



# MANATEE COUNTY FLORIDA

June 26, 2012

TO: All Interested Bidders  
SUBJECT: Invitation for Bids #12-1882CD  
Electrical Work- for Manatee County Desoto Center Sherriff's Office Property  
and Evidence Storage Project- Phase II

## ADDENDUM #1

**Bidders are hereby notified that this Addendum shall be acknowledged on page 00300-2 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgment of the Addendum will be considered incomplete.**

The following items are issued to add to, modify, and clarify the quote and contract documents. These items shall have the same force and effect as the original quoting and contract documents, and cost involved shall be included in the quote prices. Quotes to be submitted on the specified quote date, shall conform to the additions and revisions listed herein.

1. **DELETE** plan drawing number E-5.4, issued with the bid documents, and **INSERT** plan drawing number E-5.4 that is attached to this Addendum #1.
2. **CHANGE** Article 2.12.E.2, Output Ratings, on page 16620-6 of the Technical Specifications to read as follows:

**80 KW / 100 KVA (This is for the Generator that the County will be supplying).**

**The following questions were asked during or after the information conference that was held on June 18, 2012:**

**Question #1: What Automatic Transfer Switch (ATS) types, or brands to be used? How many?**

**RESPONSE #1:** All ATSS are load rated; breakers shall be installed on the incoming and outgoing circuits of the ATSS's. See the drawings sheets E5.1 through 5.4 and specifications section 16440. The base bid includes a total of two (2) ATSS's, and the Option #1 bid would include an additional ATSS.

**Question #2: Are there quick disconnect boxes specified for the generators?**

**RESPONSE #2:** There are quick disconnect boxes specified for the generators, see specification 16441 for docking stations.

Financial Management Department - Purchasing Division  
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205  
PHONE: 941.749.3014 \* FAX: 941.749.3034

[www.mvmanatee.org](http://www.mvmanatee.org)

**Question #3: Who will handle getting the gas connection to the generator?**

**RESPONSE #3:** The County shall work with TECO Gas up to the metering installation. The Contractor shall be responsible for the installation from the meter into the generator.

**Question #4: Is the bid to include panels MSB1, A, B, C, and D?**

**RESPONSE #4:** The panels shall be included in the bid. All items required to make the project a complete and working project shall be included in the bid.

**Question #5: Is the base bid to include the GDS? A note on the plans say it does, however, Alternate #1 shows all power to and from it.**

**RESPONSE #5:** The Generator Docking Station (GDS) is included in the base bid – (alternate #1 on the plans).

**Question #6: Is option #3 still to be bid? It appears it was removed from the one line drawings. If it is to be included, please define scope.**

**RESPONSE #6:** Yes, the one line was omitted by mistake. The new sheet E5.4 drawing (attached to this Addendum #1- see item #1 above) shows the one line for option#3. The scope of work includes the installation of an ATS and distribution panel for the Voter's Registration Facility.

**Question #7: Is this to be Davis Bacon project?**

**RESPONSE #7:** No.

#### **END OF ADDENDUM #1**

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Bradenton, Florida 34205 until **Tuesday, July 3, 2012 at 3:00 PM.**

Sincerely,

  
Melissa M. Wendel, CPPO  
Purchasing Official

Financial Management Department –Purchasing Division  
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205  
PHONE: 941.749.3014 \* FAX: 941.749.3034  
[www.mvmanatee.org](http://www.mvmanatee.org)

**GENERAL NOTES:**

ITEMS IN GRAYSCALE ARE EXISTING.

ITEMS IN BOLD ARE NEW UNLESS OTHERWISE NOTED.

ALL NEW EXTERIOR ELECTRICAL GEAR SHALL BE NEMA 3R RATED.

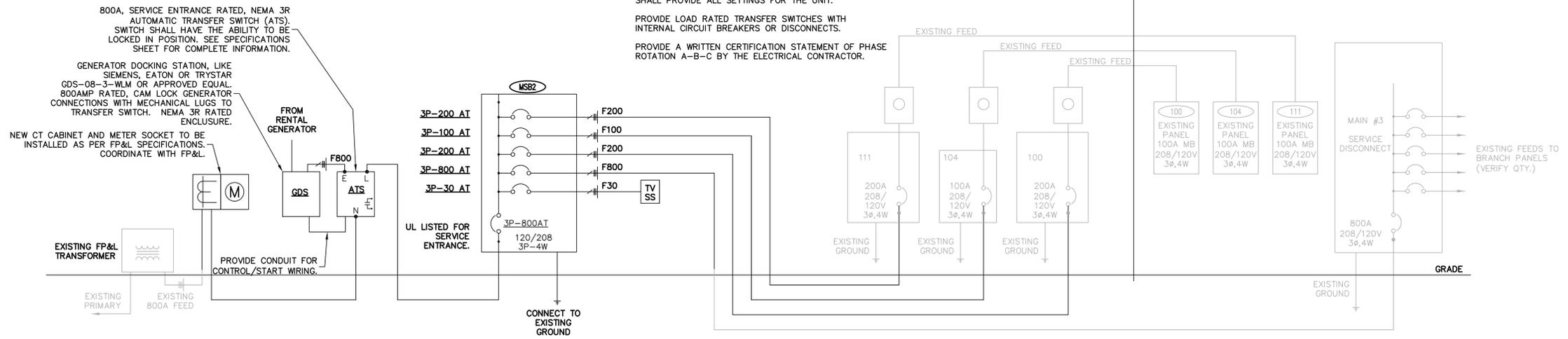
RE-USE EXISTING CONDUITS TO EXISTING PANELS, PROVIDE AND INSTALL NEW CONDUCTORS. VERIFY THAT NEW CONDUCTORS WILL NOT EXCEED NEC CONDUIT FILL.

COORDINATE SEQUENCING OF DOWNTIME AND CIRCUIT CHANGE OVER WITH OWNER.

THE MANUFACTURER OF THE MAIN CIRCUIT BREAKERS SHALL PROVIDE ALL SETTINGS FOR THE UNIT.

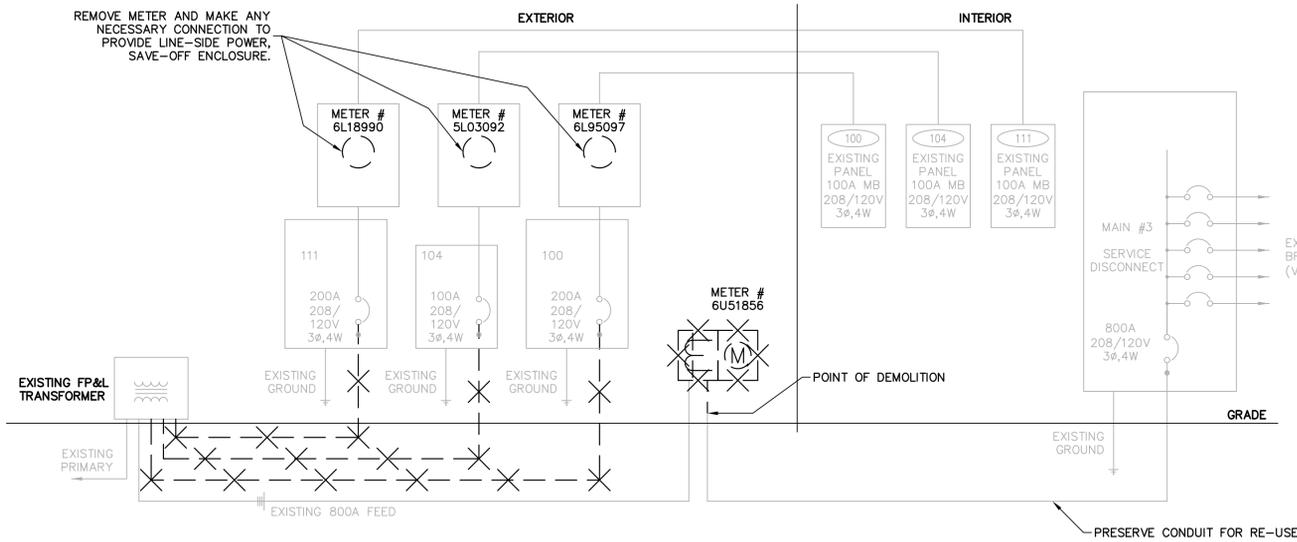
PROVIDE LOAD RATED TRANSFER SWITCHES WITH INTERNAL CIRCUIT BREAKERS OR DISCONNECTS.

PROVIDE A WRITTEN CERTIFICATION STATEMENT OF PHASE ROTATION A-B-C BY THE ELECTRICAL CONTRACTOR.



**2**  
E-5.4  
NEW ONE-LINE RISER DIAGRAM - OPTION 3  
NTS  
BOARD OF ELECTIONS SPACE

PROVIDE SEPARATE BID FOR OPTION #3 - OWNER HAS OPTION TO NOT INCLUDE THESE ITEMS IN THE TOTAL PROJECT.



**1**  
E-5.4  
EXISTING ONE-LINE RISER DIAGRAM - OPTION 3  
NTS  
BOARD OF ELECTIONS SPACE

**GENERAL NOTES:**

ALL ITEMS ON THIS PLAN ARE EXISTING.

✕ DENOTES ITEMS TO BE REMOVED.

ITEMS IN GRAYSCALE ARE TO REMAIN.

ALL CONDUITS TO INTERIOR PANEL ARE TO BE RE-USED, SEE NEW ONE-LINE RISER. REMOVE CONDUCTORS TO PANELS.

Supervisor of Elections - Manatee County			
ATP Engineering South, P.L.			
<b>Available Fault Current Calculation</b>			
Utility Fault Current	36,877 amperes	kVA	208
$I = \frac{kVA \times 1000}{E \times 1.732}$	trans. FLA = 0	trans. FLA	0
$I_{SCA} = \frac{trans. FLA \times 100}{transformer Z}$	= 0	%	0
$I_{SCA}$ = amperes short-circuit current RMS symmetrical.	$I_{SCA}$ = 0 amperes		
<b>Point to Point Method</b>			
Length (distance) (ASC)	L = 25	$I_{SCA}$	36,877
$I^* \text{ factor } \frac{1.732 \times L \times I}{N \times C \times E \times L-N}$	$I_{SCA}$	36,877	
Phase conductor constant	C = 20,868	Phase Conductor	
Volt Line to Line	E-L-L = 208 Volt		
Neutral conductor constant	C = 20,868	Neutral Conductor	
Volt Line to Neutral	E-L-N = 120 Volt		
Multiplier	M = 0.213		
$M = \frac{1}{1+f}$	Line to Line	M = 0.891	
	Line to Neutral	M = 0.825	
<b>Fault Current at Service Equipment</b>			
$I_{SCA} \times M$ = fault current at terminals of main disconnect L-L =			32,849 amperes
$I_{SCA} \times M$ = fault current at terminals of main disconnect L-N =			30,413 amperes
<b>Fault Current from [ATS to MDP-1 in Supervisor of Elections Office]</b>			
Three Phase Feeder	Length (distance) (ASC)	L = 50	$I_{SCA}$ = 32,849 Phase 30,413 Neutral
$I^* \text{ factor } \frac{1.732 \times L \times I}{N \times C \times E \times L-N}$	$I_{SCA}$	32,849	
Phase conductor constant	C = 20,868	Phase Conductor	
Volt Line to Line	E-L-L = 208 Volt		
Neutral conductor constant	C = 20,868	Neutral Conductor	
Volt Line to Neutral	E-L-N = 120 Volt		
Multiplier	M = 0.951		
$M = \frac{1}{1+f}$	Line to Line	M = 0.821	
	Line to Neutral	M = 0.740	
$I_{SCA} \times M$ = fault current at terminal of the panel L-L =			26,959 amperes
$I_{SCA} \times M$ = fault current at terminal of the panel L-N =			22,518 amperes
Calculation does not include motor contribution			

DATE: 5-11-2012  
DRAWN: JCD  
CHECKED: JCD  
REVISIONS:

ATP ENGINEERING SOUTH, PL  
SARASOTA, FLORIDA  
ENGR. BUSINESS #8908  
941-360-2181

JERRY N. ZOLLER  
ARCHITECT / PLANNER  
AIA  
C0006577  
P.A.  
814 14th STREET W. BRADENTON, FL 34205 TEL: (941) 746-4465

PROPOSED RENOVATION FOR:  
**MANATEE COUNTY DESOTO CENTER  
SHERIFF'S OFFICE EVIDENCE ROOM**  
BRADENTON, FLORIDA  
600 U.S. 301 BLVD. WEST

JOB NO 0601J  
DATE MAR 08, 2012  
DRAWN JCD  
CHECKED JCD  
REVISIONS:

E-5.4