

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 10
2. AMENDMENT/MODIFICATION NO. 000001	3. EFFECTIVE DATE 06/20/2013	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY NASA/Marshall Space Flight Center Office of Procurement Marshall Space Flight Center AL 35812	CODE MSFC	7. ADMINISTERED BY (If other than Item 6) NASA/Marshall Space Flight Center Marshall Space Flight Center AL 35812	CODE MSFC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x) 9A. AMENDMENT OF SOLICITATION NO. NNM13ZPS004E	
		x 9B. DATED (SEE ITEM 11) 05/29/2013	
		10A. MODIFICATION OF CONTRACT/ORDER NO.	
		10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE		

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended.  is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

**12. ACCOUNTING AND APPROPRIATION DATA (if required)**

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not.  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

The purpose of this amendment to IFB NNM13ZPS004E, Revitalization and Repair of Central Chilled Water System for Building 4473, is to provide answers to questions asked by several of the potential bidders. These questions and answers are being provided to assist all contractors in preparing their bid.

Question 1: We are having trouble locating manufacturers to provide the specified chillers. Is York the only acceptable manufacturer for this project?

Answer: No, York is not the only acceptable manufacturer. As a part of the design effort, of two additional chiller manufacturers, affirmed their ability to provide chillers that met the project specifications and drawings.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian A Speer
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA <i>Brian A. Speer</i> (Signature of Contracting Officer)
(Signature of person authorized to sign)	15C. DATE SIGNED 16C. DATE SIGNED June 20, 2013

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Question 2: Per Solicitation # NNM13ZPS004E, Specification M5050 3.18 A. Is there a specific location required for the Jobsite Trailer (For Government)?</p> <p>Answer: No. Paragraph 3.18.A was inadvertently included in the specification and is not applicable to solicitation IFB NNM13ZPS004E. Paragraph 3.18.A should be deleted in its entirety. Replace the original bid package specification page with the attached revised specification page.</p> <p>Question 3: Please confirm if the Chiller Schedule is correct on all chillers being 460/3/60. The electrical data scheduled is more of what a 4160/3/60 machine would be like. Also, it's unusual to have a large 1,250 Tcn machine with a 460 VFD. So again please confirm all electrical on the chillers scheduled.</p> <p>Answer: The chiller schedule on sheet M16 is NOT correct. All 1250 ton chillers should be 4160V, 3 phase, 60 Hz. Replace the original bid package drawing sheet with the attached revised drawing sheet FAV-V-4473-M16.</p> <p>SPEC SECTION 23 64 16 - Centrifugal Water Chillers (Questions 4-12)</p> <p>Question 4: 2.1/B ( Seismic Requirements ) Are the chillers required to meet OSHPD, IBC-2006, ASCE-7-05, or CBC-2007 seismic requirements? What is the minimum SDS rating number required?</p> <p>Answer: There are no seismic design requirements for the chillers.</p> <p>Question 5: 2.3/D ( Refrigerant Transfer ) Are we to provide factory compressor discharge isolation valve and liquid line ball valve to allow isolation of the refrigerant charge in the condenser for servicing the compressor?</p> <p>Answer: Yes.</p> <p>Question 6: Are we to provide a pumpout compressor for transfer of the charge either factory or field installed?</p> <p>Continued ...</p>				

**CONTINUATION SHEET**

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Answer: No.</p> <p>Question 7: 2.4/H/2 ( evaporator marine water boxes ) This spec section calls for marine water boxes ( MWB ) but the mechanical floor plans have them drawn as nozzle in head ( NIH ). Please confirm if the evaporator water boxes are to be MWB or NIH? This question is for the 1250 ton chillers only as the 375T chillers show MWB on both heat exchangers on the plans which matches the specifications.</p> <p>Answer: Provide NIH for evaporators as indicated in the drawings</p> <p>Question 8: 2.4/I/1 and 2.5/I/1 ( additional corrosion protection ) Typically we would only see coated waterboxes on jobs with poor water treatment or river water. Please confirm that this is a requirement of the specifications.</p> <p>Answer: Bid per plans and specifications.</p> <p>Question 9: 2.7/B ( power factor correction ) Since the starters for the 4160V chillers are existing and free standing are the power factor correction capacitors going to be provided and installed by the electrician?</p> <p>Answer: No. The specification indicates that the power factor correction capacitors (PFCs) are to be provided (furnished and installed, complete, including all appurtenances) at the factory (part of chiller package). Each PFCs unit will need to have contactors as part of the unit to prevent capacitors from being in the motor circuit during start-up. The electrical contractor shall be responsible for providing the power conductors (as shown on the drawings) and the control conductors (2#10,1#10grd - ¾"C, for control of PFCs via the contactor) between the starter and the chiller. Note: Chillers being served by Variable Frequency Drives shall not have PFCs.</p> <p>Question 10: 2.8/C ( 375T chiller VFDs ) Is it acceptable to use a factory mounted VFCs for the (2) 375T chillers that are refrigerant cooled in lieu of the water cooled VFCs specified? No field installed refrigerant or water connections Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR

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	<p>are required.</p> <p>Answer: Refrigerant cooled VFCs are acceptable, provided the refrigerant is R-134a or R-410a.</p> <p>Question 11: Please confirm if the 85dba requirement is sound POWER or sound PRESSURE level? We propose a sound PRESSURE level of 85dba per ARI-575 in lieu of the sound POWER level of 85dba for the 1250 ton chillers. The ARI standard is calculated in sound PRESSURE</p> <p>Answer: It should be sound PRESSURE level of 85 per ARI-575.</p> <p>Question 12: 2.12/B ( factory testing ) Can you clarify how many load points are to be tested? EXAMPLE ( 100%, 75%, 50%, 25%). Are all ten chillers are to be tested or just one of each tonnage size since they are identical?</p> <p>Answer: Four load points (part load verification). Refer to the ARI standards (550/590) in the specifications for part load testing procedures. Only one chiller from each configuration (1250 constant, 1250 VFD, 350 VFD) needs to be tested.</p> <p>SPEC SECTION 26 29 23 - Variable Frequency Controllers (Questions 13-15)</p> <p>Question 13: 26 29 23 VFC/ 2.1/A/2 ( 1250T VFC ) Is it acceptable to use a current source VFC in lieu of the IGBT type specified?</p> <p>Answer: No.</p> <p>Question 14: Chiller schedule electrical data MARK 4473-CHLR001, 2, 4 &amp; 5; 4473-CHLR003 &amp; 6; 4473-CHLR008 &amp; 9 The electrical data shows these chillers as 460/3/60. Please clarify if these chillers are to be 460/3/60 or 4160/3/60 voltage.</p> <p>Answer: This is a duplicate question, see the response to a previous question.</p> <p>Question 15: Chiller schedule (4473-CHLR007A and 7B) Can you confirm the full load and NPLV kw per ton are correct for the MCA shown? The MCA Continued ...</p>				

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	<p>does not seem to match the efficiency level shown.</p> <p>Answer: The chiller schedule is correct.</p> <p>Question 16: This specification calls for steel pipe and copper pipe materials for the hydronic piping systems. Would the government consider allowing Climatherm polypropylene piping manufactured by Aquatherm to be used for these hydronic systems? A submittal package is included for your review.</p> <p>Answer: Bid per plans and specifications.</p> <p>Question 17: Could we get contact information for the DDC Controls contractor who have the existing controls system for this building (name, phone number, etc.)?</p> <p>Answer: Dorsett Technologies, 100 Woodlyn Dr., Yadkinville, NC 27055. Lee Finney is the Dorsett Technologies representative for MSFC. Direct line: 336-679-2126 ext. 217; Toll Free: 800-331-7605; Fax: 336-679-8811.</p> <p>Question 18: Dwg E-11 show chillers 1, 2, 3, 4, 5, 6, 8 &amp; 9 being 4160V. Dwg M-16 show the same chillers being 480V.</p> <p>Answer: This is a duplicate question, see response to a previous question.</p> <p>Question 19: The (2) 5" conduits leaving existing 4160V gear to new 1000kva transformer on interior of building, should they be RGS or is EMT ok per specifications?</p> <p>Answer: EMT is acceptable interior to the building</p> <p>Question 20: Dwg E-2 (B5). The existing communication duct bank. Does the duct bank remain under new building?</p> <p>Answer: Yes.</p> <p>Question 21: Dwg E-7. There are note tags to nothing, is there a "cad layer" turned off?</p> <p>Answer: A printing issue was identified in the files provided on the bid disk. The attached Continued ...</p>				

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	<p>file is a replacement page for sheet FAC-V-4473-E7.</p> <p>Question 22: I was wanting to know if you could tell me if there was going to be any trench drain in the civil area on this project? I saw on a few of the drawings where it was marked Trench Drain (per as Built) but I was unsure if there was trench drain and how much there was.</p> <p>Answer: None.</p> <p>Question 23: I am trying to see if we can talk to someone at NASA about purchasing the used refrigerant found in these chillers that are being removed. The bidders I have spoken to have told me that NASA is handling the recovery of the gas and that is not part of the bid. Is there a practical way to find out what the plans are for that old gas once it is removed from the equipment that is to be replaced by the winning bidder?</p> <p>Answer: The Alabama Department of Environmental Management (ADEM) requires that the NASA maintain records on old Freon, consequently NASA will maintain the old Freon since they are responsible for it and will not sell it.</p> <p>Question 24: Section 23 21 23-3 Pump Specialty Fittings: Is ductile-iron body correct? What is the brand name for the double suction diffuser?</p> <p>Answer: Ductile iron is correct. Aurora 1030 Series is the basis of design.</p> <p>Question 25: Reference drawing Sheet M7, Section 2; CWS &amp; CWR lines appear to include 24" butterfly valves at elevation 16' 1". These valves do not appear on the Schematic on Sheet M9, nor are they believed to be existing. Please confirm these valves are not part of this project.</p> <p>Answer: The 24" valves are existing but are not part of the project.</p> <p>Question 26: Condenser water Schematic on Sheet M9 includes a connection symbol adjacent to P2A. Please clarify.</p> <p>Continued ...</p>				

**CONTINUATION SHEET**

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	<p>Answer: Connection symbol is an artifact from the background sheet, please ignore for the project.</p> <p>Question 27: Chilled water Schematic on Sheet M10 includes connection symbols at 14" tees on HXR lines from chillers 1, 2, and 3; with RP-3, 7, and 8 notation. No schedule for these devices is found. Please clarify.</p> <p>Answer: Connection symbol is an artifact from the background sheet, please ignore for the project.</p> <p>As a result of this amendment, the hour and date for bids is not extended. Bids are still due on Friday, June 28, 2013, at 2:00 P.M. local time at the Huntsville-Madison County Chamber of Commerce located at 25 Church Street, Huntsville, AL 35810. INCO TERMS 2: Destination</p>				

- D. The Contractor shall provide at his expense all the necessary labor, equipment, and material.

### 3.17 CONSERVATION

- A. All energy consumption and resources shall be conserved to the greatest extent possible by the Contractor. The Contractor is responsible for communicating this requirement to all on-site personnel and for compliance. Energy and resource utilization shall be proactively managed and conservation measures and methods developed and promoted by the Contractor's management and supervision.
- B. Temporary lighting shall be divided into switchable areas of relatively small size to promote and achieve energy conservation to the satisfaction of the Government. Lighting shall be off unless absolutely necessary to accomplish the work at hand. Lighting for security purposes only shall be minimized and other non-energy consuming methods employed to the greatest extent.
- C. Recyclable materials (e.g. aluminum cans, white paper, cardboard, metals, etc.) shall be diverted from the waste stream and delivered to the appropriate off-site, off-Center recycle center by the Contractor as indicated. For Leadership in Energy and Environmental Design (LEED) projects, see other specification sections for more stringent requirements.
- D. All cardboard materials shall be flattened, consolidated, and recycled. Cardboard may be delivered to the Center's cardboard recycling location.

### 3.18 ~~JOBSITE TRAILER (FOR GOVERNMENT)~~

This paragraph is not applicable to solicitation #NNM13ZPS004E.

- ~~A. Contractor shall provide an approximately 500 square foot trailer at the jobsite for use solely by the Government and government representatives. Contractor shall provide the original and four copies of the keys to the trailer; no one else shall have a key to this trailer. Trailer shall be heated and cooled and custodial services shall be provided at least once per week. Trailer is to be located adjacent to the superintendent's trailer. A refrigerator with at least 14 cubic feet and potable water shall be provided for sole use by the Government. Trailer shall be divided into four (4) rooms: an office at each end, a restroom equipped with sanitary sewer services including running water, and a common area in the middle for drawings, files, and small meetings. Submit layout drawing for COTR's review and approval.~~

### 3.19 FEDERAL AVIATION ADMINISTRATION (FAA) REQUIREMENTS

- A. The Contractor shall comply with all applicable FAA regulations, particularly FAA AC 70/7460-1.
- B. The Contractor shall provide all notices to the COTR in writing in order for the Government to assist the Contractor in meeting the applicable FAA regulations. The FAA requires multiple notifications and submission of forms then approval for any work including cranes above the ground over a certain height from ground level at the construction site (height limit). The Contractor shall know the current regulations and provide the notifications to meet these regulations using the 100 to 1 slope from the Redstone Army Airfield. The Contractor shall determine the requirements and any potential project impacts (both schedule and cost) prior to

LOOSE/LOOSE SCHEDULE

UNIT	LOCATION	TYPE	SERVICES	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
11	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
12	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

ELECTRIC LOAD SCHEDULE

UNIT	LOCATION	TYPE	SERVICES	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
412	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
413	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

MECHANICAL EQUIPMENT SCHEDULE

UNIT	LOCATION	TYPE	SERVICES	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
412	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
413	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

ELECTRIC LOAD SCHEDULE

UNIT	LOCATION	TYPE	SERVICES	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
412	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
413	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

NOTE:  
1. VARIABLE FREQUENCY DRIVE (SEE ELECTRICAL)  
2. UNIT RATED VOLTAGE FREQUENCY DRIFT

MECHANICAL EQUIPMENT SCHEDULE

UNIT	LOCATION	TYPE	SERVICES	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
412	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES
413	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

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413	MECH LOBBY	HEAT RECOVERY	HEAT RECOVERY	W	H	CM	PHASE	ACTIVATION TYPE	VOLUME	CONTROL	NOTES

NOTE:

NOTE:  
1. ALL LOUVE BATTERY VALUE (100 IS STANDARD) - SEE STAKEAS NOT SHOWN AND SPECIFIC UNIT - UNIT CLASSIFICATION.  
2. SPECIFIC UNIT CLASSIFICATION IS SUBJECT TO CONTRACT DOCUMENTS.  
3. MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE SECOND SCHEDULE.  
4. MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE SECOND SCHEDULE.

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APPROVED FOR DISTRIBUTION  
IDENTITY REQUIREMENT  
DIFFERENTIAL

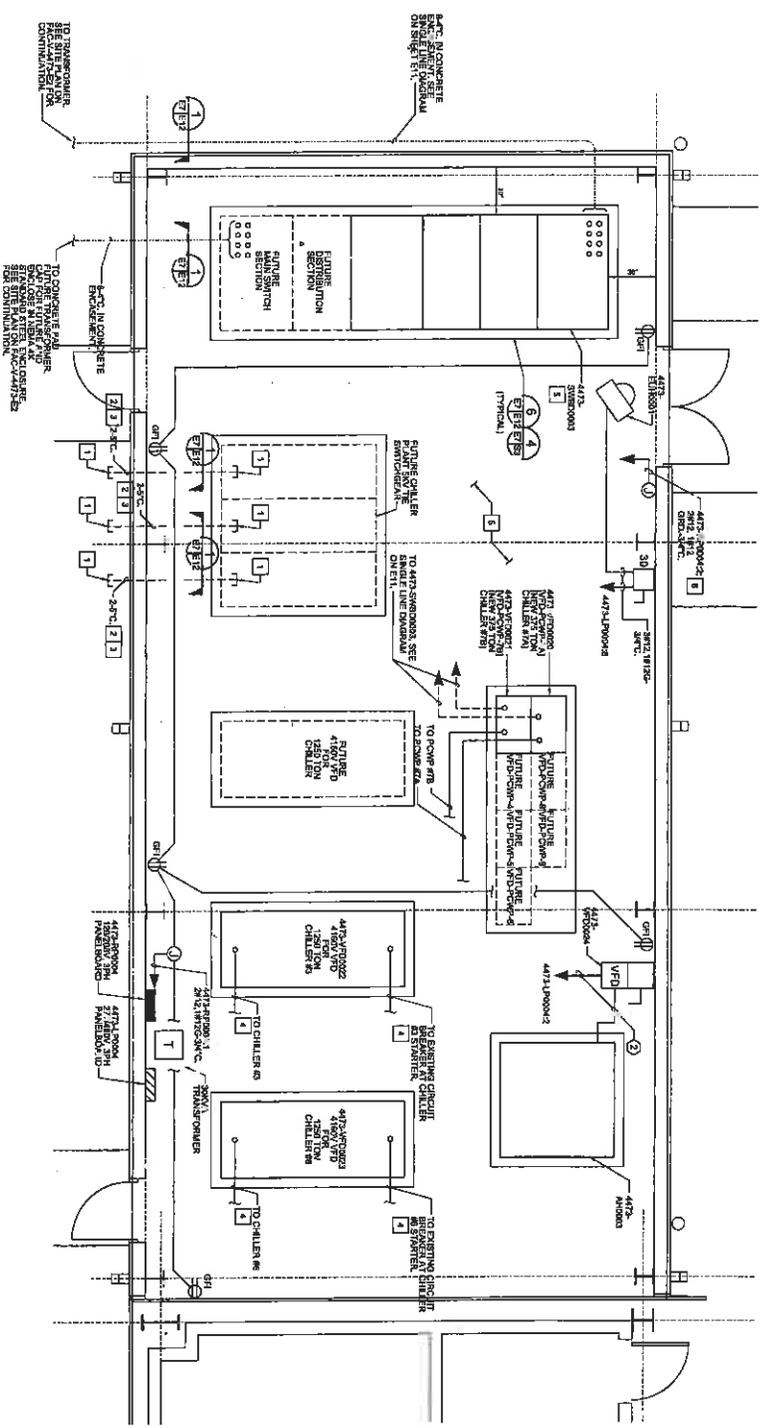
DATE: 13 OF 16



MECHANICAL EQUIPMENT SCHEDULE  
REVITALIZATION/REPAIR OF CENTRAL  
CHILLED WATER SYSTEM (4473)

DESIGNED BY: [Name]  
CHECKED BY: [Name]  
DATE: [Date]

PROJECT NO. 4473-116  
SHEET 31 OF 81



ENLARGED POWER PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 A. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH PROOF OF COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA).  
 B. REFER TO DWG. E11 FOR CIRCUIT INFORMATION NOT SHOWN ON THIS DRAWING.  
 C. REFER TO DWG. E11 FOR WIRE AND CONDUIT SCHEDULE.

- KEYED NOTES:**
1. EXCEPT AS NOTED, ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH PROOF OF COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA).
  2. 4" BELOW FINISHED GRADE.
  3. CONDUIT TYPE BR40C.
  4. UTILIZE ALUMINUM CONDUIT.
  5. SEE SCHEDULE LINE DESIGNATION ON SHEET E11 FOR CONDUIT WIRE QUANTITIES AND CROSS SECTIONAL AREA.
  6. EXCEPT AS NOTED, ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH PROOF OF COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA).
  7. EXCEPT AS NOTED, ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH PROOF OF COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA).
  8. EXCEPT AS NOTED, ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH PROOF OF COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARMS CODE (NFPA).

REVISED FOR REVISION  
 DATE: 12/27/12  
 BY: J. D. WATSON

DATE: 12/27/12  
 BY: J. D. WATSON

NO.	DATE	DESCRIPTION	BY	CHECKED
1	12/27/12	ISSUED FOR CONSTRUCTION	J. D. WATSON	J. D. WATSON
2	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
3	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
4	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
5	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
6	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
7	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
8	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
9	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON
10	12/27/12	REVISED FOR REVISION	J. D. WATSON	J. D. WATSON

Marshall Space Flight Center  
 Huntsville, Alabama 35812

ENLARGED POWER PLAN

REVITALIZATION/REPAIR OF CENTRAL  
 CHILLED WATER SYSTEM (4473)

PROJECT NO. 4473  
 SHEET 28 OF 31