OMB Approval 2700-0042

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Amendment # 2	23JUL09	N/A	

6. ISSUED BY CODE

NASA DRYDEN FLIGHT RESEARCH CENTER
PO BOX 273/D-1422/A/JMH
EDWARDS, CA 93523-0273

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No. Street, county, State and ZIP: Code)*

TO ALL BIDDERS

CODE FACILITY CODE

(X) 9A. AMENDMENT OF SOLICITATION NO.
NND09284906E

X 9B. DATED *(SEE ITEM 11)*
June 25, 2009

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 13)*

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 ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA 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 data specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*
N/A

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

(X)		
	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 Amendment #2 is to:

1) Provide answers to submitted questions (see pages 1-10 and sketches SK-1 through SK-7, attached),
2) Modify contract drawing Sheet C-4, Utility Plan, and,
3) Extend the bid opening date to 04AUG09. Bid Opening time and location remain unchanged.

Except at 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)*	
15B. CONTRACTOR/OFFEROR _____ *(Signature of person authorized to sign)*	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ *(Signature of Contracting Officer)*	16C. DATE SIGNED

Response to Pre-Bid RFI's for the Construct Information Technology Center (CITC) Project
Solicitation# NND09Z0A001E-JMH, **AMENDMENT NO. 2, dtd 7/23/2009**

No.	RFI	Response
1.	There are doors that are noted in the Remarks column of the door schedule to be an Electric Security Door. However, some of the doors noted as an electric security door are specified with a hardware set that does not have any electric hardware products. Please advise if; a) there is electric security equipment in another section to cover this requirement, or b) if the hardware set needs to be revised, or c) the note needs to be removed.	Door #102 should be hardware set #15. All other doors noted to have electronic security hardware are identified correctly.
2.	The Electric Security Door note calls for doors specified with Electric Strike to have a Ceiling-Mounted Request-To-Exit (RX) device. However, the ceiling RX product is not listed in the hardware sets that have electric strikes. Please advise if; a) the ceiling RX product is in another section to cover this requirement, or b) if the hardware set needs to be revised to add the RX unit.	Junction boxes for ceiling-mounted request-to-exit motion detection devices are required at all electronic security doors. NASA will provide request-to-exit devices, cameras, and card readers, with the exception of doors 100 and 116B. The request-to-exit devices in these doors are included in the hardware sets, and shall be provided by the contractor.
3.	If the Ceiling-Mounted Request-To-Exit device is to be added to the hardware sets, then please advise if; a) the RX unit is intended to be a motion detector that will send a signal that there is a person in front of the door, or b) the remark will be improved to provide a better description or a product number to use as a standard. (For clarification, the Request-To-Exit feature on hardware products is simply a signal switch feature that signals when the hardware is activated. It does not indicate an actual request that needs to be answered before allowing exiting.)	Request to exit feature is motion/person detector only, not request/response system. See response to #2 above.
4.	Door 123 does not have a hardware set specified. Please advise what hardware set will be required at this door.	Door 123 at the DAF exterior is a replacement for the existing electrical room door and shall reuse the existing hardware set.

No.	RFI	Response
5.	Doors 003, 004 & 005 are specified with frame detail 11, which indicates acoustical hardware (seals, door bottom & threshold). However, there is nothing on the door schedule that indicates the door and frame are to be "acoustical" door with an STC rating. (Section 0181400-2.1.2 species that acoustical doors are to be STC 45, however, the door is not specified as an acoustical door.) Please advise if the openings are to have an STC rating.	Doors 003, 004 & 005 are acoustical doors and shall meet STC 45 per the specifications.
6.	Hardware sets 1, 2, 5, 7 & 12 have a coordinator specified. However, the hardware in those sets do not indicate that both door leaves will automatically unlatched upon exiting (such as automatic flush bolts or panic hardware on both leaves), and require the door leaves close in the proper sequence (which is the purpose of a coordinator). Please advise if the hardware specified needs to be revised to allow automatic unlatching, or if the coordinator should be deleted. (Note: Hardware Sets 1 &7 have vertical rod exit devices that allow both door leaves to operate independently. HW Set 2 & 12 have manual flush bolts. HW Set 5 is only specified at single doors.)	The coordinator shall be eliminated from hardware sets 1 & 7. It is required in sets 2 & 12 to ensure the inactive leaf closes prior to the active leaf. Hardware set 5 does not specify a coordinator.
7.	On plan sheet A17.1 has exiting elevator modifications to be incorporated into the project. What is the name of the elevator manufacture and installer of the existing elevator?	The DAF elevator was manufactured by Inland Elevator Co. Ltd. And installed by Cal West and updated in 2007 by Amtech Elevator Services.

No.	RFI	Response
8.	In specification section 014502 paragraph 1.5.1.2 QC Managers Qualifications states "A graduate of a four year accredited college or university program in one of the following disciplines: Engineering, Architectural, Construction Management, Engineering Technology, Building Construction, or Building Science, with a minimum of 10 years experience as a Project Superintendent, QC Manager, Project Manager, Project Engineer or Construction Manager on similar size and type construction contracts which included the major trades that are part of this contract. Is the graduate of a four year accredited college or university program in one of the following disciplines: Engineering, Architectural, Construction Management, Engineering Technology, Building Construction, or Building Science a hard requirement?	An individual with a minimum of 15 years experience in construction management of comparable projects would be an acceptable substitution for the degree requirement.
9.	There are no written specifications for the installation and requirements in any of the documents for the communication systems.	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.
10.	Drawing- Electrical Legend E1 shows a combination data/voice symbol with no information as to type of cable or number of data/voice per location. Drawing-Site Plan E2 shows pull box locations but no information is given on the requirements for fiber or copper.	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.
11.	Drawing-First Floor power plan E3 shows (26) combination symbol locations and (2) Phone (?? Solid triangle not on legend sheet) locations. Need communication requirements.	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings. The solid triangle is a phone jack.
12.	Drawing-First Floor power plan E3 shows a computer lab and general lab with rows of racks. No information is given on requirements for material or design of labs.	Telephone and data wiring and equipment/racks are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.

No.	RFI	Response
13.	Drawing-First floor power plan E3 shows a communication vault in electrical room 114. No information is given as to requirements.	Communications vault is existing. See note #42 on Sheet E3.
14.	Drawing-Second Floor power plan E4 show (74) combination symbol locations. Need communication requirements. It looks like this floor is primarily modular furniture.	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.
15.	Is this building going to tie into a main copper or fiber location in another building?	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.
16.	I was looking over the documents for this project and wanted to know if the Siemens System was the only DDC Controls System you would Accept. Edwards Air Force Base has long been a BACnet Campus that Utilizes the Alerton Technologies Control System. We at Climatec have the Ability to integrate the Existing Siemens System and bring it into a BACnet environment. I would like to bid this project utilizing the Alerton BACnet System Along with Tridium Niagara AX Platform for integration. Please let me know if this is acceptable.	Siemens DDC controls are required to be used in all facilities at NASA Dryden.
17.	Is there an ATFP (Anti-Terrorism Force Protection) requirement, per UFC 4-010-01, on this project? Note: I see there is a laminated glass requirement on the window schedule and specifications, but the laminated glass alone does achieve the necessary blast protection to meet ATFP requirements. Should we supply materials meeting ATFP requirements?	DoD Minimum Antiterrorism Standards for Buildings (UFC 4-010-01) is not a required standard for this project, but laminated glass is required as shown.

No.	RFI	Response
18.	Note 6 on 2/S2.2 specifies 4" walls while the architectural plans state 3 5/8" walls. Are we to use 4" wall material or 3 5/8" material?	Partitions shall use 3 5/8" metal studs where shown the wall type details on sheet A6.2, and as listed in the chart in detail 2/S2.2. Note 6 in detail 2/S2.2 applies only to the materials listed (4", 6" and 8" studs and tracks, where specified) but does not apply to the use of 3 5/8" studs.
19.	Wall types for common walls of rooms 105/107 107/108 124/116 210/211. What wall types are to be used at these locations?	Wall types for the common walls are as follows: 105/107, 124/116, 210/211 – Type 'A'. The plumbing walls between 107/108 and 210/211 are double walls, each similar to type 'A' with g.w.b. on finished room interior side only, with 12" outside dimension.
20.	If walls is not designated a wall type, what shall be the default wall type?	As shown on sheets A2.0 and A2.1, interior partitions are Type 'A' unless otherwise noted. Plumbing walls between restrooms are as described in response to #19 above. Partitions between room 202 and offices 203, 205 and 207 are type D, as shown in the adjacent offices.
21.	Rooms 210 and 201 both have wall type Q designated, wall legend does not have a wall type Q	Type Q is shown in wall type details on sheet A6.2.
22.	Is there specification for the access control systems, video security system and intrusion system. What are the minimum requirements?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings.
23.	What system manufactures is currently used for the access control and video system at other sites?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings.
24.	Will the building's CCTV and surveillance system be administered locally or at another location?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings.
25.	What are the requirements for "recorded event" storage?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings.
26.	Would analog or IP video cameras be preferred?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings.
27.	Is the Door Hardware Contractor or the Security Contractor responsible for providing the electrified door locking hardware?	Door hardware as shown on the door schedules A7.0 and A7.1 are to be provided as a part of the contract. Access control, video security and intrusion systems are to be installed by NASA and are not in contract.

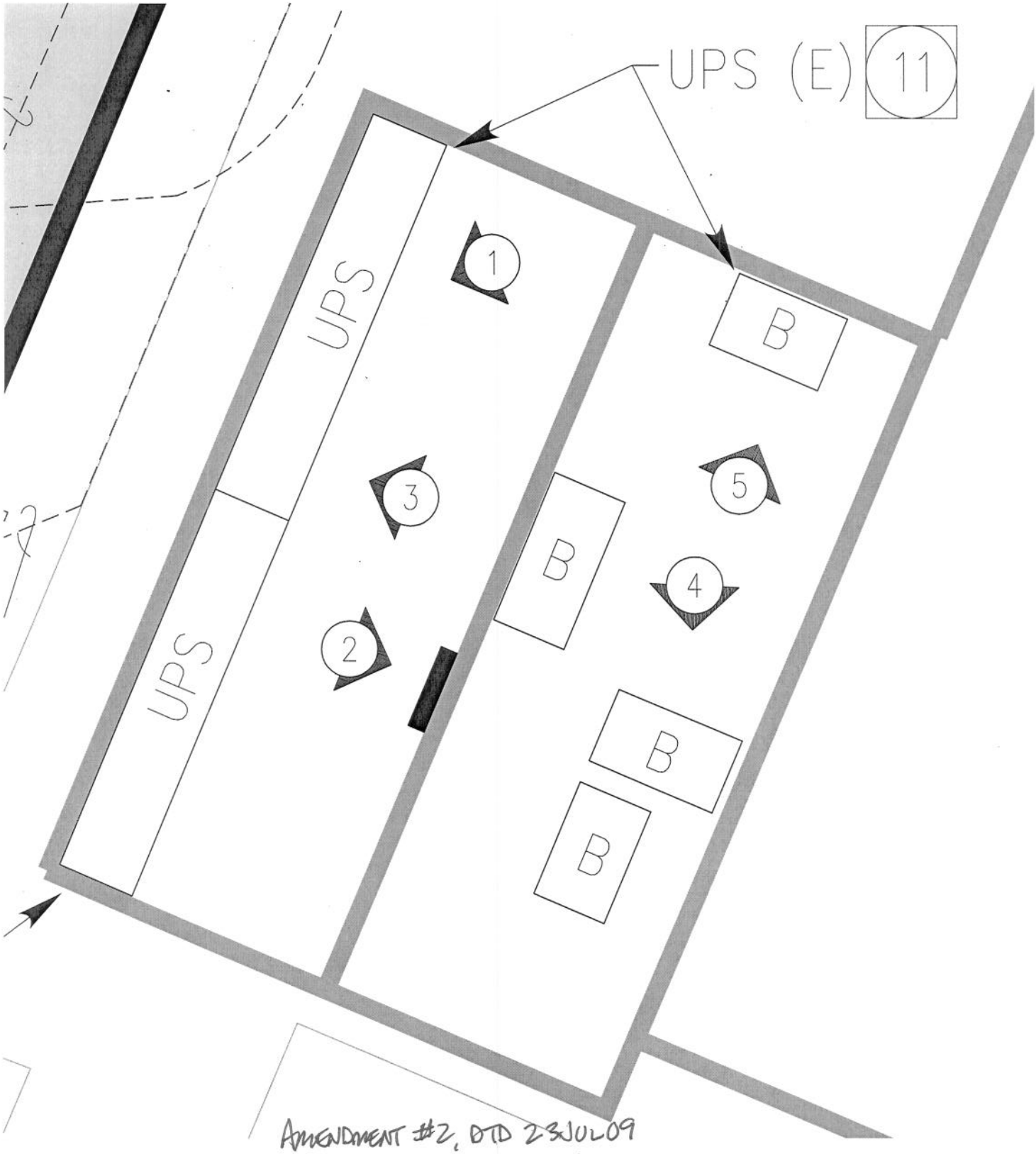
No.	RFI	Response
28.	Will there be a compiled list of RFI's posted on the website?	The RFI list is compiled from all RFIs received and posted on our solicitation website.
29.	We have found the communications cable tray and rough-in boxes, but no reference to the wire except for a pull string. Is NASA performing the telephone / data line wiring in house?	Telephone and data wiring and equipment are not in contract and are to be provided by NASA. Conduits, outlet boxes and other I.T. infrastructure are to be provided by contractor as shown on drawings.
30.	We need the manufacturer and model of the existing fire alarm control panel.	The existing fire alarm control panel in the DAF Building 4838 is a Simplex model 4120.
31.	We need the manufacturer and model of the elevator.	The DAF elevator was manufactured by Inland Elevator Co. Ltd. And installed by Cal West and updated in 2007 by Amtech Elevator Services.
32.	In reference to specification 05 12 00 Structural Steel section 1.5 AISC Quality Certification. The section 1.5 states that work shall be fabricated in an AISC certified Category Sbd fabrication plant. Is a City of Los Angeles approved fabricators license acceptable in lieu of the AISC certification?	Work shall be fabricated as specified in the specifications.
33.	Note #2 "Provide new circuits in conduit to relocated cooling tower and pump". Power requirements and details for this scope of work have not been provided. Provide specific requirements for pricing.	Scope of work is as listed on drawings. Relocation of existing circuits for equipment is listed on drawings.
34.	Sheet E1 - General Note #17 requires all exterior mounting hardware and channels to be 316 stainless. Does this include entire support assembly structure, stanchions and components for overhead support of electrical conduits and mechanical piping as noted for relocation of cooling tower as well as well as panel support stanchions and conduits racks on roof for mechanical equipment? Please provide detail drawings and information for these assemblies.	Electrical conduit will be routed on same support as this mechanical piping.

No.	RFI	Response
35.	Sheet E2 - Note #2 "Existing UPS control and battery cabinets to be relocated to substation #26". Existing UPS and battery equipment description, details and photos have not been included in drawings for project documents. This scope of work cannot be determined without additional information	All UPS and associated equipment in existing substation is to be relocated. Per sheet E2, there are (2) UPS units (EPS 7000) to be relocated and there are 4 battery cabinets (2) battery disconnects and battery monitor panel to be relocated to substation 26. The layout is shown and noted on sheet E10. We are attaching pictures of all the equipment for contractors use (See SK-1 to SK-6, attached). Contractor shall also confirm with NASA the phasing of the relocation of all equipment as to allow no interruption to service.
36.	Sheet E2 - Note #12 "Relocate existing pullbox and extend lift station feeder conduit". This notation addresses the line side of this feeder on the drawings but does not indicate how to deal with the load side conduit and feeders when relocating the surface mounted junction on the wall. It is assumed that this junction box has conduits that penetrate through the wall into the building. How are these conduits to be relocated with the junction box?	Conduit pullbox to be relocated as indicated on sheet E2, note #12 and sheet E23, notes #3 and #4. Refer to sheet E23, note #4 for load requirements.
37.	Sheet E3 - Note #42 "Provide new rim and flush mounted mount doors on existing communication vault". Vault size, manufacturer, model or description has not been provided. Provide new rim and door specifications, description or manufacturer and model.	Communications vault cover doors are to be manufactured based on field measurements of existing vault, and set into new finished floor slab. Shop drawings are required. See SK-7 attached, which replaces detail 8 on sheet A18.
38.	Sheet E3 - Note # 20 "Install and connect owner supplied generator alarm annunciator panel and emergency "off" switch". Manufacturer information and installation requirements are not provided for this scope. Supply installation and termination requirements.	Location of alarm panel to be as indicated on drawing. Connect to generator per manufacturer's requirements. Generator manufacturer to be "Cummings".

No.	RFI	Response
39.	Sheet E8 - Note #2 "Install circuits and conductors per UPS manufacturer written instructions". These instructions are included with the project documents leaving scope unknown. Plans show 600amp battery disconnects. Are these new or part of existing UPS equipment? If new, are they provided by UPS vendor or to be included in electrical contactors scope of work	600AMP Battery disconnect is existing to be relocated per sheet E10.
40.	Sheet E8 - New distribution loads fed from existing main switchboard "MSG" show connection to circuit breakers that are not indicated as either "N" new or "E" existing. Breakers show subscript "LSI", what does this mean? Identify whether these breakers are existing in place or to be provided and installed by contractor. If required to be provided and installed by contractor provided manufacturer model, AIC rating and all of other pertinent information for accurate pricing.	LSI = long, short and instantaneous setting for circuit breaker. MSG (located in substation #26) circuit breakers are existing.
41.	Sheet E8 - Single line diagram does not specify manufacturer of existing in place electrical distribution. Will new distribution equipment be required to match existing?	No specific manufacturer required for new equipment.
42.	Sheet E11 - Note #1 indicates ground system riser diagram sheet E-16 detail no.1. Sheet E-16 is the listing of panel schedules and does show the riser diagram. Is this note referencing the grounding diagram on sheet E-18 or there additional grounding information?	E18 is the correct sheet reference.

No.	RFI	Response
43.	Sheet E18 - Note #2 "Provide ground wire connection to local metal piping, ducts and structural members penetrating computer room wall, floor or ceiling". This notation is vague and does not specify ground wire size and number of connections allow per individual conductor. Quantity of metallic objects in room required to be grounded is unspecified and unable to be accurately determined due to the vague nature of the note and lack of equipment grounding schedule showing quantity of items to be grounded. Provide clear identification of items to be grounded in this system. Are ground cables to be installed exposed or in non-metallic conduit system throughout?	Ground cables to be routed exposed. Quantity to be coordinated with other trades during construction.
44.	Sheet E24 - Note #1 "Provide new light fixtures as shown to match existing". Description and specifications of existing light fixtures have not been provided and are required for pricing.	Price new 2x4 lay-in, 2-lamp, prismatic "premium" troffer light fixtures.
45.	Tele / Data cabling and systems backbone are not shown on project drawings. Is this installation scope NIC for this project and to be performed by others?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings
46.	Security system and CCTV components are not shown on project drawings. Is this installation scope NIC for this project and to be performed by others?	Access control, video security and intrusion systems are to be installed by NASA and are not in contract. Only conduit, junction boxes and infrastructure shown on drawings are included, as shown on drawings
47.	Fire alarm layout is shown for DAF remodel portion of project but is not included for new construction of Consolidated information technology center. Mass notification is not shown at all. Is this installation scope NIC for this project and to be performed by others?	Fire Alarm for CITC to be design-build per specifications and sheet FA1.0.

No.	RFI	Response
48.	On the Bid options for the SCIF and the raised floor, what are we to provide in lieu of these options. Is our price to reflect a difference in cost for standard construction verses the options? Please provide some clarification for the bid criteria.	For Option 6, the SCIF at room 103, the bid in lieu of this option shall be conventional construction (substitute wall type 'A' for 'M', type 'J2' for 'N', door type 'B'for 'R', hardware set 3 for 14, eliminate duct silencer ST-5 and ST-6 and detail 10/M10). For Option 5, raised access floor, the option shall reflect the purchase and installation of the raised access floor system components only, as opposed to owner provided/owner installed raised access floor. No modification to other elements of the design (i.e. structural slab or mechanical systems) shall be implied.
49.	I didn't see a detail on sheet A 15 for door entrance signage at interior rooms. Should we include a price for these items as well?	Option 4, building signage, should only include the elements directly identified on the drawings.
50.	Are PDUs 1, 2, 3, and 4 located on a raised floor?	PDUs 1 and 2 are located on a raised floor. PDUs 3 and 4 are located on the finished floor.



AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #35

DEVELOPMENT ONE, INC.
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SK-1 – EXISTING UPS LAYOUT

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

SCALE: N.T.S.

DATE: 7/23/09

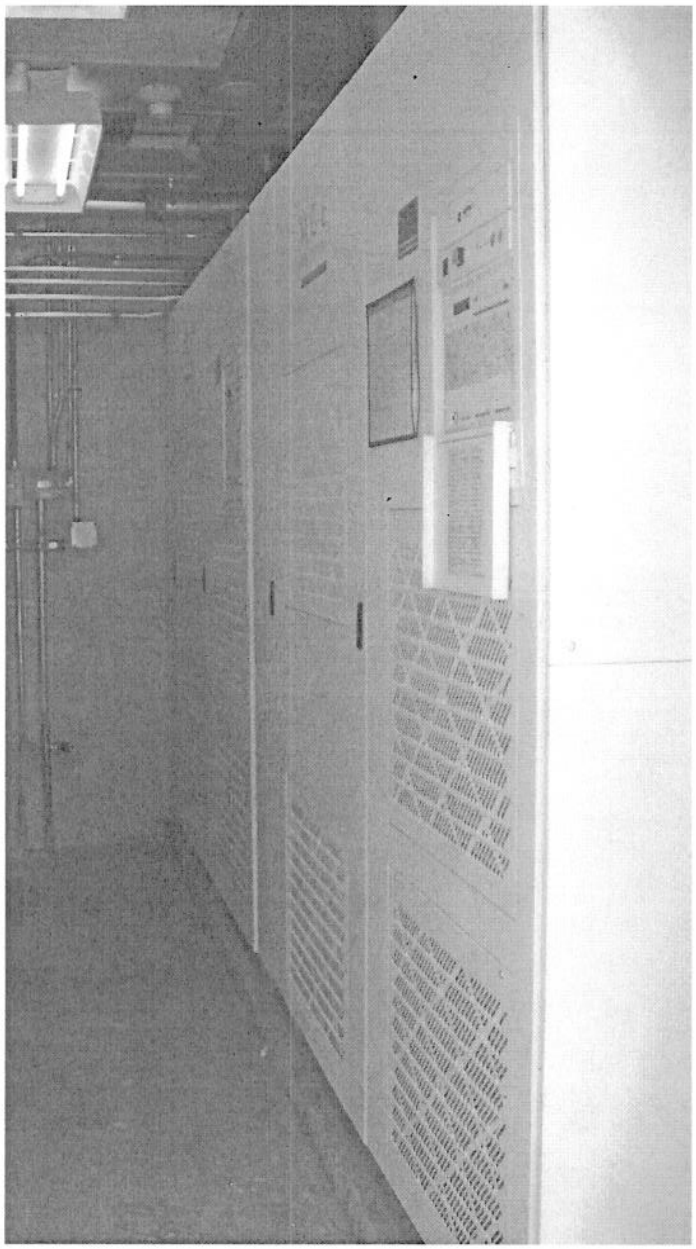

PHOTO 1

UPS EQUIPMENT TO BE RELOCATED (2) UPS & (1) TRANSFER SWITCH MGE EPS 7000 UPS SYSTEM.

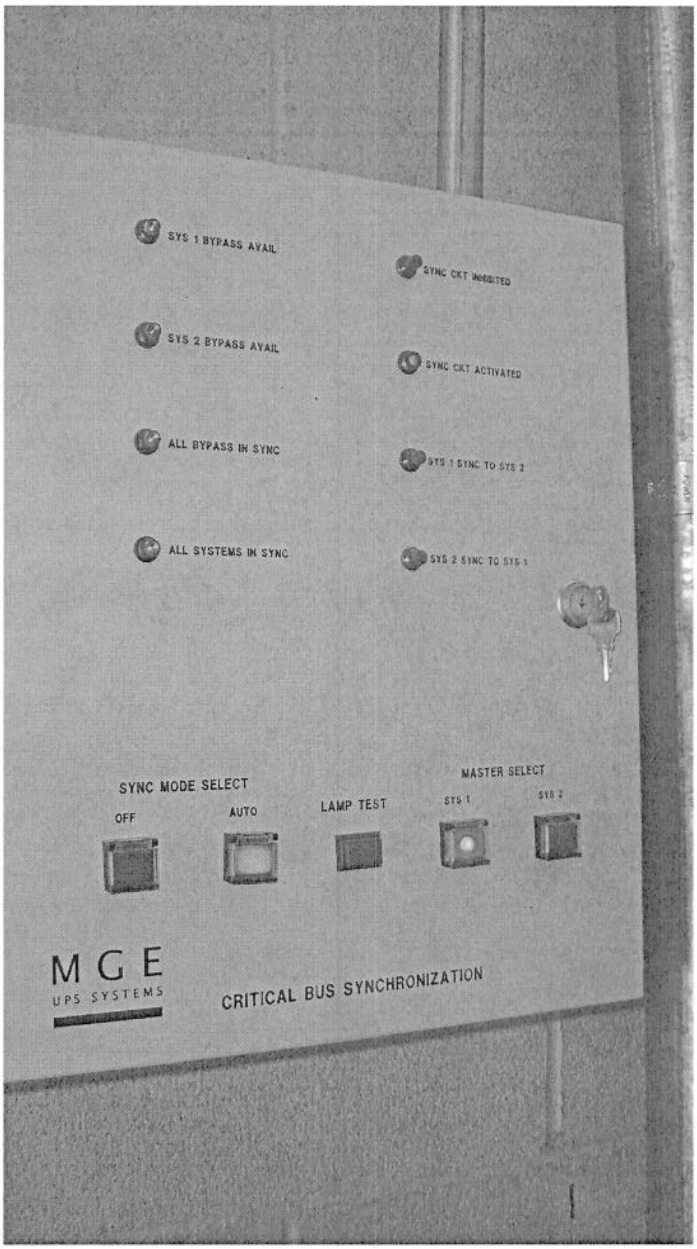

PHOTO 2

AMENDMENT #2, DTD 23JUL 09
RESPONSE TO QUESTION #35

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SK-2 – PHOTO DETAILS

SCALE: N.T.S.

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

DATE: 7/23/09

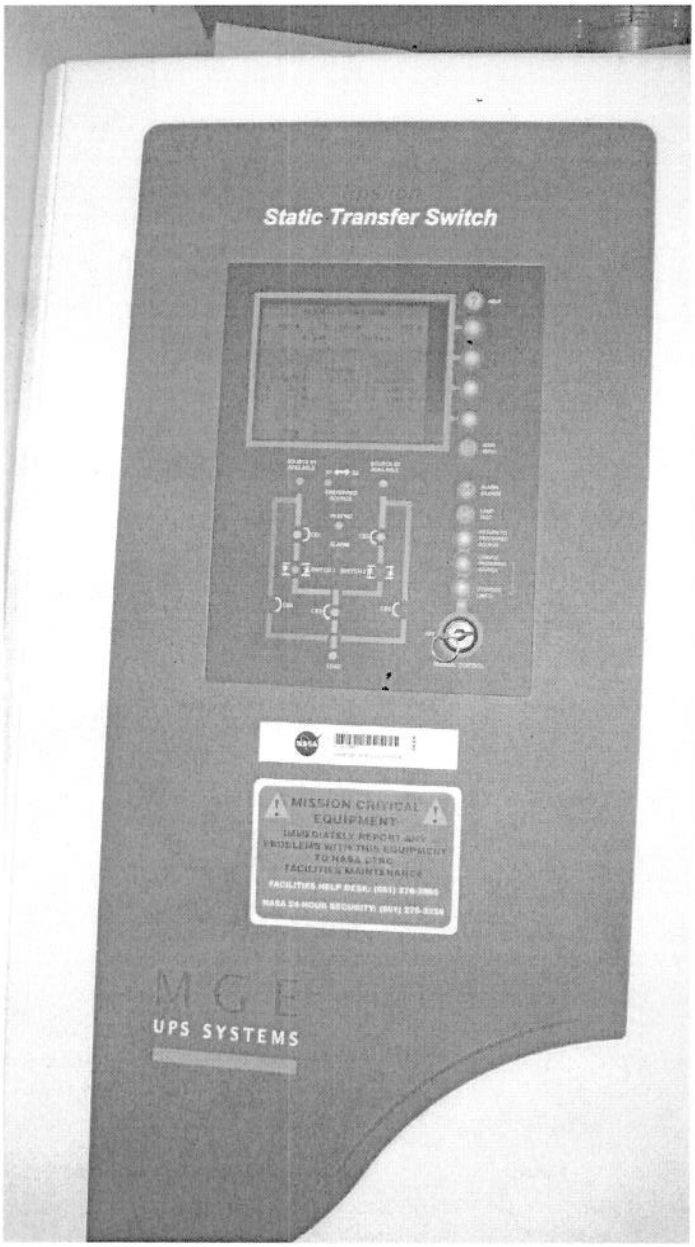

PHOTO 3
TRANSFER SWITCH TO BE RELOCATED.

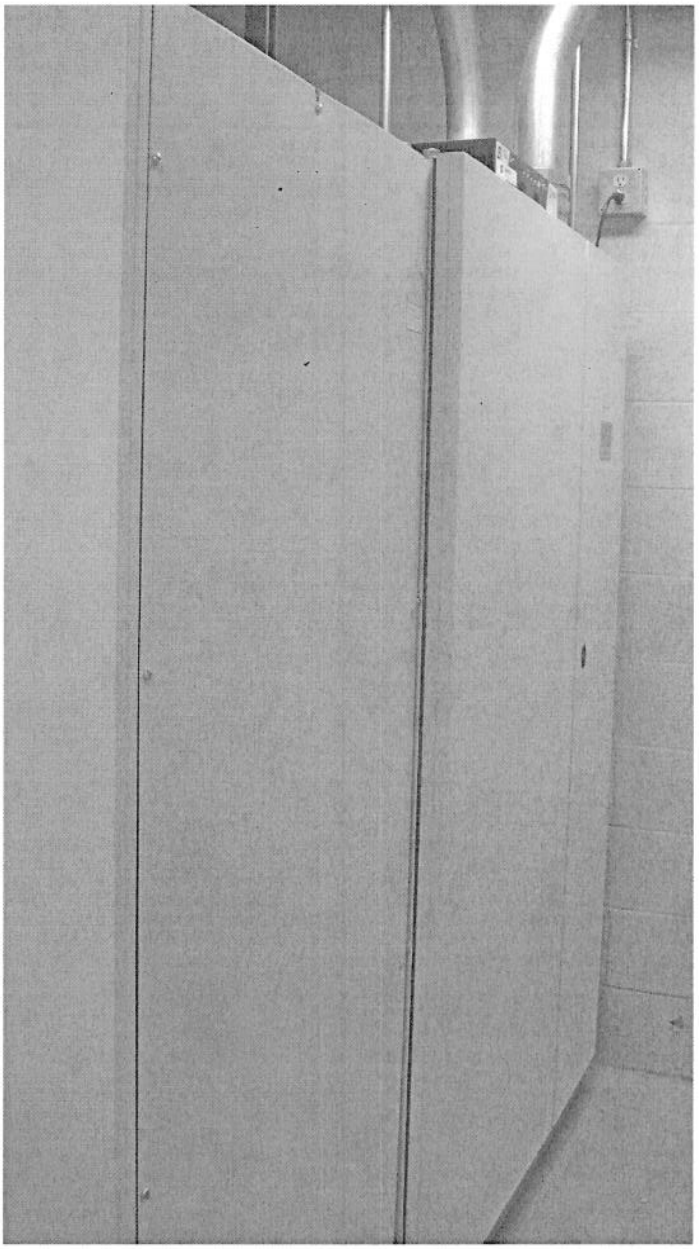

PHOTO 4
BATTERY CABINET TO BE RELOCATED (TYP)

AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #35

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SK-3 – PHOTO DETAILS

SCALE: N.T.S.

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

DATE: 7/23/09

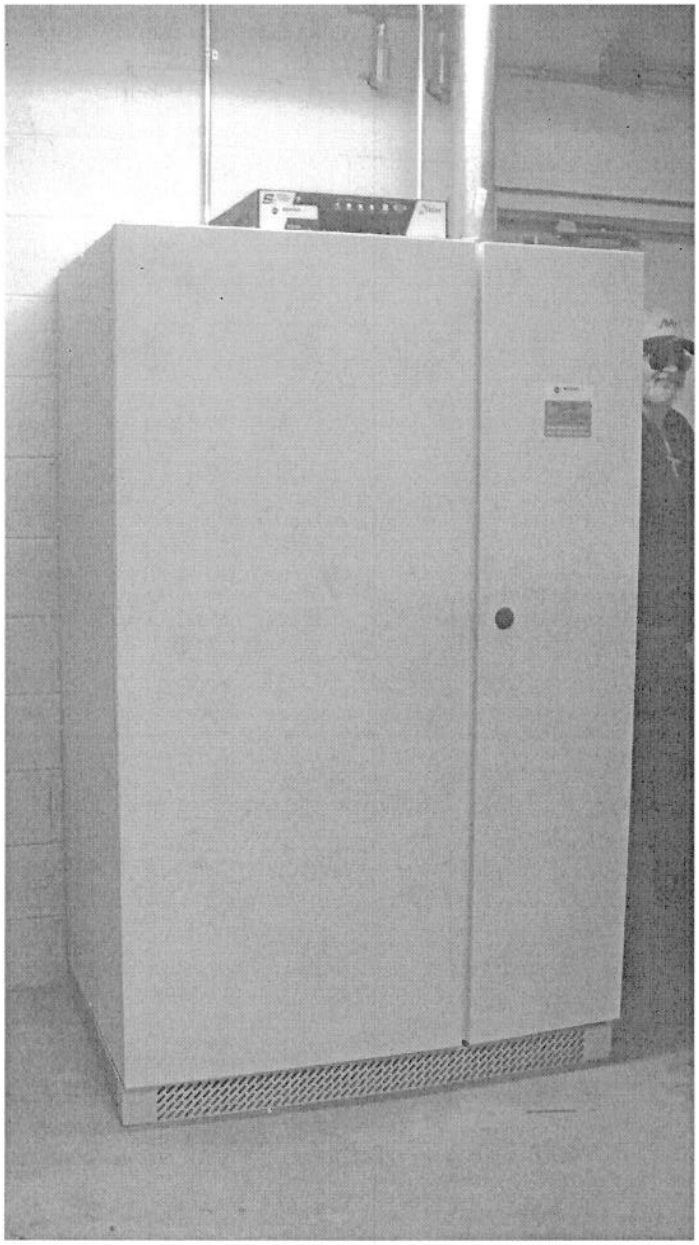

PHOTO 5
BATTERY CABINET TO BE RELOCATED (TYP)

AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #35

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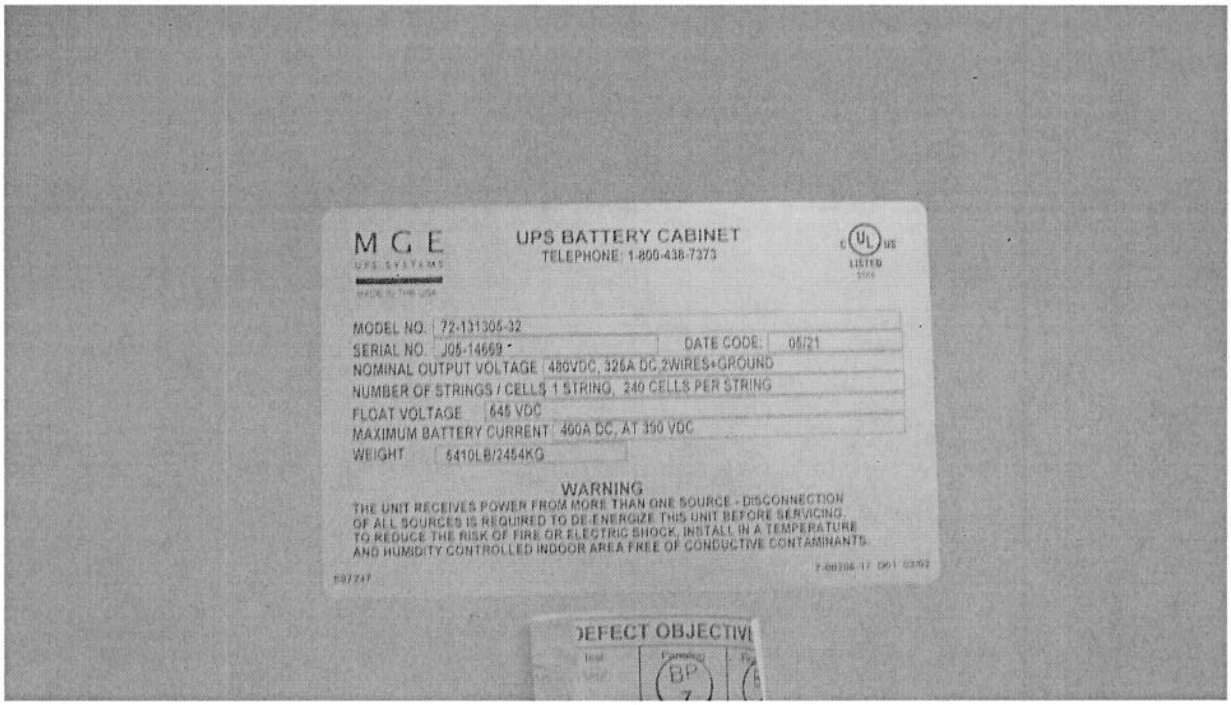
SK-4 – PHOTO DETAILS

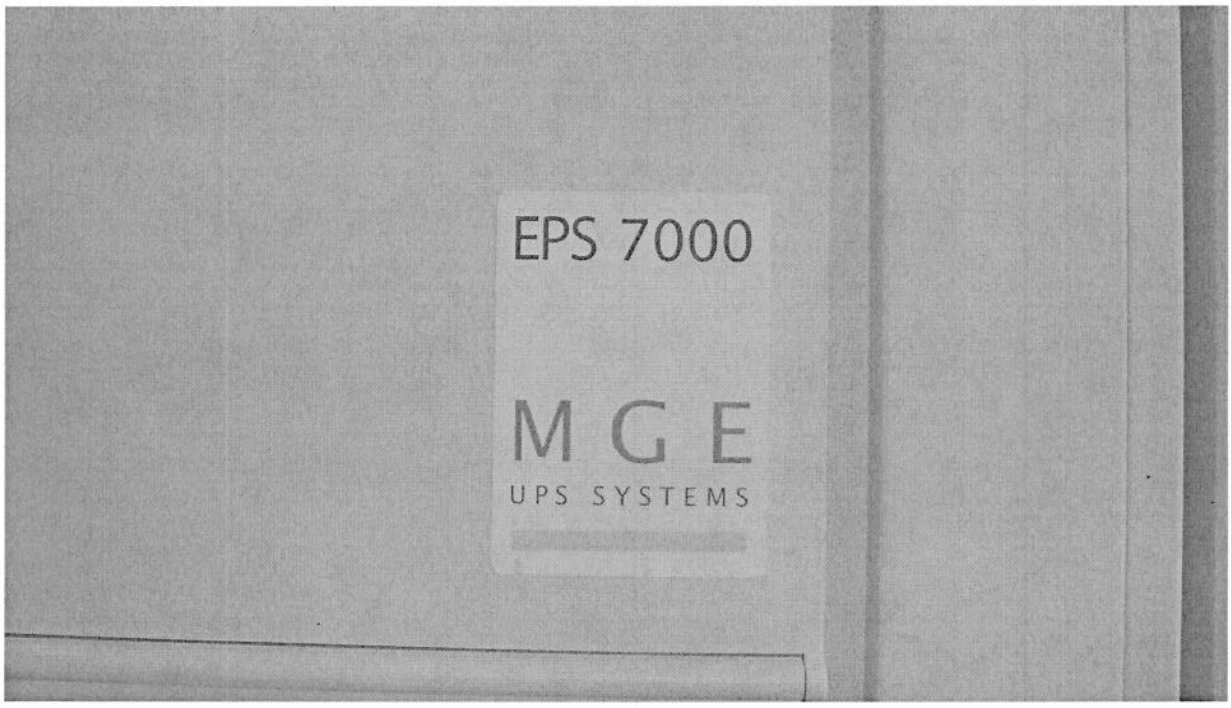
SCALE: N.T.S.

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

DATE: 7/23/09



BATTERY CABINET MODEL NUMBER



UPS SYSTEM MODEL NUMBER

AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #35

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SK-5 - PHOTO DETAILS

SCALE: N.T.S.

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

DATE: 7/23/09

BATTERY CABINET INSIDE PANEL

AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #35

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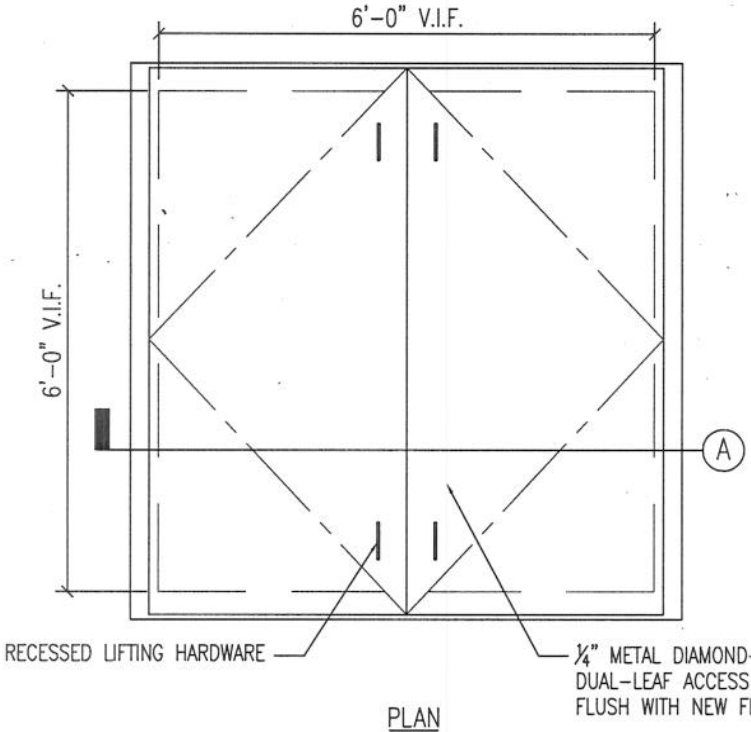
SK-6 – PHOTO DETAILS

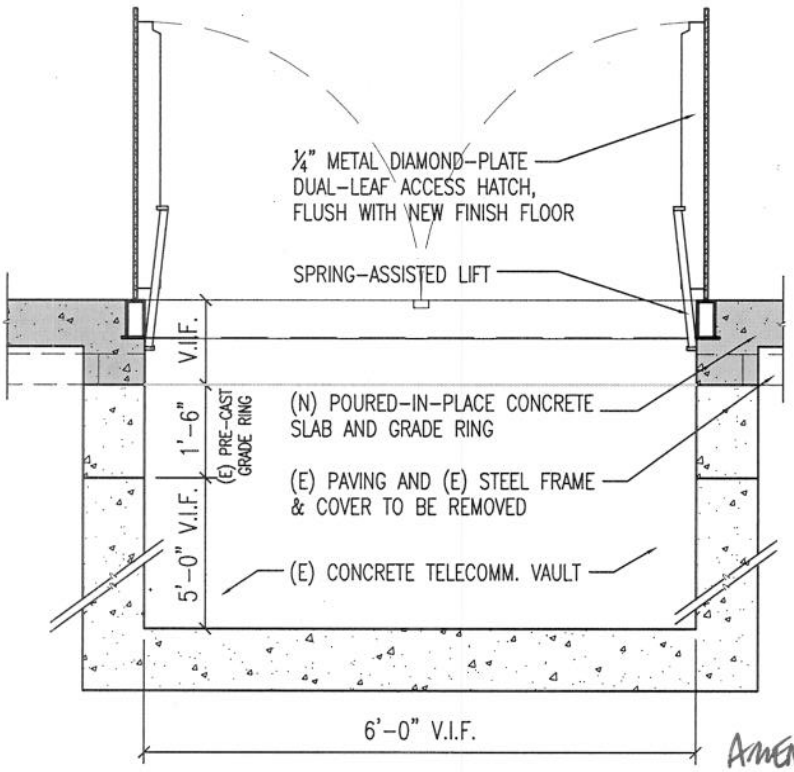
SCALE: N.T.S.

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

DATE: 7/23/09



PLAN



SECTION A

NOTE: VERIFY ALL DIMENSIONS IN FIELD. SHOP DRAWINGS ARE REQUIRED FOR ACCESS HATCH PRIOR TO MANUFACTURE. L.W. PRODUCTS ACCESS HATCH "TYPE D," OR APPROVED EQUAL.

AMENDMENT #2, DTD 23JUL09
RESPONSE TO QUESTION #37

DEVELOPMENT ONE, INC.
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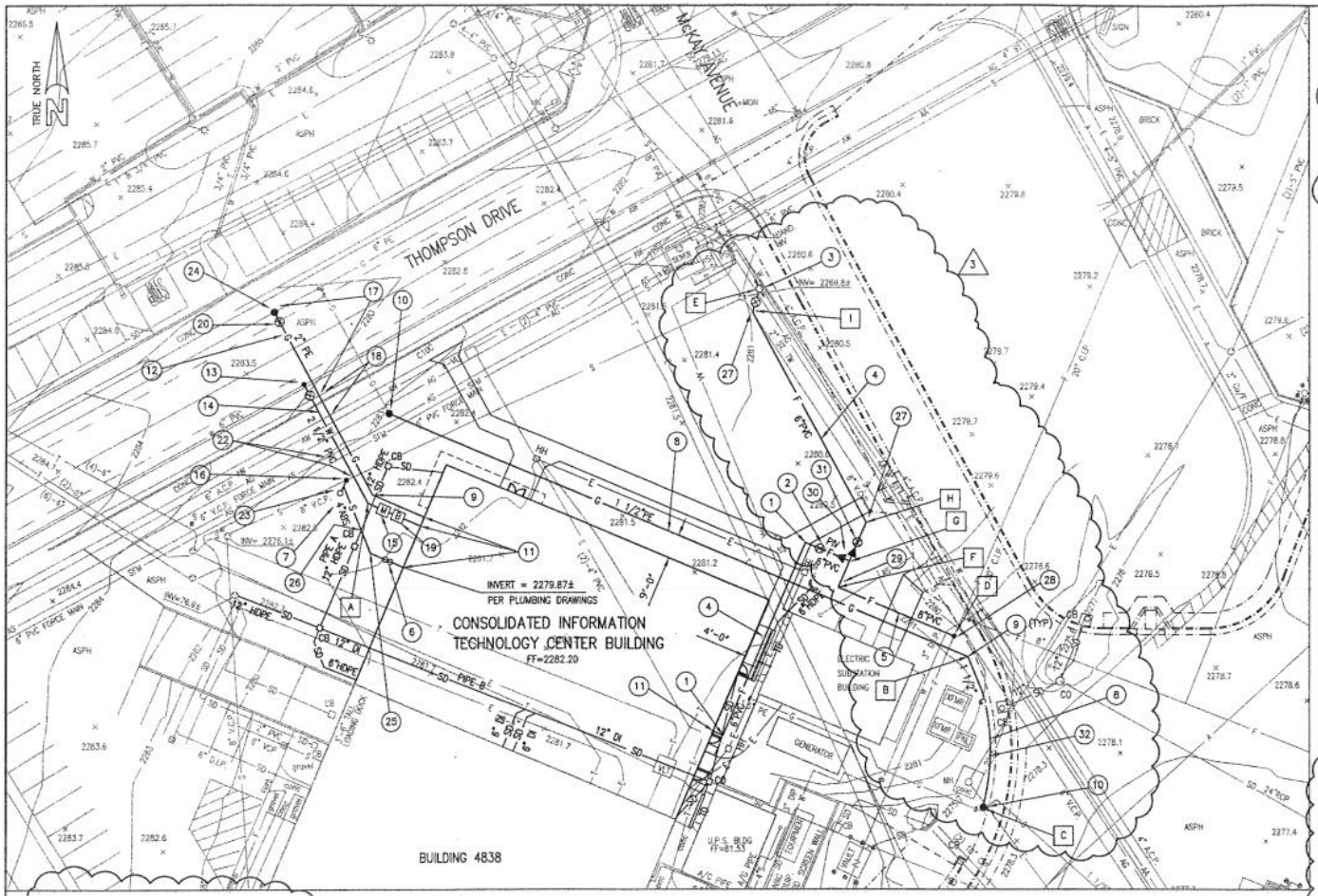
SK-7 - VAULT ACCESS HATCH

PROJECT TITLE:
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER

SCALE: 1/2" = 1'-0"

DATE: 7/22/09



XX HORIZONTAL CONTROL DATA

ITEM	DESCRIPTION	EASTERN	NORTHERN
A	PIPE BEND	2034281±	528456±
B	PIPE BEND	2034499.96	528399.16
C	POC	2034505.0±	528343.0±
D	POC	2034495.0±	528406.7±
E	CENTER OF FH	2034424.16	528533.71
F	PIPE BEND	2034452.93	528424.52
G	PIPE TEE	2034457.04	528434.18
F	PIPE BEND	2034483.11	528448.39
G	PIPE BEND	2034421.60	528525.13

UTILITY PLAN

SCALE 1" = 20'

GRAPHIC SCALE: 1" = 20'

20' 0 20' 40' 60'

NEW UTILITY WORK LEGEND

- 6"W — POTABLE WATER PIPE
- 6"F — NON-POTABLE FIRE WATER PIPE
- B — BACKFLOW PREVENTER
- M — METER
- GATE VALVE
- PIV — GATE VALVE WITH POST INDICATOR OPERATOR
- FH — FIRE HYDRANT
- 6"S — SANITARY SEWER PIPE
- CO 6"S — SANITARY SEWER CLEAN OUT
- POINT OF CONNECTION
- 3"G — NATURAL GAS PIPE

XX NOTES:

1) NEW FIRE WATER 6" DI 90° BEND WITH THRUST BLOCK, SEE DETAIL 8 C-4|C-9
2) NEW POST INDICATOR VALVE OPERATOR & 6" GATE VALVE, SEE DETAIL 1 C-4|C-11 2 C-4|C-11 NEW PIV SHALL BE INSTALLED WITHIN 100' OF NEW FH.
3) NEW 6" GATE VALVE AND FIRE HYDRANT, SEE DETAIL 3 C-4|C-10
4) NEW 6" PVC FIRE WATER PIPE, SEE DETAIL 7 C-4|C-9
5) NEW 8" PVC FIRE WATER PIPE, SEE DETAIL 7 C-4|C-9 △3
6) INSTALL NEW 4" DOUBLE CLEANOUT, SEE DETAIL 4 C-4|C-11
7) INSTALL NEW 4" ABS SEWER PIPE, SEE DETAIL 7 C-4|C-9
8) NEW 1 1/2" PE NATURAL GAS PIPELINE, SEE DETAIL 7 C-4|C-9
9) INSTALL NEW NATURAL GAS BEND AS REQUIRED.
10) CONNECT TO EXISTING GAS PIPELINE WITH BEND & ADAPTER COUPLING.
11) SEE PLUMBING DRAWINGS FOR CONTINUATION.
12) NEW 2" PE NATURAL GAS SERVICE LINE TO BUILDING, SEE DETAIL 7 C-4|C-9
13) INSTALL 6" X 2 1/2" TAPPING SADDLE AND GATE VALVE, SEE DETAIL 2 C-4|C-11
14) INSTALL 2 1/2" PVC WATER PIPE, SEE DETAIL 7 C-4|C-9
15) INSTALL 2" WATER METER, SEE DETAIL 3 C-4|C-11
16) CONNECT TO EXISTING 8" VCP SEWER PIPE, SEE DETAIL 4 C-4|C-10
17) SAWCUT, REMOVE, DISPOSE, AND REPLACE ASPHALT PAVEMENT AS REQUIRED. SEE DETAIL 7 C-4|C-9
18) SAWCUT, REMOVE, DISPOSE, AND REPLACE CONCRETE SIDEWALK, CURB, & GUTTER, AS REQUIRED, TO MATCH EXISTING, SEE SIMILAR DETAIL 2 C-4|C-9
19) INSTALL 2 1/2" RPBP AND STRAINER, SEE DETAIL 5 C-4|C-11
20) INSTALL NEW 2" GAS VALVE. FOR VALVE WELL, SEE SIMILAR DETAIL 2 C-4|C-11
21) INSTALL NEW NON-POTABLE FIRE WATER PIPELINES A MINIMUM OF 12" CLEAR AND BELOW ANY EXISTING OR NEW POTABLE WATER PIPELINES.
22) INSTALL NEW POTABLE WATER PIPELINES A MINIMUM OF 12" CLEAR AND ABOVE ANY EXISTING OR NEW SEWER PIPELINES.
23) INSTALL NEW 6" PVC WYE AND CLEANOUT, SEE SIM. DETAIL 4 C-4|C-11
24) TAP EXISTING 6" PE GAS MAIN AS REQUIRED.
25) INSTALL NEW 4" 45° ABS SEWER PIPE BEND.
26) INVERT OF NEW SEWER PIPE = 2279.2' AT STORM DRAIN CROSSING.
27) NEW FIRE WATER 6" DI 45° BEND WITH THRUST BLOCK, SEE DETAIL 8 C-4|C-9 DEFLECT PIPE AS REQUIRED. △3
28) INSTALL 20"X6" TAPPING SADDLE AND THRUST BLOCK, SEE DETAIL 8 C-4|C-9 EXISTING 20" WATER MAIN IS APPROXIMATELY 9' DEEP. HAND DIG WITHIN 2' OF FIRE WATER LINE.
29) NEW FIRE WATER 8" DI 90° BEND WITH THRUST BLOCK, SEE DETAIL 8 C-4|C-9
30) NEW 8" DI TEE, THRUST BLOCK, AND (2) 8" X 6" DI REDUCERS, SEE DETAIL 8 C-4|C-9
31) NEW 6" GATE VALVE, SEE SIM. DETAIL 2 C-4|C-11
32) INSTALL GAS LINE 18" TO 24" CLEAR OF SIDEWALK. DEFLECT PIPE & INSTALL BENDS AS REQUIRE.

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(619) 448-4690 FAX

DATE	SYM	REVISION	BY	A'PD
5/15/09	2	MISC. REVISION		
7/20/09	3	BID AMENDMENT		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
DRYDEN FLIGHT RESEARCH CENTER
EDWARDS, CA

DRAWING TITLE
UTILITY PLAN

PROJECT TITLE
CONSTRUCT CONSOLIDATED INFORMATION TECHNOLOGY CENTER
100% FINAL DESIGN

APPROVALS	DATE
Deputy Director, Engineering & Technical Office	7/24/09
Project Manager	3/26/09
Project Engineer	7-27-09
Project Engineer	7-23-09
Project Engineer	7-28-09
Project Engineer	7-30-09

DRAWN BY: DRW — DATE STATED: 5-2-07
W.S. # — DATE PRINTED: 4-3-2009
PLOT SCALE — SHEET No.: C-4 — EDM-1699
CAD FILE Name — SHEET No. 5 of 135

AMENDMENT #2, DTD 23JUL09
CHANGE TO DWG. SHEET, C-4, UTILITY PLAN.
ADDED NOTES 27-32