



DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVE
WILMINGTON, NC 28403

REPLY TO
ATTENTION OF:

CESAW-CT-EP

22 December 2015

SUBJECT: MATOC Request for Proposal for Task Order Request Number
W91278-11-X-1901, PN69302, SOF Battalion Operations Facility, Fort Bragg, NC

AMENDMENT 0004

- **Paragraph has been revised to include information on the updating of applicable Davis Bacon Wage Determinations as listed.**
- **The date for the receipt of Proposals is hereby changed to January 7th 2016, at 2:00 PM local time.**
- **Paragraph 19(e) is revised to allot for the opening of ProjNet for inquires up until 7 days prior to the receipt of proposals.**
- **Changes to the specifications and drawings can be found on the “Summary of Changes” page, attached hereto.**
- **Amendment changes are prefaced and followed by the following banner:
Amendment 0004.**

All other terms and conditions of the solicitation remain unchanged by this amendment.

1. In accordance with Local Clause 52.216-4008, Multiple Award Fair Opportunity Task and Delivery Order Contracts, subject project is being offered to all Offerors in the LB Gulf North MATOC pool, as identified below, giving each fair opportunity to compete for this action by issuance of this Request for Proposal (RFP) letter. For the purposes of this solicitation, the RFP includes the RFP letter, the Specifications, and the Drawings. Any Offeror who does not wish to be considered for this particular task order is requested to notify this office in writing, within **seven (7) calendar days** of receipt of this letter, indicating reason for non-participation. Those who do wish to compete must submit a proposal by the date and time indicated in paragraph 13 below, and in accordance with the criteria specified herein.

Balfour Beatty Construction
11325 Random Hills Road, Suite 500
Fairfax, VA 22030
Phone (954) 585-4227
Fax (954) 585-4446
Email: klong@balfourbeattyus.com

B.L. Harbert International LLC
820 Shades Creek Parkway, Suite 3000

Birmingham, AL 35209
Phone (205) 802-2800
Fax (205)443-2963
Email: dgsavagc@bharbert.com
jstevenson@bharbert.com

Carothers Construction
31 Highway 328
Oxford, MS 38655
Phone (662) 513-8820
Fax 662) 234-3364
Email: smurphy@carothersconstruction.com
blogan@carothersconstruction.com

Hensel Phelps Construction Co.
6557 Hazeltine National Dr., Suite One
Orlando, FL 32822
Phone (407) 856-2400
Fax (407) 856-6111
Email: KHazen@henselphelps.com

SAUER Incorporated
11223 Phillips Parkway Dr., East
Jacksonville, FL 32256
Phone (904) 262-6444
Fax (904) 268-6156
Email: sauerjaxestimating@sauer-inc.com

W. G. Yates & Sons Construction Co.
P. O. Box 456
Philadelphia, MS 39350
Phone (228) 374-6011
Fax (228) 374-0294
Email: wyates@wgyates.com
cnadolski@wgyates.com

2. Interested participants must submit a price and technical proposal for work detailed in the statement of work, drawings and specifications posted on FedTeDs. To access the statement of work, specifications and drawings go to the following link: <https://www.fbo.gov>. CAUTION: Offerors shall insert a price on all numbered items of the Task Order Pricing Schedule (Attachment 1). Failure to do so may result in rejection of an Offeror's proposal.

3. If an Offeror believes the requirements in this RFP contain an error, omission, ambiguity, or are otherwise unsound; the offeror shall immediately notify the Contracting Officer in writing, to include supporting rationale. Such communication may be submitted via the POC identified in paragraph 22 below.

4. The statement of work for this project includes, but is not limited to: Construct a two-story battalion operations facility including battalion headquarters, company administrative and readiness modules with arms vaults, TA-50 lockers, classrooms, team rooms, mission planning areas, and overhead covered storage. The project includes a tactical equipment maintenance facility, an organization equipment storage building, an oil storage building, and organization vehicle parking. Built-in building systems will include fire alarm/mass notification, fire suppression, energy management controls, telephone, advanced unclassified and classified communications networks, cable television, intrusion detection, closed circuit surveillance, electronic access control, and a protected distribution system (PDS). Supporting facilities include all related site-work and utilities (electrical, water, gas, sanitary sewer, and information systems distribution), lighting, parking, access drives, roads, aprons, hardstands, curb and gutter, sidewalks, emergency generator, storm drainage, landscaping, and other site improvements. Special construction includes sustainable construction features complying with Leadership in Energy and Environmental Design (LEED) "Silver." Access for persons with disabilities will be provided. Comprehensive interior design and audio visual services are included. The project includes demolition and disposal of current, dilapidated facilities. Air conditioning: 1,269kW (361 tons). Square Footage is not to exceed 145,849 Square Feet as authorized by Congress. The period of performance is **720 calendar days** after Notice to Proceed. Work location is Fort Bragg, NC.

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5. Wage Decisions **NC150025, NC150081, and NC150103** apply to this task order (See Attachment 2). Offerors are reminded that wage determinations are subject to change prior to award. All proposed pricing shall include the wage rates as of 1 January 2016. All wage rate increases shall be addressed post award. All Offerors are encouraged to review wage rates established by the Department of Labor prior to submitting proposals.

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6. In accordance with FAR Clause 52.217-5, Evaluation of Options, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

7. In accordance with FAR Clause 52.217-7, Option for Increased Quantity - Separately Priced Line Item, the Contracting Officer may exercise the option by written notice to the Contractor prior to expiration of the option. **Optional Bid Items not exercised upon award will expire no-later-than September 30, 2017.**

8. In accordance with FAR Clause 52.228-1, Bid Guarantee, Offerors are required to submit a bid bond with their proposal. The Bid Guarantee shall be **20% of the bid price or \$3 million**, whichever is less. Bid bonds must be submitted in original form and contain original signatures. Photocopied, facsimile, scanned or otherwise mechanically reproduced bid bonds will not be accepted. Failure to submit a proper bid bond may be cause for rejection of an Offeror's proposal.

9. Proposals shall specify an acceptance period of no less than **120 calendar days** from due date of proposals. If discussion responses and/or proposal revisions are necessary and include

updated pricing, the revised pricing shall be good for an additional **120 days**. Proposals which provide less than this period, or which fail to specify an acceptance period at all, may be rejected.

10. In accordance with DFARS 236.204 the Disclosure of Magnitude for this project is between **\$25,000,000** and **\$100,000,000**. A Construction Cost Limitation (CCL) of **\$37,074,000.00** applies to **CLIN's 0001-0016** as shown in **Task Order Pricing Schedule** (Attachment 1).

11. FAR Clause 52.236-27, Site Visit (Construction), an organized site visit will be held on a **December 1st 2015, at 11:00 am EST.** Attendees will meet at the designated time at the US Army Corps of Engineers Office located in Building X-7170, Fort Bragg NC and travel together to the site together. Please contact the Project Engineer, Ron Cannady at (910) 908-0572 or by Email at arthur.d.cannady@usace.army.mil if you need directions to the field office.

This site visit IS NOT mandatory.

a. Any offeror who plans to attend this site visit must notify Michael Mullen & Charlenne Figgins no later than November 23rd 2015 12:00 pm EST. Please include the number of people who plan to attend. Contact information to notify Michael Mullen or Charlenne Figgins is in paragraph 22 below.

12. In accordance with FAR Provision 52.222-23, Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction, minority participation goals for Cumberland County, NC and its surrounding (Harnett, Sampson, Bladen, Robeson, Hoke and Moore) counties are **26.2% for each trade and female participation goal is 6.9%.**

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13. Proposals shall be organized and tabbed in accordance with Appendix A, General Proposal Submission and Tabbing Requirements and Appendix B, Proposal Factors and Submission Requirements. Proposals shall be electronically signed by a duly authorized official of the Offeror's company and are required no later than **January 7th 2016, at 2:00 PM EST.** Refer to Appendix A for submittal instructions. Proposals shall be submitted by the date and time specified to the following address:

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**U.S. Army Engineer District, Wilmington
ATTN: CESA-W-CT (Mr. Michael M. Mullen, Contract Specialist)
69 Darlington Avenue
Wilmington, NC 28403**

14. In accordance with FAR Clause 52.215-1, Instructions to Offerors – Competitive Acquisitions, the Government reserves the right to make award without discussions. Therefore, Offerors should submit their best technical and price terms in their initial offer and not automatically assume that they will have an opportunity to participate in discussions or to submit a revised offer. The Government may make award of a conforming proposal without discussions, if deemed to be within the best interests of the Government.

15. The following are identified as applicable to the subject action:

FACTOR 1: Technical - Past Experience

FACTOR 2: Technical - Key Personnel

FACTOR 3: Price

16. The Government will evaluate proposals submitted for this task order using the Lowest Price Technically Acceptable Source Selection Process of FAR 15.101-2. Technical representatives shall review all proposals for acceptability and provide the Contracting Officer with a written technical analysis of each Offeror's proposal. The Contracting Officer, in conjunction with the Project Delivery Team (PDT), will review these analyses for correctness and completeness. Proposals will be evaluated for acceptability but not ranked using non-cost/price factors. Tradeoffs will not be permitted. To be considered technically acceptable, no technical factor in the proposal may be determined to be unacceptable. The failure of a proposal to meet any of the acceptability standards for non-cost factors will result in a technically unacceptable rating and preclude award. For further clarification, please see the descriptions shown at **Appendix B, Proposal Evaluation and Appendix C, Ratings and Definitions.**

The Government has established the following relative order of importance:

<u>Factor</u>	<u>Location</u>	<u>Description</u>	<u>Relative Importance</u>
1	Disc II TAB A	Past Experience	Equally important to Factor 2.
2	Disc II TAB B	Key Personnel	Equally important to Factor 1.

FACTOR 3 - PRICE

<u>Sub Factor</u>	<u>Location</u>	<u>Description</u>	<u>Relative Importance</u>
N/A	Disc I TAB B	Acknowledgement of Amendments (If Applicable)	
N/A	Disc I TAB C	Price (CONTRACT LINE ITEM SCHEDULE)	Award will be made on the basis of the lowest evaluated price of technically acceptable proposals meeting the acceptability Factor 1 & 2. The proposal that provides the lowest price and is otherwise technically acceptable will be selected for the task order award.
N/A	Hardcopy Only	Bid Guarantee	

17. Proposals must meet all the criteria stated in this RFP in order to be eligible for award, to include responsiveness and technical acceptability. The Government will evaluate each proposal independently from other proposals using only the RFP evaluation criteria. Award will be made on the basis of the lowest evaluated price of technically acceptable proposals meeting or exceeding the acceptability standards for non-cost factors. The proposal that provides the lowest price and is otherwise technically acceptable in all factors will be selected for the task order award.

18. In accordance with the FAR, no contract shall be entered into unless the contracting officer ensures that all requirements of law, executive orders, regulations, and all other applicable procedures, including clearances and approvals, have been met. This includes the FAR Part 9.103 requirement that no award shall be made unless the contracting officer makes an affirmative determination of responsibility. To be determined responsible, a prospective contractor must meet the general standards in FAR Part 9.104 and any special standards set forth in the solicitation.

19. Technical inquiries and questions relating to proposal procedures or bonds shall be submitted via Bidder Inquiry in ProjNet at www.projnet.org/projnet. Please be aware that only bona fide employees of the MATOC pool contractors may have access or submit bidder inquiries to the ProjNet System. Inquiries submitted by sub-contractors will not receive Government responses.

a. Offerors shall not submit their proposals via ProjNet. Offerors shall submit their proposals in accordance with the provisions stated in paragraph 13 of this solicitation. Any questions regarding acceptable means of submitting offers shall be made directly to the Contract Specialist identified in the solicitation.

b. To submit and review bid inquiry items, bidders must be a current registered user or self-register into the system. To self-register, go to www.projnet.org/projnet, click BID tab, select Bidder Inquiry, select agency USACE, enter Key for this solicitation listed below, and your e-mail address, then click login. Fill in all required information and click create user. Verify that information on next screen is correct and click "Continue." From this page you may view all bidder inquiries or add an inquiry. Offerors questions will be acknowledged via email, followed by an answer to the question after it has been processed by our technical team.

i. The Solicitation Number is: W91278-11-X-1901

ii. The Bidder Inquiry Key is: M27RDJ-Y34V9X

c. Bidders/Offerors are requested to review the specification in its entirety and to review the Bidder Inquiry System for answers to questions prior to submission of a new inquiry. The name of the submitter or firm is not published for the public on the report of all Bidder Inquiries. Bidders/ Offerors are on notice of, and assumed to be aware of, all inquiries, responses, and information posted in the Bidder Inquiry System up to the date of bid submission, whether the inquiry was generated by the Bidder themselves or another potential Bidder/Offeror.

d. Government responses to technical inquiries and questions relating to proposal procedures or bonds that are submitted to ProjNet in accordance with the procedures above are not binding on

the Government unless an amendment to the solicitation is issued on Standard Form 30. In the case of any conflicts, the solicitation governs. Any changes or revisions to the solicitation will be made by formal amendment.

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e. The ability to enter technical inquiries and questions relating to proposal procedures or bonds will be disabled **seven (7) calendar days** prior to the closing date stated in the solicitation. The Government reserves the right to not respond to questions/inquiries received after this date. No inquiries will be accepted by the Bidder Inquiry system within **seven (7) calendar days** prior to the date of bid opening. However, the Bidder Inquiry system may still be accessed to view answers/replies to previous inquiries until the proposal due date.

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20. TASK ORDER / DELIVERY ORDER OMBUDSMAN

In accordance with [FAR 16.505\(b\) \(6\)](#), contracting officers shall identify in MATOC solicitations and contracts the individual(s) that have been appointed as primary ombudsman for USACE:

Primary:

Jacqueline C. Woodson
Acquisition Support Division Chief, Director of Contracting
United States Army Corps of Engineers
7701 Telegraph Rd
Alexandria, VA 22315
(703) 428-6323
Jacqueline.C.Woodson@usace.army.mil

(1) A contractor who receives an award under a multiple award contract may contact the ombudsman with a complaint concerning the award of a particular task/delivery order placed under the multiple-award contract.

(2) The contractor is encouraged to first try to resolve the issue with the task order contracting officer prior to contacting the ombudsman. Ombudsman complaints sent via e-mail are acceptable; however, contractors are encouraged to identify in the subject line of the e-mail "Ombudsman Complaint" to ensure appropriate and prompt attention by the ombudsman.

(3) Upon review of the facts, the ombudsman will determine whether the contractor was afforded a fair opportunity consistent with the procedures in the contract and either:

- (i) Deny the contractor's complaint; or,
- (ii) Require the contracting officer take corrective action regarding the complaint;

(4) The ombudsman's determination on the matter will be communicated to the contractor and the contracting officer.

21. NOTE: OFFERORS MAY BE FOUND NON-RESPONSIVE OR DEFICIENT, AND THEREFORE INELIGIBLE FOR AWARD, IF THEY SUBMIT A PROPOSAL THAT

EXCEEDS THE CCL LIMIT THAT IS PROVIDED IN PARAGRAPH 10 OF THIS LETTER, OR IF THEY SUBMIT A PROPOSAL THAT EXCEEDS THE CONGRESSIONALLY APPROVED GROSS SQUARE FOOTAGE AS CALCULATED BY THE METHOD SET FORTH IN THE CONTRACT.

22. If you have any questions, please contact Mr. Michael Mullen at (910) 251-4710 or via email at michael.m.mullen@usace.army.mil or Ms. Charlene Figgins at (910) 251-4473 or via email at charlene.l.figgins@usace.army.mil.

Sincerely,

FIGGINS.CHARLE
NNE.LEEANN.122
9788430

Digitally signed by
FIGGINS CHARLENNE LEEANN.1229788430
DN: c=US, ou=U.S. Government, ou=DoD,
ou=PKI, ou=USA,
cn=FIGGINS.CHARLENNE.LEEANN.12297884
30
Date: 2015.12.22 09:17:05 -05'00'

Charlene Figgins
Contracting Officer

Enclosure(s):

1. Appendix A
(a) Example 1
2. Appendix B
3. Appendix C

Attachment(s):

1. Bid Price Schedule
2. Additional Contract Clauses
3. Wage Decisions

ENCLOSURE 1
APPENDIX A
GENERAL PROPOSAL SUBMISSION AND TABBING REQUIREMENTS

W91278-11-X-1901
PN69302
SOF Battalion Operations Facility
Fort Bragg, NC

1. REQUIREMENT FOR SEPARATE PRICE AND TECHNICAL PROPOSALS:

Each offeror must submit both a Price Proposal and a Technical Proposal. The Price Proposal and Technical Proposal must be submitted as separate (CD-ROM) Discs. No hard paper copies will be accepted or evaluated.

Both the Price Proposal and the Technical Proposal must be received by the closing date and time set for receipt of proposals.

No dollar amounts from the Price Proposal are to be included in the Technical proposal.

All information intended to be evaluated as part of the Technical Proposal must be submitted as part of the Technical Proposal. Do not cross-reference similar material in the Price Proposal, or vice versa.

Do not include exceptions to the terms and conditions of the solicitation in either the technical or price proposal. Should the offer include any standard company terms and conditions that conflict with the terms and conditions of the solicitation, the offer may be determined “unacceptable” and thus ineligible for award. Should the offeror have any questions related to specific terms and conditions, these should be resolved prior to the submission of the offer.

The technical data criteria specified for each factor identified herein and as described in Appendix B shall be submitted as part of the proposal.

The contractor is responsible for including sufficient details in its proposal to permit a complete and accurate evaluation. Accordingly, the Contractor shall be clear and concise in its proposal. The Government will not make assumptions concerning the Contractor’s intent.

Failure to submit all the data required by the RFP, this Appendix and Appendix B, may be cause for determining a proposal incomplete and, therefore, not considered for award.

2. **Disc I: FACTOR 3: PRICE:** One (1) electronic copy (CD-ROM) shall be submitted and one (1) original copy of the bid guarantee in hardcopy only.

Electronic Requirements: Written portions of the proposal should be in MS Word, or Adobe Acrobat PDF. The submission shall be a single file tabbed as listed in the

table below. The CD-ROM must be clearly labeled by solicitation number, project name, installation, and Offeror's name.

TAB	CONTENTS OF THE PRICE PROPOSAL
A	The Proposal Cover Sheet
B	Acknowledgement of Amendments (If Applicable)
C	Schedule B, Task Order Price Schedule
	Bid Guarantee (Bid Bond)

TAB A – The proposal cover sheet is required by FAR 52.215-1 (c) (2) and must be submitted by all offerors. The format for the proposal cover sheet is as follows:

PROPOSAL COVER SHEET

1. The solicitation number;
 2. The name, address, and telephone and facsimile numbers of the offeror (and electronic address if available);
 3. A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation and agreement to furnish any or all items upon which prices are offered at the price set opposite each item;
 4. Names, titles, and telephone and facsimile numbers (and electronic addresses if available) of persons authorized to negotiate on the offeror's behalf with the Government in connection with this solicitation; and
 5. Name, title, and signature of person authorized to sign the proposal.
- Proposals signed by an agent shall be accompanied by evidence of that agent's authority, unless that evidence has been previously furnished to the issuing office.

TAB B - If applicable - All amendments must be acknowledged by all Offerors and duly executed with an original signature by an official authorized to bind the company in accordance with FAR 4.102.

TAB C - Task order price schedule is to be completed in its entirety by all offerors. See Attachment 1.

Provide a fully executed Bid Bond as required by FAR Clause 52.228-1, Bid Guarantee.

3. **Disc II: TECHNICAL: FACTOR'S 1 & 2:** One (1) electronic copy (CD-ROM).

Electronic Requirements: Written portions of the proposal should be in MS Word, or Adobe Acrobat PDF. The electronic version shall be a single file tabbed in the same order as the hard copy. Drawings should be in Adobe Acrobat PDF. Any portion of the proposal not available in electronic format, i.e. cut sheets, should be scanned in Adobe Acrobat PDF format. The CD-ROM must be clearly labeled by solicitation number, project name,

installation, and Offeror's name. In the event of any conflict between the electronic submission and the hard copy submission, the hard copy submission will govern and will be the material upon which the Government bases its evaluation and ultimately, its decision.

TAB	CONTENTS OF THE TECHNICAL PROPOSAL
A	Factor 1: Past Experience
B	Factor 2: Key Personnel

Page Limitations: The following page limitations are established for each factor described above:

Factor 1: Past Experience – Limited to 20 pages (maximum of 5 forms)

Factor 2: Key Personnel – Limited to 3 pages per individual resume

NOTE: Pages that exceed the required page limitations will not be evaluated. Additional pages over the maximum allowed will be removed or not read and will not be evaluated by the Government. Tables of content, proposal cover letters, and tabs between proposal information do not count toward any page limitations in the proposal.

Offerors are cautioned that “parroting” of the Technical requirements or the Scope of Work with a statement of intent to perform *does not* reflect an understanding of the requirement or capability to perform. Offerors are responsible for including sufficient details to permit a complete and accurate evaluation of each proposal. Proprietary information shall be clearly marked.

TAB A - Factor 1: Past Experience: Demonstrate the experience of the offeror and/or proposed team, including subcontractors, on projects same/similar to that described in the solicitation for same/similar services. The projects submitted should also demonstrate that the offeror and/or the team have performed a same/similar type of services (ie. Building construction, to include but not limited to Mechanical, electrical, structural, etc. ability to coordinate with multiple entities (i.e. Utility companies or adjacent project contractors).

The Contractor shall complete a minimum of three (3), but no more than five (5), “Experience Information” forms, (See Example 1), in response to this factor. All projects submitted must be at least 50% complete for current on-going projects and for projects that are 100% complete, these projects must have been completed within the last five (5) years. Each project provided must be valued at over \$5,000,000.00.

If any of the information required is not included in the form, the contractor will be considered nonresponsive and evaluated as unacceptable.

(SEE EXPERIENCE INFORMATION FORM IN EXAMPLE 1)

TAB B –Factor 2: Key Personnel: The offeror must provide resume data for the following key personnel: Construction Project Manager, Safety Officer, Quality Control Manager, and Site Superintendent. The offeror may also include resume data for other

personnel that the offeror considers key. The Offeror shall provide an organization chart that identifies major subcontractors.

Resume information to be provided shall be limited to no more than three (3) pages per person and shall include the following information as a minimum:

- (a) Name and title
- (b) Project assignment
- (c) Name of firm with which presently associated
- (d) Years experience with this firm and with other firms
- (e) Active professional registration, year first registered, if applicable
- (f) Other experience and qualifications relevant to same/similar work required under this contract
- (g) List of project(s) in which the individual has worked to include name of project(s), project date(s), and role performed on the project.
- (h) Education: degree(s), year, specialization, if applicable
- (i) Professional License(s) and Certification(s), if applicable.

NOTE 1: Pages that exceed the required page limitations will not be evaluated. Additional pages over the maximum allowed will be removed or not read and will not be evaluated by the Government.

NOTE 2: Any changes to the key personnel identified in the proposal must meet the minimum acceptable criteria and can only be approved by the Contracting Officer.

ENCLOSURE 2
Appendix B
Proposal Factors and Submission Requirements

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PN69302
SOF Battalion Operations Facility
Fort Bragg, NC

Offerors are reminded that this Appendix is intended to provide a comprehensive list of potential factors and corresponding evaluation criteria. However, as the Government identifies the need for other potential factors, this list is subject to revision as needed. Please refer to the RFP letter for identification of the specific factors that may apply to the task order under consideration.

LPTA SOURCE SELECTION PROCESS

An evaluation for acceptability will be performed on each proposal in accordance with FAR 15.101-2(b)(3). The proposal that provides the lowest price and is otherwise technically acceptable in all factors will be selected for award. To be considered technically acceptable, no technical factor in the proposal may be determined to be unacceptable. The failure of a proposal to meet any of the acceptability standards for non-cost factors will result in a technically unacceptable rating and preclude award.

Material omission(s) may cause the technical proposal to be rejected as unacceptable.

Proposals which are generic, vague, or lacking in detail may be considered unacceptable. The offeror's failure to include information that the Government has indicated should be included in the proposal may result in the offer being found deficient.

The Government cannot make award to an offeror that is determined to have a technical proposal that is deficient or unacceptable. Therefore, receipt of an "UNACCEPTABLE" determination of acceptability for any factor will make the offer ineligible for award, unless the Government elects to enter into discussions with that Offeror and all deficiencies are remedied in a revised proposal.

TECHNICAL EVALUATION: The Technical Proposal will be evaluated based on the criteria identified herein.

Factor 1: Past Experience: The Government will review the project experience of the offeror on projects provided in response to the Past Experience Factor. Offerors must meet all of the following minimum acceptability standards to receive an "ACCEPTABLE" rating on this factor:

Relevancy is established with the following two items:

- (1) Offeror must have at least three (3) projects that are same/similar to that of the work found in this solicitation; AND
- (2) Each of the projects submitted must be valued at over **\$5,000,000.00** and they must have been at least 50% complete within the last 5 years.

Recency is established with the following item:

(1) All projects submitted under Factor 1 must be at least 50% complete for current on-going projects and for projects that are 100% complete, these must have been completed within the last 5 years.

Relevancy and Recency are not separately rated. A single rating will be assigned for the submission under Factor 1.

Failure to demonstrate the minimally acceptability standards under this factor will result in an “UNACCEPTABLE” rating and possible elimination from further consideration for contract award.

Factor 2: Key Personnel: The Government will review the resumes provided in response to the Personnel Factor. Offerors must demonstrate all of the following minimum acceptability standards to receive an “ACCEPTABLE” rating on this factor.

The offeror must demonstrate in all resumes that the key personnel proposed have:

(1) A minimum of **five** (5) years of specialized and relevant experience in their field;
AND

(2) Experience on projects same/similar to the work in this solicitation working in the position they are assigned to under this contract; AND

(3) A degree in the field of work governed by the position they are assigned to. This applies to all Design Specialists and the Construction Project Manager; AND

(4) The appropriate Certification(s) in the field of work governed by the position they are assigned to. This applies to the Safety Officer and Quality Control Manager.

Failure to demonstrate the minimally acceptability standards under this factor will result in an “UNACCEPTABLE” rating and possible elimination from further consideration for contract award.

FACTOR 3: PRICE EVALUATION:

Price analysis will be performed to determine fairness and reasonableness as well as to assure an understanding of the work and ability to execute the task order at the price proposed. The evaluation will determine the extent to which the price proposal is realistic and consistent with the requirements of the RFP, to include limitations of the specified CCL, if any, reflect a clear understanding of the requirements, and are consistent with the information provided by the offeror.

Historical price information, competitive price information, the Independent Government Estimate (IGE), or any other pricing tool will be utilized as necessary in making this determination. Offerors are advised that any offer wherein pricing is deemed unfair or unreasonable, to include offers deemed to be unreasonably low, will be rendered ineligible for award. Additionally, all offers will be analyzed for unbalanced pricing.

Price will be evaluated and considered but will not be scored or combined with other aspects of the proposal evaluation.

The otherwise technically-acceptable, lowest-priced offeror may be required to confirm its price on either a, CLIN, element, or total price basis, and/or provide additional information in support of their price, prior to contract award at the Government's request and discretion.

**ENCLOSURE 3
APPENDIX C
RATINGS AND DEFINITIONS**

**W91278-11-X-1901
PN69302
SOF Battalion Operations Facility
Fort Bragg, NC**

Each evaluation factor and its risk rating combined will be determined and assigned using the adjectival and color descriptions contained herein. Upon assessment of each individual sub-factor and its risk rating, the appropriate overall rating for the technical proposal will be assigned using these acceptable and unacceptable (pass/fail) ratings as defined below:

Color	Rating	Description
Green	Acceptable	Proposal clearly meets the minimum requirements of the solicitation.
Red	Unacceptable	Proposal does not clearly meet the minimum requirements of the solicitation.

ATTACHMENT 1
TASK ORDER PRICING SCHEDULE

Solicitation Number - W91278-11-X-1901
PN 69302
SOF Battalion Operations Facility
Fort Bragg, NC

<u>CLIN</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
0001	BASE BID: Construction, Battalion Operations Facility (BOF), Complete	JB	1	_____	_____
0002	BASE BID: Construction, Tactical Equipment Maintenance Facility (TEMF) w/ Organizational Storage, Complete	JB	1	_____	_____
0003	BASE BID: Construction, Oil Storage Building, Complete	JB	1	_____	_____
0004	BASE BID: Construction, TEMF Organizational Vehicle Parking, Complete	JB	1	_____	_____
0005	BASE BID: Site Development Outside Five (5) Foot Line	JB	1	_____	_____
0006	OPTIONAL BID ITEM 1:				
0006a	Furniture, Finishes & Equipment: Purchase & Delivery	JB	1	_____	_____
0006b	Furniture, Finishes & Equipment: Installation, Complete	JB	1	_____	_____
0007	OPTIONAL BID ITEM 2: Audio Visual Equipment; Battalion Command Conference Room H249				
0007a	Audio Visual Equipment: Purchase & Delivery	JB	1	_____	_____
0007b	Audio Visual Equipment: Installation Complete	JB	1	_____	_____
0008	OPTIONAL BID ITEM 3: Audio Visual Equipment; Conference Rooms H110 and H119				
0008a	Audio Visual Equipment: Purchase & Delivery	EA	2	_____	_____
0008b	Audio Visual Equipment: Installation Complete	EA	2	_____	_____

0009	OPTIONAL BID ITEM 4: Audio Visual Equipment; Typical Conference Rooms				
0009a	Audio Visual Equipment: Purchase & Delivery	EA	5	_____	_____
0009b	Audio Visual Equipment: Installation Complete;	EA	5	_____	_____
0010	OPTIONAL BID ITEM 5: Audio Visual Equipment; Classrooms S202 and S203				
0010a	Audio Visual Equipment: Purchase & Delivery	EA	2	_____	_____
0010b	Audio Visual Equipment: Installation Complete	EA	2	_____	_____
0011	OPTIONAL BID ITEM 6: Electronic Security System, BOF: CCTV				
0011a	Purchase & Delivery CCTV	JB	1	_____	_____
0011b	Installation CCTV Complete	JB	1	_____	_____
0012	OPTIONAL BID ITEM 7: Electronic Security System, BOF: IDS				
0012a	Purchase & Delivery IDS	JB	1	_____	_____
0012b	Installation IDS Complete	JB	1	_____	_____
0013	OPTIONAL BID ITEM 8: Electronic Security System, BOF: Access Control				
0013a	Purchase & Delivery Access Control	JB	1	_____	_____
0013b	Installation Access Control Complete	JB	1	_____	_____
0014	OPTIONAL BID ITEM 9: Electronic Security System, TEMF: CCTV				
0014a	Purchase & Delivery CCTV	JB	1	_____	_____
0014b	Installation CCTV Complete	JB	1	_____	_____
0015	OPTIONAL BID ITEM 10: Electronic Security System, TEMF: IDS				
0015a	Purchase & Delivery IDS	JB	1	_____	_____
0015b	Installation IDS Complete	JB	1	_____	_____

0016	OPTIONAL BID ITEM 11: Electronic Security System, TEMF: Access Control				
0016a	Purchase & Delivery Access Control	JB	1	_____	_____
0016b	Installation Access Control Complete	JB	1	_____	_____

TOTAL BASE LINE ITEMS 0001 – 0005 _____

SUBTOTAL OPTIONAL BID ITEMS 1, CLIN 0006a-0006b _____

SUBTOTAL OPTIONAL BID ITEMS 2, CLIN 0007a-0007b _____

SUBTOTAL OPTIONAL BID ITEMS 3, CLIN 0008a-0008b _____

SUBTOTAL OPTIONAL BID ITEMS 4, CLIN 0009a-0009b _____

SUBTOTAL OPTIONAL BID ITEMS 5, CLIN 0010a-0010b _____

SUBTOTAL OPTIONAL BID ITEMS 6, CLINs 0011a-0011b _____

SUBTOTAL OPTIONAL BID ITEMS 7, CLIN 0012a-0012b _____

SUBTOTAL OPTIONAL BID ITEMS 8, CLIN 0013a-0013b _____

SUBTOTAL OPTIONAL BID ITEMS 9, CLIN 0014a-0014b _____

SUBTOTAL OPTIONAL BID ITEMS 10, CLIN 0015a-0015b _____

SUBTOTAL OPTIONAL BID ITEMS 11, CLIN 0016a-0016b _____

TOTAL AMOUNT OF OPTIONAL BID ITEMS 0001-00011, CLIN 0006-0016 _____

TOTAL LINE ITEMS 0001 – 0016 _____

PROPOSED CONTRACT DURATION: 720 calendar days

NOTICE TO BIDDERS

NOTE 1:

FOR OPTIONAL BID ITEMS 1 thru 11 (CLIN's 0006 – 0016), IF EXERCISED, THE PERIOD OF PERFORMANCE SHALL NOT BE EXTENDED BEYOND THE ORIGINAL CONTRACT DURATION OF 720 CALENDAR DAYS. PERFORMANCE OF ANY AWARDED OPTIONAL BID ITEMS SHALL RUN CONCURRENTLY WITH THE BASE BID ITEMS CONTRACT DURATION SO THAT THE PERIOD OF PERFORMANCE SHALL NOT EXCEED 720 CALENDAR DAYS.

NOTE 2:

THE GOVERNMENT RESERVES THE RIGHT TO EXERCISE OPTIONAL BID ITEMS 1 thru 11 (CLIN's 0006 – 0011) BY 30 SEPTEMBER 2017 AFTER AWARD.

NOTE 3:

THE EXERCISE OF OPTIONAL BID ITEM 1 thru 11 (CLIN's 0006 – 0011) SHALL BE SUBJECT TO THE AVAILABILITY OF FUNDS.

Attachment 2

Additional Contract Clauses

FAR 52.211-10, COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK
(APR 1984)

The Contractor shall be required to:

- (a) Commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed,
- (b) Prosecute the work diligently, and
- (c) Complete the entire work ready for use not later than **720 calendar days** after notice to proceed. The time stated for completion shall include final cleanup of the premises.

(End of Clause)

FAR 52.211-12, LIQUIDATED DAMAGES – CONSTRUCTION (SEP 2000)

- a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of **\$2,045.20** for each calendar day of delay until the work is completed or accepted.
- (b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(End of Clause)

FAR 52.236-4001, DESIGN-BUILD CONTRACT-ORDER OF PRECEDENCE – Nov 2004

(a) The contract includes the standard contract clauses and schedules current at the time of award. It also entails:

- (1) the solicitation in its entirety, including all drawings, cuts and illustrations, and any amendments during proposal evaluation and selection, and (2) the successful Offeror's accepted proposal in its entirety, including all drawings, catalog cuts, illustrations, personnel, narratives and other offers that meet or exceed the RFP requirements. The contract constitutes and defines the entire agreement between the Contractor and the Government. No documentation shall be omitted which in any way bears upon the terms of that agreement.

(b) In the event of conflict or inconsistency between any of the provisions of the various portions of this contract, precedence shall be given in the following order:

(1) Items which exceed the RFP requirements

- (i) Betterments: Any portions of the Offeror's proposal which both meet and exceed the provisions of the solicitation, as defined by the Solicitation Section 100, "Proposal Submission Requirements."
- (ii) Enhancements: Any portions of the Offeror's proposal, or any portions of an accepted design submission, that exceed the minimum quality or performance standards set forth in the RFP but which are not specifically identified as betterments within the RFP definition. This includes, but is not limited to, catalog cuts, illustrations, narratives, identified personnel, equipment, materials, methods and all other offers contained within the proposal that meet or exceed the RFP requirements.

(2) The provisions of the solicitation (see also Contract Clause: SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION). If the proposal, or any approved design submission, offers to provide any requirement that does not meet the RFP specification and drawings, and that item is not specifically recognized during evaluation as a proposal weakness, it is a deviation. Deviations from the minimum standard of quality required by the RFP shall not be accepted unless identified and specifically approved by the Contracting Officer in writing. If unapproved, the Contractor must provide the RFP requirements without additional cost to the Government.

(3) All other provisions of the accepted proposal.

(4) Any design products, including but not limited to plans, specifications, engineering studies and analyses, shop drawings, equipment installation drawings, etc. These are "deliverables" under the contract and are not part of the contract itself. Design products must conform to all provisions of the contract, in the order of precedence herein.

(End of Clause)

FAR 52.249-4001 I, TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (APR 1991 OCE)

(a) This provision specifies the procedure for the determination of time extensions for unusually severe weather in accordance with the contract clause entitled DEFAULT (FIXED PRICE CONSTRUCTION). In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

(1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

(2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

(b) The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

**MONTHLY ANTICIPATED ADVERSE WEATHER DELAY
WORKDAYS BASED ON 5-DAY WORK WEEK**

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
10	9	6	4	4	6	8	7	4	4	5	9

(c) Upon acknowledgment of the Notice to Proceed and continuing through-out the contract, the Contractor will record on the daily Contractor Quality Control report the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled workday. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day in each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph (b) above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather workdays, and issue a modification in accordance with the contract clause entitled DEFAULT (FIXED PRICE CONSTRUCTION).

ATTACHMENT 3
Wage Determinations

General Decision Number: NC150025 05/15/2015 NC25

Superseded General Decision Number: NC20140025

State: North Carolina

Construction Type: Building

County: Cumberland County in North Carolina.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015
1	05/15/2015

CARP0312-001 05/01/2013

	Rates	Fringes
CARPENTER, Excludes Drywall Hanging, and Form Work.....	\$ 22.85	8.25

* IRON0848-005 12/01/2014

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 23.00	12.00

PLUM0421-001 07/01/2013

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 24.85	9.65

SUNC2011-006 08/24/2011

	Rates	Fringes
BRICKLAYER.....	\$ 19.00	0.00
CARPENTER (Drywall Hanging Only).....	\$ 13.83	0.00
CARPENTER (Form Work Only).....	\$ 13.38	1.80
CEMENT MASON/CONCRETE FINISHER...	\$ 15.80	0.00
ELECTRICIAN.....	\$ 20.64	6.68
HVAC MECHANIC (HVAC Duct Installation Only).....	\$ 17.37	1.82
LABORER: Common or General.....	\$ 10.54	0.52
LABORER: Landscape & Irrigation.....	\$ 9.13	0.28
LABORER: Pipelayer.....	\$ 13.35	2.80
LABORER: Mason Tender-Brick/Cement/Concrete.....	\$ 12.00	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 18.47	2.41
OPERATOR: Bulldozer.....	\$ 16.00	1.87
OPERATOR: Crane.....	\$ 19.77	4.48
OPERATOR: Forklift.....	\$ 13.86	0.00
OPERATOR: Grader/Blade.....	\$ 15.72	1.49
OPERATOR: Loader.....	\$ 16.17	0.25
PAINTER: Brush, Roller and Spray.....	\$ 12.35	0.00
ROOFER.....	\$ 11.75	1.06
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 15.81	1.40
TRUCK DRIVER.....	\$ 13.38	1.48

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.		
=====		

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

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Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

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Washington, DC 20210

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END OF GENERAL DECISION

General Decision Number: NC150103 01/23/2015 NC103

Superseded General Decision Number: NC20140103

State: North Carolina

Construction Type: Highway

Counties: Brunswick, Cumberland, Currituck, Edgecombe, Franklin, Greene, Hoke, Johnston, Nash, New Hanover, Onslow, Pender, Pitt, Wake and Wayne Counties in North Carolina.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015
1	01/23/2015

* SUNC2014-005 11/17/2014

	Rates	Fringes
BLASTER.....	\$ 21.04	
CARPENTER.....	\$ 13.72	
CEMENT MASON/CONCRETE FINISHER...	\$ 14.48	
ELECTRICIAN		
Electrician.....	\$ 17.97	
Telecommunications		
Technician.....	\$ 16.79	.63
IRONWORKER.....	\$ 16.02	
LABORER		
Asphalt Raker and Spreader..	\$ 12.46	
Asphalt Screed/Jackman.....	\$ 14.33	
Carpenter Tender.....	\$ 12.88	

Cement Mason/Concrete
 Finisher Tender.....\$ 12.54
 Common or General.....\$ 10.20
 Guardrail/Fence Installer...\$ 12.87
 Pipelayer.....\$ 12.17
 Traffic Signal/Lighting
 Installer.....\$ 14.89

PAINTER

Bridge.....\$ 24.57

POWER EQUIPMENT OPERATOR

Asphalt Broom Tractor.....\$ 11.85
 Bulldozer Fine.....\$ 17.04
 Bulldozer Rough.....\$ 14.34
 Concrete Grinder/Groover....\$ 20.34
 Crane Boom Trucks.....\$ 20.54
 Crane Other.....\$ 20.08
 Crane Rough/All Terrain.....\$ 20.67
 Drill Operator Rock.....\$ 14.38
 Drill Operator Structure....\$ 21.14
 Excavator Fine.....\$ 16.60
 Excavator Rough.....\$ 14.00
 Grader/Blade Fine.....\$ 18.47
 Grader/Blade Rough.....\$ 14.62
 Loader 2 Cubic Yards or
 Less.....\$ 13.76
 Loader Greater Than 2
 Cubic Yards.....\$ 14.14
 Material Transfer Vehicle
 (Shuttle Buggy).....\$ 15.18
 Mechanic.....\$ 17.55
 Milling Machine.....\$ 15.36
 Off-Road Hauler/Water
 Tanker.....\$ 11.36
 Oiler/Greaser.....\$ 13.55
 Pavement Marking Equipment..\$ 12.11
 Paver Asphalt.....\$ 15.59
 Paver Concrete.....\$ 18.20
 Roller Asphalt Breakdown....\$ 12.45
 Roller Asphalt Finish.....\$ 13.85
 Roller Other.....\$ 11.36
 Scraper Finish.....\$ 12.71
 Scraper Rough.....\$ 11.35
 Slip Form Machine.....\$ 16.50
 Tack Truck/Distributor
 Operator.....\$ 14.52

2.30

TRUCK DRIVER

GVWR of 26,000 or Less.....\$ 11.12
 GVWR of 26,001 Lbs or
 Greater.....\$ 12.37

WELDERS - Receive rate prescribed for craft performing
 operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

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Survey Rate Identifiers

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Union Average Rate Identifiers

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

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Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator

(See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Technical Summary of Changes

SPECIFICATIONS – Volume 1 of 5

33 51 15 - NATURAL-GAS DISTRIBUTION

Delete existing Page 1 thru Page 17 in their entirety and replace with enclosed revised Page 1 thru Page 16.

NOTE:

Text that is added or revised by this amendment is identified with *4 and/or printed in bold. Track changes shown as follows...Strikethroughs(Delete).

The text changes may have necessitated reformatting of subsequent text or pages. If this is the case, those pages have also been issued as amended pages but are not underlined or bold text.

DRAWINGS

File No. 141-85-24:

Volume 1:

Sheet CS106 with Revision 2 dated 18 December 2015 is hereby added to and made a part of the Contract Drawings. Sheet TS100 with Revision 3 dated 12 December 2015 is hereby added to and made a part of the Contract Drawings.

Volume 2:

Sheets A-601 and P-502 with Revision 1 dated 18 December 2015 are hereby added to and made a part of the Contract Drawings.

Volume 3:

Sheet P-501 with Revision 1 dated 18 December 2015 is hereby added to and made a part of the Contract Drawings.

-- End of Summary of Changes --

Encls
As Stated

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ATTACHMENTS:

CSA US 3-92 IAS U.S. Requirements 3-92 for Excess Flow Valves

-- End of Section Table of Contents --

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NATURAL-GAS DISTRIBUTION
11/08

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN GAS ASSOCIATION (AGA)

AGA ANSI B109.3 (2000) Rotary-Type Gas Displacement Meters

AGA XR0603 (2006; 8th Ed) AGA Plastic Pipe Manual for Gas Service

AMERICAN PETROLEUM INSTITUTE (API)

API Std 1104 (2005; Errata/Adden 2007; Errata 2008; R 2010) Welding of Pipeline and Related Facilities

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ASCE 25-06 (2008) Earthquake-Activated Automatic Gas Shutoff Devices

ASME INTERNATIONAL (ASME)

ASME B16.40 (2008) Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems

ASME B31.8 (2013) Gas Transmission and Distribution Piping Systems

ASME B40.100 (2005; R 2010) Pressure Gauges and Gauge Attachments

ASME BPVC SEC VIII D1 (2010) BPVC Section VIII-Rules for Construction of Pressure Vessels Division 1

ASME PTC 25 (2008) Pressure Relief Devices

ASTM INTERNATIONAL (ASTM)

ASTM D2513 (2012a; E 2012) Thermoplastic Gas Pressure Pipe, Tubing, and Fittings

ASTM D2683 (2010; E 2013) Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene

Pipe and Tubing

- ASTM D3261** (2012) Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
- ASTM D3350** (2012) Polyethylene Plastics Pipe and Fittings Materials
- ASTM F2786** (2010) Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Gaseous Media Under Pressure (Pneumatic Leak Testing)

CSA GROUP (CSA)

- ANSI LC 1/CSA 6.26** (2014) Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY (MSS)

- MSS SP-110** (2010) Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends
- MSS SP-25** (2008) Standard Marking System for Valves, Fittings, Flanges and Unions
- MSS SP-72** (2010a) Ball Valves with Flanged or Butt-Welding Ends for General Service

MASTER PAINTERS INSTITUTE (MPI)

- MPI 9** (Oct 2009) Exterior Alkyd, Gloss, MPI Gloss Level 6

NACE INTERNATIONAL (NACE)

- NACE SP0185** (2007) Extruded Polyolefin Resin Coating Systems with Soft Adhesives for Underground or Submerged Pipe

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

- NFPA 54** (2012) National Fuel Gas Code
- NFPA 58** (2011; TIA 10-1; Errata 10-1; TIA 11-2; TIA 11-3; Errata 11-2; Errata 12-3; TIA 13-4) Liquefied Petroleum Gas Code

SOCIETY FOR PROTECTIVE COATINGS (SSPC)

- SSPC 7/NACE No.4** (2007; E 2004) Brush-Off Blast Cleaning
- SSPC Paint 25** (1997; E 2004) Zinc Oxide, Alkyd, Linseed Oil Primer for Use Over Hand Cleaned Steel, Type I and Type II

SSPC SP 1 (1982; E 2004) Solvent Cleaning

SSPC SP 3 (1982; E 2004) Power Tool Cleaning

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

49 CFR 192 Transportation of Natural and Other Gas by
Pipeline: Minimum Federal Safety Standards

1.2 SYSTEM DESCRIPTION

The gas distribution system includes natural gas piping and appurtenances from point of connection with existing system, as indicated, to the meter and pressure/regulator assembly. Submit operation and maintenance data in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA, in three separate packages. Submit Data packages, as specified.

1.2.1 Gas Distribution System and Equipment Operation

*4

Include maps showing piping layout, locations of system valves, gas line markers; step-by-step procedures for system start up, operation and shutdown (index system components and equipment to the system maps); isolation procedures including valve operation to shutdown or isolate each section of the system (index valves to the system maps and provide separate procedures for normal operation and emergency shutdown if required to be different). Submit Data Package No. 4.

1.2.2 Gas Distribution System Maintenance

Include maintenance procedures and frequency for system and equipment; identification of pipe materials and manufacturer by locations, pipe repair procedures, and jointing procedures at transitions to other piping material or material from a different manufacturer. Submit Data Package No. 4.

1.2.3 Gas Distribution Equipment Maintenance

Include identification of valves and other equipment by materials, manufacturer, vendor identification and location; maintenance procedures and recommended tool kits for valves and equipment; recommended repair methods (i.e., field repair, factory repair, or replacement) for each valve and piece of equipment; and preventive maintenance procedures, possible failure modes and troubleshooting guide. Submit Data Package No. 3.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Pipe, Fittings, and Associated Materials

SD-03 Product Data

Materials and Equipment; G, RO

Spare Parts
Pipe and Accessory Coatings

SD-05 Design Data

Connections to Existing Lines
Connection and Abandonment Plan
Jointing of Polyethylene Piping

SD-06 Test Reports

Pressure and Leak Tests; G, RO

SD-07 Certificates

Welder's training, qualifications and procedures; G, RO
Utility Work

SD-08 Manufacturer's Instructions

EFV Design and Installation Guide
CSST Installation Guide

SD-10 Operation and Maintenance Data

Gas distribution system and equipment operation
Gas distribution system maintenance
Gas distribution equipment maintenance

1.4 QUALITY ASSURANCE

1.4.1 Qualifications

1.4.1.1 Welding General

- a. Submit a certificate of [Welder's training, qualifications and procedures](#), in conformance with [API Std 1104](#), for metal along with a list of names and identification symbols of performance qualified welders and welding operators.

1.4.1.2 [Jointing of Polyethylene Piping](#)

- a. Join piping by performance qualified PE joiners, qualified by a person who has been trained and certified by the manufacturer of the pipe, using manufacturer's pre-qualified joining procedures in accordance with [AGA XR0603](#). Inspect joints by an inspector qualified in the joining procedures being used and in accordance with [AGA XR0603](#). Welders training, qualifications and procedures, (metal and PE) includes use of equipment, explanation of the procedure, and successfully making joints which pass tests specified in [AGA XR0603](#).
- b. Submit a certificate of qualified jointing procedures, training procedures, qualifications of trainer, and training test results for joiners and inspectors. Notify the Contracting Officer at least 24 hours in advance of the date to qualify joiners and inspectors.

1.4.2 Pre-Installation Conference

1.4.2.1 Shop Drawings

Submit shop drawings, within 30days of contract award, containing complete schematic and piping diagrams and any other details required to demonstrate that the system has been coordinated and will properly function as a unit. Show on the drawings proposed layout and anchorage of the system and appurtenances, and equipment relationship to other parts of the work including clearances for maintenance and operation.

1.4.2.2 Connecting and Abandonment Plan

Submit written notification of the method and schedule for making connections to existing gas lines, to the Contracting Officer at least 10 days in advance. Include gas line tie in, hot taps, abandonment/removal or demolition, purging, and plugging as applicable in conformance with [ASME B31.8](#) Include in submittal [connection and abandonment plan](#).

1.5 DELIVERY, STORAGE, AND HANDLING

1.5.1 Delivery and Storage

Inspect materials delivered to the site for damage, and store with a minimum of handling. Store materials on site in enclosures or under protective coverings. Store plastic piping under cover out of direct sunlight. Do not store materials directly on the ground. Keep inside of pipes and fittings free of dirt and debris.

1.5.2 Handling

*3

Handle pipe and components carefully to ensure a sound, undamaged condition. Take particular care not to damage pipe coating. Repair damaged coatings to original finish. Do not place pipe or material of any kind inside another pipe or fitting after the coating has been applied, except as specified in paragraph INSTALLATION. Handle plastic pipe in conformance with [AGA XR0603](#).

1.5.3 Corrugated Stainless Steel Tubing (CSST)

Handle, transport and store CSST tubing on the wooden spool or shipping container provided by the manufacturer. Ensure tubing ends are capped during transportation and storage to minimize dirt and moisture entry. Discard any tubing segment and fitting that has been damaged.

1.6 EXTRA MATERIALS

Submit [spare parts](#) data for each different item of equipment and material specified, after approval of the detail shop drawings and not later than 2 months prior to the date of beneficial occupancy. Include in the data a complete list of parts and supplies, with current unit prices and source of supply.

PART 2 PRODUCTS

2.1 PIPE, FITTINGS, AND ASSOCIATED MATERIALS

Provide [materials and equipment](#) which are the standard products of a manufacturer regularly engaged in the manufacture of the products and that

essentially duplicate items that have been in satisfactory use for at least 2 years prior to bid opening. Asbestos or products containing asbestos are not allowed. Provide written verification and point of contact for a supporting service organization that is, in the opinion of the Contracting Officer, reasonably convenient to the site. Mark all valves, flanges, and fittings in accordance with MSS SP-25. Submit a complete list of materials and equipment, including manufacturer's descriptive and technical literature, performance charts and curves, catalog cuts, and installation instructions, including, but not limited to the following:

- a. Dielectric Waterways and Flange Kits.
- b. Emergency Gas Supply Connection.
- c. Fittings
- d. Piping
- e. Pipe and Accessory coatings
- f. Pressure Reducing Valves.
- g. Meters
- h. Regulators.
- i. Shut-off Valves
- j. Earthquake Actuated Automatic Gas Shut-off System conforming to ASCE 25-06.

2.1.1 Polyethylene Pipe, Tubing, Fittings and Joints

Design Pressure at 73 degrees F		
SDR	S = 1,250 psi	S = 1,600 psi
11	80 psig	100 psig
13.5	60 psig	80 psig
17	50 psig	60 psig
21	40 psig	50 psig
26	30 psig	40 psig

Provide polyethylene pipe, tubing, fittings and joints conforming to ASTM D3350 and ASTM D2513, pipe designations PE 2406 and PE 3408, rated SDR 11 or less, as specified in ASME B31.8. Mark pipe sections as required by ASTM D2513. Provide butt fittings conforming to ASTM D3261 and socket fittings conforming to ASTM D2683. Match fittings to the service rating of the pipe, with a minimum wall thickness of ASTM D 2513.

2.1.2 Gas Transition Fittings

Provide manufactured steel gas transition fittings approved for jointing steel and polyethylene pipe, conforming to AGA XR0603 requirements for transition fittings.

2.2 VALVES

Provide valves suitable for shutoff or isolation service and conforming to MSS SP-110, MSS SP-72 and the following:

2.2.1 Polyethylene Valves

*3

Provide polyethylene valves conforming to ASME B16.40. Polyethylene valves, in sizes 1/2 inch to 6 inches, may be used with polyethylene distribution and service lines for underground installation only.

2.2.2 Automatic Gas Shut-Off Valve

Provide medium pressure automatic gas shutoff or excess flow valve (EFV) at each branch take-off from main serving each facility point of delivery conforming to CSA US 3-92 IAS U.S. Requirements 3-92 for Excess Flow Valves and UL listed or CSA listed or International Association of Plumbing and Mechanical Officials (IAPMO) listed. The EFV may be either a bypass (automatic reset) or a non-bypass (manual rest) type. Submit an EFV design and installation guide which includes the manufacturer's product design data and installation instructions.

2.3 PRESSURE REGULATORS

Provide ferrous bodied regulators with backflow protection, designed to meet the pressure, load and other service conditions.

2.3.1 Gas Main Regulators

Equip pressure regulators for main distribution lines, supplied from a source of gas which is at a higher pressure than the maximum allowable operating pressure for the system, with pressure regulating devices of adequate capacity. In addition to the pressure regulating devices, provide a protective method to prevent overpressuring of the system in accordance with ASME B31.8. Suitable protective devices are as follows:

- a. Spring-loaded relief valve meeting the provisions of ASME BPVC SEC VIII D1.
- b. Pilot-loaded back pressure regulator used as relief valve, so designed that failure of the pilot system will cause the regulator to open.
- c. Weight-loaded relief valves conforming to ASME PTC 25.
- d. Monitoring regulator installed in series with the primary pressure regulator.
- e. Series regulator installed upstream from the primary regulator, set to limit the pressure on the inlet of the primary regulator continuously to the maximum allowable operating pressure of the system, or less.
- f. Automatic shutoff device installed in series with the primary regulator, set to shut off when the pressure on the distribution system reaches the maximum allowable operating pressure of the system, or less, which remains closed until manually reset.
- g. Spring-loaded, diaphragm type relief valves.

2.3.2 Service Line Regulators

- a. Provide ferrous bodied pressure regulators for individual service lines, capable of reducing distribution line pressure to pressures required for users. Provide regulators where gas will be distributed at pressures in excess of 10 inches of water column, with pressure

relief set at a lower pressure than would cause unsafe operation of any connected user.

b. .

c. Provide regulator(s) having a single port with orifice diameter no greater than that recommended by the manufacturer for the maximum gas pressure at the regulator inlet. Provide regulator valve vent of resilient materials designed to withstand flow conditions when pressed against the valve port, capable of regulating downstream pressure within limits of accuracy and limiting the buildup of pressure under no-flow conditions to 50 percent or less of the discharge pressure maintained under flow conditions. Provide a self contained service regulator, and pipe not exceeding exceed2 inch size.

2.4 METERS

*4

AGA ANSI B109.3 pedestal mounted, enamel-coated steel case provided with a strainer immediately upstream. Provide rotary-type displacement meter conforming to AGA ANSI B109.3 as required by local gas utility supplier. Provide pressure gauges and attachments conforming to ASME B40.100. Provide combined register totalizer index, UV-resistant index cover, water escape hole in housing, and means for sealing against tampering. Meter shall be temperature-compensated type and sized for the required flow rate (). Provide meters with over-pressure protection as specified in ASME B31.8 tamper-proof protection frost protection fungus-proof protection, seismic protection, suitable for accurately measuring and handling gas at pressures, temperatures, and flow rates indicated. Provide meters with a pulse switch initiator capable of operating up to speeds of 500 maximum pulses per minute with no false pulses and requiring no field adjustments. Provide not less than one pulse per 100 cubic feet of gas. Minimum service life shall be 30,000,000 cycles.

2.4.1 Utility Monitoring and Control System (UMCS) or Automatic Meter Reading Interfaces

Gas meters shall be capable of interfacing (output signal equivalent to flow rate) with the existing Utility Monitoring and Control System (UMCS) for data gathering in units of volumetric flow rate (CFM). Meters shall not require power to function and deliver data. Output signal shall be either a voltage or amperage signal with can be converted to a flow rate specification.

2.5 EARTHQUAKE ACTUATED AUTOMATIC GAS SHUTOFF SYSTEM

Provide Earthquake Actuated Automatic Gas Shutoff devices conforming to ASCE 25-06 or excess flow valve (EFV) conforming to CSA US 3-92, UL or CSA listed requirements furnished by the Contracting Officer as listed by the State of California, Division of the State Architect as being tested and in conformance with specified requirements. The valve may be either pendulum or ball construction with , electric actuator. The EFV may be either a bypass or a non-bypass type.

2.6 EMERGENCY GAS SUPPLY CONNECTION

Provide an emergency gas supply connection consisting of piping (same size as service line) and accessories that will enable a portable, commercial-sized gas cylinder system to be connected to the gas piping system. Cap this connection to prevent gas leakage with a lockable manual

valve located to allow shutting off flow. Provide the entire assembly in a weatherproof, lockable box, with permanently installed written instructions stating the type and pressure of the gas allowed to be connected to the line, and providing specific instruction for testing of the integrity of the building's gas system with an inert gas before the fuel gas connection is made. Provide a subplate in the box that is required to be unbolted to gain access to the connection, and containing a warning regarding the potential consequences of using gas other than that specified or of failing to test system integrity before hooking up emergency fuel supply.

2.7 PROTECTIVE COVERING MATERIALS

Provide a continuously extruded polyethylene and adhesive coating system material conforming to [NACE SP0185](#), Type A.

2.8 TELEMETERING OR RECORDING GAUGES

Equip each distribution system supplied by more than one district pressure regulating station with telemetering or recording pressure gauges to indicate the gas pressure in the district line.

PART 3 EXECUTION

3.1 EXAMINATION

After becoming familiar with all details of the work, verify all dimensions in the field, and advise the Contracting Officer of any discrepancy before performing the work.

3.2 EXCAVATION AND BACKFILLING

Earthwork is as specified in Section [31 00 00 EARTHWORK](#).

3.3 GAS MAINS

Provide polyethylene pipe for gas mains. Do not install polyethylene mains aboveground.

3.4 SERVICE LINES AND EMERGENCY GAS SUPPLY CONNECTION

3.4.1 General

Construct service lines of materials specified for gas mains and extend from a gas main to and including the point of delivery within [5 feet](#) of the building. The point of delivery is the meter set assembly. Connect the service lines to the gas mains through service tees, with end of run plugged. Where indicated, provide service line with an isolation valve of the same size as the service line. Make the service lines as short and as straight as practicable between the point of delivery and the gas main, without bends or lateral curves unless necessary to avoid obstructions or otherwise permitted. Lay service lines with as few joints as practicable using standard lengths of pipe, use shorter lengths only for closures. Do not install polyethylene service lines aboveground except as permitted in [ASME B31.8](#).

3.5 WORKMANSHIP AND DEFECTS

Make pipe, tubing, and fittings clear and free of cutting burrs and defects

in structure or threading, and thoroughly brushed and blown free of chips and scale. Do not repair, but replace defective pipe, tubing, or fittings.

3.6 PROTECTIVE COVERING

*3

3.6.1 Deleted

3.6.2 Protective Covering for Aboveground Piping Systems

Apply finish painting conforming to the applicable paragraphs of Section 09 90 00 PAINTS AND COATINGS and as follows:

3.6.2.1 Ferrous Surfaces

Touch up shop primed surfaces with ferrous metal primer of the same type paint as the shop primer. Solvent-clean surfaces that have not been shop primed in accordance with SSPC SP 1. Mechanically clean surfaces that contain loose rust, loose mill scale, and other foreign substances by power wire brushing in accordance with SSPC SP 3 or brush-off blast clean in accordance with SSPC 7/NACE No.4 and primed with ferrous metal primer in accordance with SSPC Paint 25. Finish primed surfaces with two coats of exterior alkyd paint conforming to MPI 9.

3.6.2.2 Nonferrous Surfaces

Do not paint nonferrous surfaces.

*3

3.6.3 Deleted

3.7 INSTALLATION

*3

Install gas distribution system and equipment in conformance with the manufacturer's recommendations and applicable sections of ASME B31.8, AGA XR0603 and 49 CFR 192. Perform abandonment of existing gas piping in accordance with ASME B31.8. Cut the pipe without damaging the pipe; unless otherwise authorized, use an approved type of mechanical cutter. Use wheel cutters where practicable. Cut plastic pipe in accordance with AGA XR0603. Design valve installation in plastic pipe to protect the plastic pipe against excessive torsional or shearing loads when the valve is operated and from other stresses which may be exerted through the valve or valve box. Install gas piping, appliances, and equipment in accordance with NFPA 54 and in compliance with the CSST manufacturer's installation instructions. Install distribution piping in accordance with ASME B31.8.

3.7.1 Installing Pipe Underground

*3

Grade gas mains and service lines as indicated. Provide mains with 24 inch minimum cover; service lines with 18 inch minimum cover; and place both mains and service lines on firmly compacted select material for the full length. Where indicated, encase, bridge, or design the main to withstand any anticipated external loads as specified in ASME B31.8. Provide standard weight black steel pipe encasement material with a protective coating as specified. Separate the pipe from the casing by insulating spacers and seal the ends with casing bushings. Excavate the trench below pipe grade, bed with bank sand, and compact to provide full-length bearing. Laying pipe on blocks to produce uniform grade is not permitted. Ensure that the pipe is clean inside before it is lowered into the trench and keep free of water, soil, and all other foreign matter that might damage or obstruct the operation of the valves, regulators, meters, or

other equipment. When work is not in progress, securely close open ends of pipe or fittings with expandable plugs or other suitable means. Minor changes in line or gradient of pipe that can be accomplished through the natural flexibility of the pipe material without producing permanent deformation and without overstressing joints may be made when approved. Make changes in line or gradient that exceed the limitations specified with fittings. When cathodic protection is furnished, provide electrically insulated joints or flanges. When polyethylene piping is installed underground, place foil backed magnetic tape above the pipe in accordance with [NFPA 54](#) to permit locating with a magnetic detector. After laying of pipe and testing, backfill the trench in accordance with Section [31 00 00](#) EARTHWORK.

3.7.2 Installing Pipe Aboveground

Protect aboveground piping against dirt and other foreign matter, as specified for underground piping. Weld joints in steel pipe ; however, joints in pipe [1-1/2 inches](#) in diameter and smaller may be threaded; joints may also be threaded to accommodate the installation of valves. Provide flanges of the weld neck type to match wall thickness of pipe.

3.7.2.1 Corrugated Stainless Steel Tubing (CSST)

Determine and establish the length of each tubing run at the job site between each two points of connection within the piping system by the payout of the tubing from its supplied storage spool. For all tubing sizes, use the appropriate mechanical fittings as supplied by the tubing manufacturer. Submit a [CSST Installation Guide](#) which includes manufacturer's product data and installation instructions.

- a. Mechanical Joints: Prepare the tubing end and assemble the fitting on the tubing in accordance with the tubing manufacturer's instructions. Apply the manufacturer specified torque to the fitting to complete the assembly process. Do not use sealant or tape within the fitting where it attaches to the tubing. Approved sealant and/or tape shall be applied to the tapered male pipe thread portion of the fitting before it can be assembled with any other steel and/or malleable iron pipe component/fitting.
- b. Tubing Size Changes: Use appropriate reducing or expansion fittings as supplied by the manufacturer or standard malleable iron fittings for changes in tubing size.
- c. Identification of Tubing: Identify and mark all CSST tubing in accordance with the requirements of [ANSI LC 1/CSA 6.26](#). No other identification is required.

3.8 PIPE JOINTS

Design and install pipe joints to effectively sustain the longitudinal pullout forces caused by the contraction of piping or superimposed loads.

3.8.1 Polyethylene Pipe Jointing Procedures

Use jointing procedures conforming to [AGA XR0603](#). Avoid making indiscriminate heat fusion joining of plastic pipe or fittings made from different polyethylene resins by classification or by manufacturer if other alternative joining procedures are available. If heat fusion joining of dissimilar polyethylene is required, special procedures are required.

Test the method of heat fusion joining dissimilar polyethylene resins in accordance with paragraph TESTS, subparagraph Destructive Tests of Plastic Pipe Joints.

3.8.2 Connections Between Metallic and Plastic Piping

Only make metallic to plastic connections outside, underground, and with approved transition fittings.

3.9 VALVE BOXES

Provide valve boxes of cast iron not less than $3/16$ inch thick at each underground valve except where concrete or other type of housing is indicated. Provide valve boxes with locking covers that require a special wrench for removal, and furnish the correctly marked wrench for each box. Cast the word "gas" in the box cover. When the valve is located in a roadway, protect the valve box by a suitable concrete slab at least 3 square feet. When in a sidewalk, provide the top of the box as a removable concrete slab 2 feet square and set flush with the sidewalk. Make the boxes adjustable extension type with screw or slide-type adjustments. Separately support valve boxes to not rest on the pipe, so that no traffic loads can be transmitted to the pipe. Only locate valves valve boxes or inside of buildings.

3.10 PRESSURE REGULATOR INSTALLATION

3.10.1 Service Line Regulators

Install a shutoff valve, meter set assembly, and service regulator on the service line outside the building, 18 inches above the ground on the riser. Install an insulating joint on the inlet side of the meter set assembly and service regulator and construct to prevent flow of electrical current. Provide a $3/8$ inch tapped fitting equipped with a plug on both sides of the service regulator for installation of pressure gauges for adjusting the regulator. Terminate all service regulator vents and relief vents in the outside air in rain and insect resistant fittings. Locate the open end of the vent where gas can escape freely into the atmosphere, away from any openings into the building and above areas subject to flooding.

3.11 METER INSTALLATION

Install meters in accordance with ASME B31.8. Install permanent gas meters with provisions for isolation and removal for calibration and maintenance, and suitable for operation in conjunction with an energy monitoring and control system.

3.12 CONNECTIONS TO EXISTING LINES

Make connections between new work and existing gas lines, where required, in accordance with ASME B31.8, using proper fittings to suit the actual conditions. When connections are made by tapping into a gas main, provide the same size connecting fittings as the pipe being connected.

3.12.1 Connections to Publicly or Privately Operated Gas Utility Lines

Provide materials for the connections to the existing gas lines. The Utility is to make final connections and turn on the gas. The Utility is to also disconnect, purge and cap, plug or otherwise effectively seal existing lines that are to be abandoned or taken out of service. Notify

the Contracting Officer, in writing, 10 days before final connections and turning on of gas lines. Make necessary arrangements with the Utility for tie in and activation of new gas lines. Only the Operating Agency/Utility Company may reactivate the system after tie in. Furnish a certification by the Operating Agency/Utility Company that all **Utility work** has been satisfactorily completed.

3.12.2 Connection to Government Owned/Operated Gas Lines

Provide connections to the existing gas lines in accordance with approved procedures. Only perform deactivation of any portion of the existing system at the valve location shown on the drawings. Reactivation of any existing gas lines will only be done by the local Utility. Submit the approved Contractor's **Connection and Abandonment Plan** prior to making any connections to existing gas lines, . Notify the Contracting Officer, in writing, 10 days before connections to existing lines are to be made.

- a. Physically disconnect from the pipeline system if facilities are abandoned in place. Purge, cap, plug or otherwise effectively seal the open ends of all abandoned facilities. Do not complete abandonment until it has been determined that the volume of gas or liquid hydrocarbons contained within the abandoned section poses no potential hazard. Use air or inert gas for purging, or fill the facility with water or other inert material. If air is used for purging, ensure that a combustible mixture is not present after purging.
- b. When a main is abandoned, together with the service lines connected to it, only the customer's end of such service lines is required to be sealed as stipulated above.
- c. Disconnect abandoned service lines from the active mains as close to the main as practicable.
- d. Close all valves left in the abandoned segment.
- e. Remove all above grade valves, risers, and vault and valve box covers. Fill vault and valve box voids with suitable compacted backfill material.

3.13 TESTS

3.13.1 Destructive Tests of Plastic Pipe Joints

Prior to making polyethylene heat fusion joints, make a joint of each size and type to be installed that day by each person performing joining of plastic pipe that day and destructively test. Cut at least 3 longitudinal straps from each joint. Visually examine each strap for voids or discontinuities on the cut surfaces of the joint area, deformations by bending, torque, or impact. If failure occurs, it must not initiate in the joint area. If a joint fails the visual or deformation test, the qualified joiner who made that joint is not allowed to make further field joints in plastic pipe on this job until that joiner has been retrained and re-qualified. Record the results of the destructive tests including the date and time of the tests, size and type of the joints, ambient conditions, fusion iron temperature and names of inspectors and joiners.

3.13.2 **Pressure and Leak Tests**

Test the system of gas mains and service lines after construction and

before being placed in service, using air as the test medium. Follow all testing recommendations and safety precautions as recommended by the piping manufacturer's specifications, [NFPA 54](#), [NFPA 58](#) and [49 CFR 192](#). Submit data in booklet form from all pressure tests of the distribution system. Perform testing for polyethylene (PE) piping in accordance with [ASTM F2786](#). The normal operating pressure for the system is 60. The test pressure is 90.

- a. Prior to testing the system, blow-out, clean, and clear the interior of all foreign materials. Remove all meters, regulators, and controls before blowing out and cleaning, and reinstall after clearing of all foreign materials.
- b. Perform testing of gas mains and service lines with due regard for the safety of employees and the public during the test. Keep persons not working on the test operations out of the testing area while testing is proceeding. Perform the test on the system as a whole or on sections that can be isolated.
- c. Test joints in sections prior to backfilling when trenches will be backfilled before the completion of other pipeline sections. Continue the test for at least 24 hours from the time of the initial readings to the final readings of pressure and temperature. Do not take the initial test readings of the instrument for at least 1 hour after the pipe has been subjected to the full test pressure. Do not take initial or final readings at times of rapid changes in atmospheric conditions, and temperatures are representative of the actual trench conditions. No indication of reduction of pressure is allowed during the test after corrections have been made for changes in atmospheric conditions in conformity with the relationship $T(1)P(2)=T(2)P(1)$, in which T and P denote absolute temperature and pressure, respectively, and the numbers denote initial and final readings.
- d. During the test, completely isolate the entire system from all compressors and other sources of air pressure. Test each joint by means of soap and water or an equivalent nonflammable solution prior to backfilling or concealing any work. Secure approval of testing instruments from the Contracting Officer. Furnish all labor, materials and equipment for conducting the tests subject to inspection at all times during the tests. Maintain safety precautions for air pressure testing at all times during the tests.

3.13.3 Meter Test

Test meter to verify data transfer to data collection server and validate calibration of both meter and the data that is received by the data collection server.

-- End of Section --