CITY of NOVI CITY COUNCIL

Agenda Item 2
August 14, 2017

SUBJECT: Approval to award the Meadowbrook Generator project to Brenner Contracting, the lowest qualified bidder for the amount of $323,742 and amend the budget.

SUBMITTING DEPARTMENT: Integrated Solutions Team - Facilities Management Division

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	**$ 323,742**
AMOUNT BUDGETED	**$ 175,842**
APPROPRIATION REQUIRED	**$ 147,900**
LINE ITEM NUMBER	**594-000.00-969.012**

BACKGROUND INFORMATION:

This project will consist of the installation of a new 600-KWH generator to provide back-up power to our Meadowbrook Commons Facility. At the present time, the facility does not have an on-site generator.

The Facilities Management division in collaboration with the City's Architecture/Engineering contract firm NSA Engineers took on the task of developing a scope that would appease all local and federal regulations in terms of generator location and proposed electrical tie-ins. The largest obstacle was gaining the approval from DTE Energy to sign off on the location of one of the proposed transfer switches, the current electrical service for the facility consists of two main service feeds; the house (common areas, elevators, offices, and lunch room) and the tenant (individual apartments in the main facility) loads. The issue is the tenet load is metered by roughly 155 individual meters that would require individual transfer switches at an estimated cost of $15k to provide emergency power which is not economical; the end solution is allowing one transfer switch to be installed before the meter bank. The added requirements coupled with the current construction market did cause the original budgeted scope and estimated cost to increase.

The scope of work includes the installation of a Blue Star model VD-600-01 600KWH diesel generator, two ATS's (Automatic transfer switch), and the use of a temporary generator while the installation is taking place. The proposed Blue Star unit is capable of providing emergency power for an estimated 24 hours on a full tank of diesel and will also be equipped with network capabilities (text/email alerts) to ensure timely re-fueling. The current proposal cost includes the addition and deductions of requested addendums and alternates listed in the packet. We estimate upon award the unit will be installed in late October/early November.

An Invitation for Bids for the Meadowbrook Generator project was posted on the Michigan Intergovernmental Trade Network (MITN) website. A walkthrough was conducted which was attended by seven firms. We received three bids. After careful review, it is the recommendation

of this team to award the Meadowbrook Generator project to Brenner Contracting partnering with the City's contracted generator maintenance company American Generator.

RECOMMENDED ACTION: Approval to award the Meadowbrook Generator project to Brenner Contracting, the lowest qualified bidder for the amount of $323,742 and amend the budget.

RESOLUTION

NOW, THEREFORE BE IT RESOLVED that the following Budget Amendment for the Meadowbrook Commons Generator Project is authorized:

	INCREASE (DECREASE)
SENIOR HOUSING FUND	
APPROPRIATIONS	
Capital Outlay	166,370
TOTAL APPROPRIATIONS	**$ 166,370**
Net Increase (Decrease) to Fund Balance	**$ (166,370)**

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City of Novi at a regular meeting held on August 14, 2017

Cortney Hanson
City Clerk

CITY OF NOVI
MEADOWBROOK COMMONS GENERATOR BID TABULATION
AUGUST 3, 2017 1:00 P.M.

Company	Michigan CAT	Brenner Contracting/Brenner Electric	Professional Thermal Systems
Lump Sum	$ 145,895.00	$ 383,034.00	$ 386,000.00
Make/model	Caterpillar C18 rated at 600kw	Blue Star VD-600-01 Diesel	Blue Star Power Systems VD 600-01
Lead time	approx 10-13 weeks	10-12 weeks contingent on component availability	8-10 weeks
Days required to perform the work	to be determined by installing contractor	Approx 30 days	30 days/5 days after generator delivery
Acknowledged addenda (2)	Yes	Yes	Yes
Exceptions	Michigan CAT will be supplying the generator and ATS only. Installation will be by others. The largest circuit breaker available on this generator is 1200 amps. So (2) 1200 Amp breakers will be supplied. Please see our payment terms and conditions on our quotation. Michigan CAT terms are net 30 days from the invoice date. 30% will be invoiced upon approved submittals, 60% will be invoiced upon delivery of equipment. These payments must be made prior to startup. The final 10% is due 10 days after engine startup by Michigan CAT.	Addenda #1:Included; Addendum #2: Add $3,700 will work automatically. Alternate #1: Remove & replace existing DTE transformer Pad Add $4,000; Alternate #2:Fencing around transformer Add $7,000; Alternate #3: If 750 KC mill aluminum feeder conductors are used Deduct $45,992.00.	None
Comments		Sales tax included on material, not included. Included in price is using the Blue Star VD-600-01 generator while DTE does temporary shut down.	Addendum #1 Alternates - Provide horizontal bores +$20,000. Provide temporary generator power + $4,000. Provide Sound Level 3 Generator Enclosure +$3,500. Addendum #2 Alternates - Provide low voltage means via switch on the exterior of generator that will manually disable feet to ATS-2 for purposed of manual load shedding: None.

Original

CITY OF NOVI

MEADOWBROOK COMMONS GENERATOR

BID FORM

We, the undersigned as bidder, propose to furnish to the City of Novi, according to the specifications, terms, conditions and instructions attached hereto and made a part thereof:

A. Lump Sum $ 383,034.00

Make/Model proposed Blue Star VD-600-01 Diesel
(If you are proposing a Make/Model that is an equivalent to the one specified, please provide brochures/specifications of the unit you are proposing)

Lead time 10-12 Weeks (Contingent on component Availability)

Days required to perform the work Approx. 30 days

We acknowledge receipt of the following Addenda: #1 + #2
(please indicate numbers)

EXCEPTIONS TO SPECIFICATIONS (all exceptions must be noted here or attached on s separate sheet):

Addenda #1 - Included

Addenda #2 - Add $ 3700.00 - Will work automatically

Alternate #1 Remove + Replace existing DTE Transformer Pad - Add $ 4000.00

Alternate #2 Fencing around transformer - Add $ 7000.00

Alternate #3 If 750 KC mill Aluminum Feeder conductors are used Deduct $ 45,992.00

COMMENTS: Sales tax on material - Not Included

Included in price is using the Blue Star VD-600-01 generator while DTE does temporary shut down.

NON-IRAN LINKED BUSINESS

By signing below, I certify and agree on behalf of myself and the company submitting this proposal the following: (1)that I am duly authorized to legally bind the company submitting this proposal; and (2) that the company submitting this proposal is not an "Iran linked business," as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, being Michigan Public Act No. 517 of 2012; and (3) That I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the City in this regard.

THIS BID SUBMITTED BY:

Company (Legal Registration) Brenner Contracting dba Brenner Electric, LLC

Address 887 Degurse

City Marine City State MI Zip 48039

Telephone 810-531-2086 Fax N/A

Representative's Name John E Brenner

Representative's Title Owner

Authorized Signature JohEB

E-mail office@brennerelectric.org

Date 8-3-17

cityofnovi.org

CITY OF NOVI

CONTRACTOR QUALIFICATIONS QUESTIONNAIRE

Failure to answer all questions could result in rejection of your proposal.

Name of Firm Brenner Contracting LLC dba Brenner Electric, LLC

Address: 887 Degnore Ave

City, State Zip Marine City MI 48039

Telephone 810-531-2081 Fax n/a

Mobile 810-278-1912

Agent's Name (please print) John E Brenner Jr

Agent's Title Owner

Email Address: office@brennerelectric.org

Website

1. Organizational structure: Corporation, Partnership, etc. LLC - S corp
2. Firm established: 2011 Years in business: 6 yrs
3. Has your firm filed for Chapter 7 or Chapter 11 within the last ten (10) years?
   No ✓ Yes ____ Reason: ____
4. Under what other or former names has your organization operated?
   n/a
5. How many full time employees? 21 Part time? 1
6. Are you able to provide insurance coverage as required by this bid? yes
7. Are you able to provide bonds with the City's required language? yes
8. List the scope of services (type of work) you are able to perform.
   All electrical work
9. List any professional licenses/certifications you/your employees have obtained that would be applicable to this contract.
   Master Electrician License, Journeyman License, Contractor license, OSHA 10 certification + Lift certification

10. Provide a list of employees and all other professional staff to be assigned to this contract. Include name, title, license number, years of experience, full/part time, on-call availability, qualifications, and experience.

John E Brennan Jr owner Master - 6209589 Contractor 6107823 30 yrs
Mathew Keller Field Supervisor - Master 6215766 - FT - 20 yrs
Tony Baczewski Master Electrician - 6214130 - FT - 25 yrs
Fred Ingle Journeyman - 633881 - FT - 10 yrs
Jeremy Kilyak - Apprentice - FT - 2 yrs

11. List equipment, tools and all other resources available to your firm to perform this contract:

Back Hoe Directional Boring - Sub
Crane
Landscape - Sub
Fencing - Sub
Concrete - Sub

12. Provide a list of all open contracts your company currently holds. Include contact name, organization, type, size, required date of completion, percentage of completion, value of contract.

Dave Hampton - McCarthy Smith - Port Huron Schools Wilson Project 620,000 Comp 8/25/17
Graham Thatch Robo Vent - Tower Project - 107,734 W T+M - OPEN
Anthony Mcoderon City of New Baltimore - Ballclair Pump Station 79,261 W 8/12/17
Motor City Solutions - Jeff Adwell - Interior Industrial Rm - 42,132 W - open

13. **References**: Provide at least three (3) references for projects that are comparable in scope to this bid. Several references from municipalities would be desirable.

Company Whitlesay Development
Address 39346 23 mile Rd New Baltimore MI 48047
Phone 586-464-2070 Contact name Ted Whitlesay
Project done For: Automotive

Company Motor City Solutions
Address 25098 Brest Rd Taylor MI 48180
Phone 313-999-0860 Contact name Jeff Adwell
Project done Paint Booth, Fab Shop, New Bldg Lft

Company Acustic Mold + Engineering
Address 24541 Maplehurst Clinton Twp MI 48036
Phone 586-598-4636 Contact name Brendan Weaver
Project done Sabrina 2000 Amp Serv. + SD machines

14. Claims & Suits: Does your firm have any litigation pending or outstanding against your organization or its officers? If yes, please provide details.
No ✓ Yes _____

15. Provide any additional information you would like to include which may not be included within this Questionnaire. You may attach additional sheets.

THE FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS:

Signature of Authorized Company Representative: _____
Representative's Name (please print) John E BRENNER JR
Date 8-3-17

BRENNER ELECTRIC

Commercial • Industrial • Residential

887 Degurse, Marine City, MI 48039
John Brenner Jr., Owner
Pete Meldrum , Estimator
810-531-2086 Office

Revision

August 4, 2017

City of Novi
45175 Ten Mile Rd
Novi, MI 48375

RE: MeadowBrook Commons Generator proposal/bid

Please make the following deductions to the original quote of $383,034.00

Deduct of Alternate #3 - Alumimum Feeder conductors -$45,992.00

Deduct for Fencing and landscape -$21,000.00

Total Bid after deductions $316,042.00

ADD ADDENDA #2 # 3700
ADD ALTERNATE # 1 # 4000

7700

= 323,742

BLUE STAR
Power Systems Inc.

Diesel Product Line

208-600 Volt

VD400-01

60 Hz / 1800 RPM

400 kWe / 360 kWe

Standby / Prime

Ratings

	240V	208V	240V	480V	600V
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	573RSL4035	433CSL6220	433CSL6220	433CSL6220	433PSL6248
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
Standby					
kWe	400	400	400	400	400
AMPS	1667	1390	1204	602	482
Temp Rise	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C	130°C / 27°C
Prime [Only Available For Mobile Applications]					
kWe	360	360	360	360	360
AMPS	1500	1251	1084	542	434
Temp Rise	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

Standard Equipment

Engine

- Radiator Cooled Unit Mounted (50°C)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 24V Battery System & Cables
- SAE Flywheel Housing
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connectors
- EPA Certified - Tier 3

Generator

- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1.0% Voltage Regulation
- 4 Pole, Rotating Field
- 130°C Standby Temperature Rise
- 105°C Prime Temperature Rise
- 100% of Rated Load - One Step
- 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI standards compliance for temperature rise

Additional

- Microprocessor Based Digital Control
- Base - Structural Steel
- Main Line Circuit Breaker Mounted & Wired
- Critical Grade Silencer Mounted
- Battery Charger 24V 5 Amp
- Jacket Water Heater -20°F 4000W 240V w/Isolation Valves
- Vibration Isolation Mounts (Pad Type)
- Radiator Duct Flange (OPU Only)
- Single Source Supplier
- 2YR / 2000HR Standby Warranty
- 1YR / 1500HR Prime Warranty
- Standard Colors - White / Tan / Gray

Diesel Product Line

400 kWe / 360 kWe

BLUE STAR Power Systems Inc.

Application Data

Engine

Manufacturer:	Volvo	Displacement - Cu. In. (lit):	780 (12.8)
Model:	TAD1353GE	Bore - in. (cm) x Stroke - in. (cm):	5.2 (13.1) x 6.2 (15.8)
Type:	4-Cycle	Compression Ratio:	18.1:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	6 Cylinder Inline	Max HP Stby (kWm):	611 (449)

Exhaust System	**Standby**	**Prime**
Gas Temp. (Stack): °F (°C)	923 (495)	905 (485)
Gas Volume at Stack Temp: CFM (m³/min)	2,790 (79.0)	2,613 (74.0)
Maximum Allowable Exhaust Restriction: in. H2O (kPa)	40.0 (10.0)	40.0 (10.0)
Cooling System		
Ambient Capacity of Radiator: °F (°C)	122 (50.0)	122 (50.0)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H20 (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Flow Rate: Gpm (lit/min)	87.0 (329)	87.0 (329)
Heat Rejection to Coolant: BTUM (kW)	10,123 (177)	9383 (164)
Heat Rejection to CAC: BTUM (kW)	5,346 (94.0)	5,289 (93.0)
Heat Radiated to Ambient: BTUM (kW)	3,415 (59.8)	3,202 (56.0)
Air Requirements		
Aspirating: CFM (m³/min)	1,102 (31.2)	1,038 (29.4)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)	24,175 (684)	24,175 (684)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)	Consult Factory For Remote Cooled Applications	
Fuel Consumption		
At 100% of Power Rating: gal/hr (lit/hr)	27.9 (105.6)	25.6 (96.9)
At 75% of Power Rating: gal/hr (lit/hr)	21.9 (82.9)	20.1 (76.1)
At 50% of Power Rating: gal/hr (lit/hr)	15.0 (56.8)	14.0 (53.0)
Fluids Capacity		
Total Oil System: gal (lit)	9.5 (36.0)	9.5 (36.0)
Engine Jacket Water Capacity: gal (lit)	5.28 (20.0)	5.28 (20.0)
System Coolant Capacity: gal (lit)	11.6 (44.0)	11.6 (44.0)

Deration Factors
Rated Power is available up to 4920 ft (1500 m) at ambient temperatures to 122°F (50°C).
Consult factory for site conditions above these parameters.

Diesel Product Line

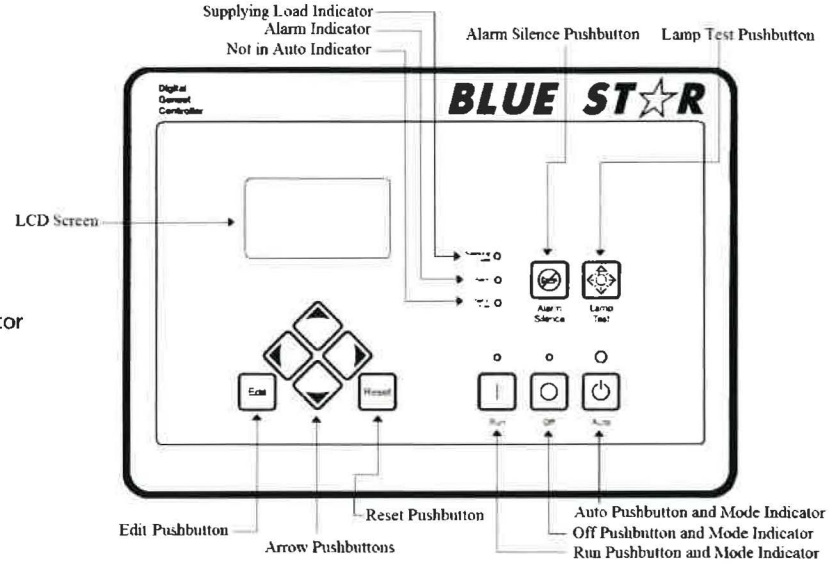
400 kWe / 360 kWe

BLUE STAR Power Systems Inc.

DGC-2020 Control Panel

Standard Features

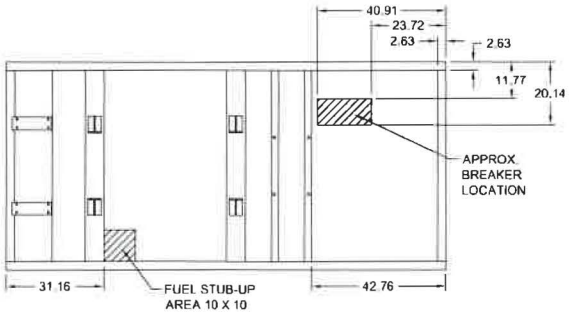
- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications - RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- Up to 11 Contact Outputs
- UL Recognized, CSA Certified, CE Approved
- Event Recording
- IP 54 Front Panel Rating with Integrated Gasket
- NFPA 110 Level 1 Compatible

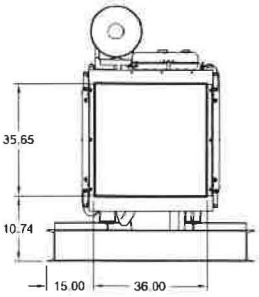


Weights / Dimensions / Sound Data

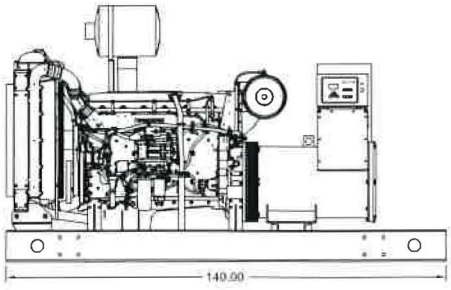
	L x W x H	Weight lbs
OPU	140 x 66 x 82 in	8,550
Level 1	140 x 66 x 105 in	9375
Level 2	140 x 66 x 123 in	10,025
Level 3	195 x 66 x 112 in	10,675

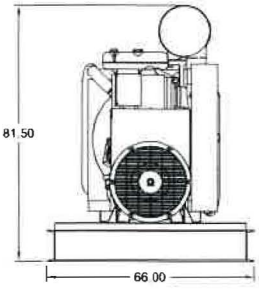
Height measured from bottom of base to exhaust stack.





	No Load	Full Load
OPU	85 dBA	88 dBA
Level 1	83 dBA	87 dBA
Level 2	81 dBA	85 dBA
Level 3	71 dBA	73 dBA

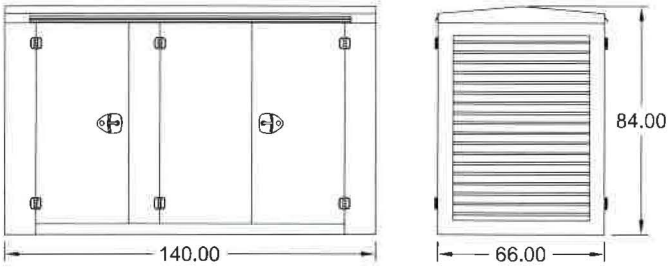




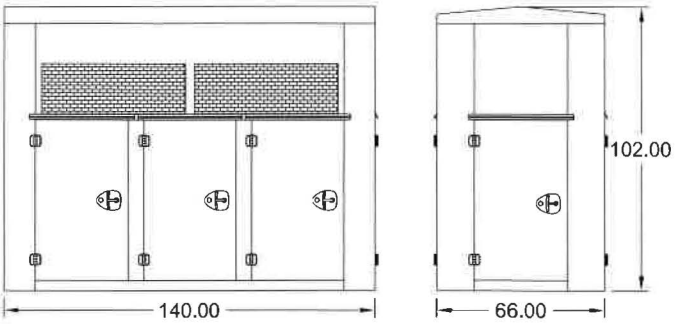
Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice.
Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.

Optional Enclosures and Fuel Tanks

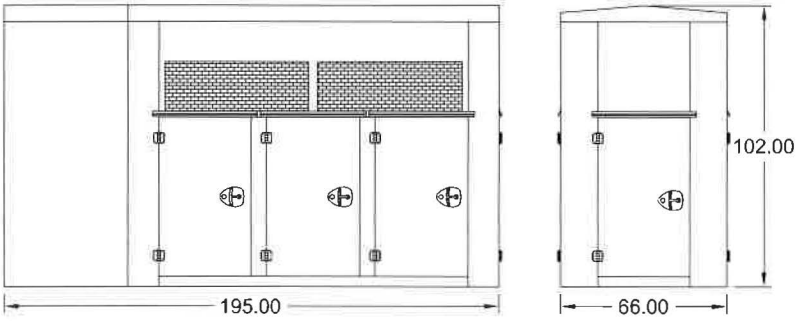
Level 1 Enclosure (WPE)

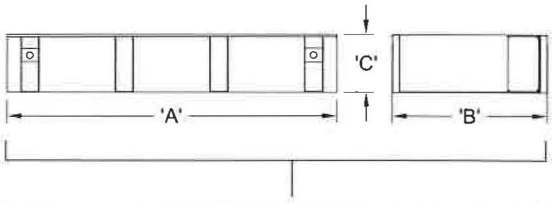


Level 2 Enclosure (WPF)



Level 3 Enclosure (SAE)





*Level 1 enclosures are 100 MPH Wind Rated as standard (up to 150 MPH available).
**Level 2 & 3 enclosures are 150 MPH Wind Rated as standard.
***Enclosure height does not include unit base or exhaust stack.

Double Wall UL 142 Listed Fuel Tanks

	24 Hour (875 Gallon)			48 Hour (1750 Gallon)			72 Hour (2625 Gallon)		
	A	B	C	A	B	C	A	B	C
OPU	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 1	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 2	140.00	66.00	34.00	235.00	66.00	36.00	330.00	66.00	36.00
Level 3	195.00	66.00	22.00	191.00	66.00	32.00	330.00	66.00	36.00

*All specification sheet dimensions are represented in inches.
**All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions.
***Level 1 enclosure not UL listed.

Materials and specifications subject to change without notice.

Distributed By:

A USA COMPANY

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