

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 17

2. AMENDMENT/MODIFICATION NO. 000002
3. EFFECTIVE DATE 09/09/2010
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

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

NASA/Johnson Space Center
Attn: John Clayborne/BJ3
2101 NASA Parkway
Houston TX 77058-3696

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

9A. AMENDMENT OF SOLICITATION NO. (x) NNJ10333854R
9B. DATED (SEE ITEM 11) x 08/12/2010
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.)
SEE PAGE 2

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)
Keshia Guinn

15B. CONTRACTOR/OFFEROR
15C. DATE SIGNED
16B. UNITED STATES OF AMERICA
16C. DATE SIGNED
9/9/2010

A. The purposes of Amendment 2 are to:

1. Incorporate clause, E.2, "Inspection and Acceptance" into the solicitation. Solicitation Section E, "Inspection and Acceptance" is deleted in its entirety and replaced with the attached solicitation section E, "Inspection and Acceptance".

E.2 INSPECTION AND ACCEPTANCE

Final inspection and acceptance of all work under this contract will be conducted by the Contracting Officer's Technical Representative (COTR) or the Alternate Contracting Officer's Technical Representative (Alt COTR) for this effort. Upon satisfactory completion of the contract, the Contractor shall be paid the fixed-price value of the contract, less the amount of any progress payments made under FAR Clause 52.232.5, Payments Under Fixed-Price Construction Contracts.

NOTE: For planning purposes, the contractor shall include a line item in the schedule of values and progress schedule for completion of punch-list items, site clean-up, demobilization and final construction (as-built) drawings. The amount of this line item shall be equal to 10% of each CLIN or \$100,000, whichever is less. The Government will not pay final invoices for this amount until all punch-list, site clean-up, and demobilization activities are complete; final construction drawings are delivered; and final acceptance is made.

(End of clause)

2. Provide answers to the questions received.
3. Replace the Drawing Number, M-417-1, Index Sheet as attached.

Drawing Number, M-417-1, Index Sheet is deleted in its entirety and is replaced with the attached Drawing Number, M-417-1, Index Sheet.

4. Replace the following specification sections and pages as attached:

The following specifications sections and pages are deleted in their entirety and replaced with the attached specifications sections and pages:

<u>DELETE SECTION</u>	<u>DELETE PAGE</u>	<u>REPLACED WITH ATTACHED SECTION</u>	<u>REPLACED WITH ATTACHED PAGE</u>
01 22 00.00 80	3	01 22 00.00 80	3
33 56 10	1	33 56 10	1
33 56 10	7	33 56 10	7

B. All other terms and conditions remain the same.

SECTION E - INSPECTION AND ACCEPTANCE

E.1 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)

(a) *Definition.* "Work" includes, but is not limited to, materials, workmanship, and manufacture and fabrication of components.

(b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government. All work shall be conducted under the general direction of the Contracting Officer and is subject to Government inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.

(c) Government inspections and tests are for the sole benefit of the Government and do not --

- (1) Relieve the Contractor of responsibility for providing adequate quality control measures;
- (2) Relieve the Contractor of responsibility for damage to or loss of the material before acceptance;
- (3) Constitute or imply acceptance; or
- (4) Affect the continuing rights of the Government after acceptance of the completed work under paragraph (i) of this section.

(d) The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Contracting Officer's written authorization.

(e) The Contractor shall promptly furnish, at no increase in contract price, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The Government may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The Government shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.

(f) The Contractor shall, without charge, replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

(g) If the Contractor does not promptly replace or correct rejected work, the Government may --

- (1) By contract or otherwise, replace or correct the work and charge the cost to the Contractor; or
- (2) Terminate for default the Contractor's right to proceed.

(h) If, before acceptance of the entire work, the Government decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet contract requirements, the Contracting Officer shall make an equitable adjustment for the additional services involved in the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.

(i) Unless otherwise specified in the contract, the Government shall accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the Government's rights under any warranty or guarantee.

(End of clause)

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NOTE: For planning purposes, the contractor shall include a line item in the schedule of values and progress schedule for completion of punch-list items, site clean-up, demobilization and final construction (as-built) drawings. The amount of this line item shall be equal to 10% of each CLIN or \$100,000, whichever is less. The Government will not pay final invoices for this amount until all punch-list, site clean-up, and demobilization activities are complete; final construction drawings are delivered; and final acceptance is made..

(End of clause)

QUESTIONS AND ANSWERS

1. **Question:** Cover letter for Past Performance states due date, 9/02/2010, RFP states prior to bid due 09/16/10

Answer: Past Performance Questionnaires are due September 16, 2010 as per solicitation Amendment 1 dated August 27, 2010.

2. **Question:** Will additional site visit with subs be granted, what is the procedure?

Answer: No additional site visits will be granted at this time.

3. **Question:** Will the government consider final, signed CCASS (CPARS system) evaluations in lieu of Questionnaires requested under L.21, Section I, paragraph C?

Answer: No. Questionnaires are required.

4. **Question:** In section: L.23 ATTACHMENT 2 – PAST PERFORMANCE QUESTIONNAIRE AND COVER LETTER, I do not understand how to fill out form:

SECTION I. CONTRACT IDENTIFICATION (To be completed by Offeror)

It states that the form is to be completed by Offeror, do we fill this out for EACH customer we are asking to provide a past performance from?

Answer: Yes. As stated in the past performance questionnaire cover letter, the offeror is required to complete one set of letters and forms for each reference. Also reference solicitation section L.21-1,C "Past Performance Questionnaires.

5. **Question:** Following up on the Industry Day Answer to Question #1, please clarify:

The Answer states: "Competition will be limited to 8(a) firms located within SBA Region 6 geographical area and other 8(a) construction firms with a bona fide place of business within the SBA Region 6 geographical competitive area, and the assigned NAICS code. SBA Region 6 geographical area includes Arkansas, Louisiana, New Mexico, Oklahoma and Texas."

We read this to mean that if a contractor has an office in SBA Region 6, but is not yet certified as "bona fide" then it does in fact meet the requirement for the solicitation. Is that a correct understanding of the answer?

Answer: No, it does not meet the requirement of the solicitation. The office is required to be certified by the SBA.

6. **Question:** If an officially recognized bona fide office is needed, when would that need to formally in place? (time of proposal submittal? award? performance start date?)

Answer: A bona fide office needs to be certified by SBA prior to award.

7. **Question:**

Section L/I.21-3 (Technical Proposals and Other Required Documentation for Award)

Our Corporate Safety and Health Manual is 3 ins thick, can it be in a separate, clearly marked binder instead of incorporated with Volume III?

Answer: No. The Safety and Health Plan must be submitted in accordance with the solicitation.

8. **Question:** Solicitation includes two SF 1442 Standard Forms; one for the MACC Award and one for the Model Task Order Is a Bid Bond required for the MACC Award? If so what dollar amount should that bid bond be based on?

Answer: No. A bid bond is only required for the Model Task Order.

9. **Question:** The Drawing Index references Drawing ED-417-1, site plan, however drawing was not included in the drawing package?

Answer: The Government found no reference to Drawing ED-417-1 in the drawing index. Drawing ED-417-1 does not exist. The site plan for JSC is shown on drawing MUP-SITE-1.

10. **Question:** Drawing Index references drawing ED-427-12 power plan & elevation of fill station area demo and the Solicitation drawing references drawing CD-417-12. Are these the same drawing or are we missing a drawing (CD-417-12)?

Answer: The Government found no reference to Drawing ED-427-12 “power plan & elevation of fill station area demo” in the drawing index. Drawing# ED-427-12 does not exist. There is a drawing entitled “Power Plan & Elevation of Fill Station Area, Demo” but it is drawing# ED-417-12.

Drawing# CD-417-12 is referenced in the specification’s drawing index in error as drawing# CD-417-12 does not exist. The specification index and the drawing index have been updated. Corrected change pages are attached.

11. **Question:** The RFP references the term “Model Contract” several times throughout Section L Instructions to Offerors. Is this in reference to the Model Task Order proposal

portion of the proposal (1442, reps & certs, bid bond, CLIN, price breakdown), or is there an actual "Model Contract" document that is not posted?

Answer: No. The term "model contract" is not a reference to the model task order. There is a model contract and a model task order. Please refer to solicitation section L.21-3,B,Section II (a) entitled Model Contract and L.21-3,B,Section III (b) entitled Model Task Order.

12. **Question:** Attachment 2 Past Performance Questionnaire and Cover Letter state that questionnaires should be submitted by September 2, 2010. Section I, C. Past Performance Questionnaires states that Past Performance Questionnaires shall be submitted by the proposal submittal date which is September 16. Please clarify which day the PPQ's are to be submitted.

Answer: Past Performance Questionnaires are due September 16, 2010 as per solicitation Amendment 1 dated August 27, 2010.

13. **Question:** Is this restricted to Texas based firms or is open for 8(a) competition?

Answer: Competition is limited to 8(a) firms located within SBA Region 6 geographical area and other 8(a) construction firms with a bona fide place of business within the SBA Region 6 geographical competitive area, and the assigned NAICS code. SBA Region 6 geographical area includes Arkansas, Louisiana, New Mexico, Oklahoma and Texas. All other 8(a) BD Participants are deemed ineligible to submit offers.

14. **Question:** The project documents received from A&E – The Graphics Complex drawing C-417-1 Site Plan was not in their drawing file although it is listed on the project drawing Index. Is this an omission or has this drawing been deleted?

Answer: Drawing C-417-1 was listed in the specifications and drawings indexes in error as this drawing does not exist. The actual site plan for JSC is shown on drawing MUP-SITE-1. The drawing index and the specification index have been updated. Corrected change pages are attached.

15. **Question:** What is the make and model of existing Fuel Manager Unit to be replaced?

Answer: The existing fuel management system is a "Syn-Tech Fuel Management System". The Model number of the existing system is #FMU-2500.

16. **Question:** Are other fuel systems of this type in use at JSC and will the 200 programmable keys need to be compatible with other fuel points on campus? If so, what software version is currently in use on the other existing fuel managers?

Answer: This is the only fuel management system at JSC. The 200 keys will be programmable to this system only. This is a stand-alone system and the new system will be a stand-alone system.

17. **Question:** Could you please clarify if the Past Performance Questionnaire is to be submitted in the proposal Volumes, I, II and III as stated on the to:

Prospective Offerors, page 3, (see below)

In accordance with L.16,B, "Submission of Offers", proposal volumes I, II and III, including Past Performance Questionnaires shall be submitted no later than 2:00 pm Central Standard Time on September 16, 2010.

Or according to: (see below)

L.23 ATTACHMENT 2 PAST PERFORMANCE QUESTIONNAIRE and COVER LETTER (Ref. L.21-1, C)

The RFP instructs that offerors provide customers with the attached questionnaire. Please complete the questionnaire and submit it by September 2, 2010 directly to the JSC Contracting Officer. The requested data must be submitted by mail to:

NASA Johnson Space Center
BJ3/John Clayborne
2101 NASA Parkway
Houston, TX 77058

The information contained in the completed Past Performance Questionnaire is considered sensitive and cannot be released to xxxxxxxxxx. Please direct any questions about the acquisition or the attached questionnaire to the JSC point of contact identified above.

Answer: Past Performance Questionnaires are due September 16, 2010 as per solicitation Amendment 1 dated August 27, 2010.

18. **Question:** Section L16 Paragraph B states volumes I, II and II including Past Performance Questionnaires shall be submitted no later than 2pm on 09/16/2010.

The Cover Letter of Attachment 2 in Section L23, however, states that they are to be submitted by 09/02/2010.

Please clarify.

Answer: Past Performance Questionnaires are due September 16, 2010 as per solicitation Amendment 1 dated August 27, 2010.

19. **Question:** Regarding contract NNJ10333854R, in section J.1, which is labeled “SAFETY AND HEALTH PLAN Added to the contract prior to award upon approval by the Government,” we would like clarification. Ought the safety plan to be included with our proposal be a general safety plan outlining our company policy and practices or a plan specific to the requirements of the model task order included in the RFP?

Answer: The Safety and Health Plan to be submitted with the proposal shall be a general safety and health plan in accordance with the solicitation.

20. **Question:** In order to complete this contract:

- a. Will the installation of a fire suppression system be required?
- b. Will modifications to the pad side (design) be required?
- c. Will a secondary containment system (i.e. polydrain, dyke system, etc..) be required?

Answer: a. Fire suppression is not required. The fire detection system is a fire eye and it is already in place.

b. The only modification to the area is what is shown in the specifications and on the drawings.

c. Secondary containment is not required.

21. **Question:** We have the following concerns for this project stated below in RFI format:

- a. Is this a tax exempt project? And if not, what taxes are required to be included in the price for this project?
- b. We have read in the solicitation that we must staff a Superintendent, a Quality Control Manager, and a Quality Control Assistant on site. Are we required to have each of these position staffed by an individual on site, or will we be allowed to delegate more responsibility to a smaller personal staff?
- c. For this to be a highly flammable area, what fire suppression measures should be taken; if any?

Answer: a. The following exemptions from Texas taxes are applicable to NASA JSC: (1) Sales and use tax and (2) State and local portion of hotel occupancy tax.

b. Dual roles are not prohibited however, all requirements of the contract must be met.

c. Fire suppression is not required. The fire detection system is a fire eye and it is already in place.

22. **Question:** Can you provide a description of "minor construction" with regards to the solicitation? I want to be able to send past performance questionnaires to our clients for the relevant type of work being performed under this contract.

Answer: Please reference solicitation sections: C.1 "Specification/Statement of Work and L.23 Attachment 1 "Government Construction Project Summary.

23. **Question:** We would like to submit the following question(s):

Could you provide guidance regarding our statement of direct construction experience?

We have hired personnel with the necessary experience for the IDIQ and would like to know how to include this in our Past Performance Questionnaire.

The experience would be under the employee's previous experience as an independent general contractor, therefore the references would mention his depth and breadth of experience.

Furthermore, would the employee's previous safety record be considered and applied to the offeror's?

Answer: In accordance with solicitation section L.21-1,A,2), Offeror's with no recent and/or relevant past performance information to submit on projects it has performed may submit past performance data on recent and relevant contracts of affiliated companies or operating divisions within the parent company or joint ventures of the parent company when it is reasonable to attribute the experience of these past efforts to the proposed effort and when the document clearly demonstrates the resources (e.g. financial resources, overall oversight and management or other resources) of the parent or affiliated division will meaningfully affect performance of the instant acquisition. Information on these projects shall be provided as described above and shall identify the names of the firms and their roles in the specific project.

24. **Question:** Paragraph L 21-1 Section I, paragraph C Past Performance states that the questionnaires are due back not later than the proposal submittal date, September 16 2010 @ 2:00PM.

L-23 Attachment 2 states the questionnaires are due back September 2, 2010.

Which date is correct?

Answer: Past Performance Questionnaires are due September 16, 2010 as per solicitation Amendment 1 dated August 27, 2010.

25. **Question:** 1. Please advise if the following are available electronically;
- Past Performance Questionnaire L.23 Attachment 2
 - Pricing Forms L.23 Attachment 4
 - Form 1422

2. Can the past performance questionnaire be submitted electronically?

Answer 1: The Past Performance Questionnaire L.23 Attachment 2, Pricing Forms L.23 Attachment 4 and the 1442 (Note: There is no form 1422 as documented in your question.) forms were all provided electronically with the solicitation and can be found at the following websites:

- a. 8(a) Multi-Award Indefinite-Delivery Indefinite-Quantity General Construction – Minor Projects website at <http://procurement.jsc.nasa.gov/idiq/>
- b. NASA's Acquisition Internet Service website <http://prod.nais.nasa.gov/cgi-bin/nais/index.cgi>

2. No. See solicitation section L.21-1,C entitled Past Performance Questionnaires.

26. **Question:** Please find the following additional questions regarding the subject acquisition – specifically, the Model T.O. specs..

- 1. Division 33 Section 33 56 10 part 2.3.3 states Tank Saddles. All drawings show tank saddles w/tank bottom 6" off ground (Industry Standard) Drawing referenced Tank Saddles. Every indication is for tank saddles. In Division 33 Section 33 56 10 part 2.3.2 states Support Skid and 12" off ground. Is the Support Skid and 12" reference a typo.?
- 2. Division 33 Section 33 56 10 part 2.4.2 States Epoxy Siloxane top coating on outside of tank. Can an equivalent Epoxy that is resistant to solvents be used?

Answer: 1. Division 33, Section 33 56 10 part 2.3.2 is listed in the specifications in error and has been deleted. The revised change page is attached.

2. No, the contractor can only use what is called out in the Specifications.

27. **Question:** Other than the size and commercial nature of the system, are there any other requirements regarding the make, model and/or manufacturer of the referenced System? If so, please provide.

Answer: None other than those already listed in the specifications and drawings.

28. **Question:** Our team has compiled the following list for your review and disposition:

<i>No.</i>	<i>Question/Comment</i>	<i>Government Response</i>
1	Piping- is the pipe above ground?	
2	Tank Removal – The state will need verification of tank status. Out of Service status. Is the tank going to be used again or does it need to be removed and destroyed?	
3	Are there reporting requirements for man hours, skill levels, pay?	
4	Removing old tank, dispenser, fuel management system, bollards, etc and replace. How far away is the electrical?	
5	Fuel System- Do we remove existing equipment or just bring in new equipment?	
6.	Safety requirements. How much time are we required to spend?	

Answers:

1. Yes, all piping is above ground. See drawing M-417-10.
 2. Note 3 on drawing CD-417-3 states that the contractor is responsible for the disposal of all equipment. Coordinate this effort with NASA’s environmental group, who will handle all state notification requirements.
 3. Yes. See solicitation clauses 52.204-10 “Reporting Executive Compensation and First Tier Subcontract Awards” and 52.222-8 “Payrolls and Basic Records”.
 4. The electrical system is located approximately twenty-five feet away on the east wall of Bldg 417.
 5. Yes, the contractor is to remove the old system, concrete pad and bollards. See demolition drawing CD-417-3.
 6. The Government cannot specify a time requirement for safety however, each contractor will be required to comply with all safety requirements of the contract.
29. **Question:** Anonymous questions to the Contracting Officer module is not active. Would you check and advise accordingly.

Answer: Issue resolved. Link active as of 09/01/2010.

30. **Question:** Would contractors need to resend this very thorough Past Performance Questionnaire out again if they had sent what was in the original specifications and their past clients may have sent or executed the original forms?

Answer: No. The only change was to correct the date as stipulated on the cover page to coincide with the required due date of the RFP.

31. **Question:** We wanted to know if a CCASS evaluation or a previously completed past performance questionnaire would suffice the requirements of this solicitation. Since it is the end of the fiscal year, many of our federal clients are extremely occupied and will not have time to complete the past performance questionnaire included in the solicitation.

Answer: No. Questionnaires are required.

32. **Question:** We are asking whether we fill out OSHA forms 300 and 300A on Section II D. (1) since we have had no OSHA reportable accidents in the last 2 years.

Answer: It is appropriate to submit 300 and 300A with zeros if there have indeed been no recordable injuries. In accordance with OSHA 29CFR 1904, a 300 log is required to be prepared by the employer even if there has been no injury.

33. **Question:** Could you also please verify under Volume II - Price, the only form to be submitted is the form referenced under Attachment 4 - Pricing Form - Contract Line Item #1 - Base Offer, and that the CLIN form under Attachment 3, Section 2: Contract Term and Conditions, 2.1 Firm Fixed Price, CLIN 1-Base Offer is to be submitted under Volume 3 - Technical Proposal.

Answer: Volume II "Price" contains the Offeror's price proposal for the model task order using pricing forms in solicitation section L.23 attachment 4.

Volume III "Technical Proposal and Other Required Documentation" contains solicitation attachment 3, Section 2 "Contract Terms and Conditions", paragraph 2.1 "Firm Fixed Price", CLIN 1 Base Offer.

34. **Question:** Is there a SF 1442 specific to the model task order?

Answer: Yes; Please see the link entitled "Standard Form 1442 for the Model Task Order" on the NAIS website for the RFP.

after date of opening of bids. The Government will extend the completion dates set forth herein by the number of calendar days in excess of 30 calendar days after the date of opening of bids that the notice to proceed is given. The time stated for completion shall include final cleanup of the premises.

1.5 CONTRACT DRAWINGS AND SPECIFICATIONS

Five sets of full-size Contract drawings and specifications will be furnished the Contractor without charge except for applicable publications incorporated into the specifications by reference. Additional sets of drawings and specifications will be furnished on request at the cost of reproduction. The work shall conform to the following Contract drawings, all of which form a part of these specifications.

<u>Title</u>	<u>Drawing Number</u>
COVER SHEET	M-417-1
INDEX	MUP-SITE-1
MUP SITE INDEX	CD-417-3
ETHANOL FUEL DISPENSING UNIT PLAN, DETAIL & SECTIONS	ED-417-12
POWER PLAN & ELEVATION OF FILL STATION AREA	MD-417-7
PLAN OF THE ETHANOL DISPENSING SYSTEM	MD-417-9
ETHANOL (E85) SKID SYSTEM	C-417-3
ETHANOL FUEL DISPENSING UNIT PLAN, DETAIL & SECTIONS	E-417-12
POWER PLAN & ELEVATION OF FILL STATION AREA	M-417-7
PLAN OF THE ETHANOL DISPENSING SYSTEM	M-417-9
ETHANOL (E85) SKID SYSTEM	M-417-10
ETHANOL SYSTEM P & I DIAGRAM	

1.6 DISCREPANCIES

The Contractor shall check all drawings furnished him immediately upon their receipt and shall promptly notify the Contracting Officer of any discrepancies. Figures marked on drawings shall in general be followed in preference to scale drawings. The Contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.

1.7 AS-BUILT DRAWINGS

During construction the Contractor shall maintain a current set of as-built drawings which reflect changes and deviations in the contract drawings as they are installed in the field. The as-built drawings shall be available for inspection by Contracting Officer at all times.

In order to minimize the time for final payment at the completion of the project, the Contractor shall update the as-built drawings every month and they shall be reviewed by the Contracting Officer. This update will be a part of the monthly review of request for payment. Detailed reviews of all drawings to include possible shop drawings for inclusion in the asbuilt drawing system will be held at the 70 percent, and 90 percent construction milestones. These reviews will include all Government and Contractor personnel involved in the asbuilding process. The Contractor and the Contractor's As-Building staff representative will be present for the monthly review. Payment--or a portion of the payment, including final payment--may be withheld until the as-built drawings have been updated, and

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2.3 ABOVEGROUND STORAGE TANK

2.3.1 Integral Unit

The aboveground storage tank, dispenser, fill box, stairs and platform shall be provided as an integral unit from the supplier. The fuel dispensing system shall be shipped to the site in a minimum number of sub units. Field assembly shall consist of bolting the sub units together and making the interface connections such as piping and electrical.

2.3.2 RESERVED!

2.3.3 Fully-Enclosed Steel Containment

The secondary containment reservoir shall be the factory-fabricated, steel type that fully-encloses the primary storage tank. The containment reservoir shall conform to UL 142. The interstitial space between the primary tank and the containment reservoir shall be both pressure testable and verifiable. The entire tank assembly shall conform to UL 2085. Tank assembly shall bear the UL 2085 label as a protected tank. The primary storage tank shall be supported within the containment reservoir with steel tank saddles, or other similar supports, fabricated and installed by the tank manufacturer.

2.3.4 Welding of Internal Seams

All internal seams and joints shall be seal welded.

2.4 TANK PROTECTIVE COATINGS

2.4.1 Tank Interior Coatings

Coating for the tank interior ferrous metal surfaces shall be a two component, high solids, epoxy phenolic tank lining which is recommended for ethanol immersion service by the manufacturer. Provide a minimum of two coats at 5.0 to 6.0 mils dry-film thickness (dft) per coat, for a total system thickness of 10 to 12 mils dft. Color shall be off-white.

2.4.2 Exterior Coating

Coating for the tank exterior and associated ferrous metal surfaces shall be a two component, high solids, epoxy siloxane. Coating shall be self-priming and recommended for ethanol splash service by the manufacturer. Provide a minimum of two coats at 4.0 to 7.0 mils dft per coat, for a total system thickness of 8 to 14 mils dft. Color shall be white.