

NASA GLENN RESEARCH CENTER
ADDENDUM No. 2
DATE: AUGUST 22, 2014
SOLICITATION NO.: NNC14ZFD016E
PROJECT ID: COF20297
PROJECT TITLE: BUILDING 14 MODIFICATIONS FOR LTID RELOCATION

A. GOVERNMENT CLARIFICATIONS

The following clarifications are provided by the Government to explain the scope of work for the BUILDING 14 MODIFICATIONS FOR LTID RELOCATION project. This is scope of work that has been changed, omitted or requires clarification.

CLARIFICATION No. 1

Reference contract drawing AD405: Demolition Note 11 is included in Deduct Option No. 8. Demolition Note 12 is included in the Base Bid work.

CLARIFICATION No. 2

Contract drawings T-504, T-505, and T-802: Where the terms "Access Control Contractor" or "Card Access Contractor" appear, change to "GRC Onsite Maintenance Contractor".

CLARIFICATION No. 3

Contract drawing S-504: Sections A, B, and E should be included in Option No. 10 scope of work.

CLARIFICATION No. 4

Contract drawing S-505: Sections C and D should be included in Option No. 10 scope of work.

CLARIFICATION No. 5

Sketch SK-1 dated 08/14/2014 is attached to this Addendum to clarify the Base Bid scope of work.

CLARIFICATION No. 6

Revision A dated 08/08/2014 to contract drawing 0014-COF20297-G-003 is attached to this Addendum.

CLARIFICATION No. 7

Revision A dated 08/20/2014 to contract drawing 0014-COF20297-M-403 is attached to this Addendum.

CLARIFICATION No. 8

Revision A dated 08/20/2014 to contract drawing 0014-COF20297-M-404 is attached to this Addendum.

CLARIFICATION No. 9

Revision A dated 08/20/2014 to contract drawing 0014-COF20297-M-602 is attached to this Addendum.

CLARIFICATION No. 10

Replace existing subpart 1.1.1.6 of specification section 01 11 00.98, SUMMARY OF WORK, with the following:

1.1.1.6 Option No. 6: Additional VAV Boxes

Option No. 6 shall include the costs to provide and install one VAV box to serve each of Rooms 108F, 108G, 108H, 110C, 110D, and 110E. These Option No. 6 costs for six

total VAV boxes shall include all necessary ductwork, piping, wiring, accessories, and DDC and temperature controls. See Revision A dated 08/20/2014 to contract drawings 0014-COF20297-M-403, 0014-COF20297-M-404, and 0014-COF20297-M-602 for additional information.

Base Bid work, if Option No. 6 is not exercised, shall include the costs to provide and install one VAV box to serve Rooms 110C, 110D, and 110E and one VAV box to serve Rooms 108F, 108G, and 108H. These Base Bid costs for two total VAV boxes shall include all necessary ductwork, piping, accessories, and DDC and temperature controls. Prior to procurement of the applicable components, Contractor shall submit a design, including changes to the VAV box tagging scheme, for Government review and approval. VAV boxes shall be sized for the sum of the maximum cooling air volumes and reheat coils shall be sized for the sum of the required heating capacities listed for the appropriate rooms. Ductwork shall be sized for a maximum of 1,500 feet per minute velocity upstream of the boxes and 0.10 inches per 100 feet friction loss downstream of the boxes.

CLARIFICATION No. 11

Replace existing subpart 1.1.1.8 of specification section 01 11 00.98, SUMMARY OF WORK, with the following:

1.1.1.8 Deduct Option No. 8: Switch existing Green Room 117 with Control Room 116A

Deduct Option No. 8 shall include the lump sum deduct cost to remove the scope of work required to switch the existing Green Room 117 with Control Room 116A. Scope removal includes relocating equipment from Room 116A to Room 117 and wall patching. Refer to design drawings AD405, A-405, A-425, and applicable Electrical and Technology engineering design drawings for additional requirements.

Note: Whether or not Deduct Option No. 8 is exercised, Base Bid shall include the work required to install a new door in the South wall of Green Room 117. See design drawings for specific scope of work.

CLARIFICATION No. 12

Replace existing subpart 1.1.1.9 of specification section 01 11 00.98, SUMMARY OF WORK, with the following:

1.1.1.9 Option No. 9: Window Blinds and Coverings

Option No. 9 shall include the costs to provide and install blinds and coverings for all windows as indicated in the contract drawings. Refer to each contract drawing for specific scope of work.

Base Bid work, whether or not Option No. 9 is exercised, shall include removal of existing blind and window covering systems and all necessary wall patching.

CLARIFICATION No. 13

Replace existing subpart 1.1.1.10 of specification section 01 11 00.98, SUMMARY OF WORK, with the following:

1.1.1.10 Option No. 10: Install Windows in South Elevation of Building

Option No. 10 shall include the costs to construct and install new blast-resistant storefront systems in the South elevation of Building 14. The structural and architectural modifications to the South elevation are limited to the area of new LTID Open Office 111.

Refer to Architectural and Structural engineering design drawings for additional information and requirements.

Base Bid work, if Option No. 10 is not exercised, shall include removal of the existing overhead door and all appurtenances, removal of the existing single door, infilling (toothing) with brick the existing overhead door opening, and installation of a new galvanized steel door with exit-only panic hardware, closer, and balanced magnetic switch (BMS). Refer to engineering design drawings and SK-1 for additional information and requirements.

B. CONTRACTOR QUESTIONS AND ANSWERS

The following questions were submitted by Contractors regarding the scope of work for the BUILDING 14 MODIFICATIONS FOR LTID RELOCATION project. The answers are provided by the Government.

QUESTION No. 1

Drawings S-405, A-415 and E-415 indicate a lighting rail/support grid in room Photo Studio 118B. There does not appear to be a specification section for the lighting grid system. Which contract is to include purchase and installation of the grid?

ANSWER:

The lighting suspension grid system shall be purchased by the Government and turned over to the Contractor for installation as part of this contract. Grid system support indicated on contract drawing S-405 is also a part of this contract.

QUESTION No. 2

Drawing ED-102 – please provide the panel sources serving AHU-1X and AHU-3X. This is not shown on riser diagrams or panel directories.

ANSWER:

Sources could not be located on existing drawings or panel schedules. Remove as indicated.

QUESTION No. 3

Specification 01 11 00.98, page 2, item 1.1.1.4 Option #4 – Is any electrical (switching, exit lighting) required for addition of the door?

ANSWER:

Furnish and install one exit sign on the corridor side of the door. See contract drawing A-418 for fixture relocation. Additionally, disconnect and remove all corridor switching. Furnish and install blank cover plates and three (3) ceiling occupancy sensors, two located in corridor and one located in Open Office 122 corridor. Connect new occupancy sensors to corresponding fixture.

QUESTION No. 4

Drawing ED-401 – Rooms 123 and 143 indicate disconnects with Plan Note 8 which refers to EF-123. Is the disconnect in room 143 for a fan #143? Is the VFD in room 143 associated with the disconnect switch in 143 with plan note 8?

ANSWER:

ED401:

- Delete Demolition Note 10, existing VFD to remain.
- In Room 143, delete reference to Demolition Note 8, existing AHU-143 disconnect to remain.
- In Room 123, keep reference to Demolition Note 8, existing EF-123 disconnect to be removed.

QUESTION No. 5

ED-402 – Are we correct the disconnect near the existing traffic controller in room 111 should have reference to plan note 3, not plan note 13?

ANSWER:

Correct, reference should be to Demolition Note 3.

QUESTION No. 6

Drawing E-415 – room 118F indicates two 3-way switches at doorway. Are we correct these should be two single pole dimmers?

ANSWER:

Correct, dimmers are to be provided.

QUESTION No. 7

Drawing E-415 – room 118B indicates one 3-way switches. Are we correct there should be two 3-way dimmers for control of the type “D” lights?

ANSWER:

Remove 3-way switch. House lights require only one dimming switch at door.

QUESTION No. 8

Drawing E-418 – Fixture Type G note refers to drawing E-411. This does not appear to be correct as no type G lights are shown on E-411 or other drawings.

ANSWER:

Delete Type G fixture information from the drawing, Type G fixture is not applicable to the project.

QUESTION No. 9

Drawing E-422 – please provide panel and circuit designation for mechanical unit in room 218.

ANSWER:

Reference contract drawing E-607: AHU-218 to be located in Panel F0108, circuit no. 11. Revise circuit no. 7 to be “SPARE”.

QUESTION No. 10

Drawing E-501 Detail 1 – is exhaust start required at any locations? None are specifically indicated on plans.

ANSWER:

This was a standard detail, no occupancy-controlled exhaust is required. Also, no auxiliary contact is required.

QUESTION No. 11

Drawing E-501 Detail 1 – please clarify what the I/O module is in this diagram.

ANSWER:

This was a standard detail, no I/O modules are required and can be removed from the detail.

QUESTION No. 12

Drawing TD-102 – Note 5 refers to removal of CATV along with implementation plan for cut-over. Has implementation plan been developed? What is the new location of the CATV equipment? Is this work to be part of the separate Technology contract?

ANSWER:

See specification section 01 11 00.98, part 3.3.1, General Coordination, and part 3.3.10, Technology, for basic implementation plan requirements. After contract award, construction implementation will have to be further coordinated between the Contractor and the NASA GRC Contractor(s). New CATV equipment to be located in MDF Room 108J. CATV work will be performed by a NASA GRC Contractor under a separate contract.

QUESTION No. 13

Drawing T-101 – Are we correct Construction Note #1 should be deleted? See Notes 3 and 4.

ANSWER:

Yes, delete Construction Note 1.

QUESTION No. 14

Drawing T-502, detail 2 – indicates CCTV cameras receive a continuous conduit pathway to the telecommunications room. Is this correct?

ANSWER:

Yes, this is correct.

QUESTION No. 15

Drawing T-801 – please provide location of mezzanine room 217 referenced in Grounding Riser Diagram. It does not seem to be indicated on plans.

ANSWER:

This is the existing telecommunications room on the Mezzanine Level and is located North of Rooms 221 and 222. It is most clearly indicated on contract drawing MD102 and labeled as “MENS ROOM”.

QUESTION No. 16

TD series drawings indicate structured cabling demolition shall be by NASA structured cabling contractor. Is this separate from the Technology contract for the project?

ANSWER:

Yes, this cabling demolition work will be performed by a NASA GRC Contractor under a separate contract.

QUESTION No. 17

T series drawings indicate all Data/Voice locations are rough-in only, cabling and terminations are under a separate contract. Is Voice/Data work to be included in the electrical portion of the contract or is that a separate contract to be awarded by NASA?

ANSWER:

Voice/Data work included in this contract is for rough-in (conduit pathway and pull-string) only. Cabling, equipment, and terminations work will be performed by a NASA GRC Contractor under a separate contract.

QUESTION No. 18

We understand rough-in for Audio/Video is included in electrical contract. Does the Voice/Data contract include Audio/Video cabling, equipment and terminations work as shown on the drawings? Specification sections not provided?

ANSWER:

Audio/Video work included in this contract is for rough-in (conduit pathway and pull-string) only. Cabling, equipment, and terminations work will be performed by a NASA GRC Contractor under a separate contract.

QUESTION No. 19

We understand rough-in for the Door Access and CCTV systems are in the electrical contract. Please clarify scope of work for these systems with regard to furnishing, cabling and installation. Specification sections not provided?

ANSWER:

Door Access work included in this contract is for rough-in (conduit pathway and pull-string) only. See CLARIFICATION No. 2 of this Addendum, contract drawings T-504, T-505, and T-802, and specification section 01 11 00.98, part 3.3.4, Architectural, for additional information. CCTV work included in this contract is for rough-in (conduit pathway and pull-string) only.

QUESTION No. 20

Will all areas be available for work or will work be phased and sequenced in sections?

ANSWER:

All areas will be available for work. Most of the building areas East of Corridor 130 will remain occupied during construction of this task. See specification section 01 11 00.98, part 3.3, Construction Implementation, for additional information.

QUESTION No. 21

We are unsure as to who provides the Commissioning, is it thru the owner, Architect, or the General Contractor?

ANSWER:

The Commissioning Authority, CxA, will be under a separate contract and contracted by NASA. See specification sections 01 91 13, GENERAL COMMISSIONING REQUIREMENTS, and 23 08 00, COMMISSIONING OF HVAC, included in Addendum No. 1, for additional Commissioning responsibilities and requirements.

QUESTION No. 22

Is the Signage vendor thru the General Contractor or it a separate vendor thru the owner?

ANSWER:

Signage vendor shall be part of the General Contractor's scope of work.

QUESTION No. 23

Drawing #E-603 indicates panel PO141 as "REP" (replace?). This panel is identified as "D&R" on ED-405, ED-603 and ED-802 and is not shown on drawing E-801. Please clarify.

ANSWER:

Panel P0141 is being removed as shown on ED405. Revise Demolition Note 9 on ED405 to read "... All remaining circuits shall be refed from Panel P0124." There is no new panel P0141. The Panel P0141 Schedule on contract drawing E-603 shows existing circuits and "(REP)" should be replaced with "DEMO ONLY".

QUESTION No. 24

Is panel FO103 the unmarked 277/480-volt panel shown on drawing E-408 Detail 2?

ANSWER:

No, see Demolition Note 7 on contract drawing ED402 for location of Panel F0103. The 277/480V panel in Detail 2 on E-408 is Panel F0108.

QUESTION No. 25

Drawings E-607 and E-609 both show existing panels FO106 and FO108. There are differences between the panel directories on both drawings. Please clarify which drawing is correct.

ANSWER:

Contract drawing E-609 reflects the existing panel schedule conditions and is included for information only. Contract drawing E-607 reflects the new work included in this contract.

QUESTION No. 26

Are existing panel schedule directories possibly available for panels FO103 and PO145?

ANSWER:

Schedules for Panels F0103 and P0145 are attached to this Addendum.

QUESTION No. 27

Drawing #E-402, Note 8 indicates to relocate existing Traffic Signal Controller. Drawing #ED-402 indicates that the controller is existing at the same location as shown on #E-402. Please clarify the intent of Note 8 on drawing #E-402.

ANSWER:

Delete Construction Note 8 on E-402, Traffic Signal Controller is to remain as-is in current operating condition.