilowatt generator  
Contractor: F. H. Paschen, S. N. Nielsen & Associates LLC  
Proposal Value: \$281,410.48  
Proposal Name: Downers Grove 350 KW Generator  
Proposal Submitted: 09/27/2012

<b>01 - General Requirements:</b>	<b>\$20,698.40</b>
<b>02 - Site Work:</b>	<b>\$1,997.94</b>
<b>03 - Concrete:</b>	<b>\$28,811.10</b>
<b>04 - Masonry:</b>	<b>\$8,878.00</b>
<b>05 - Metals:</b>	<b>\$3,484.59</b>
<b>07 - Thermal &amp; Moisture Protection:</b>	<b>\$2,072.26</b>
<b>09 - Finishes:</b>	<b>\$5,442.91</b>
<b>23 - Heating, Ventilating, And Air-Conditioning (HVAC):</b>	<b>\$13,637.33</b>
<b>26 - Electrical:</b>	<b>\$188,354.94</b>
<b>27 - Communications:</b>	<b>\$319.81</b>
<b>28 - Electronic Safety And Security:</b>	<b>\$736.20</b>
<b>31 - Earthwork:</b>	<b>\$5,707.14</b>
<b>32 - Exterior Improvements:</b>	<b>\$964.40</b>
<b>41 - Material Processing And Handling Equipment:</b>	<b>\$305.46</b>
<b>Proposal Total</b>	<b>\$281,410.48</b>

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%

**Job Order Contract**  
**Proposal Review Detail - CSI**



**Date:** September 27, 2012  
**Contract Number:** 11-082  
**Job Order Number:** 012276.00  
**Job Order Title:** Village of Downers Grove - 325 kilowatt generator  
**Contractor:** F. H. Paschen, S. N. Nielsen & Associates LLC  
**Proposal Value:** \$281,410.48  
**Proposal Name:** Downers Grove 350 KW Generator  
**Proposal Submitted:** 09/27/2012  
**Adjustment Factor(s) Used:** 1.0100-Phase 1 Normal Working Hours

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**01 - General Requirements**

1	01 22 16 00 0002		EA	Reimbursable Fees Note: Reimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$2,525.00
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	Quantity		Unit Price		Factor	=	Total
Installation	2,500.00	x	1.00	x	1.0100	=	\$2,525.00

**Contractors Note:** Electrical engineering and permit drawings as requested by the Village of Downers Grove.

**Category1: Electric**

2	01 22 16 00 0002		EA	Reimbursable Fees Note: Reimbursable Fees will be paid to the contractor for the actual cost of all permits, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The labor cost involved in obtaining all permits is in the Adjustment Factor. The base cost of the Reimbursable Fee is \$1.00. The quantity used will adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, each one shall be listed separately with a comment in the "note" block to identify the Reimbursable Fees (e.g. sidewalk closure, road cut, various permits, extended warrantee, expedited shipping costs, etc.). A copy of each receipt shall be included with the Proposal.	\$3,893.55
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	Quantity		Unit Price		Factor	=	Total
Installation	3,855.00	x	1.00	x	1.0100	=	\$3,893.55

**Contractors Note:** 5 year extended warranty

**Category1: Electric**

3	01 22 20 00 0045		HR	Investigating Senior Engineer Or Specialty Consultant Note: For special investigating requirements or services outside required architectural and engineering services	\$505.00
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	Quantity		Unit Price		Factor	=	Total
Installation	4.00	x	125.00	x	1.0100	=	\$505.00

**Contractors Note:** Hazardous material testing technician on site to test existing generator pipe insulation for asbestos. THIS PROPOSAL DOES NOT INCLUDE ANY ASBESTOS OR HAZARDOUS MATERIAL REMOVAL.

**Category1: Asbestos**

4	01 22 20 00 0050		HR	Flagperson For Traffic Control	\$268.98
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	Quantity		Unit Price		Factor	=	Total
Installation	4.00	x	66.58	x	1.0100	=	\$268.98

**Contractors Note:** Flagger for traffic control during generator delivery.

**Category1: Electric**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**01 - General Requirements**

5	01 22 23 00 0147		DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$1,656.40		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 820.00	x 1.0100	= \$1,656.40

**Contractors Note:** Equipment on site for staging and moving brick, mortar, and other materials required to complete work.

**Category1: Masonry**

6	01 22 23 00 0148		WK	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	\$3,676.96		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 3,640.55	x 1.0100	= \$3,676.96

**Contractors Note:** Bobcat on site during excavation and concrete phase for material handling of forming material, stone, and spoils from stockpiles to tucks or pad location.

**Category1: Excavation/Concrete**

7	01 22 23 00 0159		DAY	Forklift Attachment For Skid-Steer Loaders	\$91.75		
				Quantity	Unit Price	Factor	Total
			Installation	2.00	x 45.42	x 1.0100	= \$91.75

**Contractors Note:** Fork attachment for bobcat.

**Category1: Masonry**

8	01 22 23 00 0166		WK	Broom Attachment For Skid-Steer Loaders	\$272.02		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 269.33	x 1.0100	= \$272.02

**Contractors Note:** Sweeper attachment for bobcat to clean parking lot daily.

**Category1: Excavation/Concrete**

9	01 22 23 00 0460		DAY	8 To 9 Ton Lift Hydraulic Crane With Full-Time Operator	\$1,103.48		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 1,092.55	x 1.0100	= \$1,103.48

**Contractors Note:** Truck crane to set generator in place.

**Category1: Electric**

10	01 22 23 00 0564		DAY	2 Ton, 20' Lift, 2-Speed, 230/460V 60 Cycle, Electric Chain Hoist	\$65.09		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 64.45	x 1.0100	= \$65.09

**Contractors Note:** Chain hoist needed to remove existing generator.

**Category1: Electric**

11	01 22 23 00 0734		DAY	3 Ton, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	\$934.06		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	x 924.81	x 1.0100	= \$934.06

**Contractors Note:** Flat bed truck to deliver generator from electricians yard to jobsite.

**Category1: Electric**

12	01 55 26 00 0030		WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	\$138.65		
				Quantity	Unit Price	Factor	Total
			Installation	24.00	x 5.72	x 1.0100	= \$138.65

**Contractors Note:** Barricade to close off section of parking lot and excavation site during construction.

**Category1: Excavation/Concrete**

13	01 55 26 00 0108		EA	Place And Remove Up To 250 Barricades By Hand From Roadside	\$410.87		
				Quantity	Unit Price	Factor	Total
			Installation	120.00	x 3.39	x 1.0100	= \$410.87

**Contractors Note:** Place and remove barricades daily.

**Category1: Excavation/Concrete**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**01 - General Requirements**

14	01 71 13 00 0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$406.67
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	Quantity		Unit Price		Factor		Total
Installation	2.00	x	201.32	x	1.0100	=	\$406.67

**Contractors Note:** Mobilization of bobcat. Mobilization required for two separate trades, excavation and masonry.

**Category1: Excavation/Concrete**

15	01 71 13 00 0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$203.33
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	Quantity		Unit Price		Factor		Total
Installation	1.00	x	201.32	x	1.0100	=	\$203.33

**Contractors Note:** Mobilization of chipper with truck for tree removals.

**Category1: Tree Removal**

16	01 71 13 00 0003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Note: For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with > 40' boom lengths, etc.	\$406.66
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	Quantity		Unit Price		Factor		Total
Installation	1.00	x	402.63	x	1.0100	=	\$406.66

**Contractors Note:** Mobilization of backhoe for excavating.

**Category1: Excavation/Concrete**

17	01 71 13 00 0005		EA	Less Than 20 Ton Lift Move On/Off Cost, Truck Mounted Crane	\$268.61
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	Quantity		Unit Price		Factor		Total
Installation	1.00	x	265.95	x	1.0100	=	\$268.61

**Contractors Note:** Crane mobilization.

**Category1: Electric**

18	01 74 19 00 0013		EA	20 CY Dumpster (3 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	\$772.04
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	Quantity		Unit Price		Factor		Total
Installation	2.00	x	382.20	x	1.0100	=	\$772.04

**Contractors Note:** Disposal of construction debris.

**Category1: General Conditions**

19	01 74 19 00 0022		CY	Dump Fee, Trees, Stumps And Brush	\$33.48
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	Quantity		Unit Price		Factor		Total
Installation	3.00	x	11.05	x	1.0100	=	\$33.48

**Contractors Note:** Disposal of landscape debris.

**Category1: Tree Removal**

20	01 74 19 00 0025		CY	Dump Fee, Excavated Dirt	\$1,624.97
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	Quantity		Unit Price		Factor		Total
Installation	182.00	x	8.84	x	1.0100	=	\$1,624.97

**Contractors Note:** Dump fee for excavated spoils.

**Category1: Excavation/Concrete**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**01 - General Requirements**

21	01 74 19 00 0029		CYM	Hauling On Paved Roads, First 15 Miles	\$29.09			
				Quantity	Unit Price	Factor	Total	
				Installation	45.00 x	0.64 x	1.0100 =	\$29.09
<b>Contractors Note:</b> Hauling of removed landscape debris.								

**Category1: Tree Removal**

22	01 74 19 00 0029		CYM	Hauling On Paved Roads, First 15 Miles	\$1,411.74			
				Quantity	Unit Price	Factor	Total	
				Installation	2,184.00 x	0.64 x	1.0100 =	\$1,411.74
<b>Contractors Note:</b> Hauling of excavated soil.								

**Category1: Excavation/Concrete**

**Subtotal for 01 - General Requirements: \$20,698.40**

**02 - Site Work**

23	02 41 19 13 0133		EA	Drill 2" (50 mm) Diameter Core In 12" (30 cm) Concrete	\$253.13			
				Quantity	Unit Price	Factor	Total	
				Installation	3.00 x	83.54 x	1.0100 =	\$253.13
<b>Contractors Note:</b> Core (3) 2" holes in exterior wall of building. CMU + brick = 12".								

**Category1: Electric**

24	02 41 19 13 0133	Mod		For Horizontal Cores, Add	\$44.06			
				Quantity	Unit Price	Factor	Total	
				Installation	3.00 x	14.54 x	1.0100 =	\$44.06
<b>Contractors Note:</b> 'Core (3) 2" holes in exterior wall of building. CMU + brick = 12".'								

**Category1: Electric**

25	02 41 19 13 0135		EA	Drill 4" (10 cm) Diameter Core In 12" (30 cm) Concrete	\$373.54			
				Quantity	Unit Price	Factor	Total	
				Installation	3.00 x	123.28 x	1.0100 =	\$373.54
<b>Contractors Note:</b> Core (3) 4" holes in exterior wall of building. CMU + Exterior brick = 12".								

**Category1: Electric**

26	02 41 19 13 0135	Mod		For Horizontal Cores, Add	\$62.93			
				Quantity	Unit Price	Factor	Total	
				Installation	3.00 x	20.77 x	1.0100 =	\$62.93

**Category1: Electric**

27	02 41 19 13 0211		IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	\$581.76			
				Quantity	Unit Price	Factor	Total	
				Installation	240.00 x	2.40 x	1.0100 =	\$581.76
<b>Contractors Note:</b> Drilling in concrete and masonry for anchoring unistrut and conduit.								

**Category1: Electric**

28	02 41 19 13 0212		IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth	\$249.19			
				Quantity	Unit Price	Factor	Total	
				Installation	96.00 x	2.57 x	1.0100 =	\$249.19
<b>Contractors Note:</b> Drilling in concrete wall for new chain link gate.								

**Category1: Gate**

29	02 41 19 13 0216		IN	1" Diameter Drilling In Concrete Per Inch Of Depth	\$277.14			
				Quantity	Unit Price	Factor	Total	
				Installation	80.00 x	3.43 x	1.0100 =	\$277.14
<b>Contractors Note:</b> Drilling for anchors to fasten generator to concrete pad.								

**Category1: Electric**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>02 - Site Work</b>					
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30	02 41 19 13 0301		VLF	Toothing Masonry Cutouts, Brick, Hard Mortar	\$156.19
				Quantity      Unit Price      Factor      Total	
				Installation      8.00      x      19.33      x      1.0100      =      \$156.19	

**Contractors Note:** Toothing masonry as needed at intersection of new and existing wall.

**Category1:** Masonry

<b>Subtotal for 02 - Site Work:</b>	<b>\$1,997.94</b>
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<b>03 - Concrete</b>					
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31	03 05 00 00 0029		GAL	Sealer, Hardener And Dustproofer, Clear, 400 SF Per Gallon	\$202.42
				Quantity      Unit Price      Factor      Total	
				Installation      2.00      x      100.21      x      1.0100      =      \$202.42	

**Contractors Note:** Concrete sealer applied to new concrete.

**Category1:** Excavation/Concrete

32	03 11 13 00 0003		SF	Continuous Footings Foundation Wood Formwork	\$826.52
				Quantity      Unit Price      Factor      Total	
				Installation      138.00      x      5.93      x      1.0100      =      \$826.52	

**Contractors Note:** Footing formwork.

**Category1:** Excavation/Concrete

33	03 11 13 00 0003	Mod		For Quantities < 1000, Add	\$154.71
				Quantity      Unit Price      Factor      Total	
				Installation      138.00      x      1.11      x      1.0100      =      \$154.71	

**Category1:** Excavation/Concrete

34	03 11 13 00 0007		SF	Below Grade Walls Foundation Wood Formwork Note: Excludes footing	\$3,784.41
				Quantity      Unit Price      Factor      Total	
				Installation      394.00      x      9.51      x      1.0100      =      \$3,784.41	

**Contractors Note:** Foundation wall wood formwork.

**Category1:** Excavation/Concrete

35	03 11 13 00 0007	Mod		For Quantities < 1000, Add	\$716.29
				Quantity      Unit Price      Factor      Total	
				Installation      394.00      x      1.80      x      1.0100      =      \$716.29	

**Category1:** Excavation/Concrete

36	03 11 13 00 0009		LF	Up To 6" High Slab Edge and Block-Out Wood Formwork	\$73.85
				Quantity      Unit Price      Factor      Total	
				Installation      16.00      x      4.57      x      1.0100      =      \$73.85	

**Contractors Note:** Formwork for concrete sidewalk.

**Category1:** Excavation/Concrete

37	03 11 13 00 0009	Mod		For Quantities < 250, Add	\$14.06
				Quantity      Unit Price      Factor      Total	
				Installation      16.00      x      0.87      x      1.0100      =      \$14.06	

**Category1:** Excavation/Concrete

38	03 11 13 00 0010		LF	>6" To 12" High Slab Edge and Block-Out Wood Formwork	\$768.57
				Quantity      Unit Price      Factor      Total	
				Installation      116.00      x      6.56      x      1.0100      =      \$768.57	

**Contractors Note:** Concrete slab edge formwork. Includes exterior slab edge and box out for thinkend pad for generator.

**Category1:** Excavation/Concrete

39	03 11 13 00 0010	Mod		For Quantities < 250, Add	\$144.11
				Quantity      Unit Price      Factor      Total	
				Installation      116.00      x      1.23      x      1.0100      =      \$144.11	

**Category1:** Excavation/Concrete



Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
<b>03 - Concrete</b>					
40	03 11 13 00 0020		SF	Up To 8' High Above Grade Wall Wood Formwork	\$8,524.62
				Quantity                      Unit Price                      Factor                      Total	
			Installation	794.00 x                      10.63 x                      1.0100 =	\$8,524.62
			<b>Contractors Note:</b> Wood formwork for concrete wall above grade. Same as existing.		
<b>Category1: Excavation/Concrete</b>					
41	03 11 13 00 0020	Mod		For Quantities < 1000, Add	\$1,619.92
				Quantity                      Unit Price                      Factor                      Total	
			Installation	794.00 x                      2.02 x                      1.0100 =	\$1,619.92
<b>Category1: Excavation/Concrete</b>					
42	03 11 13 00 0081		LF	2x4 To 2x6 Keyway Forms for Concrete Formwork, All Materials	\$104.07
				Quantity                      Unit Price                      Factor                      Total	
			Installation	64.00 x                      1.61 x                      1.0100 =	\$104.07
			<b>Contractors Note:</b> Keyway in footing.		
<b>Category1: Excavation/Concrete</b>					
43	03 15 16 00 0013		LF	1/2" x 6" Premolded Felt Asphalt Expansion Joint, In Slabs Or Walls	\$230.08
				Quantity                      Unit Price                      Factor                      Total	
			Installation	85.00 x                      2.68 x                      1.0100 =	\$230.08
			<b>Contractors Note:</b> Expansion joint at sidewalk, slab, and thickend pad.		
<b>Category1: Excavation/Concrete</b>					
44	03 15 16 00 0013	Mod		For Installation In Boxouts, Add	\$27.84
				Quantity                      Unit Price                      Factor                      Total	
			Installation	52.00 x                      0.53 x                      1.0100 =	\$27.84
<b>Category1: Excavation/Concrete</b>					
45	03 21 13 00 0004		TON	Grade 50 Reinforcing Steel, Footings And Slabs, #3-#6	\$742.82
				Quantity                      Unit Price                      Factor                      Total	
			Installation	0.27 x                      2,723.94 x                      1.0100 =	\$742.82
			<b>Contractors Note:</b> Vertical rebars in foundation walls, and above grade walls.		
<b>Category1: Excavation/Concrete</b>					
46	03 21 13 00 0012		TON	Grade 50 Reinforcing Steel, Beams, Columns, Walls, #3-#6	\$1,411.88
				Quantity                      Unit Price                      Factor                      Total	
			Installation	0.51 x                      2,740.99 x                      1.0100 =	\$1,411.88
			<b>Contractors Note:</b> Rebar in footings, foundation walls, and above grade walls. (2) #5 cont' in footing and top/bottom of each wall. Rebar each way in concrete slab and pad.		
<b>Category1: Excavation/Concrete</b>					
47	03 21 13 00 0026		EA	Straight Dowels, 5/8" Diameter x 24" Long (16 mm Diameter x 61 cm Long), Deformed	\$115.54
				Quantity                      Unit Price                      Factor                      Total	
			Installation	40.00 x                      2.86 x                      1.0100 =	\$115.54
			<b>Contractors Note:</b> Dowels drilled into adjacent concrete foundation and side walk tie in. Also dowels to tie new 6" slab to 12" generator pad.		
<b>Category1: Excavation/Concrete</b>					
48	03 21 13 00 0026	Mod	EA	For Installation In Existing Concrete, Horizontal, Add Per Inch Of Depth (Note: Includes Drilling Hole Into Concrete And Grout)	\$829.01
				Quantity                      Unit Price                      Factor                      Total	
			Installation	360.00 x                      2.28 x                      1.0100 =	\$829.01
<b>Category1: Excavation/Concrete</b>					
49	03 21 13 00 0026	Mod		For 18" Length, Deduct	\$-11.72
				Quantity                      Unit Price                      Factor                      Total	
			Installation	40.00 x                      -0.29 x                      1.0100 =	\$-11.72
<b>Category1: Excavation/Concrete</b>					

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
<b>03 - Concrete</b>					
50	03 22 13 00 0004		SF	6 x 6 x #6, 42 #/CSF, Welded Wire Reinforcement In Slabs, (W 2.9 x W 2.9)	\$429.68
				Quantity	Unit Price
				Factor	Total
			Installation	489.00 x 0.87 x 1.0100 =	\$429.68
			<b>Contractors Note:</b> Wire mesh in new sidewalk.		
<b>Category1: Excavation/Concrete</b>					
51	03 31 13 00 0009		CY	Direct Chute, Place 3000 PSI Concrete Continuous Footings	\$716.75
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 141.93 x 1.0100 =	\$716.75
			<b>Contractors Note:</b> Concrete for footings.		
<b>Category1: Excavation/Concrete</b>					
52	03 31 13 00 0009	Mod		For 3500 PSI (245 Kg/Cm2) Concrete, Add	\$26.16
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 5.18 x 1.0100 =	\$26.16
<b>Category1: Excavation/Concrete</b>					
53	03 31 13 00 0009	Mod		For Quantities Up To 20, Add	\$77.62
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 15.37 x 1.0100 =	\$77.62
<b>Category1: Excavation/Concrete</b>					
54	03 31 13 00 0026		CY	Up To 6", By Direct Chute, Place 3000 PSI Concrete Slab On Grade	\$954.24
				Quantity	Unit Price
				Factor	Total
			Installation	7.00 x 134.97 x 1.0100 =	\$954.24
			<b>Contractors Note:</b> Concrete slab on grade. Sidewalk and around thickened generator pad.		
<b>Category1: Excavation/Concrete</b>					
55	03 31 13 00 0026	Mod		For 3500 PSI (245 Kg/Cm2) Concrete, Add	\$36.62
				Quantity	Unit Price
				Factor	Total
			Installation	7.00 x 5.18 x 1.0100 =	\$36.62
<b>Category1: Excavation/Concrete</b>					
56	03 31 13 00 0026	Mod		For Quantities Up To 20, Add	\$89.01
				Quantity	Unit Price
				Factor	Total
			Installation	7.00 x 12.59 x 1.0100 =	\$89.01
<b>Category1: Excavation/Concrete</b>					
57	03 31 13 00 0027		CY	>6", By Direct Chute, Place 3000 PSI Concrete Slab On Grade	\$643.27
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 127.38 x 1.0100 =	\$643.27
			<b>Contractors Note:</b> Concrete thickened generator pad.		
<b>Category1: Excavation/Concrete</b>					
58	03 31 13 00 0027	Mod		For 3500 PSI (245 Kg/Cm2) Concrete, Add	\$26.16
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 5.18 x 1.0100 =	\$26.16
<b>Category1: Excavation/Concrete</b>					
59	03 31 13 00 0027	Mod		For Quantities Up To 20, Add	\$48.23
				Quantity	Unit Price
				Factor	Total
			Installation	5.00 x 9.55 x 1.0100 =	\$48.23
<b>Category1: Excavation/Concrete</b>					
60	03 31 13 00 0062		CY	12" Thick, By Direct Chute, Place 3000 PSI Concrete Walls	\$3,850.60
				Quantity	Unit Price
				Factor	Total
			Installation	23.00 x 165.76 x 1.0100 =	\$3,850.60
			<b>Contractors Note:</b> Concrete walls above grade.		
<b>Category1: Excavation/Concrete</b>					

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**03 - Concrete**

61	03 31 13 00 0062	Mod		For 3500 PSI (245 Kg/Cm2) Concrete, Add	\$120.33		
				Quantity	Unit Price	Factor	Total
			Installation	23.00	x 5.18	x 1.0100	= \$120.33

Category1: Excavation/Concrete

62	03 31 13 00 0062	Mod		For Quantities > 20 To 50, Add	\$216.97		
				Quantity	Unit Price	Factor	Total
			Installation	23.00	x 9.34	x 1.0100	= \$216.97

Category1: Excavation/Concrete

63	03 35 16 00 0003		SF	Concrete Floor Finishes, Broom	\$421.47		
				Quantity	Unit Price	Factor	Total
			Installation	390.00	x 1.07	x 1.0100	= \$421.47

Contractors Note: Broom finish on concrete slab and walk.

Category1: Excavation/Concrete

64	03 35 36 00 0001		SF	Wall Finishes, Burlap Rub With Grout	\$558.25		
				Quantity	Unit Price	Factor	Total
			Installation	392.00	x 1.41	x 1.0100	= \$558.25

Contractors Note: Finish concrete walls after forms are removed.

Category1: Excavation/Concrete

65	03 35 36 00 0006		SF	Wall Finishes, Break Ties And Patch	\$316.74		
				Quantity	Unit Price	Factor	Total
			Installation	392.00	x 0.80	x 1.0100	= \$316.74

Contractors Note: Break form ties and patch holes.

Category1: Excavation/Concrete

**Subtotal for 03 - Concrete: \$28,811.10**

**04 - Masonry**

66	04 05 26 00 0002		CSF	Exterior Building Scaffolding, 1 To 5 Story, Tubular Steel, Based On 1 Use/Month	\$1,202.57		
				Quantity	Unit Price	Factor	Total
			Installation	3.92	x 303.74	x 1.0100	= \$1,202.57

Contractors Note: Scaffolding for masonry work.

Category1: Masonry

67	04 21 13 00 0003		SF	Standard Size Red Face Brick - Veneer (6.4/SF With Running Bond)	\$7,516.34		
				Quantity	Unit Price	Factor	Total
			Installation	408.00	x 18.24	x 1.0100	= \$7,516.34

Contractors Note: Veneer brick on new concrete wall.

Category1: Masonry

68	04 21 13 00 0003	Mod		For Columns Where The Shortest Distance From Corner to Corner Is < 3', Add	\$159.09		
				Quantity	Unit Price	Factor	Total
			Installation	10.60	x 14.86	x 1.0100	= \$159.09

Category1: Masonry

**Subtotal for 04 - Masonry: \$8,878.00**

**05 - Metals**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
<b>05 - Metals</b>					
69	05 05 23 00 0128		EA	1/2" Diameter x 7" Long Wedge Anchor Expansion Bolt	\$251.61
				Quantity	Unit Price
				Factor	Total
			Installation	16.00 x 15.57 x 1.0100 =	\$251.61
			<b>Contractors Note:</b> Concrete anchors for new chain link gate.		
<b>Category1: Gate</b>					
70	05 05 23 00 0128	Mod		For Galvanized, Add	\$17.27
				Quantity	Unit Price
				Factor	Total
			Installation	18.00 x 0.95 x 1.0100 =	\$17.27
<b>Category1: Gate</b>					
71	05 05 23 00 0128	Mod		For Quantities > 10 To 50, Deduct	\$-12.36
				Quantity	Unit Price
				Factor	Total
			Installation	18.00 x -0.68 x 1.0100 =	\$-12.36
<b>Category1: Gate</b>					
72	05 05 23 00 0145		EA	1" Diameter x 9" Long Wedge Anchor Expansion Bolt	\$333.30
				Quantity	Unit Price
				Factor	Total
			Installation	8.00 x 41.25 x 1.0100 =	\$333.30
			<b>Contractors Note:</b> Concrete anchors to fasten generator to concrete pad.		
<b>Category1: Electric</b>					
73	05 05 23 00 0145	Mod		For Galvanized, Add	\$52.76
				Quantity	Unit Price
				Factor	Total
			Installation	8.00 x 6.53 x 1.0100 =	\$52.76
<b>Category1: Electric</b>					
74	05 05 23 00 0196		EA	3/8" Concrete Expansion Anchor	\$630.85
				Quantity	Unit Price
				Factor	Total
			Installation	60.00 x 10.41 x 1.0100 =	\$630.85
			<b>Contractors Note:</b> Concrete and masonry anchors for attaching conduit and unistrut.		
<b>Category1: Electric</b>					
75	05 05 23 00 0196	Mod		For Quantities > 50 To 100, Deduct	\$-59.39
				Quantity	Unit Price
				Factor	Total
			Installation	60.00 x -0.98 x 1.0100 =	\$-59.39
<b>Category1: Electric</b>					
76	05 05 23 00 0236		EA	3/16" x 1-1/4" Tapcon Masonry Screw	\$532.63
				Quantity	Unit Price
				Factor	Total
			Installation	64.00 x 8.24 x 1.0100 =	\$532.63
			<b>Contractors Note:</b> Tapcons for fastening metal furring to top of concrete wall.		
<b>Category1: Masonry</b>					
77	05 05 23 00 0236	Mod		For Quantities > 50 To 100, Deduct	\$-52.36
				Quantity	Unit Price
				Factor	Total
			Installation	64.00 x -0.81 x 1.0100 =	\$-52.36
<b>Category1: Masonry</b>					
78	05 05 23 00 0265		EA	1/4" Diameter Threaded Stud Powder Actuated Anchor	\$1,455.29
				Quantity	Unit Price
				Factor	Total
			Installation	124.00 x 11.62 x 1.0100 =	\$1,455.29
			<b>Contractors Note:</b> Wall ties/anchors shot to concrete wall.		
<b>Category1: Masonry</b>					
79	05 05 23 00 0265	Mod		For Quantities > 100, Deduct	\$-285.55
				Quantity	Unit Price
				Factor	Total
			Installation	124.00 x -2.28 x 1.0100 =	\$-285.55
<b>Category1: Masonry</b>					

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>05 - Metals</b>					
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80	05 43 00 00 0042		PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	\$620.54
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				40.00 x	15.36 x
				1.0100 =	\$620.54

**Contractors Note:** 3-1/2" rigid conduit clamps.

Category1: Electric

<b>Subtotal for 05 - Metals:</b>	<b>\$3,484.59</b>
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<b>07 - Thermal &amp; Moisture Protection</b>					
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81	07 11 19 00 0003		EA	Neoprene Grommets, For Sealing Screw Anchors To Be Attached Through Metal Flashing, Includes Anchor And Drilling	\$288.61
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				45.00 x	6.35 x
				1.0100 =	\$288.61

**Contractors Note:** Metal fasteners with neoprene washer/grommet to fasten steel wall cap to flashing.

Category1: Masonry

82	07 62 00 00 0085		SF	Aluminum Flashing, 0.024" Thick, Mill Finish	\$315.25
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				49.00 x	6.37 x
				1.0100 =	\$315.25

**Contractors Note:** Z flashing at bottom of wall.

Category1: Masonry

83	07 62 00 00 0107		SF	24 Gauge Galvanized Steel Flashing, Stock, Short	\$308.45
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				60.00 x	5.09 x
				1.0100 =	\$308.45

**Contractors Note:** Steel wall cap on top of walls and wrapped down around wall to match existing. DOES NOT INCLUDE LABOR.

Category1: Sheet Metal

84	07 62 00 00 0107	Mod		For Wrap Around Window Paning, Add	\$318.15
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				60.00 x	5.25 x
				1.0100 =	\$318.15

**Contractors Note:** 'Steel wall cap on top of walls and wrapped down around wall to match existing. DOES NOT INCLUDE LABOR.'

Category1: Sheet Metal

85	07 84 43 00 0009		CLF	1/2" x 1/2" Joint, Intumescent Firestop Sealant	\$291.61
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				0.50 x	577.44 x
				1.0100 =	\$291.61

**Contractors Note:** Fire stopping/caulking as needed to seal penetrations.

Category1: Electric

86	07 92 00 00 0032		CLF	1/4" x 1/4" Joint, Polysulfide Sealant And Caulking	\$263.64
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				0.92 x	283.73 x
				1.0100 =	\$263.64

**Contractors Note:** Caulking of flashing and expansion joints.

Category1: Masonry

87	07 92 00 00 0035		CLF	3/8" x 3/8" Joint, Polysulfide Sealant And Caulking	\$286.55
				Quantity	Unit Price
				Factor	Total
				Installation	Total
				0.85 x	333.78 x
				1.0100 =	\$286.55

**Contractors Note:** Caulking of concrete expansion joints.

Category1: Excavation/Concrete

<b>Subtotal for 07 - Thermal &amp; Moisture Protection:</b>	<b>\$2,072.26</b>
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<b>09 - Finishes</b>					
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Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>09 - Finishes</b>					
88	09 22 13 00 0025		SF	Double-Leg Resilient Channel, 25 Gauge, RC2 Furring Channel, Installed On Walls 16" On Center	\$190.39
				Quantity	Unit Price
				Factor	Total
			Installation	65.00 x	2.90 x 1.0100 = \$190.39

**Contractors Note:** Furring on top of wall to fasten steel cap to.

**Category1: Masonry**

89	09 84 13 00 0002		SF	3" Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler	\$2,718.84
				Quantity	Unit Price
				Factor	Total
			Installation	506.00 x	5.32 x 1.0100 = \$2,718.84

**Contractors Note:** Use for factory installed sound deadening insulation/panels, and quiet exhaust features.

**Category1: Electric**

90	09 91 13 00 0332		LF	Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, One Coat Primer	\$279.97
				Quantity	Unit Price
				Factor	Total
			Installation	220.00 x	1.26 x 1.0100 = \$279.97

**Contractors Note:** Prime conduit.

**Category1: Electric**

91	09 91 13 00 0333		LF	Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, One Coat Primer	\$569.64
				Quantity	Unit Price
				Factor	Total
			Installation	400.00 x	1.41 x 1.0100 = \$569.64

**Contractors Note:** Prime conduit.

**Category1: Electric**

92	09 91 13 00 0342		LF	Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, Two Coats	\$548.83
				Quantity	Unit Price
				Factor	Total
			Installation	220.00 x	2.47 x 1.0100 = \$548.83

**Contractors Note:** Paint conduit to match existing.

**Category1: Electric**

93	09 91 13 00 0343		LF	Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, Two Coats	\$1,135.24
				Quantity	Unit Price
				Factor	Total
			Installation	400.00 x	2.81 x 1.0100 = \$1,135.24

**Contractors Note:** Paint conduit to match existing.

**Category1: Electric**

**Subtotal for 09 - Finishes: \$5,442.91**

<b>23 - Heating, Ventilating, And Air-Conditioning (HVAC)</b>					
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94	23 09 23 00 0009		HR	EMCS On-Site System Diagnostics Field Technician	\$1,531.08
				Quantity	Unit Price
				Factor	Total
			Installation	8.00 x	189.49 x 1.0100 = \$1,531.08

**Contractors Note:** Testing, start up and verification by qualified electrical technical or manufacturer representative. One day.

**Category1: Electric**

95	23 13 23 13 0126		EA	900 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior	\$10,984.69
				Quantity	Unit Price
				Factor	Total
			Installation	1.00 x	10,875.93 x 1.0100 = \$10,984.69

**Contractors Note:** Fuel tank for generator. Tank will be 850 gallons, however 850 gallon tank not in CTC. FILLING OF FUEL TANK NOT INCLUDED IN THIS PROPOSAL.

**Category1: Electric**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>23 - Heating, Ventilating, And Air-Conditioning (HVAC)</b>					
96	23 13 33 00 0002		EA	Fill Pipe Spill Containment Manhole (5 Gallon)	\$360.37
				Quantity	Unit Price
				Factor	Total
				Installation 1.00 x 356.80 x 1.0100 =	\$360.37
	<b>Contractors Note:</b> Spill manhole for fuel tank.				

**Category1: Electric**

97	23 13 33 00 0003		EA	Over-Fill Prevention Valve	\$508.03
				Quantity	Unit Price
				Factor	Total
				Installation 1.00 x 503.00 x 1.0100 =	\$508.03
	<b>Contractors Note:</b> Over-fill prevention valve				

**Category1: Electric**

98	23 13 33 00 0007		EA	Reservoir Sensor, Liquid Level	\$178.47
				Quantity	Unit Price
				Factor	Total
				Installation 1.00 x 176.70 x 1.0100 =	\$178.47
	<b>Contractors Note:</b> Liquid level sensor for fuel tank.				

**Category1: Electric**

99	23 13 33 00 0011		EA	Vent Cap, 2"	\$74.69
				Quantity	Unit Price
				Factor	Total
				Installation 1.00 x 73.95 x 1.0100 =	\$74.69
	<b>Contractors Note:</b> Vent cap for fuel tank.				

**Category1: Electric**

**Subtotal for 23 - Heating, Ventilating, And Air-Conditionir** **\$13,637.33**

<b>26 - Electrical</b>					
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100	26 01 20 00 0003		EA	Lock Out/Tag Out Breaker Or Motor Starter	\$86.69
				Quantity	Unit Price
				Factor	Total
				Installation 3.00 x 28.61 x 1.0100 =	\$86.69
	<b>Contractors Note:</b> Lock out / Tag out for electrical work.				

**Category1: Electric**

101	26 01 20 00 0005		EA	Existing Circuit Tracing Per Device	\$128.63
				Quantity	Unit Price
				Factor	Total
				Installation 8.00 x 15.92 x 1.0100 =	\$128.63
	<b>Contractors Note:</b> Trace existing circuits as needed to connect generator to main switch gear.				

**Category1: Electric**

102	26 05 13 00 0053		MLF	#3/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Conductor	\$4,857.79
				Quantity	Unit Price
				Factor	Total
				Installation 0.55 x 8,744.89 x 1.0100 =	\$4,857.79
	<b>Contractors Note:</b> #3/0 cable pulled in conduit.				

**Category1: Electric**

103	26 05 13 00 0057		MLF	500 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Conductor	\$29,857.60
				Quantity	Unit Price
				Factor	Total
				Installation 1.66 x 17,808.42 x 1.0100 =	\$29,857.60
	<b>Contractors Note:</b> 500 MCM cable pulled in conduit from generator to transfer switch to main panel. 4 cables in each 3-1/2" conduit.				

**Category1: Electric**

104	26 05 19 00 0376		MLF	#10 AWG Cable - XLP (XHHW), 600 V, Single Stranded, Placed In Conduit	\$1,433.75
				Quantity	Unit Price
				Factor	Total
				Installation 1.55 x 915.84 x 1.0100 =	\$1,433.75
	<b>Contractors Note:</b> #10 wire pulled in conduit for control wiring.				

**Category1: Electric**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>26 - Electrical</b>					
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105	26 05 29 00 0004		LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	\$1,192.81
				Quantity	Unit Price
				Factor	Total
				Installation 100.00 x	11.81 x 1.0100 = \$1,192.81

**Contractors Note:** Unistrut racks mounted to masonry to support conduit runs from generator to transfer switch.

**Category1: Electric**

106	26 05 33 00 0468		LF	1-1/4" RGS Conduit With Coupling, Mounted Exposed On Flat Wall	\$842.34
				Quantity	Unit Price
				Factor	Total
				Installation 100.00 x	8.34 x 1.0100 = \$842.34

**Contractors Note:** (2) 1-1/4" rigid conduit run from generator to transfer switch and main panel for controls.

**Category1: Electric**

107	26 05 33 00 0473		LF	3-1/2" RGS Conduit With Coupling, Mounted Exposed On Flat Wall	\$11,740.24
				Quantity	Unit Price
				Factor	Total
				Installation 400.00 x	29.06 x 1.0100 = \$11,740.24

**Contractors Note:** (3) 3-1/2" rigid conduit run from generator to transfer switch and to main switch gear.

**Category1: Electric**

108	26 05 33 00 0473	Mod		For Quantities > 250 To 500 (> 76.2 m To 152.4 m), Deduct	-\$234.32
				Quantity	Unit Price
				Factor	Total
				Installation 400.00 x	-0.58 x 1.0100 = -\$234.32

**Category1: Electric**

109	26 05 33 00 0486		EA	3-1/2" RGS 90 Degree Elbow	\$1,642.87
				Quantity	Unit Price
				Factor	Total
				Installation 12.00 x	135.55 x 1.0100 = \$1,642.87

**Contractors Note:** Rigid 3-1/2" 90 degree elbows.

**Category1: Electric**

110	26 05 33 00 0533		EA	1-1/4" RGS Box Connector, Insulated With Set Screw	\$86.29
				Quantity	Unit Price
				Factor	Total
				Installation 4.00 x	21.36 x 1.0100 = \$86.29

**Contractors Note:** Box connectors for 1-1/4" conduits.

**Category1: Electric**

111	26 05 33 00 0538		EA	3-1/2" RGS Box Connector, Insulated With Set Screw	\$2,357.22
				Quantity	Unit Price
				Factor	Total
				Installation 18.00 x	129.66 x 1.0100 = \$2,357.22

**Contractors Note:** Box connectors for 3-1/2" conduits. 3 conduits run from disconnect to transfer switch = 6. 6 conduits run from transfer switch to main panel = 12.

**Category1: Electric**

112	26 05 33 00 0546		EA	1-1/4" RGS Type LB, LL Or LR 2 Hub Conduit Body With Cover	\$307.97
				Quantity	Unit Price
				Factor	Total
				Installation 4.00 x	76.23 x 1.0100 = \$307.97

**Contractors Note:** LB's for 1-1/4" conduit runs.

**Category1: Electric**

113	26 05 33 00 0551		EA	3-1/2" RGS Type LB, LL Or LR 2 Hub Conduit Body With Cover	\$2,371.10
				Quantity	Unit Price
				Factor	Total
				Installation 6.00 x	391.27 x 1.0100 = \$2,371.10

**Contractors Note:** LB's for 3-1/2" conduit runs.

**Category1: Electric**



Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
<b>26 - Electrical</b>							
114	26 05 33 00 0646		EA	1/2" RGS Conduit Sealing Fitting Vertical/Horizontal	\$52.66		
				Quantity	Unit Price	Factor	Total
				Installation	1.00 x 52.14 x	1.0100 =	\$52.66
<b>Contractors Note:</b> Seal penetrations in exterior wall around conduit. Link seal.							
<b>Category1: Electric</b>							
115	26 05 33 00 0649		EA	1-1/4" RGS Conduit Sealing Fitting Vertical/Horizontal	\$176.61		
				Quantity	Unit Price	Factor	Total
				Installation	2.00 x 87.43 x	1.0100 =	\$176.61
<b>Contractors Note:</b> Seal penetrations in exterior wall around conduit. Link seal.							
<b>Category1: Electric</b>							
116	26 05 33 00 0654		EA	3-1/2" RGS Conduit Sealing Fitting Vertical/Horizontal	\$1,361.53		
				Quantity	Unit Price	Factor	Total
				Installation	3.00 x 449.35 x	1.0100 =	\$1,361.53
<b>Contractors Note:</b> Sealing penetrations in exterior wall around conduit. Link seal.							
<b>Category1: Electric</b>							
117	26 05 33 00 0711		LF	1/2" EMT Conduit, Mounted Exposed On Flat Wall	\$407.23		
				Quantity	Unit Price	Factor	Total
				Installation	120.00 x 3.36 x	1.0100 =	\$407.23
<b>Contractors Note:</b> Conduit run to 911 center for control wiring to remote annunciator panel.							
<b>Category1: Electric</b>							
118	26 05 33 00 0711	Mod		For Installation Above 14', Add	\$14.24		
				Quantity	Unit Price	Factor	Total
				Installation	30.00 x 0.47 x	1.0100 =	\$14.24
<b>Category1: Electric</b>							
119	26 05 33 00 0733		EA	1/2" EMT Set Screw Coupling	\$36.56		
				Quantity	Unit Price	Factor	Total
				Installation	10.00 x 3.62 x	1.0100 =	\$36.56
<b>Contractors Note:</b> Conduit couplings							
<b>Category1: Electric</b>							
120	26 24 13 00 0279		EA	Short Time Delay Selective Trip - Factory Installed	\$441.17		
				Quantity	Unit Price	Factor	Total
				Installation	1.00 x 436.80 x	1.0100 =	\$441.17
<b>Contractors Note:</b> Time delay device required to have two generators connected to the 911 center.							
<b>Category1: Electric</b>							
121	26 24 16 00 0509		EA	600 V AC/DC Panelboard With 10 - 30 Amp, 4 Pole, Circuit Breakers	\$880.54		
				Quantity	Unit Price	Factor	Total
				Installation	0.00 x 8,411.09 x	1.0100 =	\$0.00
				Demolition	2.00 x 435.91 x	1.0100 =	\$880.54
<b>Contractors Note:</b> Use for demo of existing panels mounted on wall behind existing generator in electric room.							
<b>Category1: Electric</b>							
122	26 24 19 00 0846		EA	Provisions For Bus Duct Entrance Special Cabinet Provisions	\$507.24		
				Quantity	Unit Price	Factor	Total
				Installation	1.00 x 502.22 x	1.0100 =	\$507.24
<b>Contractors Note:</b> Provisions for custom buss detail work at main service panel.							
<b>Category1: Electric</b>							

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>26 - Electrical</b>					
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123	26 25 00 00 0104		LF	1350 Amp Bus Duct 277/480 V, 3 Phase, 4 Wire Copper Conductors, With Supports	\$4,782.86
				Quantity	Unit Price
				Factor	Total
				7.00 x	676.50 x
				1.0100 =	\$4,782.86
				<b>Contractors Note:</b> Custom copper buss detail at main service panel for generator connection to main service. Also includes labor to take apart/ tie into/ modify existing switch gear in order to tie in new generator service.	

**Category1: Electric**

124	26 25 00 00 0104	Mod		For Quantities Up To 25 (< 7.6 m), Add	\$854.11
				Quantity	Unit Price
				Factor	Total
				5.00 x	169.13 x
				1.0100 =	\$854.11
				<b>Contractors Note:</b> 'Custom copper buss detail at main service panel for generator connection to main service. Also includes labor to take apart/ tie into/ modify existing switch gear in order to tie in new generator service.'	

**Category1: Electric**

125	26 28 16 00 0205		EA	1200 A Fused Disconnect Switch, NEMA 3R, Heavy Duty, With Fuses, 600 V, 3 Phase	\$10,484.52
				Quantity	Unit Price
				Factor	Total
				1.00 x	10,380.71 x
				1.0100 =	\$10,484.52
				<b>Contractors Note:</b> 1200 A fused weather proof disconnect at generator.	

**Category1: Electric**

126	26 32 13 13 0016		EA	350 KW, Diesel Generator Set, 3 Phase Without Piping, Wiring Or Concrete Base	\$74,118.77
				Quantity	Unit Price
				Factor	Total
				1.00 x	73,384.92 x
				1.0100 =	\$74,118.77
				<b>Contractors Note:</b> 350 KW Diesel Generator	

**Category1: Electric**

127	26 32 13 19 0007		EA	50 KW, Natural Gas Generator Set, 3 Phase, Without Piping, Wiring Or Concrete Base	\$2,603.42
				Quantity	Unit Price
				Factor	Total
				0.00 x	20,155.40 x
				1.0100 =	\$0.00
				1.00 x	2,577.64 x
				1.0100 =	\$2,603.42
				<b>Contractors Note:</b> Remove existing generator.	

**Category1: Electric**

128	26 32 13 23 0003		EA	Generator Enclosure, Weather Resistant, > 105 To 200KW	\$3,404.72
				Quantity	Unit Price
				Factor	Total
				1.00 x	3,371.01 x
				1.0100 =	\$3,404.72
				<b>Contractors Note:</b> Exterior enclosure	

**Category1: Electric**

129	26 33 53 00 0074		EA	<5 KVA, 30 Minutes, Uninterrupted Power Supply, Battery System With Rack, Lead Wet, Full Output Load	\$2,116.35
				Quantity	Unit Price
				Factor	Total
				1.00 x	2,095.40 x
				1.0100 =	\$2,116.35
				<b>Contractors Note:</b> Generator batteries.	

**Category1: Electric**

130	26 36 23 00 0004		EA	100 A, Automatic Transfer Switch, 120/240 V, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	\$347.35
				Quantity	Unit Price
				Factor	Total
				0.00 x	3,495.88 x
				1.0100 =	\$0.00
				1.00 x	343.91 x
				1.0100 =	\$347.35
				<b>Contractors Note:</b> Remove existing transfer switch.	

**Category1: Electric**

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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<b>26 - Electrical</b>					
131	26 36 23 00 0050		EA	1200 A, Automatic Transfer Switch, 3 Pole With Switched Neutral Contactor With Inphase Monitor And Exerciser, NEMA 1	\$29,094.08
				Quantity                      Unit Price                      Factor                      Total	
			Installation	1.00    x                      28,806.02    x                      1.0100    =	\$29,094.08
<b>Contractors Note:</b> Transfer switch for new generator. Switch-over to occur at night or on weekend during slow time. (Not normal working hours)					

Category1: Electric

**Subtotal for 26 - Electrical: \$188,354.94**

<b>27 - Communications</b>					
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132	27 14 13 16 0269		MLF	2 Pair #12 AWG, Solid, Low Voltage, Placed In Conduit, Alarm And Communications Cable	\$319.81
				Quantity                      Unit Price                      Factor                      Total	
			Installation	0.12    x                      2,638.66    x                      1.0100    =	\$319.81
<b>Contractors Note:</b> Low voltage wire pulled from generator to remote annunciator panel.					

Category1: Electric

**Subtotal for 27 - Communications: \$319.81**

<b>28 - Electronic Safety And Security</b>					
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133	28 31 23 00 0004		EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN) Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	\$736.20
				Quantity                      Unit Price                      Factor                      Total	
			Installation	1.00    x                      728.91    x                      1.0100    =	\$736.20
<b>Contractors Note:</b> Remote annunciator panel for generator. Mounted in 911 center or at owner specified location.					

Category1: Electric

**Subtotal for 28 - Electronic Safety And Security: \$736.20**

<b>31 - Earthwork</b>					
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134	31 05 16 00 0009		CY	#7 Stone Aggregate Fill (1/2" To #4)	\$818.44
				Quantity                      Unit Price                      Factor                      Total	
			Installation	31.00    x                      26.14    x                      1.0100    =	\$818.44
<b>Contractors Note:</b> Stone sub-base for concrete, and backfill stone around foundation wall on both sides.					

Category1: Excavation/Concrete

135	31 13 13 00 0007		EA	Stump Removal, >6" To 12" (>15 cm To 30 cm) Diameter, Includes Loading	\$428.87
				Quantity                      Unit Price                      Factor                      Total	
			Installation	3.00    x                      141.54    x                      1.0100    =	\$428.87
<b>Contractors Note:</b> Remove 3 tree stumps					

Category1: Tree Removal

136	31 13 13 00 0017		EA	Tree Removal, >6" To 12" (>15 cm To 30 cm) D.B.H. (Diameter At Breast Height), Includes Cutting Up Tree, Chipping And Loading.	\$2,065.46
				Quantity                      Unit Price                      Factor                      Total	
			Installation	3.00    x                      681.67    x                      1.0100    =	\$2,065.46
<b>Contractors Note:</b> Removal of 3 trees					

Category1: Tree Removal

137	31 23 36 00 0008		CY	Excavation By Hand Greater Than 1 On 4 Slope	\$501.40
				Quantity                      Unit Price                      Factor                      Total	
			Installation	4.00    x                      124.11    x                      1.0100    =	\$501.40
<b>Contractors Note:</b> Hand digging required due to exterior light pole conduit line, existing masonry wall and foundation.					

Category1: Excavation/Concrete

Proposal Review Detail - CSI Continues..

Job Order Number: 012276.00  
 Job Order Title: Village of Downers Grove - 325 kilowatt generator

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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**31 - Earthwork**

138	31 23 36 00 0011		CY	Excavation Around Buried Structures To Remain > 4' To 8'	\$999.64		
				Quantity	Unit Price	Factor	Total
			Installation	142.00 x	6.97 x	1.0100 =	\$999.64
<b>Contractors Note:</b> Excavation for new footings, foundation walls, and slabs. Excavate around existing foundations and utilities for light poles. 42 CY to level area, 45 CY for footings, 29 CY for slabs, 5 CY for walks, 25 CY for slope step back on back side of slab during foundation work per OSHA. Total of 146 CY - hand digging = 142 CY. 142 x swell factor for hauling.							

**Category1: Excavation/Concrete**

139	31 23 36 00 0034		CY	Loading Or Spreading Of Stockpile (0-500 CY)	\$470.58		
				Quantity	Unit Price	Factor	Total
			Installation	182.00 x	2.56 x	1.0100 =	\$470.58
<b>Contractors Note:</b> Loading of stockpiled excavated material.							

**Category1: Excavation/Concrete**

140	31 23 36 00 0045		TON	Grade And Compact Sub-base Stone (0-500 Ton) Note: Includes spreading, shaping, rough grading, compaction, and watering of imported or stockpiled material by machine.	\$251.36		
				Quantity	Unit Price	Factor	Total
			Installation	55.80 x	4.46 x	1.0100 =	\$251.36
<b>Contractors Note:</b> Grade and compact sub-base stone.							

**Category1: Excavation/Concrete**

141	31 23 36 00 0049		TON	Grade And Compact Backfill / Undercut Fill (0-500 Ton) Note: Includes spreading, shaping, rough grading, compaction, and watering of imported or stockpiled material by machine.	\$105.17		
				Quantity	Unit Price	Factor	Total
			Installation	39.00 x	2.67 x	1.0100 =	\$105.17
<b>Contractors Note:</b> Backfill and compact soil around foundation walls and sidewalks.							

**Category1: Excavation/Concrete**

142	31 23 36 00 0055		SY	Fine Grading Of Sidewalk And Exterior Slabs	\$66.22		
				Quantity	Unit Price	Factor	Total
			Installation	44.00 x	1.49 x	1.0100 =	\$66.22
<b>Contractors Note:</b> Fine grading of sub-base stone.							

**Category1: Excavation/Concrete**

**Subtotal for 31 - Earthwork: \$5,707.14**

**32 - Exterior Improvements**

143	32 31 13 00 0260		EA	16' (4.9 m) Wide x 6' (1.6 m) High Double Gate Galvanized Steel Without Barbed Wire	\$964.40		
				Quantity	Unit Price	Factor	Total
			Installation	1.00 x	954.85 x	1.0100 =	\$964.40
<b>Contractors Note:</b> Chain link gate at new generator enclosure.							

**Category1: Gate**

**Subtotal for 32 - Exterior Improvements: \$964.40**

**41 - Material Processing And Handling Equipment**

144	41 01 20 00 0003		HR	Hoist Or Crane Servicing, Labor Only	\$305.46		
				Quantity	Unit Price	Factor	Total
			Installation	4.00 x	75.61 x	1.0100 =	\$305.46
<b>Contractors Note:</b> Labor for properly rigging generator for crane lift.							

**Category1: Electric**

**Subtotal for 41 - Material Processing And Handling Equip \$305.46**

**Proposal Review Detail - CSI Continues..**

**Job Order Number:** 012276.00  
**Job Order Title:** Village of Downers Grove - 325 kilowatt generator

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**Proposal Total** **\$281,410.48**

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

**The Percent of NPP on this Proposal:** **0.00%**